

# Harmonized CHARLS Documentation

**VERSION D (2011-2018), JUNE 2021**

Drystan Phillips, Hunter Green, Sarah Petrosyan, Kanghong Shao,  
Jenny Wilkens, & Jinkook Lee

*We greatly appreciate support from the National Institute on Aging  
(R01 AG030153, RC2 AG036619, R03 AG043052)*

# Preface

The China Health and Retirement Longitudinal Study (CHARLS) is a longitudinal study of individuals over age 45 in China. It was designed to better understand the socioeconomic determinants and consequences of aging. The survey includes a rich set of questions regarding economic standing, physical and psychological health, demographics, and social networks of aged persons. The survey is designed to ensure comparability with the Health and Retirement Survey (HRS) in the United States and related aging surveys, such as the English Longitudinal Study of Aging (ELSA) in England and the Survey of Health, Aging and Retirement in Europe (SHARE) in Europe and Israel. Part of the reason for the close connection is to allow cross-country comparisons using these data.

In order to make the data more accessible to researchers and to facilitate such comparisons, we the USC Gateway to Global Aging Data team, created the Harmonized CHARLS, a user-friendly version of a subset of the CHARLS interviews. The Harmonized CHARLS initiative is part of a larger set of projects. With funding and support from the National Institute on Aging, we have also created Harmonized HRS (USA), Harmonized MHAS (Mexico), Harmonized ELSA (England), Harmonized SHARE (Europe and Israel), Harmonized CRELES (Costa Rica), Harmonized KLoSA (South Korea), Harmonized JSTAR (Japan), Harmonized TILDA (Ireland), Harmonized LASI (India), and Harmonized MARS (Malaysia). Further information about these Harmonized data files with questionnaires and other searchable metadata is available on our website, <https://g2aging.org/>.

In creating the Harmonized data files, we have followed the RAND HRS and Harmonized HRS conventions of variable naming and data structure. The RAND HRS is a user-friendly version of a subset of the HRS that the RAND Center for the Study of Aging created to increase usability. The Harmonized HRS is a supplementary dataset to the RAND HRS, which also include a subset of the HRS data, that the Gateway to Global Aging Data team has created to increase usability of a greater number of HRS variables. The Harmonized CHARLS includes variables with a similar naming convention that mimics the RAND HRS, Harmonized HRS, and other Harmonized variables. This document describes these data.

We are grateful for the continuing support of and funding from NIA. In working with the CHARLS data, we greatly benefited from the help from Dr. Yaohui Zhao, Dr. Yafeng Wang, Dr. John Strauss, Dr. Albert Park and the CHARLS team members. We have greatly benefited from discussions with and the suggestions from our colleagues Arie Kapteyn, Marco Angrisani, Erik Meijer, and Bas Weerman. We would also like to acknowledge our current and former colleagues at the Gateway to Global Aging Data: Sidney Beaumaster, Sandy Chien, Samuel Lau, and Ashley Lin.

## **Requested Acknowledgment**

We ask all users of the Harmonized CHARLS to please inform our team of any written analysis using data from the Harmonized CHARLS or information from the Harmonized CHARLS Codebook by sending an email to [papers@g2aging.org](mailto:papers@g2aging.org). We also ask users to include the following acknowledgement in their written work:

"This analysis uses data or information from the Harmonized CHARLS dataset and Codebook, Version D as of June 2021 developed by the Gateway to Global Aging Data. The development of the Harmonized CHARLS was funded by the National Institute on Aging (R01 AG030153, RC2 AG036619, R03 AG043052). For more information, please refer to <https://g2aging.org/>."

## **CHARLS Version and Acknowledgment**

This document used CHARLS Waves 1 through 4 as of June 2021. CHARLS is supported by Peking University, the National Natural Science Foundation of China, the National Institute on Aging, and the World Bank.

# Contents

<b>PREFACE .....</b>	<b>1</b>
<b>REQUESTED ACKNOWLEDGMENT .....</b>	<b>2</b>
<b>CHARLS VERSION AND ACKNOWLEDGMENT .....</b>	<b>2</b>
<b>WHAT'S NEW IN VERSION D OF THE HARMONIZED CHARLS? .....</b>	<b>5</b>
<b>1. INTRODUCTION AND OVERVIEW .....</b>	<b>9</b>
1.1. Gateway to Global Aging Data .....	10
1.2. Unit of Observation .....	11
1.3. Data File Structure .....	11
1.4. Variable Naming Convention .....	11
1.5. Missing Values, Nonresponse, and Imputations .....	13
1.6. Weighting and Accounting for Survey Design .....	13
1.7. Availability of Stress Measures .....	14
<b>2. WEALTH AND INCOME VARIABLES .....</b>	<b>15</b>
2.1 Units of Observation and financial respondent.....	15
2.2. Currency .....	16
<b>3. STRUCTURE OF CODEBOOK .....</b>	<b>17</b>
<b>4. DISTRIBUTION AND TECHNICAL NOTES .....</b>	<b>21</b>
<b>5. DATA CODEBOOK .....</b>	<b>22</b>
<b>SECTION A: DEMOGRAPHICS AND IDENTIFIERS .....</b>	<b>23</b>
<b>SECTION B: HEALTH .....</b>	<b>76</b>
<b>SECTION C: HEALTH CARE UTILIZATION AND INSURANCE.....</b>	<b>173</b>
<b>SECTION D: COGNITION .....</b>	<b>203</b>
<b>SECTION E: FINANCIAL AND HOUSING WEALTH.....</b>	<b>223</b>
<b>SECTION F: INCOME AND CONSUMPTION .....</b>	<b>290</b>
<b>SECTION G: FAMILY STRUCTURE .....</b>	<b>383</b>
<b>SECTION H: EMPLOYMENT HISTORY .....</b>	<b>496</b>
<b>SECTION I: RETIREMENT .....</b>	<b>538</b>
<b>SECTION J: PENSION .....</b>	<b>556</b>

<b>SECTION K: PHYSICAL MEASURES .....</b>	<b>571</b>
<b>SECTION L: ASSISTANCE AND CAREGIVING .....</b>	<b>664</b>
<b>SECTION M: STRESS.....</b>	<b>802</b>
<b>SECTION Q: PSYCHOSOCIAL.....</b>	<b>815</b>
<b>REFERENCES.....</b>	<b>827</b>

# What's New in Version D of the Harmonized CHARLS?

Version D incorporates the latest released version of CHARLS data, and adds variables for Wave 4. It contains 25,586 observations or rows. It is a Respondent-level file so each row represents a unique Respondent. It also adds new variables and makes adjustments and corrections.

We have added the following new sections to the file:

## **Physical Measures:**

- We created the Physical Measures section, which contains variables pertaining to timed walk measurements, blood pressure measurements, hand grip strength measurements, height and weight measurements, waist measurements, lung function measurements, balance tests, and chair stand tests.

## **Assistance and Caregiving:**

- We created the Assistance and Caregiving section, which contains variables pertaining to receiving any care for individual ADLs, using assistive devices for ADLs, receiving any care for individual IADLs, future ADL needs, receiving any care for ADLs or IADLs, receiving any informal care, receiving informal care from spouse, receiving informal care from children or grandchildren, receiving informal care from non-relatives, receiving any formal care, receiving formal care from paid professionals, receiving formal care from unpaid professionals, paid help, providing care for parents and grandchildren (previously in Family Structure section), and providing informal care to sick or disabled persons.

## **Stress:**

- We created the Stress section, which contains variables pertaining to childhood/lifetime stressful events and self-rated childhood health and finances.

## **Psychosocial:**

- We created the Psychosocial section, which contains variables pertaining to depressive symptoms using CES-D (previously in the Health section) and single life satisfaction question. This work was done in collaboration with Jacqui Smith and Lindsay Ryan of the University of Michigan.

We have added the following variables to the file:

## **Demographics and Identifiers:**

- We added **HACOHORT\_C**, which is the cohort in which the household was originally sampled.
- We added **RAFYEAR**, **RAFBMONTH**, and **RAFBDAY**, indicating the wave at which the respondent reported the values used in **RABYEAR**, **RABMONTH**, and **RABDAY**, respectively.
- We added **RwNHMLIV** for all available waves, indicating whether the respondent lives in an institution.

## **Health:**

- We added **RwRXHIBP**, **RwRXHIBP\_C**, **RwRXDIABI**, **RwRXDIAB**, **RwRXDIAB\_C**, **RwCNCRMEDS**, **RwCNCRMEDS\_C**, **RwCNCRCHEM**, **RwCNCRSURG**, **RwCNCRRADN**, **RwRXLUNG**, **RwRXLUNG\_C**, **RwRXHEART**, **RwRXHEART\_C**, **RwRXSTROK**, **RwRXSTROK\_C**, **RwTRPSYCH**, **RwRXARTHR**, **RwRXARTHR\_C**, **RwRXDYSLIP**, **RwRXDYSLIP\_C**, **RwRXLIVER**, **RwRXLIVER\_C**, **RwRXKIDNEY**, **RwRXKIDNEY\_C**, **RwRXDIGEST**, **RwRXDIGEST\_C**, **RwRXMEMORY**, and **RwRXMEMORY\_C** for all available waves, indicating whether and how the respondent was treated for high blood pressure, diabetes, cancer, lung condition, heart problems, stroke, psychiatric condition, arthritis, dyslipidemia, liver disease, kidney disease, digestive disease, and memory problems.
- We added **RwDRINKR\_C** at all available waves, indicating the highest range of the number of drinks per day that the respondent reports for any one of three types of alcohol (liquor, beer, or wine).
- We added **RwDRINKNR** at all available waves, indicating whether the respondent has ever taken a drink first thing in the morning to steady nerves or get rid of a hangover.

#### **Financial and Housing Wealth:**

- We added **HwABORR** at all available waves, indicating the total amount of personal loans owed to others by the respondent and spouse.

#### **Family Structure:**

- We added **RAMOMEDUCL** and **RADADEDUCL**, indicating the highest level of education completed by the respondent's mother and father. These variables use a harmonized scale that is a simplified version of the 1997 International Standard Classification of Education (ISCED) codes.
- We added **RAMOMOCCUP\_C** and **RADADOCCUP\_C**, indicating the occupation of the respondent's mother and father before the respondent was age 17.

#### **Employment History:**

- We added **RwJHOURTOT** at all available waves, indicating the total number of hours the respondent works per week on their main job and other jobs.
- We added **RwJGOVTEMP** at all available waves, indicating whether the respondent is employed by the government.
- We added **RwJSALARY\_C** at all available waves, indicating whether the respondent is paid salary or wages in their current job.
- We added **RwJBONUS** at all available waves, indicating the amount of bonuses the respondent received in the past year.
- We added **RwJMSICK** at all available waves, indicating whether the respondent missed work in the past year due to health problems.
- We added **RwJNSICKAGR**, **RwJNSICKEMP**, and **RwJNSICKSF** at all available waves, indicating the number of days of agricultural work, employed work, and self-employed work the respondent missed in the past year due to health problems.
- We added **RwJBGYR** and **RwJBGMO** at all available waves, indicating the year and month the respondent began their current job.

- We added **RwJRSLEFT** and **RwJRSLEFT\_C** at all available waves, indicating the reason the respondent left their last employer, if they are currently not working.

**Retirement:**

- We added **RwFRETFC** at all available waves, indicating whether the respondent's previous report that they completed retirement or receding position procedures is disputed at the current interview or a later interview.
- We added **RwWKAFRET** at all available waves, indicating whether the respondent worked after they completed the retirement process.
- We added **RwRETRS\_C** at all available waves, indicating the respondent's main reason for processing early or internal retirement.

We have made the following adjustments, improvements, and corrections to the data and documentation:

**All Sections:**

- In version C of the Harmonized CHARLS, we had named the 2015 wave of CHARLS Wave 4, coinciding with that wave's naming in the CHARLS documentation. Since CHARLS now refers to the 2015 wave as Wave 3 of CHARLS, we have renamed all variables for this wave to pertain to Wave 3, and now refer to the 2018 wave as Wave 4.

**Demographics and Identifiers:**

- We renamed **HHID\_W1** to **HOUSEHOLDID\_W1**, indicating the 9-character household identifier at Wave 1.
- We adjusted **RABYEAR**, **RABMONTH**, and **RABDAY** so that Chinese lunar calendar birth dates are converted to solar (Gregorian) calendar birth dates. This change impacts the value of **RwAGEY**.
- We adjusted **RADYEAR** and **RADMONT** so that Chinese lunar calendar death dates are converted to solar (Gregorian) calendar death dates.

**Health:**

- We moved **RwBMI**, **RwHEIGHT**, and **RwWEIGHT**, indicating the respondent's body mass index, height in meters, and weight in kilograms, respectively, to the new Physical Measures section. Also, we renamed **RwBMI** to **RwMBMI**, **RwHEIGHT** to **RwMHEIGHT**, and **RwWEIGHT** to **RwMWEIGHT** to identify that these values were derived from measurements conducted by CHARLS as opposed to self-reported values.
- We renamed **RwDRINK** to **RwDRINKEV** to align better with ever drinking variables in other Harmonized datasets.

**Health Care Utilization and Insurance:**

- We renamed **RwORDOC1M** to **RwTRDMED1M**, indicating whether the respondent visit a Chinese medicine hospital in the past month.
- We renamed **RwORDTIM1M** to **RwTRDMED1M**, indicating the number of times the respondent visited a Chinese medicine hospital in the past month.

**Financial and Housing Wealth:**



- We updated the values of **CyyyyCPINDEX** based on updated values from the OECD. We continue to use 2010 as the base year.

**Family Structure:**

- We renamed **HwPCNTF** to **HwPCNT**, indicating whether the respondent and spouse had any weekly contact with parents/parents-in-law in person, to avoid confusion with non-comparable **HwPCNTF** variables in other Harmonized datasets.
- We moved **HwGRCARE** and **HwGKCARE**, indicating whether the respondent gave care to parents/parents-in-law and grandchildren, respectively, to the new Assistance and Caregiving section. Also, we renamed **HwGRCARE** to **HwGPCARE**.
- Financial support to and from others at Wave 3, **H3FOAMT**, **H3FOANY**, **H3TOAMT**, and **H3TOANY** (previously named **H4FOAMT**, **H4FOANY**, **H4TOAMT**, and **H4TOANY**), were adjusted to also include support to and from siblings.

**Employment History:**

- We adjusted **RwLBRF\_C** at all waves, indicating the respondent's labor force status, to include both an agricultural employed work and an agricultural self-employed work category instead of one general agricultural work category.

**Retirement:**

- We removed **RwRPLYNR**, indicating the year when the respondent plans to stop working.

# 1. Introduction and Overview

This report documents the Harmonized CHARLS data files, a streamlined collection of variables derived from the China Health and Retirement Longitudinal Study (CHARLS). CHARLS is a panel survey of people aged 45 and over and their partners regardless of age in China. The main goal is to provide a high quality nationally representative sample of Chinese residents' data to serve the needs of scientific research on health, economic position, and quality of life as people age. The survey elicits information about demographics, income, assets, health, cognition, family structure and connections, health care use and costs, housing, job status and history, expectations, biomarkers, and insurance.

CHARLS is supported by Peking University, the National Natural Science Foundation of China, the Behavioral and Social Research Division of the National Institute on Aging, and the World Bank. CHARLS shares the same basic guidelines as the Health and Retirement Study (HRS) and related aging surveys, such as the English Longitudinal Study of Aging (ELSA) in England) and the Survey of Health, Aging and Retirement in Europe (SHARE) in Europe and Israel.

The first wave of CHARLS was conducted between June 2011 and March 2012. The sample population was selected as part of a stratified, multistage probability design. The first component of this sampling framework was the probability proportion to size (PPS) sampling of all county-level unit except for Tibet after stratifying by region, characteristic of the county (urban or rural), and per-capita gross domestic product (GDP). Households were selected within PSUs using a CHARLS-designed mapping/listing software (CHARLS-GIS) that uses Google Earth images to list all dwelling units in all residential buildings to create sampling frames. If the sampled household had occupants older than 40, one of them was randomly selected. If the selected person was aged 45 or older, they became a respondent. If the selected person was between age 40 and 44, they were reserved as a refreshment sample. This initial sample included 17,708 respondents in 10,257 households in 450 villages/urban communities in 150 counties/districts in 28 provinces. The second wave was conducted between July 2013 and January 2014 and included a refreshment sample consisting of individuals aged between 43 and 44 at Wave 1 and their partners. The third wave was conducted between July 2015 and January 2016 and included a refreshment sample consisting of individuals aged between 41 and 42 at Wave 1 and their partners. The fourth wave was conducted between July and November 2018 and included a refreshment sample consisting of individuals who were 40-years-old at Wave 1 and their partners.

The data include any individual interviewed at least once. This includes respondents and current and former spouses regardless of age.

The Harmonized CHARLS data file incorporates the demographic background data, family information data, family transfer data, health care and insurance data, health status and

function data, household income data, household roster data, housing characteristics data, individual income data, weight data, and work, retirement and pension data. It does not include any data which is not for public release.

## 1.1. Gateway to Global Aging Data

The Health and Retirement Study (HRS) has achieved remarkable scientific success, as demonstrated by an impressive number of users, research studies, and publications using it. Its success has generated substantial interest in collecting similar data as population aging has progressed in every region of the world.

The result has been a number of surveys designed to be comparable with the HRS: the Mexican Health & Aging Survey (MHAS), the English Longitudinal Study of Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), the Korean Longitudinal Study of Aging (KLoSA), the Japanese Study on Aging Retirement (JSTAR), the Irish Longitudinal Study on Ageing (TILDA), the China Health and Retirement Longitudinal Study (CHARLS), Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa (HAALSI), the Brazilian Longitudinal Study of Ageing (ELSI), Healthy Ageing in Scotland (HAGIS), the Northern Ireland Cohort Longitudinal Study of Ageing (NICOLA), the Longitudinal Aging Study in India (LASI), and the Malaysia Ageing and Retirement Survey (MARS). The overview of this family of surveys, including their research designs, samples, and key domains can be found in Lee, Phillips, and Wilkens (2019).

As these surveys were designed with harmonization as a goal, they provide remarkable opportunities for cross-country studies. The value of comparative analyses, especially the opportunities they offer for learning lessons resulting from policies adopted elsewhere, is widely recognized. Yet there are only a limited number of empirical studies exploiting such opportunities. This is partly due to the difficulty associated with learning multiple surveys and the policies and institutions of each country.

Identifying comparable questions across surveys is the first step toward cross-country analyses. The Gateway to Global Aging Data (Gateway) helps users understand and use these large-scale population surveys on health and retirement. The Gateway includes several tools to facilitate cross-national health and retirement research. It includes a digital library of survey questions for all participating surveys. Its search engine enables users to find relevant survey questions. The Gateway also includes a concordance with information comparing measures within and across surveys over time. Using these tools, researchers can identify all questions related to particular key words or within a domain. The Gateway also includes population and sub-population estimates for key harmonized variables and presents them in graphs and tables that can be downloaded.

The Gateway can be accessed at <https://g2aging.org/>. For more information about using the Gateway visit the Help page. For more information about obtaining the Harmonized CHARLS or

downloading the Stata file used to create the Harmonized CHARLS using the Gateway see “Chapter 4. Distribution and Technical Notes.”

## 1.2. Unit of Observation

Like in the HRS, an age-eligible individual is sampled and then this individual and their spouse or partner regardless of age is interviewed, but no other household members, even if they are age-eligible. We distinguish between three units of observation: individual, couple, and household. A “couple” is a “single individual or individual with his/her spouse. A “household” includes the single individual, spouse, and all other household members.

## 1.3. Data File Structure

The Harmonized CHARLS data contain four waves of CHARLS. The data are stored in a “fat format” where each observation represents one respondent. The unit of observation is the individual. Each individual is uniquely identified by the unique identifier “ID”. Households are identified by HHID. Couples are identified by wave-specific HwCOUPID where “w” refers to the specific wave. Households are identified by the unique identifier “HOUSEHOLDID”. It is important to note that unlike the HRS, households in the CHARLS might include multiple couples and other household members.

## 1.4. Variable Naming Convention

With few exceptions, variable names in the Harmonized CHARLS Data follow a consistent pattern. The first character indicates whether the variable refers to the reference person (“R”), spouse (“S”), a financial unit couple (“H”), and the full household (“HH”).<sup>1,2</sup> The second character indicates the wave to which the variable pertains: “1”, “2”, “3”, “4”, or “A”. The “A” indicates “all,” i.e., the variable is not specific to any single wave. An example is RABDATE, the birth date of the respondent. The remaining characters describe the concept that the variable captures. For example:

S1HLTHLM

Health problem limiting work

Wave 1 (2011)

Spouse

Variable S1HLTHLM captures whether the spouse of the reference person experiences an impairment or health problem that limits the kind or amount of paid work he/she can do. The name of the variable does not indicate who provided the information. For example, the

spouse's health problem may have been reported by the spouse himself or herself, or it may have been reported by the reference person as a proxy.

In the text below, we may refer to variables such as `swHLTHLM` for example, without specifying the wave. This reference points at the group of variables `s1HLTHLM`, `s2HLTHLM`, `s3HLTHLM`, and `s4HLTHLM`.

Variable labels also follow a consistent pattern. The first characters denote the name of the variable, followed by a colon. The remainder of the label describes the concept that the variable captures. For example, the variable label of `s1HLTHLM` is:

```
S1HLTHLM:W1 Hlth problems limit work
```

It may seem duplicative to include the name of the variable and the wave in the variable label. However, statistical packages often suppresses the variable name and instead uses its label in the presentation of results.

Variable names in the Harmonized CHARLS are generally based on the variable name used in the RAND HRS (Bugliari et al, 2021) or Harmonized HRS (Beaumaster et al, 2018) for the same measure. Measures which are exactly or near-exactly comparable between the Harmonized CHARLS and RAND HRS or Harmonized HRS use the exact same name. For instance, `RABYEAR` is the variable name for the respondent birth year in both the Harmonized CHARLS, as well as the RAND HRS. If the Harmonized CHARLS measure is deemed only somewhat comparable with the RAND HRS or Harmonized HRS version of that measure, the variable name in the Harmonized CHARLS will often end in “\_C.” This variable name suffix indicates some CHARLS-specific difference with the RAND HRS or Harmonized HRS version of this measure. For example, the Harmonized CHARLS variable for an ADL summary is named `RwADLA_C`, while the RAND HRS variable is named `RwADLA`. The reason for this difference in variable name is that the CHARLS used different components for this summary variable. Other reasons for Harmonized CHARLS-specific variable names include: differences in survey questions, differences in survey routing, and whether both sets of variables use imputed values. Harmonized CHARLS-specific variable names are used to notify users that there are substantial differences between the RAND HRS or Harmonized HRS and Harmonized CHARLS measures and comparability between these measures is not straight-forward.

The Harmonized CHARLS includes some variables without Harmonized CHARLS-specific variable names even though the Harmonized CHARLS measure is significantly different from the RAND HRS or Harmonized HRS measure of the same name. In particular, wealth and income measures in the Harmonized CHARLS do not use Harmonized CHARLS-specific variable names even though wealth and income measures in the Harmonized CHARLS are expressed in Chinese Yuan, while income and wealth measures in the RAND HRS or Harmonized HRS are always expressed in nominal dollars. Users should always check the “Differences with RAND HRS/Harmonized HRS” section of each measure before comparing any Harmonized CHARLS measure to the RAND

HRS version of the same measures or any other Harmonized Dataset version of the same measure.

## 1.5. Missing Values, Nonresponse, and Imputations

Variables may contain missing values for several reasons. Stata, SAS, and SPSS offer the capability to distinguish multiple types of missing values, and we have attempted to record as much information as possible. Generally, the codes adhere to the classification in Table 1.

**Table 1. Missing Codes**

Code	Reason for missing
.	Reference person did not respond to this wave
.a	Age ineligible
.d	Don't know
.r	Refused
.s	Skipped due to routing
.k	No kids
.n	Not applicable
.u	Reference person is not married (for spouse variables)
.v	Spouse did not respond this wave (for spousal variables)
.m	Other missing

The coding scheme varies across variables. Consult the Data Codebook for details on individual variables.

## 1.6. Weighting and Accounting for Survey Design

The Harmonized CHARLS includes variables to allow users to produce weighted estimates with survey design adjusted standard errors where provided by CHARLS.

CHARLS produces seven different weights. There are two different weights at the household level: one is adjusted for non-response and the other is not adjusted for non-response. At the individual level, CHARLS produces three different weights: an individual weight without non-response adjustment, an individual weight with household non-response adjustment, and an individual weight with household and individual non-response adjustment. Finally, CHARLS provides two biomarker weights, one with household non-response adjustment and the other with household and individual non-response adjustment. Starting in Wave 2, CHARLS provides two additional longitudinal weights at both the household and individual level. Please note there is no individual biomarker weight with household non-response adjustment in the Wave 2 data.

In addition to weights, CHARLS uses a stratified (by per capita GDP of urban districts and rural counties) multistage (county/district-village/community-household) proportionate to population size (PPS) random sampling method to strictly control the quality of the samples. For more detail information about weight and survey design, please see [http://charls.pku.edu.cn/en/page/documentation/2013\\_tracking-survey](http://charls.pku.edu.cn/en/page/documentation/2013_tracking-survey) at China Health and Retirement Longitudinal Study (CHARLS) website.

## 1.7. Availability of Stress Measures

In 2015, Drs. Elissa Epel and Wendy Mendes partnered with the Gateway to Global Aging Data team to form the Stress Measurement Network, funded by the National Institute on Aging (NIA/NIH R24 AG048024). The goal of the Stress Network is to promote better theory and measurement of psychosocial stress in population-based studies. One of the specific aims is to facilitate the use of stress measures in population based studies, which was led by Drs. Tara Gruenewald, Alexandra Crosswell, and Jinkook Lee. It is hoped that identification of such measures will facilitate examination of the association of stressor conditions with cognitive-affective and physiological distress experience and poor psychological and physical health states hypothesized to follow from stressor exposure.

As a result of the work of the NIA Stress Measurement Network, the Harmonized CHARLS provides harmonized stress measures beginning in 2011, CHARLS Wave 1, and through 2018, CHARLS Wave 4. The vast majority of the stress measures were collected in the 2014 life history interview. Those who did not participate in the interview are assigned a special missing .a for the applicable variables. A small number of measures are collected in the core interview.

CHARLS queried information on discrete events that can be categorized as major life stressors or traumatic events (e.g., death of a child, serious traffic accident/injury). CHARLS asked respondents to compare their health condition and financial situation to others. CHARLS included measures of parental relationship quality.

For more specific information about all stress measures included in the CHARLS, as well as comparable stress measures in HRS sister studies, please refer to the Measures of Stress in the Health and Retirement Study (HRS) and the HRS Family of Studies (2020) user guide available from <https://g2aging.org/index.php?section=documentation>.

## 2. Wealth and Income Variables

### 2.1 Units of Observation and financial respondent

In CHARLS, financial questions are asked at three different levels:

1. Individual level: all respondents and spouses answer about their own financial status that include the value of cash, savings accounts, stocks, mutual funds, government bond, debt, all other savings, individual earnings (wage and bonus), pension income, government transfer income, other income, and capital income. Please note that CHARLS asks about individual wages, bonuses, and pensions in both the employment and income modules; in order to prevent double counting the value, we only report the higher value of the two as the corresponding income.
2. Other household members (individual-based) level: the financial respondent answers the questions and reports every household member's financial status, which includes the value of financial assets, debt, earnings income (wages and bonuses), pension income, government transfer, and other income.
3. Household level: the financial respondent reports the whole household financial status, which includes the value of primary housing, mortgage for the primary house, other real estate, vehicles, non-financial household assets, fixed capital assets, irrigable land, agricultural assets, monetary assets, agricultural income, self-employed activities income, government and/or public transfer income, and capital income.

In order to distinguish whether a value corresponds to the respondent, the spouse, the respondent and spouse as a financial unit, or to the full household, financial variable names either begin with "R", "S", "H", or "HH". If the value corresponds to individual level, the variable names begin with "R" for respondent or "S" for spouse. If the value corresponds to the couple level, then the name of the variable will start with "H". On the other hand, if the value corresponds to the full household or other household members, then the name of the variable will start with "HH".

For harmonization purposes, it is preferable to use the same unit of observation in different harmonized data sets. But since the HRS neither has information on wealth and income of household members outside the couple nor does the HRS have individual-level asset information, measures are provided at the individual level, such as earnings, pension, etc., at the couple level, and at the household level (e.g. asset income and wealth) where possible. Thus, in constructing our couple-level variables, we ignore income and wealth from household members outside the couple. These couple-level variables can be compared to the RAND HRS income and wealth household measures.

For more information, please visit CHARLS official website <http://charls.pku.edu.cn/en>.



## **2.2. Currency**

All CHARLS financial variables are expressed in current yuan. CHARLS asset questions are asked about current asset values.

For cross-country comparisons of financial variables, these values have to be converted to a single monetary unit. The Harmonized CHARLS dataset includes exchange rates for this purpose. It is the users' responsibility to check what period a variable refers to and accordingly use the appropriate exchange rate.

## 3. Structure of Codebook

The Data Codebook contains the codebook documenting all variables in the Harmonized CHARLS Data. This section explains how to interpret the codebook entries. The figure below shows a typical codebook page; the numbers in circles correspond to comments below.

Self-Report of Health ←			
Wave	Variable	Label	Type
2	R1SHLT	r1shlt:w1 r self-report of health	Categ
2	R2SHLT	r2shlt:w2 r self-report of health	Categ
3	R3SHLT	r3shlt:w3 r self-report of health	Categ
1	S1SHLT	s1shlt:w1 s self-report of health	Categ
2	S2SHLT	s2shlt:w2 s self-report of health	Categ
3	S3SHLT	s3shlt:w3 s self-report of health	Categ
1	R1SHLTA	r1shlta:w1 r Self-report of health alt	Categ
2	R2SHLTA	r2shlta:w2 r Self-report of health alt	Categ
3	R3SHLTA	r3shlta:w3 r Self-report of health alt	Categ
4	R4SHLTA	r4shlta:w4 r Self-report of health alt	Categ
1	S1SHLTA	s1shlta:w1 s Self-report of health alt	Categ
2	S2SHLTA	s2shlta:w2 s Self-report of health alt	Categ
3	S3SHLTA	s3shlta:w3 s Self-report of health alt	Categ
4	S4SHLTA	s4shlta:w4 s Self-report of health alt	Categ

### 5 → Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SHLT	12613	3.86	0.92	1.00	5.00
R2SHLT	17591	3.83	0.93	1.00	5.00
R3SHLT	19701	3.80	0.95	1.00	5.00
S1SHLT	10725	3.85	0.92	1.00	5.00
S2SHLT	14850	3.82	0.92	1.00	5.00
S3SHLT	16749	3.77	0.95	1.00	5.00
R1SHLTA	17561	3.03	0.92	1.00	5.00
R2SHLTA	17603	2.97	0.96	1.00	5.00
R3SHLTA	19698	2.89	0.99	1.00	5.00
R4SHLTA	18278	2.95	1.03	1.00	5.00
S1SHLTA	14846	3.01	0.92	1.00	5.00
S2SHLTA	14844	2.95	0.95	1.00	5.00
S3SHLTA	16751	2.87	0.98	1.00	5.00
S4SHLTA	15266	2.92	1.02	1.00	5.00

### 6 → Categorical Variable Codes

Value	R1SHLT	R2SHLT	R3SHLT
.d:dk	8		
.m:missing	5086	1021	1396
.r:refuse	1		
1.Excellent	106	241	279
2.Very good	1146	1774	2374
3.Good	2274	2512	2454

4.Fair	5918	9232	10537	
5.Poor	3169	3832	4057	
Value-----	S1SHLT	S2SHLT	S3SHLT	
.d:dk	7			
.m:missing	4178	730	975	
.u:unmar	2260	2401	2719	
.v:sp nr	538	622	650	
1.Excellent	91	198	243	
2.Very good	980	1520	2095	
3.Good	1962	2128	2099	
4.Fair	5072	7858	9064	
5.Poor	2620	3146	3248	
Value-----	R1SHLTA	R2SHLTA	R3SHLTA	R4SHLTA
.d:dk	12			
.m:missing	134	1009	1399	1538
.r:refuse	1			
1.Very good	1099	1626	2439	2229
2.Good	3030	2530	2569	2348
3.Fair	8551	9126	10305	8938
4.Poor	4035	3399	3442	3687
5.Very Poor	846	922	943	1076
Value-----	S1SHLTA	S2SHLTA	S3SHLTA	S4SHLTA
.d:dk	10			
.m:missing	53	736	973	1096
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Very good	959	1400	2143	1928
2.Good	2590	2144	2179	1966
3.Fair	7281	7809	8896	7589
4.Poor	3326	2771	2800	2947
5.Very Poor	690	720	733	836

## 7

## How Constructed

CHARLS has two scales for respondents to self-report their current health condition. One of the scales ranges from 1 for Excellent to 5 for Poor. The other scale ranges from 1 for Very Good to 5 for Very Poor.

At Waves 1 to 3, respondents were asked their health status twice, once at the beginning of the health module and again at the end of the health module. At the beginning of the health module, respondents are randomly assigned into two groups; the first group of respondents is asked the first scale at the beginning and second scale at the end. The second group of respondents is asked the second scale at the beginning and the first scale at the end. Starting at Wave 4, respondents were only asked to self-report their current health condition at the beginning of the health module. Respondents are asked the second scale.

At Waves 1 to 3, RWSHLT is the respondent's self-reported general health status using the scale ranging from 1 for Excellent to 5 for Poor. When respondents don't know, are missing, or refuse to answer, RWSHLT is assigned special missing values (.d), (.m), or (.r), respectively. RWSHLT is set to plain missing (.) for respondents who did not respond to this wave.

SwSHLT is the respondent's spouse's self-reported general health status taken directly from the spouse's RWSHLT. In addition to the special missing codes used in RWSHLT, SwSHLT employs special missing (.u) if the respondent did not report being coupled in the current wave, and the special missing value (.v) if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWSHLTA is the respondent's self-reported general health status ranging from 1 for Very Good to 5 for Very Poor. When respondents don't know, are missing, or refuse to answer, RWSHLTA is assigned special missing values (.d), (.m), or (.r), respectively. RWSHLTA is set to plain missing (.) for respondents who did not respond to this wave.

SWSHLTA is the respondent's spouse's self-reported general health status taken directly from the spouse's RWSHLTA. In addition to the special missing codes used in RWSHLTA, SWSHLTA employs special missing (.u) if the respondent did not report being coupled in the current wave, and the special missing value (.v) if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### 8 → Cross-Wave Differences in CHARLS

Due to routing error that was happened in the wave 1 questionnaire, some respondents answered the second scale of self-reported general health status twice and did not answer the first scale of self-reported general health status. In the case that respondents have two reports of the second scale of self-reported health status only the first report at the beginning of the health module is used in RWSHLTA.

Starting at Wave 4, respondents were only asked to self-report their current health condition in the beginning of the health module. Respondents are asked the second scale.

### 9 → Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, CHARLS respondents were assigned to either the beginning or end of the health module to answer RWSHLT. RWSHLTF indicates this timing.

Unlike the HRS, CHARLS also employs a second scale of self-reported general health status. RWSHLTA is the respondent's self-reported general health status using a scale ranging from Very Good to Very Poor.

### 10 → CHARLS Variables Used

Wave 1:	
DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA079	Self Comment of Your Health By Comparing With Others
DA080	Self Comment of Your Health
Wave 2:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA079	Health Status(Self)
DA080	Self Comment of Your Health
Wave 3:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA079	Health Status(Self)
DA080	Self Comment of Your Health
Wave 4:	
DA002	Self-Reported Health Status

**1** *Title:* The variables are documented in groups according to the concept that they measure. For example, there are six variables related to self-reported health, corresponding to three waves and respondent/spouse, and eight variables related to self-reported health using an alternate scale, corresponding to four waves and respondent/spouse. The title is often followed by a short description of the concept that is captured.

**2** *Variable Names:* This entry shows the waves of variables in the group. Not all waves are present for all variables. For example, R1SHLT is available for the first three waves, but R4SHLT wasn't created for the fourth wave because the US version of self-reported health wasn't asked in CHARLS Wave 4.

- 3 *Variable Labels*: This entry shows the Stata variable labels. As discussed above, the labels typically include the name of the variable, the file on which it is present, and a description of its contents.
- 4 *Variable Type*: This entry indicates the type of variable. It may be continuous (Cont), categorical (Categ), or character (Char).
- 5 *Descriptive Statistics*: This entry shows descriptive statistics on each variable. They include the number of nonmissing values, the mean, standard deviation, minimum value, and maximum value.
- 6 *Categorical Value Codes*: This entry shows the value label codes. These are only relevant for categorical variables. The first character(s) of the value labels indicate the value to which each label has been assigned. For example, value “1” for R1SHLT is mapped into “1. Excellent” (not just “Excellent”). The entry also indicates which labels are assigned to which variables, and shows frequency tabulations for all categorical variables.
- 7 *How Constructed*: This entry provides background on the manner in which variables were constructed.
- 8 *Cross-Wave Differences in CHARLS*: This entry briefly describes differences in question wording or contents between interview waves.
- 9 *Differences with the RAND HRS/Harmonized HRS*: This entry describes any differences between the RAND HRS or Harmonized HRS version of the variable and the Harmonized CHARLS version of the variable. It is imperative these differences are understood when using harmonized measures.
- 10 *CHARLS Variables Used*: This entry provides the names and labels of raw CHARLS variables that were used to construct the new variables.

## 4. Distribution and Technical Notes

The Harmonized CHARLS Data file is distributed by the CHARLS team. The Harmonized CHARLS Data file is made available free of charge to users who register China Health and Retirement Longitudinal Study website <http://charls.pku.edu.cn/en> and agree to the standard conditions. For more information on obtaining access to the CHARLS data visit: <http://charls.pku.edu.cn/en> This is version **D** of the Harmonized CHARLS Data.

A copy of this Harmonized CHARLS Codebook can be obtained on the Gateway to Global Aging Data ([www.g2aging.org](http://www.g2aging.org)) under the Download tabs.

## 5. Data Codebook

## **Section A: Demographics and Identifiers**



<b>Identifiers</b>
--------------------

Wave	Variable	Label	Type
1	ID	ID:person identifier/12-char	Char
1	HOUSEHOLDID	householdID:hhold id /10-char	Char
1	HHID	hhid:HHold ID /10-num	Cont
1	PNC	pnc:person id /2-char	Char
1	PN	pn:person id-num	Cont
1	ID_W1	ID_w1:Wave 1 person identifier/11-char	Char
1	HOUSEHOLDID_W1	householdID_w1:Wave 1 hhold identifier/9-char	Char
1	COMMUNITYID	communityID:community ID/7-char	Char

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HHID	25586	658330425.76	921189254.62	10104101.00	3477633190.00
PN	25586	1.47	0.53	1.00	5.00

### How Constructed:

ID is the 12-digit character identifier that uniquely identifies each respondent starting in Wave 2. HouseholdID is a 10-digit character identifier that that uniquely identifies each household starting in Wave 2.

ID consists of two separate parts, including:

(1) HouseholdID, which is a 10-digit character household identifier to indicate the household each individual belonged to when entering the panel. HHID is the numeric version of the household identifier.

(2) PNC, which is a 2-digit character person identifier used by CHARLS to indicate each participant within the household. PN is the numeric version of the person identifier.

Please note that ID and HouseholdID are specific to the CHARLS Wave 2 and forward. Starting in wave 2, CHARLS revised the ID and HouseholdID formats to account for splitting of households due to divorce. Wave 2 and following waves employ this 12-digit character individual identifier and this 10-digit character household identifier.

Wave 1 identifiers are ID\_w1 and HouseholdID\_w1. ID\_w1 is an 11-digit character identifier for each Wave 1 respondent and HouseholdID\_w1 is a 9-digit character identifier for each Wave 1 household. To merge with the original Wave 1 files requires first renaming ID\_w1 to ID and HouseholdID\_w1 to HouseholdID.

CommunityID is a 7-digit character identifier that identifies which community each household belonged to.

### Cross Wave Differences in CHARLS

Starting in wave 2, CHARLS revised the householdID into a 10-digit number and the 10th digit is an indicator for splitting household due to divorce. Also starting in wave 2, CHARLS revised the individual identifier ID to a 12-digit number, where the last two digits identify individuals within households, which is comparable to those in baseline individual ID.

**Differences with the RAND HRS/Harmonized HRS**

CHARLS revised the wave 1 ID and householdID so users need to use ID\_w1 and householdID\_w1 to link wave 1 original data.

**CHARLS Variables Used:**

## Wave 1:

COMMUNITYID	Community ID
HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 2:

COMMUNITYID	Community ID
HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 3:

COMMUNITYID	Community ID
HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 4:

COMMUNITYID	Community ID
HOUSEHOLDID	Household ID
ID	Individual ID

**Spouse Identifier**

Wave	Variable	Label	Type
1	S1ID	s1id:w1 spouse ID (char)	Char
2	S2ID	s2id:w2 spouse ID (char)	Char
3	S3ID	s3id:w3 spouse ID (char)	Char
4	S4ID	s4id:w4 spouse ID (char)	Char
1	S1PN	s1pn:w1 spouse person ID(num)	Cont
2	S2PN	s2pn:w2 spouse person ID(num)	Cont
3	S3PN	s3pn:w3 spouse person ID(num)	Cont
4	S4PN	s4pn:w4 spouse person ID(num)	Cont
1	RASPID1	raspid1:ID of 1st spouse	Char
1	RASPID2	raspid2:ID of 2nd spouse	Char

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
S1PN	17708	1.26	0.71	0.00	2.00
S2PN	18612	1.27	0.73	0.00	4.00
S3PN	21097	1.27	0.73	0.00	5.00
S4PN	19816	1.26	0.76	0.00	5.00

**How Constructed:**

SwID is the character identifier that identifies the spouse uniquely. SwID is derived from the ID of persons with a matching couple id. SwID is set to 0 if the respondent is not married or partnered, or if the respondent is married but there is no other respondent in the data.

SwPN indicates the spouse person identifier and is numeric. SwPN is derived from the PN of persons with a matching couple id. Like SwID, SwPN is set to 0 if the respondent is not married or partnered, or if the respondent is married but there is no other respondent in the data.

RASPID1 indicates the first unique SwID reported for each respondent across waves. If the respondent is not married or partnered, or if the respondent is married but there is no other respondent in the data, RASPID1 is left missing. RASPID2 indicates the second unique SwID reported for each respondent across waves. The new spouse's ID will be recorded in RASPID2 if the current waves spouse does not match the previous wave the respondent participated in. If the respondent does not show a change in corresponding SwID between waves, i.e. the respondent does not remarry or re-partner, RASPID2 is left missing. This pattern will continue with each unique SwID reported for each respondent.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:

HOUSEHOLDID Household ID  
ID Individual ID

Wave 2:

HOUSEHOLDID Household ID  
ID Individual ID

Wave 3:

HOUSEHOLDID Household ID  
ID Individual ID

Wave 4:

---

HOUSEHOLDID	Household ID
ID	Individual ID

<b>Couple Identifier</b>
--------------------------

Wave	Variable	Label	Type
1	H1COUPID	h1coupid:w1 couple ID/num	Cont
2	H2COUPID	h2coupid:w2 couple ID/num	Cont
3	H3COUPID	h3coupid:w3 couple ID/num	Cont
4	H4COUPID	h4coupid:w4 couple ID/num	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1COUPID	17708	5160.14	2968.51	1.00	10253.00
H2COUPID	18612	5450.68	3122.52	1.00	10822.00
H3COUPID	21097	6147.04	3535.53	1.00	12235.00
H4COUPID	19816	5844.31	3359.98	1.00	11635.00

**How Constructed:**

HwCOUPID is the couple identifier and uniquely identifies a couple in a given wave. HwCOUPID is the same for each person in the couple household, allowing researchers to match spouses who are both in the data.

A respondent whose spouse or partner does not appear in the survey data or does not have a spouse or partner (unmarried, divorced, widowed, separated) are also assigned a value for HwCOUPID, such that HwCOUPID is not missing for any respondent in a given wave. HwCOUPID is set to plain missing (.) for respondents who did not respond to the current wave.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 2:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 3:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 4:	
HOUSEHOLDID	Household ID
ID	Individual ID

<b>Wave Status: Response Indicator</b>
--

Wave Variable	Label	Type
1 INW1	inw1:In wave 1	Categ
2 INW2	inw2:In wave 2	Categ
3 INW3	inw3:In wave 3	Categ
4 INW4	inw4:In wave 4	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
INW1	25586	0.69	0.46	0.00	1.00
INW2	25586	0.73	0.45	0.00	1.00
INW3	25586	0.82	0.38	0.00	1.00
INW4	25586	0.77	0.42	0.00	1.00

**Categorical Variable Codes**

Value-----	INW1	INW2	INW3	INW4
0.no	7878	6974	4489	5770
1.yes	17708	18612	21097	19816

**How Constructed:**

INWw indicates whether an individual in the CHARLS sample responded to a particular wave. Respondents identified as having either a full or partial interview either in person or through a proxy are considered to have responded and are coded as 1.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 2:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 3:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 4:	
HOUSEHOLDID	Household ID
ID	Individual ID

**Wave Status: Interview Status**

Wave	Variable	Label	Type
1	R1IWSTAT	r1iwstat:w1 r interview status	Categ
2	R2IWSTAT	r2iwstat:w2 r interview status	Categ
3	R3IWSTAT	r3iwstat:w3 r interview status	Categ
4	R4IWSTAT	r4iwstat:w4 r interview status	Categ
1	S1IWSTAT	s1iwstat:w1 s interview status	Categ
2	S2IWSTAT	s2iwstat:w2 s interview status	Categ
3	S3IWSTAT	s3iwstat:w3 s interview status	Categ
4	S4IWSTAT	s4iwstat:w4 s interview status	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IWSTAT	25586	0.69	0.46	0.00	1.00
R2IWSTAT	25586	1.30	1.69	0.00	9.00
R3IWSTAT	25586	1.83	2.21	0.00	9.00
R4IWSTAT	25586	2.52	2.94	1.00	9.00
S1IWSTAT	14910	1.00	0.00	1.00	1.00
S2IWSTAT	15580	1.00	0.00	1.00	1.00
S3IWSTAT	17724	1.00	0.00	1.00	1.00
S4IWSTAT	16362	1.00	0.00	1.00	1.00

**Categorical Variable Codes**

Value	R1IWSTAT	R2IWSTAT	R3IWSTAT	R4IWSTAT
0.inap.	7878	4452	627	
1.resp, alive	17708	18612	21097	19816
4.nr, alive		1262	1055	
5.nr, died this wv		441	633	992
6.nr, died prev wv			441	1074
9.nr, dk if alive or died		819	1733	3704

  

Value	S1IWSTAT	S2IWSTAT	S3IWSTAT	S4IWSTAT
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.resp, alive	14910	15580	17724	16362

**How Constructed:**

RwIWSTAT indicates the response and mortality status of the respondent at each wave. Respondents are identified by code 1, non-Respondents by codes 0, 4-6 and 9. If the Respondent has not entered the sample yet, RwIWSTAT is set to 0. Non-response code 4 indicates that the respondent is alive so far as we know but did not respond. Non-response code 5 indicates that the respondent died between the last interview and the current one. Non-response code 6 indicates that the respondent had died before the previous wave. Non-response code 9 means that it is not possible to determine whether the non-responding individual is alive or dead. There are respondents for whom contradictory information is provided between waves, for instance there are 5 individuals who are recorded as having died at the Life History interview but who are then interviewed at Wave 3. RwIWSTAT does not attempt to determine which wave's information is correct and are determined by the information available at each specific wave.

SwIWSTAT gives the response and mortality status of the current wave's spouse. SwIWSTAT is taken from the spouse's RwiWSTAT. Note that when a spouse dies, the spouse interview status for the surviving spouse will have a missing code of (.u) for unmarried if the widow does not remarry. A (.v) missing code indicates that there is no information in the master file on why the spouse did not respond. Note also that SwIWSTAT is set to plain missing (.) if an individual did not respond at a particular interview, including if they died.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

## Wave 1:

HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 2:

HOUSEHOLDID	Household ID
ID	Individual ID
INDV_L_DIED	Whether Respondent Died in Longitudinal Sample

## Wave 3:

DIED	Whether Individual Died
HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 4:

DIED	Whether Individual Died
HOUSEHOLDID	Household ID
ID	Individual ID



<b>Sample Cohort</b>
----------------------

Wave	Variable	Label	Type
1	HACOHORT_C	hacohort_c:Hhold sample cohort	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HACOHORT_C	25586	1.48	0.86	1.00	5.00

**Categorical Variable Codes**

Value-----	HACOHORT_C
Original sample	18308
Wave 2 refreshment	3202
Life History refreshment	3251
Wave 3 refreshment	637
Wave 4 refreshment	188

**How Constructed:**

RAHCOHORT\_C identifies the cohort in which the household was originally sampled. A code of 1 indicates the household was part of the original sample in 2011. A code of 2 indicates that the household was part of the wave 2 refreshment sample in 2013. A code of 3 indicates that the household was part of the Life History refreshment sample in 2014. A code of 4 indicates that the household was part of the wave 3 refreshment sample in 2015. A code of 5 indicates that the household was part of the wave 4 refreshment sample in 2018.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

The sampling framework of the HRS is different from the sampling framework of the CHARLS. The HRS used a national probability sample of U.S. households which contained at least one age-eligible household member. Different sets of age-eligibility were used for different cohorts. HRS households can consist of a single unmarried age-eligible person, a married couple in which both persons are age-eligible, or a married couple in which only one spouse is age-eligible. RAND HRS's hacohort variable is a household level variable representing the importance of the household age-eligibility for each cohort.

The CHARLS used administrative villages in rural areas and neighborhoods in urban areas, which comprise one or more former resident committees, as primary sampling units (PSUs). After each PSU sampling frame was created, CHARLS used CHARLS-GIS software to randomly sample households within each PSU. All age eligible sample households in each PSU were interviewed who were found and willing to participate in the survey. The sample is representative of people 45 and over, living in households; institutionalized mid-aged and elderly are not sampled, but Wave 1 respondents who later enter into an institution are followed. If the chosen person is 45 or older, then he/she becomes the main respondent and his or her spouse is also interviewed. If the chosen person is between ages 40 and 44 he/she is reserved as a refresher sample for future rounds of survey. If an age-eligible person was too frail to answer questions, a proxy respondent was identified to help him/her to answer questions. Households without members 45 or older were not interviewed.

Sampling cohorts differ for each study, this variable only categorizes sampling cohort by study and should not be considered to harmonize any information

**CHARLS Variables Used:**

Wave 1:		
HOUSEHOLDID	Household ID	
ID	Individual ID	

## Wave 2:

HOUSEHOLDID	Household ID
ID	Individual ID

## Life History:

HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 3:

HOUSEHOLDID	Household ID
ID	Individual ID

## Wave 4:

HOUSEHOLDID	Household ID
ID	Individual ID

<b>Household Analysis Weight</b>
----------------------------------

Wave	Variable	Label	Type
1	R1WTHH	r1wthh:w1 household weight without non-response adjustment	Cont
2	R2WTHH	r2wthh:w2 household weight without non-response adjustment	Cont
3	R3WTHH	r3wthh:w3 household weight without non-response adjustment	Cont
4	R4WTHH	r4wthh:w4 household weight without non-response adjustment	Cont
1	R1WTHHA	r1wthha:w1 household weight with non-response adjustment	Cont
2	R2WTHHA	r2wthha:w2 household weight with non-response adjustment	Cont
3	R3WTHHA	r3wthha:w3 household weight with non-response adjustment	Cont
4	R4WTHHA	r4wthha:w4 household weight with non-response adjustment	Cont
2	R2WTHHL	r2wthhl:w2 household longitudinal weight	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WTHH	17708	22768.66	18463.74	7772.42	500653.19
R2WTHH	18262	21530.79	19605.74	5882.45	591967.31
R3WTHH	20281	21297.71	20032.04	3768.13	681674.75
R4WTHH	17970	25428.54	24149.17	6466.32	1136124.50
R1WTHHA	17708	29108.44	35178.59	9374.16	1001306.38
R2WTHHA	18262	28371.13	37626.88	6951.99	992518.31
R3WTHHA	20281	26576.96	32916.61	4469.18	1136124.50
R4WTHHA	17970	28787.69	40618.57	6774.24	2434552.50
R2WTHHL	15589	32857.46	43897.80	6325.83	1502244.75

### How Constructed:

The household weights are taken directly from the CHARLS weights file.

RwWTHH is the household level cross-sectional weight without the non-response adjustment. RwWTHHA is the household level cross-sectional weight with the non-response adjustment.

R2WTHHL is the household level longitudinal weight which can be used for longitudinal analysis of Wave 1 and Wave 2.

RwWTHH, RwWTHHA, and RwWTHHL are set to plain missing (.) if the respondent did not respond at a particular interview.

### Cross Wave Differences in CHARLS

Starting in wave 3, only household cross-sectional weights are provided.

### Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not provide household level longitudinal weights and comparable cross-sectional weights in the RAND have already been adjusted for non-response.

### CHARLS Variables Used:

Wave 1:

HH\_WEIGHT household weight without non-response adjustment  
 HH\_WEIGHT\_AD1 household weight with non-response adjustment

Wave 2:

HH\_L\_WEIGHT Household Longitudinal Weight  
 HH\_WEIGHT Cross-section Household Weight without Nonresponse Adjustment  
 HH\_WEIGHT\_AD1 Cross-section Household Weight with Nonresponse Adjustment

Wave 3:

HH\_WEIGHT Household Weight without Response Adjustment

---

HH_WEIGHT_AD1	Household Weight with Response Adjustment
Wave 4:	
HH_WEIGHT	Household Base Weight
HH_WEIGHT_AD1	Household Weight with Household Response Adjustment

<b>Person-Level Analysis Weight</b>
-------------------------------------

Wave	Variable	Label	Type
1	R1WTRESP	r1wtresp:w1 individual weight without non-response adjustmen	Cont
2	R2WTRESP	r2wtresp:w2 individual weight without non-response adjustmen	Cont
3	R3WTRESP	r3wtresp:w3 individual weight without non-response adjustmen	Cont
4	R4WTRESP	r4wtresp:w4 individual weight without non-response adjustmen	Cont
1	S1WTRESP	s1wtresp:w1 s weight without non-response adjustment	Cont
2	S2WTRESP	s2wtresp:w2 s weight without non-response adjustment	Cont
3	S3WTRESP	s3wtresp:w3 s weight without non-response adjustment	Cont
4	S4WTRESP	s4wtresp:w4 s weight without non-response adjustment	Cont
1	R1WTRESPA	r1wtrespa:w1 individual weight with HH non-response adjustme	Cont
2	R2WTRESPA	r2wtrespa:w2 individual weight with HH non-response adjustme	Cont
3	R3WTRESPA	r3wtrespa:w3 individual weight with HH non-response adjustme	Cont
1	S1WTRESPA	s1wtrespa:w1 s weight with HH non-response adjustment	Cont
2	S2WTRESPA	s2wtrespa:w2 s weight with HH non-response adjustment	Cont
3	S3WTRESPA	s3wtrespa:w3 s weight with HH non-response adjustment	Cont
1	R1WTRESPB	r1wtrespb:w1 individual weight with HH/ind non-response adju	Cont
2	R2WTRESPB	r2wtrespb:w2 individual weight with HH/ind non-response adju	Cont
3	R3WTRESPB	r3wtrespb:w3 individual weight with HH/Ind non-response adju	Cont
4	R4WTRESPB	r4wtrespb:w4 individual weight with HH/ind non-response adju	Cont
1	S1WTRESPB	s1wtrespb:w1 s weight with HH/ind non-response adjustment	Cont
2	S2WTRESPB	s2wtrespb:w2 s weight with HH/ind non-response adjustment	Cont
3	S3WTRESPB	s3wtrespb:w3 s weight with HH/ind non-response adjustment	Cont
4	S4WTRESPB	s4wtrespb:w4 s weight with HH/ind non-response adjustment	Cont
2	R2WTRESPL	r2wtrespl:w2 individual longitudinal weight	Cont
2	S2WTRESPL	s2wtrespl:w2 individual longitudinal weight	Cont
1	R1WTRESPBIOA	r1wtrespbioa:w1 individual biomarker weight with HH non-resp	Cont
1	S1WTRESPBIOA	s1wtrespbioa:w1 individual biomarker weight with HH non-resp	Cont
1	R1WTRESPBIOB	r1wtrespbiob:w1 individual biomarker weight with HH/ind non-	Cont
2	R2WTRESPBIOB	r2wtrespbiob:w2 individual biomarker weight with HH/ind non-	Cont
3	R3WTRESPBIOB	r3wtrespbiob:w3 individual biomarker weight with HH/Ind non-	Cont
1	S1WTRESPBIOB	s1wtrespbiob:w1 individual biomarker weight with HH/ind non-	Cont
2	S2WTRESPBIOB	s2wtrespbiob:w2 individual biomarker weight with HH/ind non-	Cont
3	S3WTRESPBIOB	s3wtrespbiob:w3 individual biomarker weight with HH/ind non-	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WTRESP	17708	24578.33	20129.13	7772.42	500653.19
R2WTRESP	18262	23153.32	20853.03	5882.45	591967.31
R3WTRESP	20281	22683.59	21174.38	3768.13	681674.75
R4WTRESP	17970	27653.70	26800.91	6583.96	1178061.50
S1WTRESP	14910	23803.52	19065.01	7772.42	500653.19
S2WTRESP	15290	22636.55	20411.40	7356.49	591967.31
S3WTRESP	16968	22365.45	21258.56	6207.93	681674.75
S4WTRESP	14892	27401.85	25724.90	7184.62	602392.38
R1WTRESPA	17708	31362.23	36830.06	9374.16	1001306.38
R2WTRESPA	18262	30433.78	38919.69	6951.99	992518.31
R3WTRESPA	20281	28263.98	34314.12	4469.18	1136124.50
S1WTRESPA	14910	30124.92	36035.92	9374.16	1001306.38

S2WTRESPA	15290	29660.15	38667.04	8371.08	992518.31
S3WTRESPA	16968	27803.86	34404.07	6698.03	1136124.50
R1WTRESPB	17708	31753.57	37600.96	9378.35	1032705.25
R2WTRESPB	18262	31029.89	39905.83	7080.48	1029979.63
R3WTRESPB	20281	28801.27	35309.84	4624.06	1186327.25
R4WTRESPB	17970	32437.31	33738.78	7370.20	1521872.13
S1WTRESPB	14910	30545.32	36891.89	9426.16	1032705.25
S2WTRESPB	15290	30233.60	39632.73	8447.57	1029979.63
S3WTRESPB	16968	28332.12	35408.03	6757.37	1186327.25
S4WTRESPB	14892	31892.61	31981.43	8233.47	761139.75
R2WTRESPL	15195	35355.25	45269.22	6353.26	1775930.13
S2WTRESPL	12736	34568.39	46374.94	9872.74	1775930.13
R1WTRESPBIOA	13974	38484.63	62420.09	10358.35	3332315.50
S1WTRESPBIOA	11883	37217.56	61090.19	10358.35	3332315.50
R1WTRESPBIOB	13974	38944.77	63790.20	10408.85	3378585.75
R2WTRESPBIOB	12903	42893.42	83135.10	7655.20	3989588.75
R3WTRESPBIOB	15823	36173.41	48068.33	7623.18	1483865.63
S1WTRESPBIOB	11883	37710.83	62289.52	10428.39	3378585.75
S2WTRESPBIOB	10920	42126.40	86140.95	9303.67	3989588.75
S3WTRESPBIOB	13436	36172.54	50303.31	8493.44	1483865.63

### How Constructed:

The individual level weights are taken directly from the CHARLS weights file. Rwwtresp is the individual cross-sectional analysis weight without the non-response adjustment. Rwwtrespa is the individual cross-sectional weight with the household non-response adjustment. Rwwtrespb is the individual cross-sectional weight with the household and individual non-response adjustment.

R2wtrespl is the individual longitudinal weight and can be used for longitudinal analysis of Wave 1 and Wave 2.

Rwwtrespbioa is the biomarker weight with household non-response adjustment. Rwwtrespbiob is the biomarker weight with household and individual non-response adjustment.

Rwwtresp, Rwwtrespa, Rwwtrespb, Rwwtresppl, Rwwtrespbioa, and Rwwtrespbiob are set to plain missing (.) if the respondent did not respond at a particular interview.

Swwtresp, Swwtrespa, Swwtrespb, Swwtresppl, Swwtrespbioa, and Swwtrespbiob indicate the current wave's spouse's weights. They are taken from the spouse's values to Rwwtresp, Rwwtrespa, Rwwtrespb, Rwwtresppl, Rwwtrespbioa, and Rwwtrespbiob, respectively. CHARLS also asked spouse's birth month and birth day. If the respondent is not designated as coupled in the current wave, the respondent is assumed to be single and thus assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married, special missing value (.v) is assigned. Plain missing (.) is assigned if the respondent did not respond in a particular wave.

### Cross Wave Differences in CHARLS

Starting in wave 3, only individual cross-sectional weights are provided.

Rwwtrespbioa, the biomarker weight with household non-response adjustment, is not available in wave 2 and forward.

### Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not provide individual level longitudinal weights, biomarker weights, or weights without household and individual non-response adjustment.

### CHARLS Variables Used:

## Wave 1:

BIO_WEIGHT1	biomarker weight with household non-response adjustment
BIO_WEIGHT2	biomarker weight with household and individual non-response adj
IND_WEIGHT	individual weight without non-response adjustment
IND_WEIGHT_AD1	individual weight with household non-response adjustment
IND_WEIGHT_AD2	individual weight with household and individual non-response ad

## Wave 2:

BIOMARKER_WEIGHT	Cross-section Biomarker Weight with Household and Individual No
INDV_L_WEIGHT	Individual Longitudinal Weight
INDV_WEIGHT	Cross-section Individual Weight without Nonresponse Adjustment
INDV_WEIGHT_AD1	Cross-section Individual Weight with Household Nonresponse Adju
INDV_WEIGHT_AD2	Cross-section Individual Weight with Household and Individual N

## Wave 3:

BIOMARKER_WEIGHT	Biomarker Weight with Household and Individual Response Adjustm
INDV_WEIGHT	Individual Weight without Response Adjustment
INDV_WEIGHT_AD1	Individual Weight with Household Response Adjustment
INDV_WEIGHT_AD2	Individual Weight with Household and Individual Response Adjust

## Wave 4:

INDV_WEIGHT	Individual Base Weight
INDV_WEIGHT_AD2	Individual Weight with Household and Individual Response Adjust

<b>Number of Household Respondents</b>
--

Wave	Variable	Label	Type
1	H1HHRESP	h1hhresp:w1 # respondents in household	Cont
2	H2HHRESP	h2hhresp:w2 # respondents in household	Cont
3	H3HHRESP	h3hhresp:w3 # respondents in household	Cont
4	H4HHRESP	h4hhresp:w4 # respondents in household	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1HHRESP	17708	1.84	0.36	1.00	2.00
H2HHRESP	18612	1.84	0.37	1.00	2.00
H3HHRESP	21097	1.84	0.37	1.00	2.00
H4HHRESP	19816	1.83	0.38	1.00	2.00

**How Constructed:**

HwHHRESP is the number of individuals in the house who responded at each wave. This variable counts the number of respondents sharing the same household ID. HwHHRESP is set to plain missing (.) for respondents who did not respond to the current wave.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 2:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 3:	
HOUSEHOLDID	Household ID
ID	Individual ID
Wave 4:	
HOUSEHOLDID	Household ID
ID	Individual ID



<b>Whether Coupled Household</b>
----------------------------------

Wave	Variable	Label	Type
1	H1CPL	h1cpl:w1 whether coupled	Categ
2	H2CPL	h2cpl:w2 whether coupled	Categ
3	H3CPL	h3cpl:w3 whether coupled	Categ
4	H4CPL	h4cpl:w4 whether coupled	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CPL	17708	0.84	0.36	0.00	1.00
H2CPL	18612	0.84	0.37	0.00	1.00
H3CPL	21097	0.84	0.37	0.00	1.00
H4CPL	19816	0.82	0.38	0.00	1.00

**Categorical Variable Codes**

Value-----	H1CPL	H2CPL	H3CPL	H4CPL
0.not coupled	2798	3037	3405	3499
1.coupled	14910	15575	17692	16317

**How Constructed:**

HwCPL indicates whether a household is treated as a couple household. Households in CHARLS can consist of a single respondent or a couple. HwCPL is set to one if there is a couple in the household, i.e., two respondents are married or partnered. Otherwise, HwCPL is set to zero if there is a single respondent in the household. HwCPL is set to plain missing (.) for respondents who did not respond to the current wave.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:	HOUSEHOLDID	Household ID
Wave 2:	HOUSEHOLDID	Household ID
Wave 3:	HOUSEHOLDID	Household ID
Wave 4:	HOUSEHOLDID	Household ID

**Family respondent**

Wave	Variable	Label	Type
1	R1FAMR	r1famr:whether family resp	Categ
2	R2FAMR	r2famr:whether family resp	Categ
3	R3FAMR	r3famr:whether family resp	Categ
4	R4FAMR	r4famr:whether family resp	Categ
1	S1FAMR	s1famr:whether family resp	Categ
2	S2FAMR	s2famr:whether family resp	Categ
3	S3FAMR	s3famr:whether family resp	Categ
4	S4FAMR	s4famr:whether family resp	Categ
1	H1ANYFAM	h1anyfam:whether any famr in HH	Categ
2	H2ANYFAM	h2anyfam:whether any famr in HH	Categ
3	H3ANYFAM	h3anyfam:whether any Famr in HH	Categ
4	H4ANYFAM	h4anyfam:whether any famr in HH	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1FAMR	17708	0.58	0.49	0.00	1.00
R2FAMR	18612	0.58	0.49	0.00	1.00
R3FAMR	21097	0.58	0.49	0.00	1.00
R4FAMR	19816	0.59	0.49	0.00	1.00
S1FAMR	14910	0.50	0.50	0.00	1.00
S2FAMR	15580	0.50	0.50	0.00	1.00
S3FAMR	17724	0.50	0.50	0.00	1.00
S4FAMR	16362	0.50	0.50	0.00	1.00
H1ANYFAM	17708	1.00	0.06	0.00	1.00
H2ANYFAM	18612	1.00	0.05	0.00	1.00
H3ANYFAM	21097	1.00	0.03	0.00	1.00
H4ANYFAM	19816	1.00	0.03	0.00	1.00

**Categorical Variable Codes**

Value-----	R1FAMR	R2FAMR	R3FAMR	R4FAMR
0.no	7511	7824	8880	8201
1.yes	10197	10788	12217	11615
Value-----	S1FAMR	S2FAMR	S3FAMR	S4FAMR
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	7455	7795	8862	8182
1.yes	7455	7785	8862	8180
Value-----	H1ANYFAM	H2ANYFAM	H3ANYFAM	H4ANYFAM
0.no	56	39	18	21
1.yes	17652	18573	21079	19795

**How Constructed:**

RwFAMR indicates whether the respondent or the spouse answered the family information questions. A value of 1 for RwFAMR indicates that the respondent answered the family information questions, while a value of 0 indicates that the respondent did not answer the family information questions.

SwFAMR indicates whether the current wave's spouse was the family respondent. It is taken from the spouse's values to RwFAMR. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

HwANYFAM indicates whether anyone in the couple id answered the family questions. A value of 1 for HwANYFAM indicates that there is a family respondent, while a value of 0 indicates that there is no family respondent. RwfAMR, SwfAMR, and HwANYFAM are set to plain missing (.) for respondents who did not respond to the current wave.

### **Cross Wave Differences in CHARLS**

No differences known.

### **Differences with the RAND HRS/Harmonized HRS**

No differences known.

### **CHARLS Variables Used:**

Wave 1:		
	HOUSEHOLDID	Household ID
Wave 2:		
	HOUSEHOLDID	Household ID
Wave 3:		
	HOUSEHOLDID	Household ID
Wave 4:		
	HOUSEHOLDID	Household ID

<b>Interview Dates</b>
------------------------

Wave	Variable	Label	Type
1	R1IWY	r1iwy:w1 r year of interview	Cont
2	R2IWY	r2iwy:w2 r year of interview	Cont
3	R3IWY	r3iwy:w3 r year of interview	Cont
4	R4IWY	r4iwy:w4 r year of interview	Cont
1	S1IWY	s1iwy:w1 s year of interview	Cont
2	S2IWY	s2iwy:w2 s year of interview	Cont
3	S3IWY	s3iwy:w3 s year of interview	Cont
4	S4IWY	s4iwy:w4 s year of interview	Cont
1	R1IWM	r1iwm:w1 r month of interview	Cont
2	R2IWM	r2iwm:w2 r month of interview	Cont
3	R3IWM	r3iwm:w3 r month of interview	Cont
4	R4IWM	r4iwm:w4 r month of interview	Cont
1	S1IWM	s1iwm:w1 s month of interview	Cont
2	S2IWM	s2iwm:w2 s month of interview	Cont
3	S3IWM	s3iwm:w3 s month of interview	Cont
4	S4IWM	s4iwm:w4 s month of interview	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IWY	17708	2011.02	0.13	2011.00	2012.00
R2IWY	18612	2013.00	0.01	2013.00	2014.00
R3IWY	21097	2015.00	0.05	2015.00	2016.00
R4IWY	19816	2018.00	0.00	2018.00	2018.00
S1IWY	14910	2011.02	0.13	2011.00	2012.00
S2IWY	15580	2013.00	0.01	2013.00	2014.00
S3IWY	17724	2015.00	0.06	2015.00	2016.00
S4IWY	16362	2018.00	0.00	2018.00	2018.00
R1IWM	17708	7.58	1.34	1.00	12.00
R2IWM	18612	7.73	0.92	1.00	12.00
R3IWM	21097	7.39	0.60	1.00	9.00
R4IWM	19816	7.40	0.50	7.00	11.00
S1IWM	14910	7.57	1.30	1.00	12.00
S2IWM	15580	7.72	0.91	1.00	11.00
S3IWM	17724	7.38	0.60	1.00	9.00
S4IWM	16362	7.40	0.50	7.00	11.00

**How Constructed:**

RwIWY and RwIWM indicate the individual's interview year and month. If the respondent is not in a specific wave plain missing (.) is assigned.

SwIWY and SwIWM indicate the current wave's spouse's individual interview year and month. SwIWY and SwIWM are taken from RwIWY and RwIWM of the respondent's spouse, respectively. If the respondent is not designated as coupled in the current wave and unmarried, a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

## Wave 1:

IMONTH	interview month
IYEAR	interview year

## Wave 2:

IMONTH	Interview Month
IYEAR	Interview Year

## Wave 3:

IMONTH	Interview Month
IYEAR	Interview Year

## Wave 4:

IMONTH	Interview Month
IYEAR	Interview Year

<b>Birth date: Month, and Year</b>
------------------------------------

Wave	Variable	Label	Type
1	RABYEAR	rabyear:r birth year	Cont
1	S1BYEAR	s1byear:w1 s birth year	Cont
2	S2BYEAR	s2byear:w2 s birth year	Cont
3	S3BYEAR	s3byear:w3 s birth year	Cont
4	S4BYEAR	s4byear:w4 s birth year	Cont
1	RAFYEAR	rafyear:r flag birth year	Categ
1	S1FYEAR	s1fyear:w1 s flag birth year	Categ
2	S2FYEAR	s2fyear:w2 s flag birth year	Categ
3	S3FYEAR	s3fyear:w3 s flag birth year	Categ
4	S4FYEAR	s4fyear:w4 s flag birth year	Categ
1	RABMONTH	rabmonth:r birth month	Cont
1	S1BMONTH	s1bmonth:w1 s birth month	Cont
2	S2BMONTH	s2bmonth:w2 s birth month	Cont
3	S3BMONTH	s3bmonth:w3 s birth month	Cont
4	S4BMONTH	s4bmonth:w4 s birth month	Cont
1	RAFMONTH	rafmonth:r flag birth month	Categ
1	S1FBMONTH	s1fbmonth:w1 s flag birth month	Categ
2	S2FBMONTH	s2fbmonth:w2 s flag birth month	Categ
3	S3FBMONTH	s3fbmonth:w3 s flag birth month	Categ
4	S4FBMONTH	s4fbmonth:w4 s flag birth month	Categ
1	RABDAY	rabday:r birth day	Cont
1	S1BDAY	s1bday:w1 s birth day	Cont
2	S2BDAY	s2bday:w2 s birth day	Cont
3	S3BDAY	s3bday:w3 s birth day	Cont
4	S4BDAY	s4bday:w4 s birth day	Cont
1	RAFBDAY	rafday:r flag birth day	Categ
1	S1FBDAY	s1fbday:w1 s flag birth day	Categ
2	S2FBDAY	s2fbday:w2 s flag birth day	Categ
3	S3FBDAY	s3fbday:w3 s flag birth day	Categ
4	S4FBDAY	s4fbday:w4 s flag birth day	Categ
1	RAFBDATE	rafbate:r flag birth date	Categ
1	S1FBDATE	s1fbdate:w1 s flag birth date	Categ
2	S2FBDATE	s2fbdate:w2 s flag birth date	Categ
3	S3FBDATE	s3fbdate:w3 s flag birth date	Categ
4	S4FBDATE	s4fbdate:w4 s flag birth date	Categ
1	RAIDYEAR	raidyear:r ID birth year	Cont
1	S1IDYEAR	s1idyear:w1 s ID birth year	Cont
2	S2IDYEAR	s2idyear:w2 s ID birth year	Cont
3	S3IDYEAR	s3idyear:w3 s ID birth year	Cont
4	S4IDYEAR	s4idyear:w4 s ID birth year	Cont
1	RAIDMONTH	raidbmonth:r ID birth month	Cont
1	S1IDBMONTH	s1idbmonth:w1 s ID birth month	Cont
2	S2IDBMONTH	s2idbmonth:w2 s ID birth month	Cont
3	S3IDBMONTH	s3idbmonth:w3 s ID birth month	Cont
4	S4IDBMONTH	s4idbmonth:w4 s ID birth month	Cont

1	RAIDBDAY	raidbday:r ID birth day	Cont
1	S1IDBDAY	s1idbday:w1 s ID birth day	Cont
2	S2IDBDAY	s2idbday:w2 s ID birth day	Cont
3	S3IDBDAY	s3idbday:w3 s ID birth day	Cont
4	S4IDBDAY	s4idbday:w4 s ID birth day	Cont
1	RAFIDBDATE	rafidbdate:r flag ID birth date	Categ
1	S1FIDBDATE	s1fidbdate:w1 s flag ID birth date	Categ
2	S2FIDBDATE	s2fidbdate:w2 s flag ID birth date	Categ
3	S3FIDBDATE	s3fidbdate:w3 s flag ID birth date	Categ
4	S4FIDBDATE	s4fidbdate:w4 s flag ID birth date	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RABYEAR	25281	1955.07	11.18	1900.00	2000.00
S1BYEAR	14777	1953.36	9.33	1910.00	2000.00
S2BYEAR	15489	1954.42	9.43	1914.00	2000.00
S3BYEAR	17650	1956.79	9.90	1900.00	2000.00
S4BYEAR	16311	1957.51	9.54	1922.00	2000.00
RAFYEAR	25586	3.54	0.93	1.00	4.00
S1FYEAR	14910	3.53	0.99	1.00	4.00
S2FYEAR	15580	3.68	0.77	1.00	4.00
S3FYEAR	17724	3.84	0.42	1.00	4.00
S4FYEAR	16362	3.97	0.23	1.00	4.00
RABMONTH	25161	6.59	3.52	1.00	12.00
S1BMONTH	14728	6.57	3.52	1.00	12.00
S2BMONTH	15453	6.58	3.51	1.00	12.00
S3BMONTH	17606	6.59	3.51	1.00	12.00
S4BMONTH	16294	6.56	3.52	1.00	12.00
RAFBMONTH	25586	3.53	0.94	1.00	4.00
S1FBMONTH	14910	3.52	0.99	1.00	4.00
S2FBMONTH	15580	3.67	0.78	1.00	4.00
S3FBMONTH	17724	3.84	0.44	1.00	4.00
S4FBMONTH	16362	3.97	0.24	1.00	4.00
RABDAY	25111	14.88	8.62	1.00	31.00
S1BDAY	14706	14.86	8.60	1.00	31.00
S2BDAY	15434	14.84	8.59	1.00	31.00
S3BDAY	17588	14.87	8.60	1.00	31.00
S4BDAY	16289	14.81	8.62	1.00	31.00
RAFBDAY	25586	3.53	0.95	1.00	4.00
S1FBDAY	14910	3.52	1.00	1.00	4.00
S2FBDAY	15580	3.67	0.79	1.00	4.00
S3FBDAY	17724	3.83	0.45	1.00	4.00
S4FBDAY	16362	3.96	0.25	1.00	4.00
RAFBDATE	25586	0.63	0.48	0.00	1.00
S1FBDATE	14910	0.74	0.44	0.00	1.00
S2FBDATE	15580	0.75	0.43	0.00	1.00
S3FBDATE	17724	0.71	0.45	0.00	1.00
S4FBDATE	16362	0.71	0.46	0.00	1.00
RAIDBYEAR	22692	1955.82	10.72	1900.00	2000.00

S1IDBYEAR	13181	1953.79	8.94	1910.00	2000.00
S2IDBYEAR	14455	1954.59	9.20	1920.00	2000.00
S3IDBYEAR	17684	1956.80	9.87	1900.00	2000.00
S4IDBYEAR	16343	1957.52	9.50	1922.00	2000.00
RAIDBMONTH	22630	6.60	3.49	1.00	12.00
S1IDBMONTH	13160	6.58	3.49	1.00	12.00
S2IDBMONTH	14438	6.59	3.49	1.00	12.00
S3IDBMONTH	17645	6.61	3.49	1.00	12.00
S4IDBMONTH	16327	6.58	3.50	1.00	12.00
RAIDBDAY	19686	14.55	8.54	1.00	31.00
S1IDBDAY	11758	14.56	8.53	1.00	31.00
S2IDBDAY	12889	14.53	8.52	1.00	31.00
S3IDBDAY	15488	14.60	8.55	1.00	31.00
S4IDBDAY	16275	14.54	8.53	1.00	31.00
RAFIDBDATE	22778	0.03	0.17	0.00	1.00
S1FIDBDATE	13207	0.03	0.18	0.00	1.00
S2FIDBDATE	14480	0.03	0.17	0.00	1.00
S3FIDBDATE	17724	0.03	0.17	0.00	1.00
S4FIDBDATE	16362	0.03	0.17	0.00	1.00

### Categorical Variable Codes

Value-----	RAFBYEAR
1.Wave 1	2456
2.Wave 2	613
3.Wave 3	3254
4.Wave 4	19263

Value-----	S1FBYEAR	S2FBYEAR	S3FBYEAR	S4FBYEAR
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Wave 1	1773	814	116	60
2.Wave 2	81	443	33	15
3.Wave 3	1587	1722	2413	304
4.Wave 4	11469	12601	15162	15983

Value-----	RAFBMONTH
1.Wave 1	2507
2.Wave 2	617
3.Wave 3	3218
4.Wave 4	19244

Value-----	S1FBMONTH	S2FBMONTH	S3FBMONTH	S4FBMONTH
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Wave 1	1808	846	143	70
2.Wave 2	79	448	39	16
3.Wave 3	1564	1694	2393	305
4.Wave 4	11459	12592	15149	15971

Value-----	RAFBDAY
1.Wave 1	2540
2.Wave 2	624
3.Wave 3	3190
4.Wave 4	19232

Value-----	S1FBDAY	S2FBDAY	S3FBDAY	S4FBDAY
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Wave 1	1838	873	170	78



2.Wave 2	77	453	45	19
3.Wave 3	1542	1669	2371	305
4.Wave 4	11453	12585	15138	15960
Value-----	RAFBDATE			
0.no dispute	9520			
1.dispute, last report used	16066			
Value-----	S1FBDATE	S2FBDATE	S3FBDATE	S4FBDATE
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no dispute	3947	3885	5151	4820
1.dispute, last report used	10963	11695	12573	11542
Value-----	RAFIDBDATE			
0.no dispute	22093			
1.dispute, last report used	685			
Value-----	S1FIDBDATE	S2FIDBDATE	S3FIDBDATE	S4FIDBDATE
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	624	650	517
0.no dispute	12787	14033	17214	15894
1.dispute, last report used	420	447	510	468

### How Constructed:

RABYEAR indicates the respondent's reported birth year. RABMONTH indicates the respondent's reported birth month. RABDAY indicates the respondent's reported birth day.

At Waves 1 and 2, new respondents are asked to report the year, month, and day of their birth. CHARLS then asks them whether their reported birth date is based on the solar (Gregorian) or lunar (traditional Chinese) calendar.

At Wave 2, re-interview respondents are asked to confirm their previously reported birth date. If the respondent indicates the previous wave's information is incorrect, CHARLS asks the respondent to report the year, month, and day of their birth. CHARLS then asks them whether their reported birth date is based on the solar or lunar calendar.

At Waves 1 and 2, all respondents are asked to report their current age.

Starting at Wave 3, respondents are asked to report the year, month, and day of birth that is listed on their ID card. Birth dates listed on Chinese ID cards are based on the solar calendar. CHARLS then asks respondents to report their actual year, month, and day of birth if their actual birth date is different than what is listed on their ID card. If the respondent reports a different date than what is listed on their ID card, CHARLS then asks them whether their reported birth date is based on the solar or lunar calendar.

RABYEAR, RABMONTH and RABDAY are derived to make use of the most recently reported birth date information. In cases where the most recently reported birth date information is based on the lunar calendar, RABYEAR, RABMONTH, and RABDAY include dates that have been transformed from lunar to solar using a Stata command (lunar2solar) written by the CHARLS team. In cases where the birth year is missing, RABYEAR is derived by subtracting the reported age from the interview year.

RABYEAR is assigned special missing value (.i) if the respondent reported a birth year that is in the future or the same as the year in which they were interviewed. Special missing (.x) is assigned if the respondent's reported lunar birth date was unable to be transformed into a solar date. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RABYEAR, RABMONTH, and RABDAY are coded as blank missing (.) if the respondent did not respond to this wave.

The lunar2solar Stata command may be downloaded from the CHARLS forum (<http://forum.charls.pku.edu.cn/viewtopic.php?t=12>). The download is only available to users who have registered for both access to CHARLS data and access to the CHARLS forum.

RAFYEAR, RAFMONTH, and RAFDAY are flag variables that indicate the wave at which the respondent reported the value used in RABYEAR, RABMONTH, and RABDAY, respectively.

RAFBDATE is a flag variable which indicates whether the respondent ever corrected a previous report of their birth year, month, or day. RAFBDATE is assigned 0 if the respondent has not disputed the first report of their birth date and has not given a different birth date in a later wave. RAFBDATE is assigned 1 if the respondent reported that their initial report of birth date was incorrect or provided different birth date information later in the survey.

SwBYEAR, SwBMONTH, and SwBDAY indicate the respondent's spouse's reported birth year, month, and day, respectively. SwFBYEAR, SwFBMONTH, and SwFBDAY indicate the wave at which the respondent's spouse reported the value used in SwBYEAR, SwBMONTH, and SwBDAY, respectively. SwFBDATE indicates whether the respondent's spouse ever corrected a previous report of their birth year, month, or day. SwBYEAR, SwBMONTH, SwBDAY, SwFBYEAR, SwFBMONTH, SwFBDAY, and SwFBDATE are taken from the spouse's values of RABYEAR, RABMONTH, RABDAY, RAFBYEAR, RAFBMONTH, RAFBDAY, and RAFBDATE, respectively. In addition to the special missing values used in RABYEAR, RABMONTH, RABDAY, RAFBYEAR, RAFBMONTH, RAFBDAY, and RAFBDATE, SwBYEAR, SwBMONTH, SwBDAY, SwFBYEAR, SwFBMONTH, SwFBDAY, and SwFBDATE employ two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RAIDBYEAR indicates the respondent's birth year from their ID card. RAIDBMONTH indicates the respondent's birth month from their ID card. RAIDBDAY indicates the respondent's birth day from their ID card. RAIDBYEAR, RAIDBMONTH and RAIDBDAY are derived to make use of the most recent ID birth date information. Special missing value (.q) is assigned if the respondent has not participated in an interview since Wave 2 so was never asked to report the birth date listed on their ID card. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RAIDBYEAR, RAIDBMONTH, and RAIDBDAY are coded as blank missing (.) if the respondent did not respond to this wave.

RAFIDBDATE is a flag variable which indicates whether the respondent ever corrected a previous report of their ID birth year, month, or day. RAFIDBDATE is assigned 0 if the respondent has not provided different ID birth date information at a later wave. RAFIDBDATE is assigned 1 if the respondent has provided different ID birth date information at a later wave.

SwIDBYEAR, SwIDBMONTH, and SwIDBDAY indicate the respondent's spouse's birth year from their ID card. SwFIDBDATE indicates whether the respondent's spouse ever corrected a previous report of their ID birth year, month, or day. SwIDBYEAR, SwIDBMONTH, SwIDBDAY, and SwFIDBDATE are taken from the spouse's values of RAIDBYEAR, RAIDBMONTH, RAIDBDAY, and RAFIDBDATE, respectively. In addition to the special missing values used in RAIDBYEAR, RAIDBMONTH, RAIDBDAY, and RAFIDBDATE, SwIDBYEAR, SwIDBMONTH, SwIDBDAY, and SwFIDBDATE employ two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 and 2, new respondents are asked to report the year, month, and day of their birth. CHARLS then asks them whether their reported birth date is based on the solar (Gregorian) or lunar (traditional Chinese) calendar.

At Wave 2, re-interview respondents are asked to confirm their previously reported birth date. If the respondent indicates the previous wave's information is incorrect, CHARLS asks the respondent to report the year, month, and day of their birth. CHARLS then asks them whether their reported birth date is based on the solar or lunar calendar.

At Waves 1 and 2, all respondents are asked to report their current age. Starting at Wave 3, respondents are not asked to report their current age.

Starting at Wave 3, respondents are asked to report the year, month, and day of birth that is listed on their ID card. Birth dates listed on Chinese ID cards are based on the solar calendar. CHARLS then asks respondents to report their actual year, month, and day of birth if their actual birth date is different than what is listed on their ID card. If the respondent reports a different date than what is listed on their ID card, CHARLS then asks them whether their reported birth date is based on the solar or lunar calendar.

## Differences with the RAND HRS/Harmonized HRS

Unlike HRS, CHARLS does not have a tracker file. We used the reported information from the core

surveys to determine the best approximation birth year, month and day. Unlike HRS, CHARLS respondents may report a birth date that is based on the lunar (traditional Chinese) calendar.

### CHARLS Variables Used:

#### Wave 1:

BA002_1	Birth Year
BA002_2	Birth Month
BA002_3	Birth Day
BA003	Calendar Type
BA004	Age

#### Wave 2:

BA001_W2_1	We Record Your Birth Time is [Birth Time], Is It Right?
BA002_1	When were You Born:Year
BA002_2	When were You Born:Month
BA002_3	When were You Born:Day
BA003	Is Your Answer to BA002 Based On Solar or Lunar Calendar
BA004	Your Age

#### Wave 3:

BA002_1	When were You Born: Year
BA002_2	When were You Born: Month
BA002_3	When were You Born: Day
BA003	Solar or Lunar Calendar
BA004_W3_1	Birth Time on ID Card or Hukou:Year
BA004_W3_2	Birth Time on ID Card or Hukou:Month
BA004_W3_3	Birth Time on ID Card or Hukou:Day

#### Wave 4:

BA002_1	Actual Year of Birth
BA002_2	Actual Month of Birth
BA002_3	Actual Day of Birth
BA003	Solar Calendar or Lunar Calendar
BA004_W3_1	Year of Birth
BA004_W3_2	Month of Birth
BA004_W3_3	Day of Birth
BA005_W4	Actual Date of Birth and Recorded in Hukou or ID Card

**Death: Month, and Year**

Wave	Variable	Label	Type
1	RADYEAR	radyear:r death year	Cont
1	S1DYEAR	s1dyear:w1 s death year	Cont
1	RADMONTH	radmonth:r death month	Cont
1	S1DMONTH	s1dmonth:w1 s death month	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
RADYEAR	402	2012.20	0.69	2011.00	2014.00
S1DYEAR	254	2012.20	0.69	2011.00	2014.00
RADMONTH	397	5.74	3.61	1.00	12.00
S1DMONTH	253	5.68	3.64	1.00	12.00

**How Constructed:**

RADYEAR indicates the respondent's reported year of death. RADMONTH indicates the respondent's reported month of death. RADYEAR and RADMONTH are based on questions asked as part of the exit interview, asked at each wave starting with Wave 2.

At Wave 2, informants are asked to report the respondent's year and month of death. CHARLS then asks them whether the respondent's reported year and month of death is based on the solar (Gregorian) or lunar (traditional Chinese) calendar.

In cases where the death year and month are based on the lunar calendar, RADYEAR and RADMONTH include dates that have been transformed from lunar to solar using a Stata command (lunar2solar) written by the CHARLS team. Because CHARLS does not ask informants to report the respondent's day of death, dates are transformed from lunar to solar with the assumption that the respondent died on day 15 of the reported month.

RADYEAR is assigned special missing value (.i) if the informant reported a year of death that is in the future. RADYEAR is assigned special missing value (.m) if the respondent is known to have passed away and is in the exit data set but does not have information about death year. RADMONTH is assigned special missing value (.m) if the respondent is known to have passed away and is in the exit data set but does not have information about death month. RADYEAR and RADMONTH are coded as blank missing (.) if the respondent or informant did not respond to this wave.

The lunar2solar Stata command may be downloaded from the CHARLS forum (<http://forum.charls.pku.edu.cn/viewtopic.php?t=12>). The download is only available to users who have registered for both access to CHARLS data and access to the CHARLS forum.

**Cross Wave Differences in CHARLS**

The Wave 3 and 4 exit interview files have not been released.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 2:

EXB001_1	The Date on Which R Died (Year)
EXB001_2	The Date on Which R Died (Month)
EXB002	Solar/Lunar Calendar

**Age at interview (in months and years)**

Wave	Variable	Label	Type
1	R1AGEY	r1agey:w1 r age in years	Cont
2	R2AGEY	r2agey:w2 r age in years	Cont
3	R3AGEY	r3agey:w3 r age in years	Cont
4	R4AGEY	r4agey:w4 r age in years	Cont
1	S1AGEY	s1agey:w1 s age in years	Cont
2	S2AGEY	s2agey:w2 s age in years	Cont
3	S3AGEY	s3agey:w3 s age in years	Cont
4	S4AGEY	s4agey:w4 s age in years	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1AGEY	17533	58.50	10.17	10.00	101.00
R2AGEY	18490	59.41	10.29	12.00	103.00
R3AGEY	20999	59.09	10.75	14.00	115.00
R4AGEY	19751	61.44	10.41	17.00	118.00
S1AGEY	14777	57.27	9.33	10.00	101.00
S2AGEY	15489	58.21	9.43	12.00	99.00
S3AGEY	17650	57.81	9.90	14.00	115.00
S4AGEY	16311	60.08	9.54	17.00	96.00

**How Constructed:**

RwAGEY indicates the respondent's age in years at the time of the current wave's interview. The respondent's age is calculated using the interview year and month (RwIWY and RwIWM) and the respondent's birth year and month (RABYEAR and RABMONTH). In the case that the respondent's birth month is missing, RwAGEY is calculated using the interview year and month and the respondent's birth year with the assumption that the respondent's birth month is month 6 (June). At Waves 1 and 2, if the respondent's birth year is missing, RwAGEY is the respondent's self-reported age. Missing responses are assigned special missing value (.m). RwAGEY is coded as blank missing (.) if the respondent did not respond to this wave.

SwAGEY indicates the respondent's spouse's age in year at the time of the current wave's interview. SwAGEY is taken from the spouse's value to RwAGEY. Missing responses are assigned special missing value (.m). Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

RABYEAR and RABMONTH are used to derive RwAGEY. RABYEAR and RABMONTH differ between waves. Please refer to RABYEAR and RABMONTH for the differences between waves of this harmonized variable.

At Waves 1 and 2, all respondents are asked to report their current age. Starting at Wave 3, respondents are not asked to report their current age.

**Differences with the RAND HRS/Harmonized HRS**

Unlike the HRS, the CHARLS has two ways for respondents to report their age at Waves 1 and 2, either when the respondent was born or how old the respondent is at the current interview.

**CHARLS Variables Used:**

Wave	Variable	Label
1:	BA002_1	Birth Year
	BA002_2	Birth Month
	BA002_3	Birth Day
	BA003	Calendar Type

BA004	Age
IMONTH	interview month
IYEAR	interview year
Wave 2:	
BA001_W2_1	We Record Your Birth Time is [Birth Time], Is It Right?
BA002_1	When were You Born:Year
BA002_2	When were You Born:Month
BA002_3	When were You Born:Day
BA003	Is Your Answer to BA002 Based On Solar or Lunar Calendar
BA004	Your Age
IMONTH	Interview Month
IYEAR	Interview Year
Wave 3:	
BA002_1	When were You Born: Year
BA002_2	When were You Born: Month
BA002_3	When were You Born: Day
BA003	Solar or Lunar Calendar
BA004_W3_1	Birth Time on ID Card or Hukou:Year
BA004_W3_2	Birth Time on ID Card or Hukou:Month
BA004_W3_3	Birth Time on ID Card or Hukou:Day
IMONTH	Interview Month
IYEAR	Interview Year
Wave 4:	
BA002_1	Actual Year of Birth
BA002_2	Actual Month of Birth
BA002_3	Actual Day of Birth
BA003	Solar Calendar or Lunar Calendar
BA004_W3_1	Year of Birth
BA004_W3_2	Month of Birth
BA004_W3_3	Day of Birth
BA005_W4	Actual Date of Birth and Recorded in Hukou or ID Card
IMONTH	Interview Month
IYEAR	Interview Year

**Gender**

Wave	Variable	Label	Type
1	RAGENDER	ragender:r gender	Categ
1	S1GENDER	s1gender:w1 s gender	Categ
2	S2GENDER	s2gender:w2 s gender	Categ
3	S3GENDER	s3gender:w3 s gender	Categ
4	S4GENDER	s4gender:w4 s gender	Categ
1	RAFGENDR	rafgendr:r flag if problem with r gender	Categ
2	S2FGENDR	s2fgendr:w2 flag if problem with s gender	Categ
3	S3FGENDR	s3fgendr:w3 flag if problem with s gender	Categ
4	S4FGENDR	s4fgendr:w4 flag if problem with s gender	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
RAGENDER	25578	1.52	0.50	1.00	2.00
S1GENDER	14909	1.50	0.50	1.00	2.00
S2GENDER	15579	1.50	0.50	1.00	2.00
S3GENDER	17719	1.50	0.50	1.00	2.00
S4GENDER	16362	1.50	0.50	1.00	2.00
RAFGENDR	25578	0.02	0.17	0.00	3.00
S2FGENDR	15579	0.02	0.17	0.00	3.00
S3FGENDR	17719	0.02	0.18	0.00	3.00
S4FGENDR	16362	0.02	0.17	0.00	3.00

**Categorical Variable Codes**

Value-----	RAGENDER			
.m:missing	8			
1.man	12334			
2.woman	13244			
Value-----	S1GENDER	S2GENDER	S3GENDER	S4GENDER
.m:missing	1	1	5	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.man	7451	7788	8858	8179
2.woman	7458	7791	8861	8183
Value-----	RAFGENDR			
0.no gender problem	25303			
1.gender prob, used health gender	149			
2.gender prob, used demog gender	115			
3.gender prob, used first gender	11			
Value-----	S2FGENDR	S3FGENDR	S4FGENDR	
.u:unmar	2401	2719	2926	
.v:sp nr	622	650	517	
0.no gender problem	15371	17505	16176	
1.gender prob, used health gender	122	105	95	
2.gender prob, used demog gender	84	102	85	
3.gender prob, used first gender	2	7	6	

**How Constructed:**

RAGENDER indicates the respondent's gender. RAGENDER is set to 1 for man and 2 for woman. RAGENDER is updated each wave.

In wave 1, gender is reported in the Demographic module. The gender reported in the demographic module is taken as the respondent's gender in wave 1. Starting in Wave 2, gender is reported in the Demographic module and the Health module. In the Life History wave, gender is reported in the Demographic module and the Residence module. There are cases where respondents report different genders during the same interview at different modules and cases in which gender reports change between waves. In cases that gender is not consistent between waves or gender is inconsistent between modules, RAGENDER determines gender using the most consistent gender reported. RAFGENDR flag variable indicates exactly how the respondent's gender was determined. RAGENDER is set to special missing (.m) when gender is reported as missing.

RAFGENDR is a flag variable that indicates how the respondent's gender was determined. 0 is assigned if there are no inconsistent gender reports between modules or there were no changes between waves. 0 values indicate gender was determined by the mode value from the Demographic modules. 1 is assigned if there was a change in the Demographic module gender value between waves or there is no gender in the Demographic module and either there is a gender value in the Health/Residence module or there is no change between waves in the Health/Residence module gender value. 1 values indicate gender was determined by the mode value between the Health modules in wave 2 and wave 4 and the Residence module in the Life History wave. 2 is assigned if there was a change in the Demographic module gender value between waves, a change in the Health/Residence module gender value between waves, and non-missing mode values for the Demographic module. 2 values indicate gender was determined by the mode value from the Demographic modules. 3 is assigned if there was a change in the Demographic module gender value between waves, a change in the Health/Residence module gender value between waves, and missing mode values for the Demographic module. 3 values take the first non-missing gender value reported across waves.

SwGENDER and SwFGENDR indicate the current wave's spouse's gender and gender flag, respectively. SwGENDER and SwFGENDR are taken from the spouse's values to RAGENDER and RAFGENDR. If the respondent is not designated as coupled in the current wave, special missing value (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

## Cross Wave Differences in CHARLS

In wave 1, gender is reported once in the Demographic module. In the following waves, gender is reported in two separate modules, again in the demographic module and also in the health module. In the Life History wave, gender is reported in the Demographic module and the Residence module.

## Differences with the RAND HRS/Harmonized HRS

Unlike HRS, CHARLS does not have a tracker file. We used the reported information from core survey to determine the best approximation of the respondent's gender.

### CHARLS Variables Used:

Wave 1:		
	RGENDER	GENDER
Wave 2:		
	BA000_W2_3	Interviewer Record R
	XRGENDER	Gender of R
Life History:		
	RGENDER	Gender
Wave 3:		
	BA000_W2_3	Gender
	XRGENDER	Gender of R
Wave 4:		
	BA000_W2_3	Gender
	XRGENDER	Generated Gender



**Education: Categorical Summary**

Wave	Variable	Label	Type
1	RAEDUC_C	raeduc_c:r education (categ)	Categ
1	S1EDUC_C	s1educ_c:w1 s education (categ)	Categ
2	S2EDUC_C	s2educ_c:w2 s education (categ)	Categ
3	S3EDUC_C	s3educ_c:w3 s education (categ)	Categ
4	S4EDUC_C	s4educ_c:w4 s education (categ)	Categ
1	RAEDUCL	raeducl:r harmonized education levels	Categ
1	S1EDUCL	s1educl:w1 s harmonized education levels	Categ
2	S2EDUCL	s2educl:w2 s harmonized education levels	Categ
3	S3EDUCL	s3educl:w3 s harmonized education levels	Categ
4	S4EDUCL	s4educl:w4 s harmonized education levels	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
RAEDUC_C	25542	3.48	1.94	1.00	10.00
S1EDUC_C	14871	3.48	1.97	1.00	10.00
S2EDUC_C	15563	3.52	1.96	1.00	10.00
S3EDUC_C	17681	3.53	1.86	1.00	10.00
S4EDUC_C	16362	3.57	1.85	1.00	10.00
RAEDUCL	25542	1.17	0.44	1.00	3.00
S1EDUCL	14871	1.16	0.42	1.00	3.00
S2EDUCL	15563	1.16	0.42	1.00	3.00
S3EDUCL	17681	1.14	0.41	1.00	3.00
S4EDUCL	16362	1.16	0.42	1.00	3.00

**Categorical Variable Codes**

Value	RAEDUC_C	S1EDUC_C	S2EDUC_C	S3EDUC_C	S4EDUC_C
.d:dk	5	18			
.m:missing	26	20	17	14	
.q:Not specified	12			29	
.r:refuse	1	1			
1.No formal education illiterate	6256	2260	2401	2719	2926
2.Did not finish primary school but capa	3917	538	622	650	517
3.Sishu	104	3642	3634	3869	3446
4.Elementary school	7200	2608	2745	2751	2496
5.Middle school	4828	55	54	39	32
6.High school	1978	3321	3464	5459	5105
7.Vocational school	606				
8.Two/Three Year College/Associate degree	398				
9.Four Year College/Bachelor's degree	237				
10.Post-graduated(Master/PhD)	18				

5.Middle school	3294	3538	3517	3325
6.High school	1218	1373	1308	1259
7.Vocational school	374	406	385	369
8.Two/Three Year College/Associate degree	237	224	228	216
9.Four Year College/Bachelor's degree	116	117	117	104
10.Post-graduated(Master/PhD)	6	8	8	10

Value-----	RAEDUCL
.d:dk	5
.m:missing	26
.q:disputes education record	12
.r:refuse	1
1.Less than lower secondary	22028
2.upper secondary & vocational training	2795
3.tertiary	719

Value-----	S1EDUCL	S2EDUCL	S3EDUCL	S4EDUCL
.d:dk	18			
.m:missing	20	17	14	
.q:disputes education record			29	
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Less than lower secondary	12920	13435	15594	14160
2.upper secondary & vocational training	1592	1779	1698	1830
3.tertiary	359	349	389	372

### How Constructed:

RAEDUC\_C identifies the highest level of education that the respondent has attained. RAEDUC\_C is defined using the following codes: 1.No Formal Education (Illiterate), 2.Did Not Finish Primary School but can Read, 3.Sishu (Private Tutoring), 4.Elementary School, 5.Middle School, 6.High School, 7.Vocational School, 8.Two/three-year college, 9.College Grad and 10.Post-graduate degree. Don't know, missing, or refused values of RAEDUC\_C are assigned special missing codes (.d), (.m), (.r), respectively. Please note we used the first non-missing report of education unless the respondent disputed their previous wave report or that their previous wave report included adult education at which point they re-asked education at previous wave and this was used.

RAEDUCL identifies the level of education completed according to a three-tier harmonized scale, which we developed to compare education levels across countries. This harmonized education scale is a simplified version of 1997 International Standard Classification of Education (ISCED-97) codes. For more information on ISCED codes, see [www.uis.unesco.org](http://www.uis.unesco.org) and the OECD document entitled "Classifying Educational Programmes: Manual for ISCED-97 Implementation in OECD Countries, 1999 Edition". RAEDUCL is coded as follows: 1.Less than lower secondary education, 2.Upper secondary & vocational training, and 3.Tertiary education. Respondents are assigned a code of 1 if the respondent reports an education level of "No Formal Education (Illiterate)", "Did Not Finish Primary School but can Read", "Sishu (Private Tutoring)", "Elementary School" or "Middle School". If the respondent reports an education level of "High School" or "Vocational School" a code of 2 is assigned. Respondents are assigned a code of 3 if the respondent reports an education level of "Two/three-year College", "College Grad" or "Post-graduate degree". Special missing (.q) is assigned in wave 4 if the respondent disputes the education record but there is no updated education level. Don't know and refused responses are coded as special missing (.d). Other missing responses are assigned special missing (.m). Responses are set to blank missing (.) when the respondent did not participate in the current wave.

SwEDUC\_C and SwEDUCL indicate the current wave's spouse's category of education. SwEDUC\_C and SwEDUCL are taken from the spouse's value to RAEDUC\_C and RAEDUCL. If the respondent is not designated as coupled in the current wave special missing value (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned. SwEDUC\_C and SwEDUCL are set to plain missing (.) for respondents who did not respond to the specific wave.

### Cross Wave Differences in CHARLS

In wave 2 and forward, respondents were re-asked the previous waves education level. If the respondent disputed their past report or indicated that the previous waves highest level of education contains adult education then we assign the corrected report for the previous wave's education level. This affects both RAEDUC\_C and RAEDUCL.

In wave 2 and forward, CHARLS changed the education question to ask for the highest level of education, not including adult education. In this case, all wave 1 reports which included adult education were re-asked and we used the new reported value to corrected wave 1 report.

Education level was also asked as part of the Life History interview. Education categorization varies in the Life History wave from the core waves. Specifically, categories include: 1. Home school, 2. Kindergarten, 3. Preschool, 4. Primary school, 5. Middle school, 6. High school, 7. Vocational school (including evening classes, self-study examination, correspondence education, radio and television university), 8. Three-year college (including evening classes, self-study examination, correspondence education, radio and television university), 9. Four-year college (including evening classes, self-study examination, correspondence education, radio and television university) 10. Master programs (including academic master, professional master like MBA, part-time), 11. Ph.D. programs (including part-time), and 12. None. If a respondent reported they received kindergarten or preschool education and could not read, reported they had no education, or reported they have never studied, they were assigned 1. No formal education (illiterate). If a respondent reported they received kindergarten or preschool education and could read, respondents were assigned 2. Did not finish primary school. Education levels above the first two (i.e. 3.-10.) follow the core waves categorization.

### Differences with the RAND HRS/Harmonized HRS

To account for the high prevalence of lower level of education, RAEDUC\_C includes additional lower education categories from RAEDUC in the RAND HRS. RAEDUC\_L is not available in the RAND HRS. The CHARLS specifically asked for the highest level of education, not including adult education. The HRS does not include any specific information about whether to include adult education.

### CHARLS Variables Used:

Wave 1:	
BD001	HIGHEST LEVEL OF SCHOOL attained
Wave 2:	
BD001	The Highest level of Education Attained Now
BD001_W2_1	Is The Record of Highest Education Level Right
BD001_W2_2	Is The Highest Level of Education Contains Adult Education in L
BD001_W2_3	What's The Highest Level of Education in Last Wave
Wave 3:	
BD001_W2_4	Have Your Highest Level of Education Changed?
Wave 4:	
BD001_W2_4	Education

**Current Marital Status: With partnership**

Wave	Variable	Label	Type
1	R1MSTAT	r1mstat:w1 r marital status w/partners, filled	Categ
2	R2MSTAT	r2mstat:w2 r marital status w/partners, filled	Categ
3	R3MSTAT	r3mstat:w3 r marital status w/partners, filled	Categ
4	R4MSTAT	r4mstat:w4 r marital status w/partners, filled	Categ
1	S1MSTAT	s1mstat:w1 s marital status w/partners, filled	Categ
2	S2MSTAT	s2mstat:w2 s marital status w/partners, filled	Categ
3	S3MSTAT	s3mstat:w3 s marital status w/partners, filled	Categ
4	S4MSTAT	s4mstat:w4 s marital status w/partners, filled	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MSTAT	17696	1.89	1.98	1.00	8.00
R2MSTAT	18609	1.88	2.00	1.00	8.00
R3MSTAT	21096	1.89	1.99	1.00	8.00
R4MSTAT	19816	2.00	2.09	1.00	8.00
S1MSTAT	14910	1.16	0.54	1.00	3.00
S2MSTAT	15580	1.12	0.47	1.00	3.00
S3MSTAT	17724	1.13	0.49	1.00	3.00
S4MSTAT	16362	1.14	0.51	1.00	3.00

**Categorical Variable Codes**

Value-----	R1MSTAT	R2MSTAT	R3MSTAT	R4MSTAT
.m:missing	12	3	1	
1.married	14170	15069	16985	15530
3.partnered	1278	1142	1393	1360
4.separated	77	47	44	62
5.divorced	146	147	187	236
7.widowed	1866	2049	2330	2511
8.never married	159	155	157	117

  

Value-----	S1MSTAT	S2MSTAT	S3MSTAT	S4MSTAT
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.married	13723	14666	16565	15197
3.partnered	1187	914	1159	1165

**How Constructed:**

RwMSTAT indicates a respondent's marital status in the current wave, taking into account any implied partnership. Implied partnership status is assigned to respondents who report being currently unmarried but who are coupled with another respondent through CHARLS's couple id.

In wave 1, respondents are asked to indicate their marital status. Categories include: (1) Married with spouse present, (2) Married but not living with spouse temporarily for reasons such as work, (3) Separated, (4) Divorced, (5) Widowed, or (6) Never married. In wave 1, a code of 1 indicates the respondent is married with spouse present. A code of 3 indicates the respondent is married but not living with spouse temporarily for reasons such as work or the respondent is coupled, as indicated by the couple ID. A code of 4 indicates the respondent is separated. A code of 5 indicates the respondent is divorced. A code of 7 indicates the respondent is widowed. A code of 8 indicates the respondent has never been married.

Similarly, waves 2, 3, and 4 ask respondents to indicate their marital status. Wave 2 and 4 include wave 1 categories (1)-(6), plus an additional category of (7) Cohabitated. In waves 2, 3, and 4, a code of 1 indicates the respondent is married with spouse present. A code of 3 indicates the respondent is married but not living with spouse temporarily for reasons such as work, the respondent is cohabitating, or the respondent is coupled, as indicated by the couple ID. A code of

4 indicates the respondent is separated. A code of 5 indicates the respondent is divorced. A code of 7 indicates the respondent is widowed. A code of 8 indicates the respondent has never been married.

When respondents don't know, refuse to answer or other missing, RwmSTAT is assigned special missing values (.d), (.r) or (.m), respectively. RwmSTAT is set to plain missing (.) for respondents who did not respond to the current wave.

SwMSTAT indicates the current wave's spouse's marital status. SwMSTAT is taken from the spouse's values to RwmSTAT. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

## Cross Wave Differences in CHARLS

Wave 2 and wave 3 differ from wave 1 in that CHARLS introduces a new category "Cohabitated". In wave 4, after being asked about marital status, respondents are asked about cohabitation is asked as a separate question.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

BE001	marital status
HOUSEHOLDID	Household ID
ID	Individual ID

### Wave 2:

BE001	Martial Status
HOUSEHOLDID	Household ID
ID	Individual ID

### Wave 3:

BE001	Martial Status
HOUSEHOLDID	Household ID
ID	Individual ID

### Wave 4:

BE001	Marital Status
BE002	Have a Partner Living Together
HOUSEHOLDID	Household ID
ID	Individual ID

<b>Current Marital Status: Without Partnership</b>
--

Wave	Variable	Label	Type
1	R1MSTATH	r1mstath:w1 r marital status	Categ
2	R2MSTATH	r2mstath:w2 r marital status	Categ
3	R3MSTATH	r3mstath:w3 r marital status	Categ
4	R4MSTATH	r4mstath:w4 r marital status	Categ
1	S1MSTATH	s1mstath:w1 s marital status	Categ
2	S2MSTATH	s2mstath:w2 s marital status	Categ
3	S3MSTATH	s3mstath:w3 s marital status	Categ
4	S4MSTATH	s4mstath:w4 s marital status	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MSTATH	17675	1.82	1.96	1.00	8.00
R2MSTATH	18585	1.83	1.98	1.00	8.00
R3MSTATH	21060	1.83	1.98	1.00	8.00
R4MSTATH	19816	1.93	2.07	1.00	8.00
S1MSTATH	14889	1.08	0.29	1.00	7.00
S2MSTATH	15556	1.06	0.30	1.00	8.00
S3MSTATH	17688	1.07	0.29	1.00	7.00
S4MSTATH	16362	1.07	0.28	1.00	7.00

### Categorical Variable Codes

Value-----	R1MSTATH	R2MSTATH	R3MSTATH	R4MSTATH
.m:missing	33	27	37	
1.married	14170	15069	16985	15530
2.married, sp abs	1247	1067	1307	1334
3.partnered		16	26	12
4.separated	83	67	56	72
5.divorced	147	155	194	237
7.widowed	1869	2055	2335	2514
8.never married	159	156	157	117

  

Value-----	S1MSTATH	S2MSTATH	S3MSTATH	S4MSTATH
.m:missing	21	24	36	
.u:unmar	2351	2628	2951	3119
.v:sp nr	447	398	418	324
1.married	13723	14666	16565	15197
2.married, sp abs	1156	840	1075	1141
3.partnered		15	24	10
4.separated	6	20	12	10
5.divorced	1	8	7	1
7.widowed	3	6	5	3
8.never married		1		

### How Constructed:

RwMSTATH indicates a respondent's reported marital status. While RwmSTAT, described above, recodes reported marital status with implied partnership, RwmSTATH provides the reported marital status in the current wave without implied partnership.

In wave 1, respondents are asked to indicate their marital status. Categories include: (1) Married with spouse present, (2) Married but not living with spouse temporarily for reasons such as work, (3) Separated, (4) Divorced, (5) Widowed, or (6) Never married. In wave 1, a code of 1 indicates the respondent is married with spouse present. A code of 2 indicates the respondent is married but not living with spouse temporarily for reasons such as work. A code of 4 indicates the respondent is separated. A code of 5 indicates the respondent is divorced. A code of 7 indicates the respondent is widowed. A code of 8 indicates the respondent has never been married.

Similarly, waves 2, 3, and 4 ask respondents to indicate their marital status. Waves 2, 3, and 4 include wave 1 categories (1)-(6), plus an additional category of (7) Cohabitated. In waves 2, 3, and 4 a code of 1 indicates the respondent is married with spouse present. A code of 2 indicates the respondent reports being married but not living with spouse temporarily. A code of 3 indicates the respondent is cohabitating. A code of 4 indicates the respondent is separated. A code of 5 indicates the respondent is divorced. A code of 7 indicates the respondent is widowed. A code of 8 indicates the respondent has never been married.

Don't know, refused, or other missing responses of RwmSTATH are assigned special missing codes (.d), (.r), (.m) respectively. RwmSTATH is set to plain missing (.) for respondents who did not respond to the current wave.

SwMSTATH indicates the current wave's spouse's marital status without partnership. SwMSTATH is taken from the spouse's value to RwmSTATH. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

## Cross Wave Differences in CHARLS

Wave 2 and wave 3 differ from Wave 1 in that CHARLS introduces a new category "Cohabitated". In wave 4, after being asked about marital status, respondents are asked about cohabitation as a separate question.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

Wave 1:		
	BE001	marital status
Wave 2:		
	BE001	Martial Status
Wave 3:		
	BE001	Martial Status
Wave 4:		
	BE001	Marital Status
	BE002	Have a Partner Living Together

**Current Marital Status: Never Married**

Wave	Variable	Label	Type
1	R1MNEV	r1mnev:w1 r never married	Categ
2	R2MNEV	r2mnev:w2 r never married	Categ
3	R3MNEV	r3mnev:w3 r never married	Categ
4	R4MNEV	r4mnev:w4 r never married	Categ
1	S1MNEV	s1mnev:w1 s never married	Categ
2	S2MNEV	s2mnev:w2 s never married	Categ
3	S3MNEV	s3mnev:w3 s never married	Categ
4	S4MNEV	s4mnev:w4 s never married	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MNEV	17675	0.01	0.09	0.00	1.00
R2MNEV	18585	0.01	0.09	0.00	1.00
R3MNEV	21060	0.01	0.09	0.00	1.00
R4MNEV	19816	0.01	0.08	0.00	1.00
S1MNEV	14889	0.00	0.00	0.00	0.00
S2MNEV	15556	0.00	0.01	0.00	1.00
S3MNEV	17688	0.00	0.00	0.00	0.00
S4MNEV	16362	0.00	0.01	0.00	1.00

**Categorical Variable Codes**

Value-----	R1MNEV	R2MNEV	R3MNEV	R4MNEV
.m:missing	33	27	37	
0.no	17516	18429	20903	19698
1.yes	159	156	157	118

  

Value-----	S1MNEV	S2MNEV	S3MNEV	S4MNEV
.m:missing	21	24	36	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	14889	15555	17688	16361
1.yes		1		1

**How Constructed:**

RwMNEV indicates whether the respondent ever reported being married by the time of the current wave. A code of 0 indicates that the respondent did not report they have "never been married" and a code of 1 indicates that the respondent did report they have "never been married". RwMNEV is set to special missing (.d) if marriage status is reported as don't know. RwMNEV is set to special missing (.m) if marriage status is reported as missing. RwMNEV is set to special missing (.r) if marriage status is reported as refused. RwMNEV is set to plain missing (.) for respondents who did not respond to the current wave.

SwMNEV indicates whether the current wave's spouse has ever been married. SwMNEV is taken from the spouse's RwMNEV. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

**Cross Wave Differences in CHARLS**

Wave 2 and wave 3 differ from Wave 1 in that CHARLS introduces a new category "Cohabitated". In wave 4, after being asked about marital status, respondents are asked about cohabitation as a separate question.



**Differences with the RAND HRS/Harmonized HRS**

No difference known.

**CHARLS Variables Used:**

Wave 1:

BE001 marital status

Wave 2:

BE001 Martial Status

Wave 3:

BE001 Martial Status

Wave 4:

BE001 Marital Status

<b>Number of Marriage</b>
---------------------------

Wave	Variable	Label	Type
1	R1MRCT	r1mrct:w1 r # marriages	Cont
2	R2MRCT	r2mrct:w2 r # marriages	Cont
1	S1MRCT	s1mrct:w1 s # marriages	Cont
2	S2MRCT	s2mrct:w2 s # marriages	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MRCT	17667	1.04	0.25	0.00	6.00
R2MRCT	18569	1.24	0.50	0.00	5.00
S1MRCT	14882	1.04	0.22	0.00	6.00
S2MRCT	15547	1.25	0.49	0.00	5.00

**How Constructed:**

RwMRCT indicates the number of times the respondent reported having been married. In wave 1 and wave 2, if the respondent reports they had never been married, a 0 is coded. If the respondent reports they have been married, the respondent is asked how many times they have been married. If the respondent is a re-interview, the respondent is asked how many times since the last interview they have been married. For these respondents, their wave 2 value is the number of times they married since the last wave plus the previous waves count.

Don't know, missing, or refused values of RwMRCT are assigned special missing codes (.d), (.m), (.r), respectively. RwMRCT is set to plain missing (.) for respondents who did not respond to the current wave.

SwMRCT is the number of marriages of the current wave's spouse. SwMRCT is taken from the spouse's responses to RwMRCT. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

**Cross Wave Differences in CHARLS**

RwMRCT is not included for wave 3 due to an error in the raw data for the question asking respondents how many times they have been married. Respondents are not asked about how many times they have been married in wave 4, and therefore RwMRCT is not available in wave 4.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:

BE001 marital status  
BE003 HOW MANY TIMES HAVE YOU BEEN MARRIED

Wave 2:

BE001 Martial Status  
BE003 How Many Times Have You Been Married  
BE003\_W2\_1 How Many Times Have You Been Married Since Last Interview

**Length of Current Marriage**

Wave	Variable	Label	Type
1	R1MCURLN	r1mcurln:w1 r length of current marriage	Cont
2	R2MCURLN	r2mcurln:w2 r length of current marriage	Cont
1	S1MCURLN	s1mcurln:w1 s length of current marriage	Cont
2	S2MCURLN	s2mcurln:w2 s length of current marriage	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MCURLN	15294	34.25	10.60	1.00	79.00
R2MCURLN	15762	35.14	10.79	0.00	79.00
S1MCURLN	14697	34.31	10.59	1.00	79.00
S2MCURLN	14919	35.15	10.67	0.00	79.00

**How Constructed:**

RwMCURLN records the length of the respondent's current marriage.

In wave 1 and wave 2, if the respondent reports being married once, the respondent is asked the year they got married. If the respondent reports being married more than once, the respondent is asked the year of the most recent marriage. For each case, RwMCURLN is calculated using the year the respondent reports for their marriage and the year of the current interview. In wave 2, if the respondent reports no new marriages since the last interview RwMCURLN is derived by adding the number of years between the last interview and the current interview to the length of current marriage determined for the previous wave. If the respondent is not currently married, special missing (.u) is assigned. Don't know, missing, or refused values are assigned special missing codes (.d), (.m), (.r), respectively. RwMCURLN is set to plain missing (.) for respondents who did not respond to the current wave.

SwMCURLN measures the length of the current wave's spouse's current marriage. SwMCURLN is taken from the spouse's value to RwMCURLN. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

**Cross Wave Differences in CHARLS**

For wave 1, respondents are assigned (.u) if they are divorced, widowed, or never married. In wave 2, respondents are assigned (.u) if they are cohabitating, divorced, widowed, or never married. Wave 2 differs from wave 1 in that CHARLS introduces a new category "Cohabitated".

RwMCURLN is not included for wave 3 due to an error in the raw data for the question asking respondents how many times they have been married. This information is not asked in wave 4, therefore RwMCURLN is not available in wave 4.

**Differences with the RAND HRS/Harmonized HRS**

No differences known.

**CHARLS Variables Used:**

Wave 1:

BE001	marital status
BE003	HOW MANY TIMES HAVE YOU BEEN MARRIED
BE004_1	Umarried
BE009_1	When was your most recent marriage year

Wave 2:

BE001	Marital Status
BE003	How Many Times Have You Been Married
BE003_W2_1	How Many Times Have You Been Married Since Last Interview

---

BE004_1	When Did You Get Married: Year
BE009_1	When Was Your Most Recent Marriage: Year
IYEAR	Interview Year

<b>Place of Birth</b>
-----------------------

Wave	Variable	Label	Type
1	RABPLACE_C	rabplace_c:r birth place	Categ
1	S1BPLACE_C	s1bplace_c:w1 s birth place	Categ
2	S2BPLACE_C	s2bplace_c:w2 s birth place	Categ
3	S3BPLACE_C	s3bplace_c:w3 s birth place	Categ
4	S4BPLACE_C	s4bplace_c:w4 s birth place	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RABPLACE_C	25192	1.64	0.67	1.00	4.00
S1BPLACE_C	14874	1.56	0.60	1.00	4.00
S2BPLACE_C	15547	1.57	0.63	1.00	4.00
S3BPLACE_C	17685	1.60	0.66	1.00	4.00
S4BPLACE_C	16096	1.60	0.66	1.00	4.00

### Categorical Variable Codes

Value-----	RABPLACE_C	S1BPLACE_C	S2BPLACE_C	S3BPLACE_C	S4BPLACE_C
.d:dk	2	17	1		
.m:missing	390	17	32	39	266
.r:refuse	2	2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
1.Interview place	11710	7406	7868	8810	7980
2.Another village/neighborhood, same pro	10752	6622	6528	7144	6582
3.Another village/neighborhood, other pr	2723	842	1147	1729	1531
4.Abroad	7	4	4	2	3

### How Constructed:

RABPLACE\_C indicates the respondent's birthplace. A code of 1 indicates the respondent was born in the interview place. A code 2 indicates the respondent was born in another village/neighborhood, same or different county/city but same province as the interview place. A code of 3 indicates the respondent was born in another province than interview place. A code of 4 indicates the respondent was born abroad. RABPLACE\_C takes the first non-missing report of place of birth provided by the respondent during any core interview wave.

Don't know, missing, or refused responses to RABPLACE\_C are assigned special missing codes (.d), (.m), (.r), respectively.

SwBPLACE\_C is the place of birth of the current wave's spouse. SwBPLACE\_C is taken from the spouse's value to RABPLACE\_C. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned. SwBPLACE\_C is set to plain missing (.) for respondents who did not respond to this wave.

### Cross Wave Differences in CHARLS

No differences known.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, CHARLS birthplace's question contains 4 codes. A code of 1 indicates the respondent was born in the interview place and a code 2 indicates the respondent was born in another village/neighborhood, same or different county/city but same province as the interview place. A code of 3 indicates the respondent was born in another province than interview place. A code of 4 indicates the respondent was born abroad.

### CHARLS Variables Used:

Wave 1:	
BB001	Birth Place
Wave 2:	
BB001	Where were You Born
Wave 3:	
BB001	Where Were You Born
Wave 4:	
BB001	Born Address

<b>Hukou Region</b>
---------------------

Wave	Variable	Label	Type
1	R1HUKOU	r1hukou:w1 r hukou status	Categ
2	R2HUKOU	r2hukou:w2 r hukou status	Categ
3	R3HUKOU	r3hukou:w3 r hukou status	Categ
4	R4HUKOU	r4hukou:w4 r hukou status	Categ
1	S1HUKOU	s1hukou:w1 s hukou status	Categ
2	S2HUKOU	s2hukou:w2 s hukou status	Categ
3	S3HUKOU	s3hukou:w3 s hukou status	Categ
4	S4HUKOU	s4hukou:w4 s hukou status	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HUKOU	17673	1.23	0.44	1.00	4.00
R2HUKOU	18551	1.25	0.46	1.00	4.00
R3HUKOU	18390	1.25	0.48	1.00	4.00
R4HUKOU	18123	1.26	0.51	1.00	4.00
S1HUKOU	14886	1.22	0.44	1.00	4.00
S2HUKOU	15532	1.24	0.46	1.00	4.00
S3HUKOU	15377	1.25	0.48	1.00	4.00
S4HUKOU	14868	1.26	0.51	1.00	4.00

### Categorical Variable Codes

Value	R1HUKOU	R2HUKOU	R3HUKOU	R4HUKOU
.d:dk	5			
.m:missing	28	61	2707	1693
.r:refuse	2			
1.Agricultural hukou	13694	14189	14207	13927
2.Non-agricultural hukou	3862	4145	3807	3680
3.Unified residence hukou	107	208	348	491
4.Do not have hukou	10	9	28	25

  

Value	S1HUKOU	S2HUKOU	S3HUKOU	S4HUKOU
.d:dk	3			
.m:missing	19	48	2347	1494
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Agricultural hukou	11652	11927	11925	11443
2.Non-agricultural hukou	3134	3424	3156	3001
3.Unified residence hukou	90	175	275	403
4.Do not have hukou	10	6	21	21

### How Constructed:

RwHUKOU indicates the respondent's hukou place and is a special identifier in China. Individuals who live in an urban district may have a rural hukou and vice versa. Hukou status affects many aspects of life in China such as buying a house, buying a car, children's school enrollment and other welfare. A code of 1 indicates the respondent has a agricultural hukou. A code of 2 indicates the respondent has a non-agricultural hukou. A code of 3 indicates the respondent has a unified residence hukou. A code of 4 indicates the respondent doesn't have hukou. In wave 1 and wave 2, respondents are asked to indicate their current Hukou status. In wave 3 and 4, if the respondent is a re-interview, the previously reported Hukou status is asked to be confirmed or disputed as their current status. If the respondent does not dispute the Hukou status from a previous wave, that value is assigned to current wave starting in Wave 3. If disputed, the respondent is asked what their Hukou type in the last interview was. If the respondent had only changed Hukou place or neither Hukou type nor place had changed since the last wave, this previous value is assigned to the current wave starting in Wave 3. Otherwise, respondents are assigned their current Hukou

status. Don't know, missing, or refused responses to RWHUKOU are assigned special missing codes (.d), (.m), (.r), respectively. RWHUKOU is set to plain missing (.) for respondents who did not respond to this wave.

SwHUKOU is the hukou status of the current wave's spouse. SwHUKOU is taken from the spouse's value to RWHUKOU. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

Note: There are around 1,000 re-interview respondents in wave 3 with missing values for RWHUKOU who disputed the previous wave hukou type but do not have a corrected type available.

## Cross Wave Differences in CHARLS

Wave 3 and 4 differ from wave 1 and 2 in that they incorporate a previously reported hukou status if confirmed by the re-interview respondent. Specifically, if the respondent is a re-interview, the previously reported Hukou status is asked to be confirmed or disputed as their current status. If the respondent does not dispute the Hukou status from a previous wave as their current Hukou status, that value is assigned to wave 3. If disputed, the respondent is asked what their Hukou type in the last interview was. If the respondent had only changed Hukou place or neither Hukou type nor place had changed since the last wave, this previous value is assigned to the current wave starting in wave 3.

## Differences with the RAND HRS/Harmonized HRS

This question is not asked in the HRS as it is specific to China.

### CHARLS Variables Used:

Wave 1:	
BC001	WHAT IS YOUR CURRENT HUKOU STATUS
Wave 2:	
BC001	What is Your Current Hukou Status
Wave 3:	
BC001_W3_1	Your Hukou Type and Your Hukou Location Are Right?
BC001_W3_2	What's Your Hukou Type in Last Interview
BC002_W3	Since [ZIWTime], Have Your Hukou Type and Location Changed
Wave 4:	
BC001_W3_1	Right or Not
BC001_W3_2	Hukou Type in Last Interview
BC002_W3	Hukou Type and Hukou Location Changed
BC002_W3_1	Current Hukou Type



<b>Live in Urban or Rural</b>
-------------------------------

Wave	Variable	Label	Type
1	H1RURAL	h1rural:w1 lives in rural or urban	Categ
2	H2RURAL	h2rural:w2 lives in rural or urban	Categ
3	H3RURAL	h3rural:w3 lives in rural or urban	Categ
4	H4RURAL	h4rural:w4 lives in rural or urban	Categ
1	R1RURAL2	r1rural2:w1 r rural hukou	Categ
2	R2RURAL2	r2rural2:w2 r rural hukou	Categ
3	R3RURAL2	r3rural2:w3 r rural hukou	Categ
4	R4RURAL2	r4rural2:w4 r rural hukou	Categ
1	S1RURAL2	s1rural2:w1 s rural hukou	Categ
2	S2RURAL2	s2rural2:w2 s rural hukou	Categ
3	S3RURAL2	s3rural2:w3 s rural hukou	Categ
4	S4RURAL2	s4rural2:w4 s rural hukou	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1RURAL	17708	0.60	0.49	0.00	1.00
H2RURAL	18612	0.60	0.49	0.00	1.00
H3RURAL	21097	0.59	0.49	0.00	1.00
H4RURAL	25586	0.56	0.50	0.00	1.00
R1RURAL2	17663	0.78	0.42	0.00	1.00
R2RURAL2	18542	0.77	0.42	0.00	1.00
R3RURAL2	18362	0.77	0.42	0.00	1.00
R4RURAL2	18098	0.77	0.42	0.00	1.00
S1RURAL2	14876	0.78	0.41	0.00	1.00
S2RURAL2	15526	0.77	0.42	0.00	1.00
S3RURAL2	15356	0.78	0.42	0.00	1.00
S4RURAL2	14847	0.77	0.42	0.00	1.00

### Categorical Variable Codes

Value-----	H1RURAL	H2RURAL	H3RURAL	H4RURAL
0.Urban Community	7171	7512	8562	11344
1.Rural Village	10537	11100	12535	14242
Value-----	R1RURAL2	R2RURAL2	R3RURAL2	R4RURAL2
.d:dk	5			
.m:missing	28	61	2707	1693
.n:No hukou	10	9	28	25
.r:refuse	2			
0.Urban hukou	3969	4353	4155	4171
1.Rural hukou	13694	14189	14207	13927
Value-----	S1RURAL2	S2RURAL2	S3RURAL2	S4RURAL2
.d:dk	3			
.m:missing	19	48	2347	1494
.n:No hukou	10	6	21	21
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.Urban hukou	3224	3599	3431	3404
1.Rural hukou	11652	11927	11925	11443

### How Constructed:

HwRURAL indicates the household living region. This variable is based on the information recorded in PSU file at the community level; that is, whether the region is rural or urban is defined by National Bureau of Statistics of the People's Republic of China. A code of 0 indicates the household is located in a rural region and a code of 1 indicates the household is located in an urban region.

RwRURAL2 identifies the respondent's living region by self-reported Hukou status. A code of 0 indicates the respondent has an urban hukou and a code of 1 indicates the respondent has a rural hukou.

Don't know, missing, or refused responses to RwRURAL2 is assigned special missing codes (.d), (.m), (.r), respectively. Special missing (.n) is assigned if the respondent has no hukou. RwRURAL2 is set to plain missing (.) for respondents who did not respond to this wave.

SwRURAL2 is the living region of the current wave's spouse and are taken from the spouse's values to RwRURAL2, respectively. If the respondent is not designated as coupled in the current wave a special missing value of (.u) is assigned. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of (.v) is assigned.

Note: There are around 1,000 re-interview respondents in wave 4 with missing values for RWRURAL2 who disputed the previous wave hukou type but do not have a corrected type available.

## Cross Wave Differences in CHARLS

RwRURAL2 is created using the harmonized variable RwhUKOU. Please reference RwhUKOU for RwhUKOU differences between waves.

## Differences with the RAND HRS/Harmonized HRS

RwRURAL2 is not available in RAND HRS as it is specific to China.

## CHARLS Variables Used:

### Wave 1:

BC001	WHAT IS YOUR CURRENT HUKOU STATUS
URBAN_NBS	Urban or Rural according to NBS

### Wave 2:

BC001	What is Your Current Hukou Status
URBAN_NBS	Urban or Rural according to NBS
XRTYPE	R Interview Type

### Wave 3:

BC001_W3_1	Your Hukou Type and Your Hukou Location Are Right?
BC001_W3_2	What's Your Hukou Type in Last Interview
BC002_W3	Since [ZIWTime], Have Your Hukou Type and Location Changed
XRTYPE	R Interview Type

### Wave 4:

BC001_W3_1	Right or Not
BC001_W3_2	Hukou Type in Last Interview
BC002_W3	Hukou Type and Hukou Location Changed
BC002_W3_1	Current Hukou Type
XRTYPE	Respondent Type

**Lives in Institution at Interview**

Wave	Variable	Label	Type
2	R2NHMLIV	r2nhmliv:w2 r lives in institution at interview	Categ
3	R3NHMLIV	r3nhmliv:w3 r Lives in institution at interview	Categ
4	R4NHMLIV	r4nhmliv:w4 r lives in institution at interview	Categ
2	S2NHMLIV	s2nhmliv:w2 s lives in institution at interview	Categ
3	S3NHMLIV	s3nhmliv:w3 s Lives in institution at interview	Categ
4	S4NHMLIV	s4nhmliv:w4 s lives in institution at interview	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R2NHMLIV	18582	0.00	0.03	0.00	1.00
R3NHMLIV	21052	0.00	0.05	0.00	1.00
R4NHMLIV	19816	0.00	0.06	0.00	1.00
S2NHMLIV	15556	0.00	0.02	0.00	1.00
S3NHMLIV	17682	0.00	0.04	0.00	1.00
S4NHMLIV	16362	0.00	0.05	0.00	1.00

**Categorical Variable Codes**

Value-----	R2NHMLIV	R3NHMLIV	R4NHMLIV
.m:missing	30	45	
0.No	18566	20999	19740
1.Yes	16	53	76

  

Value-----	S2NHMLIV	S3NHMLIV	S4NHMLIV
.m:missing	24	42	
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
0.No	15547	17658	16321
1.Yes	9	24	41

**How Constructed:**

While the CHARLS study population is restricted to the noninstitutionalized population, CHARLS does follow previously interviewed respondents into institutions such as nursing homes or hospitals.

RwNHMLIV indicates whether the respondent lives in a nursing home or hospital at the time of the interview. If the respondent lives in a nursing home or hospital at the time of the interview, then RwNHMLIV is coded as 1, if they lived in family housing or another type (other than family housing, nursing home, or hospital) RwNHMLIV is coded as 0. Don't know, refuse, and other missing responses to RwNHMLIV are set to special missing .d, .r, and .m, respectively. Responses are set to blank missing (.) when the respondent did not participate in the current wave.

SwNHMLIV indicates whether the respondent's spouse lived in a nursing home or hospital at the time of the interview and is taken directly from the respondent's spouse's values to RwNHMLIV. In addition to the special missing codes used in RwNHMLIV, SwNHMLIV employs the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

Since the CHARLS sample is restricted to the noninstitutionalized population, the first occurrence of a participant moving into a nursing home or hospital starts at Wave 2.

**Differences with the RAND HRS/Harmonized HRS**

The HRS identifies respondents as either living in a nursing home / other health care facility or living in a community. CHARLS asks interviewers to confirm whether the permanent address supplied by the respondent is family housing, a nursing home, a hospital, or other. HRS does not categorize any respondents as living in an "other" facility separate from their listed types.

**CHARLS Variables Used:**

Wave 2:		
	BB000_W2_2	Type of the Permanent Address
Wave 3:		
	BB001_W3_1	What's The Type of The Address
Wave 4:		
	BB001_W3_1	Type of Residential Address

## **Section B: Health**

<b>Self-report of Health</b>
------------------------------

Wave	Variable	Label	Type
1	R1SHLT	r1shlt:w1 r Self-report of health	Categ
2	R2SHLT	r2shlt:w2 r Self-report of health	Categ
3	R3SHLT	r3shlt:w3 r Self-report of health	Categ
1	S1SHLT	s1shlt:w1 s Self-report of health	Categ
2	S2SHLT	s2shlt:w2 s Self-report of health	Categ
3	S3SHLT	s3shlt:w3 s Self-report of health	Categ
1	R1SHLTF	r1shltf:w1 r Timing flag: self-report health	Categ
2	R2SHLTF	r2shltf:w2 r Timing flag: self-report health	Categ
3	R3SHLTF	r3shltf:w3 r Timing flag: self-report health	Categ
1	S1SHLTF	s1shltf:w1 s Timing flag: self-report health	Categ
2	S2SHLTF	s2shltf:w2 s Timing flag: self-report health	Categ
3	S3SHLTF	s3shltf:w3 s Timing flag: self-report health	Categ
1	R1SHLTA	r1shlta:w1 r Self-report of health alt	Categ
2	R2SHLTA	r2shlta:w2 r Self-report of health alt	Categ
3	R3SHLTA	r3shlta:w3 r Self-report of health alt	Categ
4	R4SHLTA	r4shlta:w4 r Self-report of health alt	Categ
1	S1SHLTA	s1shlta:w1 s Self-report of health alt	Categ
2	S2SHLTA	s2shlta:w2 s Self-report of health alt	Categ
3	S3SHLTA	s3shlta:w3 s Self-report of health alt	Categ
4	S4SHLTA	s4shlta:w4 s Self-report of health alt	Categ
1	R1SHLTAF	r1shltaf:w1 r Timing flag: self-report health alt	Categ
2	R2SHLTAF	r2shltaf:w2 r Timing flag: self-report health alt	Categ
3	R3SHLTAF	r3shltaf:w3 r Timing flag: self-report health alt	Categ
1	S1SHLTAF	s1shltaf:w1 s Timing flag: self-report health alt	Categ
2	S2SHLTAF	s2shltaf:w2 s Timing flag: self-report health alt	Categ
3	S3SHLTAF	s3shltaf:w3 s Timing flag: self-report health alt	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SHLT	12613	3.86	0.92	1.00	5.00
R2SHLT	17591	3.83	0.93	1.00	5.00
R3SHLT	19701	3.80	0.95	1.00	5.00
S1SHLT	10725	3.85	0.92	1.00	5.00
S2SHLT	14850	3.82	0.92	1.00	5.00
S3SHLT	16749	3.77	0.95	1.00	5.00
R1SHLTF	12622	1.31	0.46	1.00	2.00
R2SHLTF	17591	1.48	0.50	1.00	2.00
R3SHLTF	19701	1.50	0.50	1.00	2.00
S1SHLTF	10732	1.31	0.46	1.00	2.00
S2SHLTF	14850	1.48	0.50	1.00	2.00
S3SHLTF	16749	1.51	0.50	1.00	2.00
R1SHLTA	17561	3.03	0.92	1.00	5.00
R2SHLTA	17603	2.97	0.96	1.00	5.00
R3SHLTA	19698	2.89	0.99	1.00	5.00
R4SHLTA	18278	2.95	1.03	1.00	5.00
S1SHLTA	14846	3.01	0.92	1.00	5.00
S2SHLTA	14844	2.95	0.95	1.00	5.00
S3SHLTA	16751	2.87	0.98	1.00	5.00
S4SHLTA	15266	2.92	1.02	1.00	5.00

R1SHLTAF	17574	1.50	0.50	1.00	2.00
R2SHLTAF	17603	1.47	0.50	1.00	2.00
R3SHLTAF	19698	1.49	0.50	1.00	2.00
S1SHLTAF	14857	1.49	0.50	1.00	2.00
S2SHLTAF	14844	1.47	0.50	1.00	2.00
S3SHLTAF	16751	1.49	0.50	1.00	2.00

### Categorical Variable Codes

Value-----	R1SHLT	R2SHLT	R3SHLT	
.d:dk	8			
.m:missing	5086	1021	1396	
.r:refuse	1			
1.Excellent	106	241	279	
2.Very good	1146	1774	2374	
3.Good	2274	2512	2454	
4.Fair	5918	9232	10537	
5.Poor	3169	3832	4057	
Value-----	S1SHLT	S2SHLT	S3SHLT	
.d:dk	7			
.m:missing	4178	730	975	
.u:unmar	2260	2401	2719	
.v:sp nr	538	622	650	
1.Excellent	91	198	243	
2.Very good	980	1520	2095	
3.Good	1962	2128	2099	
4.Fair	5072	7858	9064	
5.Poor	2620	3146	3248	
Value-----	R1SHLTF	R2SHLTF	R3SHLTF	
.m:missing	5086	1021	1396	
1.Beginning of module	8717	9119	9767	
2.End of module	3905	8472	9934	
Value-----	S1SHLTF	S2SHLTF	S3SHLTF	
.m:missing	4178	730	975	
.u:unmar	2260	2401	2719	
.v:sp nr	538	622	650	
1.Beginning of module	7359	7688	8269	
2.End of module	3373	7162	8480	
Value-----	R1SHLTA	R2SHLTA	R3SHLTA	R4SHLTA
.d:dk	12			
.m:missing	134	1009	1399	1538
.r:refuse	1			
1.Very good	1099	1626	2439	2229
2.Good	3030	2530	2569	2348
3.Fair	8551	9126	10305	8938
4.Poor	4035	3399	3442	3687
5.Very Poor	846	922	943	1076
Value-----	S1SHLTA	S2SHLTA	S3SHLTA	S4SHLTA
.d:dk	10			
.m:missing	53	736	973	1096
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Very good	959	1400	2143	1928
2.Good	2590	2144	2179	1966
3.Fair	7281	7809	8896	7589
4.Poor	3326	2771	2800	2947
5.Very Poor	690	720	733	836
Value-----	R1SHLTAF	R2SHLTAF	R3SHLTAF	

.m:missing	134	7983	1399
1.Beginning of module	8867	9286	9952
2.End of module	8707	8317	9746
Value-----	S1SHLTAF	S2SHLTAF	S3SHLTAF
.m:missing	53	736	973
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.Beginning of module	7504	7797	8490
2.End of module	7353	7047	8261

## How Constructed:

CHARLS has two scales for respondents to self-report their current health condition. One of the scales ranges from 1 for Excellent to 5 for Poor. The other scale ranges from 1 for Very Good to 5 for Very Poor.

At Waves 1 to 3, respondents were asked their health status twice, once at the beginning of the health module and again at the end of the health module. At the beginning of the health module, respondents are randomly assigned into two groups; the first group of respondents is asked the first scale at the beginning and second scale at the end. The second group of respondents is asked the second scale at the beginning and the first scale at the end. Starting at Wave 4, respondents were only asked to self-report their current health condition at the beginning of the health module. Respondents are asked the second scale.

At Waves 1 to 3, RWSHLT is the respondent's self-reported general health status using the scale ranging from 1 for Excellent to 5 for Poor. When respondents don't know, are missing, or refuse to answer, RWSHLT is assigned special missing values (.d), (.m), or (.r), respectively. RWSHLT is set to plain missing (.) for respondents who did not respond to this wave.

At Waves 1 to 3, self-reported general health status on a scale from Excellent to Poor is asked either at the beginning or at the end of the Health module. RWSHLTF indicates this timing. Specifically, a code of 1 indicates that the respondent was asked RWSHLT at the beginning of the module. A code of 2 indicates that the respondent was asked RWSHLT at the end of the module. Starting at Wave 4, respondents are not asked to self-report their current health condition using the scale from Excellent to Poor. Therefore, RWSHLT and RWSHLTF are not available starting at Wave 4. RWSHLTF is set to plain missing (.) for respondents who did not respond to this wave.

SWSHLT is the respondent's spouse's self-reported general health status taken directly from the spouse's RWSHLT. SWSHLTF indicates whether the respondent's spouse was asked SWSHLT at the beginning or at the end of the module and is taken directly from the spouse's RWSHLTF. In addition to the special missing codes used in RWSHLT and RWSHLTF, SWSHLT and SWSHLTF employ special missing (.u) if the respondent did not report being coupled in the current wave, and the special missing value (.v) if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWSHLTA is the respondent's self-reported general health status ranging from 1 for Very Good to 5 for Very Poor. When respondents don't know, are missing, or refuse to answer, RWSHLTA is assigned special missing values (.d), (.m), or (.r), respectively. RWSHLTA is set to plain missing (.) for respondents who did not respond to this wave.

At Waves 1 to 3, self-reported general health status on a scale from Very Good to Very Poor is asked either at the beginning or at the end of the Health module. RWSHLTAF indicates this timing. A code of 1 indicates that the respondent was asked RWSHLTA at the beginning of the module. A code of 2 indicates that the respondent was asked RWSHLTA at the end of the module. Starting at Wave 4, respondents were only asked to self-report their current health condition in the beginning of the health module. Therefore, RWSHLTAF is not available starting at Wave 4. RWSHLTAF is set to plain missing (.) for respondents who did not respond to this wave.

SWSHLTA is the respondent's spouse's self-reported general health status taken directly from the spouse's RWSHLTA. SWSHLTAF indicates whether the respondent's spouse was asked SWSHLTA at the beginning or in the end of the health module and is taken directly from the spouse's RWSHLTAF. In addition to the special missing codes used in RWSHLTA and RWSHLTAF, SWSHLTA and SWSHLTAF employ special missing (.u) if the respondent did not report being coupled in the current wave, and the special missing value (.v) if the respondent reports being coupled in the current wave but their spouse is not interviewed.



## Cross Wave Differences in CHARLS

Due to routing error that happened in the Wave 1 questionnaire, some respondents answered the second scale of self-reported general health status twice and did not answer the first scale. In the case that respondents have two reports of the second scale of self-reported health status, only the first report at the beginning of the health module is used.

Starting at Wave 4, respondents were only asked to self-report their current health condition in the beginning of the health module. Respondents are asked the second scale.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, CHARLS respondents were assigned to either the beginning or end of the health module to answer RWSHLT. RWSHLTF indicates this timing.

Unlike the HRS, CHARLS also employs a second scale of self-reported general health status. RWSHLTA is the respondent's self-reported general health status using a scale ranging from Very Good to Very Poor.

## CHARLS Variables Used:

### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA079	Self Comment of Your Health By Comparing With Others
DA080	Self Comment of Your Health

### Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA079	Health Status(Self)
DA080	Self Comment of Your Health

### Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA079	Health Status(Self)
DA080	Self Comment of Your Health

### Wave 4:

DA002	Self-Reported Health Status
-------	-----------------------------

<b>Whether health limits work</b>
-----------------------------------

Wave	Variable	Label	Type
1	R1HLTHLM_C	r1hlthlm_c:w1 r missed work due to health	Categ
2	R2HLTHLM_C	r2hlthlm_c:w2 r missed work due to health	Categ
3	R3HLTHLM_C	r3hlthlm_c:w3 r missed work due to health	Categ
4	R4HLTHLM_C	r4hlthlm_c:w4 r missed work due to health	Categ
1	S1HLTHLM_C	s1hlthlm_c:w1 s health problems limit work	Categ
2	S2HLTHLM_C	s2hlthlm_c:w2 s health problems limit work	Categ
3	S3HLTHLM_C	s3hlthlm_c:w3 s health problems limit work	Categ
4	S4HLTHLM_C	s4hlthlm_c:w4 s health problems limit work	Categ
3	R3HLTHLM	r3hlthlm:w3 r health problems limit work	Categ
4	R4HLTHLM	r4hlthlm:w4 r health problems limit work	Categ
3	S3HLTHLM	s3hlthlm:w3 s health problems limit work	Categ
4	S4HLTHLM	s4hlthlm:w4 s health problems limit work	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HLTHLM_C	11491	0.31	0.46	0.00	1.00
R2HLTHLM_C	11944	0.33	0.47	0.00	1.00
R3HLTHLM_C	13143	0.32	0.47	0.00	1.00
R4HLTHLM_C	12568	0.34	0.47	0.00	1.00
S1HLTHLM_C	10351	0.30	0.46	0.00	1.00
S2HLTHLM_C	10632	0.33	0.47	0.00	1.00
S3HLTHLM_C	11797	0.32	0.46	0.00	1.00
S4HLTHLM_C	11133	0.33	0.47	0.00	1.00
R3HLTHLM	18374	0.15	0.36	0.00	1.00
R4HLTHLM	19721	0.36	0.48	0.00	1.00
S3HLTHLM	15976	0.14	0.35	0.00	1.00
S4HLTHLM	16340	0.33	0.47	0.00	1.00

### Categorical Variable Codes

Value-----	R1HLTHLM_C	R2HLTHLM_C	R3HLTHLM_C	R4HLTHLM_C
.d:dk	243			
.m:missing	299	637	1094	98
.r:refuse	1			
.w:Not working	5674	6032	6860	7150
0.No	7984	7972	8930	8292
1.Yes	3507	3972	4213	4276

Value-----	S1HLTHLM_C	S2HLTHLM_C	S3HLTHLM_C	S4HLTHLM_C
.d:dk	190			
.m:missing	167	423	785	19
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:Not working	4201	4525	5142	5210
0.No	7234	7138	8071	7410
1.Yes	3117	3494	3726	3723

Value-----	R3HLTHLM	R4HLTHLM
.m:missing	1433	95
.w:Too old for work	1290	
0.No	15586	12577
1.Yes	2788	7144

Value-----	S3HLTHLM	S4HLTHLM
.m:missing	993	22
.u:unmar	2719	2926
.v:sp nr	650	517
.w:Too old for work	755	
0.No	13694	10952
1.Yes	2282	5388

### How Constructed:

RwHLTHLM\_C indicates whether an impairment or health problem limits the kind or amount of work in the last year for the respondent. RwHLTHLM\_C is derived from a set of questions in CHARLS from the employment section. RwHLTHLM\_C is made up of the following questions:

1. How many days of work did you miss past year due to health problems? (household agricultural work)
2. How many days of work did you miss at this current job in the past year due to health problems? (employed work)
3. How many days of work did you miss in the past year due to health problems? (self-employed non-agricultural work)

If the respondent reports that health problems limited the kind or amount of work they can do within the last year, the respondent is assigned a code of 1. A code 0 indicates the respondent reports no impairment or health problem that limits the kind or amount of work in the last year.

RwHLTHLM\_C is set to special missing code (.w) if the respondent is not working, derived from variables within the employment section. Don't know, refused, or other missing values for RwHLTHLM\_C are assigned special missing (.d), (.r), (.m), respectively. RwHLTHLM\_C is set to plain missing (.) for respondents who did not respond to this wave.

SwHLTHLM\_C is the respondent's spouse's self-reported limitation in his or her ability to work because of health problems within the last year. SwHLTHLM\_C was taken directly from the spouse's RwHLTHLM\_C. SwHLTHLM\_C employs two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwHLTHLM indicates whether an impairment or health problem limits the kind or amount of work for the respondent. RwHLTHLM is available starting at Wave 3. At Wave 3, RwHLTHLM is made up of the follow question:

Are you unable to do some kind of work or cannot do that work for a long time because of a disability or health reasons?

Starting at Wave 4, RwHLTHLM is made up of the follow question:

Do you think the following description fits you: I cannot work because of my disability or health problems.

At Wave 3, special missing (.w) is assigned if the respondent self-reported they are too old to work. Don't know, refused, or other missing values for RwHLTHLM are assigned special missing (.d), (.r), (.m), respectively. RwHLTHLM is set to plain missing (.) for respondents who did not respond to this wave.

SwHLTHLM is the respondent's spouse's self-reported limitation in his or her ability to work because of health problems. SwHLTHLM was taken directly from the spouse's RwHLTHLM. SwHLTHLM employs two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

Starting at Wave 3, an additional question regarding work limitations due to health is included in the functional limitations section which asks "Are you unable to do some kind of work or cannot do

that work for a long time because of a disability or health reasons?". Starting at Wave 4 this question is modified and is asked as "Do you think the following description fits you: I cannot work because of my disability or health problems."

### Differences with the RAND HRS/Harmonized HRS

In the HRS, this question is asked directly in the health module as "Do you have any impairment or health problem that limits the kind or amount of paid work you can do?" This is only asked starting in wave 3 of CHARLS in the functional limitations section, thus RwhLTHLM is only included starting at wave 3. In the CHARLS, respondents are asked how many days of work were missed due to health problem in different types of work environments in the employment section in all waves (RwhLTHLM\_C).

### CHARLS Variables Used:

#### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC013	THE NUMBER OF DAYS MISSING LAST YEAR DUE TO HEALTH PROBLEMS
FD030	THE NUMBER OF DAYS OF WORK YOU MISSED
FH004	DAYS MISSING FOR HEALTH PROBLEMS

#### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC013	Days No Work due to Health Problems
FD030	Days of Sick Leave
FH004	Days of Sick leave
XF1	Preload Work Variable

#### Wave 3:

DB036_W3	Can't Do Specific Work For Long Time Because of Disabilities or
FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FC013	Days No Work due to Health Problems
FD030	Days of Sick Leave
FH004	Days of Sick leave

#### Wave 4:

FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FC001	Farm Employed or Not
FC013	Days Not Working due to Health Problems
FD030	Days of Sick Leaves
FH004	Days of Sick Leave

<b>Activities of daily living (ADLs): Some difficulty</b>
---

Wave	Variable	Label	Type
1	R1DRESSA	r1dressa:w1 r Some Diff-Dressing	Categ
2	R2DRESSA	r2dressa:w2 r Some Diff-Dressing	Categ
3	R3DRESSA	r3dressa:w3 r Some Diff-Dressing	Categ
4	R4DRESSA	r4dressa:w4 r Some Diff-Dressing	Categ
1	S1DRESSA	s1dressa:w1 s Some Diff-Dressing	Categ
2	S2DRESSA	s2dressa:w2 s Some Diff-Dressing	Categ
3	S3DRESSA	s3dressa:w3 s Some Diff-Dressing	Categ
4	S4DRESSA	s4dressa:w4 s Some Diff-Dressing	Categ
1	R1BATHA	r1batha:w1 r Some Diff-Bathing, shower	Categ
2	R2BATHA	r2batha:w2 r Some Diff-Bathing, shower	Categ
3	R3BATHA	r3batha:w3 r Some Diff-Bathing, shower	Categ
4	R4BATHA	r4batha:w4 r Some Diff-Bathing, shower	Categ
1	S1BATHA	s1batha:w1 s Some Diff-Bathing, shower	Categ
2	S2BATHA	s2batha:w2 s Some Diff-Bathing, shower	Categ
3	S3BATHA	s3batha:w3 s Some Diff-Bathing, shower	Categ
4	S4BATHA	s4batha:w4 s Some Diff-Bathing, shower	Categ
1	R1EATA	r1eata:w1 r Some Diff-Eating	Categ
2	R2EATA	r2eata:w2 r Some Diff-Eating	Categ
3	R3EATA	r3eata:w3 r Some Diff-Eating	Categ
4	R4EATA	r4eata:w4 r Some Diff-Eating	Categ
1	S1EATA	s1eata:w1 s Some Diff-Eating	Categ
2	S2EATA	s2eata:w2 s Some Diff-Eating	Categ
3	S3EATA	s3eata:w3 s Some Diff-Eating	Categ
4	S4EATA	s4eata:w4 s Some Diff-Eating	Categ
1	R1BEDA	r1beda:w1 r Some Diff-Get in/out bed	Categ
2	R2BEDA	r2beda:w2 r Some Diff-Get in/out bed	Categ
3	R3BEDA	r3beda:w3 r Some Diff-Get in/out bed	Categ
4	R4BEDA	r4beda:w4 r Some Diff-Get in/out bed	Categ
1	S1BEDA	s1beda:w1 s Some Diff-Get in/out bed	Categ
2	S2BEDA	s2beda:w2 s Some Diff-Get in/out bed	Categ
3	S3BEDA	s3beda:w3 s Some Diff-Get in/out bed	Categ
4	S4BEDA	s4beda:w4 s Some Diff-Get in/out bed	Categ
1	R1TOILTA	r1toilta:w1 r Some Diff-Using the toilet	Categ
2	R2TOILTA	r2toilta:w2 r Some Diff-Using the toilet	Categ
3	R3TOILTA	r3toilta:w3 r Some Diff-Using the toilet	Categ
4	R4TOILTA	r4toilta:w4 r Some Diff-Using the toilet	Categ
1	S1TOILTA	s1toilta:w1 s Some Diff-Using the toilet	Categ
2	S2TOILTA	s2toilta:w2 s Some Diff-Using the toilet	Categ
3	S3TOILTA	s3toilta:w3 s Some Diff-Using the toilet	Categ
4	S4TOILTA	s4toilta:w4 s Some Diff-Using the toilet	Categ
1	R1URINA	r1urina:w1 r Some Diff-controlling urination and defecation	Categ
2	R2URINA	r2urina:w2 r Some Diff-controlling urination and defecation	Categ
3	R3URINA	r3urina:w3 r Some Diff-controlling urination and defecation	Categ
4	R4URINA	r4urina:w4 r Some Diff-controlling urination and defecation	Categ
1	S1URINA	s1urina:w1 s Some Diff-controlling urination and defecation	Categ
2	S2URINA	s2urina:w2 s Some Diff-controlling urination and defecation	Categ
3	S3URINA	s3urina:w3 s Some Diff-controlling urination and defecation	Categ
4	S4URINA	s4urina:w4 s Some Diff-controlling urination and defecation	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
----------	---	------	---------	---------	---------

R1DRESSA	17359	0.05	0.22	0.00	1.00
R2DRESSA	18240	0.05	0.22	0.00	1.00
R3DRESSA	20192	0.06	0.24	0.00	1.00
R4DRESSA	19455	0.07	0.26	0.00	1.00
S1DRESSA	14681	0.05	0.21	0.00	1.00
S2DRESSA	15344	0.05	0.21	0.00	1.00
S3DRESSA	16982	0.05	0.23	0.00	1.00
S4DRESSA	16094	0.06	0.24	0.00	1.00
R1BATHA	17349	0.07	0.25	0.00	1.00
R2BATHA	18218	0.07	0.25	0.00	1.00
R3BATHA	20167	0.08	0.27	0.00	1.00
R4BATHA	19454	0.09	0.28	0.00	1.00
S1BATHA	14674	0.06	0.23	0.00	1.00
S2BATHA	15329	0.06	0.23	0.00	1.00
S3BATHA	16968	0.07	0.25	0.00	1.00
S4BATHA	16093	0.07	0.26	0.00	1.00
R1EATA	17362	0.03	0.17	0.00	1.00
R2EATA	18240	0.02	0.15	0.00	1.00
R3EATA	20191	0.03	0.16	0.00	1.00
R4EATA	19454	0.03	0.16	0.00	1.00
S1EATA	14682	0.03	0.16	0.00	1.00
S2EATA	15343	0.02	0.14	0.00	1.00
S3EATA	16983	0.02	0.15	0.00	1.00
S4EATA	16093	0.02	0.15	0.00	1.00
R1BEDA	17360	0.06	0.23	0.00	1.00
R2BEDA	18239	0.06	0.23	0.00	1.00
R3BEDA	20187	0.07	0.25	0.00	1.00
R4BEDA	19454	0.07	0.26	0.00	1.00
S1BEDA	14681	0.05	0.21	0.00	1.00
S2BEDA	15343	0.05	0.22	0.00	1.00
S3BEDA	16980	0.06	0.24	0.00	1.00
S4BEDA	16093	0.06	0.24	0.00	1.00
R1TOILTA	17360	0.12	0.32	0.00	1.00
R2TOILTA	18238	0.12	0.32	0.00	1.00
R3TOILTA	20186	0.13	0.34	0.00	1.00
R4TOILTA	19454	0.12	0.32	0.00	1.00
S1TOILTA	14680	0.11	0.31	0.00	1.00
S2TOILTA	15342	0.11	0.31	0.00	1.00
S3TOILTA	16979	0.12	0.32	0.00	1.00
S4TOILTA	16093	0.10	0.30	0.00	1.00
R1URINA	17356	0.04	0.20	0.00	1.00
R2URINA	18215	0.04	0.20	0.00	1.00
R3URINA	20169	0.05	0.21	0.00	1.00
R4URINA	19454	0.05	0.21	0.00	1.00
S1URINA	14677	0.04	0.19	0.00	1.00
S2URINA	15328	0.04	0.19	0.00	1.00
S3URINA	16970	0.04	0.20	0.00	1.00
S4URINA	16093	0.04	0.19	0.00	1.00

### Categorical Variable Codes

Value-----	R1DRESSA	R2DRESSA	R3DRESSA	R4DRESSA
.a:Healthy and young	7	64	578	242
.d:dk	4			
.m:missing	338	308	327	119

## Section B: Health

86

0.No	16453	17299	18957	18076
1.Yes	906	941	1235	1379
Value-----	S1DRESSA	S2DRESSA	S3DRESSA	S4DRESSA
.a:Healthy and young	5	61	539	223
.d:dk	1			
.m:missing	223	175	203	45
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	14013	14629	16059	15118
1.Yes	668	715	923	976
Value-----	R1BATHA	R2BATHA	R3BATHA	R4BATHA
.a:Healthy and young	7	64	578	242
.d:dk	13			
.m:missing	338	330	352	120
.r:refuse	1			
0.No	16168	17002	18627	17779
1.Yes	1181	1216	1540	1675
Value-----	S1BATHA	S2BATHA	S3BATHA	S4BATHA
.a:Healthy and young	5	61	539	223
.d:dk	7			
.m:missing	223	190	217	46
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13824	14457	15865	14965
1.Yes	850	872	1103	1128
Value-----	R1EATA	R2EATA	R3EATA	R4EATA
.a:Healthy and young	7	64	578	242
.d:dk	1			
.m:missing	338	308	328	120
0.No	16831	17819	19660	18912
1.Yes	531	421	531	542
Value-----	S1EATA	S2EATA	S3EATA	S4EATA
.a:Healthy and young	5	61	539	223
.m:missing	223	176	202	46
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	14308	15027	16599	15727
1.Yes	374	316	384	366
Value-----	R1BEDA	R2BEDA	R3BEDA	R4BEDA
.a:Healthy and young	7	64	578	242
.d:dk	1			
.m:missing	338	309	332	120
.r:refuse	2			
0.No	16387	17192	18779	18043
1.Yes	973	1047	1408	1411
Value-----	S1BEDA	S2BEDA	S3BEDA	S4BEDA
.a:Healthy and young	5	61	539	223
.m:missing	223	176	205	46
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13986	14580	15941	15114
1.Yes	695	763	1039	979
Value-----	R1TOILTA	R2TOILTA	R3TOILTA	R4TOILTA
.a:Healthy and young	7	64	578	242
.d:dk	2			
.m:missing	339	310	333	120
0.No	15347	16093	17518	17205
1.Yes	2013	2145	2668	2249

Value-----	S1TOILTA	S2TOILTA	S3TOILTA	S4TOILTA
.a:Healthy and young	5	61	539	223
.d:dk	1			
.m:missing	224	177	206	46
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13133	13723	14979	14455
1.Yes	1547	1619	2000	1638

Value-----	R1URINA	R2URINA	R3URINA	R4URINA
.a:Healthy and young	7	64	578	242
.d:dk	6			
.m:missing	339	333	350	120
0.No	16599	17478	19253	18546
1.Yes	757	737	916	908

Value-----	S1URINA	S2URINA	S3URINA	S4URINA
.a:Healthy and young	5	61	539	223
.d:dk	4			
.m:missing	224	191	215	46
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	14096	14771	16289	15457
1.Yes	581	557	681	636

### How Constructed:

These variables pertain to questions regarding Activities of Daily Living (ADLs) and whether the respondent experiences some difficulty performing said tasks. This line of questioning is not asked to respondents who are younger than 50 and report good health as jointly defined by self-reported positive health and no self-reported disabilities. The ADLs included are dressing (RwDRESSA), bathing and showering (RwBATHA), eating (RwEATA), getting in and out of bed (RwBEDA), using the toilet (RwTOILTA) and controlling urination and defecation (RwURINA).

A code of 0 indicates that the respondent did not report any problems with the activity. A code of 1 indicates that the respondent reported some difficulty with the activity or could not do the activity. RwDRESSA, RwBATHA, RWEATA, RwbEDA, RwTOILTA and RwURINA are set to special missing (.a) if the activities of daily living questions were skipped because the respondent is younger than 50 and healthy. Don't know, refused, or other missing responses to RwDRESSA, RwBATHA, RWEATA, RwbEDA, RwTOILTA and RwURINA are assigned special missing values (.d), (.r), (.m) respectively. RwDRESSA, RwBATHA, RWEATA, RwbEDA, RwTOILTA and RwURINA are set to plain missing (.) for respondents who did not respond to this wave.

SwDRESSA, SwBATHA, SwEATA, SwBEDA, SwTOILTA and SwURINA indicate whether the respondent's spouse reported any difficulty and are taken directly from the spouse's RwDRESSA, RwBATHA, RWEATA, RwbEDA, RwTOILTA and RwURINA, respectively. In addition to the special missing codes used in RwDRESSA, RwBATHA, RWEATA, RwbEDA, RwTOILTA and RwURINA, SwDRESSA, SwBATHA, SwEATA, SwBEDA, SwTOILTA and SwURINA employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

No differences known.

### Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, the binary indicators of some difficulty with ADL's are recoded from no, yes or can't do. If the respondent answers yes or can't do to whether they have any difficulty with an activity, the variable is set to 1 for some difficulty. If the respondent answers no, the variable is set to 0 for no difficulty.

In the CHARLS, these variables are recoded from 1.) No, I don't have any difficulty, 2.) I have difficulty but can still do it, 3.) Yes, I have difficulty and need help, and 4.) I cannot do it. If the respondent answers 2, 3 or 4 to any difficulty with an activity, the variable is set to 1 for some difficulty. If the respondent answers 1, the variable is set to 0 for no difficulty.



Unlike the HRS, CHARLS does not include the activity of walking across a room in their ADL questions and exclude any difficulty that lasts less than 3 months. CHARLS also includes an additional ADL questions that asks whether there is difficulty controlling urination and defecation.

### CHARLS Variables Used:

#### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB001	Have Difficulty Running or Jogging About 1 Km
DB003	Have Difficulty Walking 100 Metres
DB004	Have Difficulty Getting Up From A Chair After Sitting for Long
DB005	Have Difficulty Climbing Several Flights of Stairs Without Rest
DB006	Have Difficulty Stooping,Kneeling,or Crouching
DB007	Have Difficulty Reaching or Extending Your Arms Above Shoulder
DB008	Have Difficulty Lifting or Carrying Weights Over 10 Jin
DB009	Have Difficulty Picking Up A Small Coin From A Table
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation

#### Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease

DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB001	Running or Jogging about 1 Km
DB002	Walkinf 1 Km
DB003	Walking 100 Metres
DB004	Difficulty with Sitting
DB005	Difficulty with Climbing
DB006	Difficulty with Stooping, Kneeling, Crouching
DB007	Difficulty with Reaching or Extending
DB008	Difficulty with Lifting
DB009	Difficulty with Picking up
DB010	Difficulty with Dressing
DB011	Difficulty with Bathing or Showering
DB012	Difficulty with Eating
DB013	Difficulty with Getting Into or Out of Bed
DB014	Difficulty with Using The Toilet
DB015	Difficulty with Controlling Urination and Defecation
XRTYPE	R Interview Type
Wave 3:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB001	Running or Jogging about 1 Km
DB002	Walking 1 Km
DB003	Walking 100 Metres
DB004	Difficulty with Sitting
DB005	Difficulty with Climbing
DB006	Difficulty with Stooping, Kneeling, Crouching
DB007	Difficulty with Reaching or Extending
DB008	Difficulty with Lifting
DB009	Difficulty with Picking up
DB010	Difficulty with Dressing
DB011	Difficulty with Bathing or Showering
DB012	Difficulty with Eating
DB013	Difficulty with Getting Into or Out of Bed
DB014	Difficulty with Using The Toilet
DB015	Difficulty with Controlling Urination and Defecation
XRTYPE	R Interview Type
Wave 4:	
DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor

---

DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB001	Difficulty with Running or Jogging about 1Km
DB004	Difficulty with Getting up from a Chair
DB005	Difficulty with Climbing Several Flights of Stairs Without Rest
DB006	Difficulty with Stooping, Kneeling, or Crouching
DB007	Difficulty with Reaching or Extending Your arms
DB008	Difficulty with Lifting or Carrying Weights over 10 Jin
DB009	Difficulty with Picking up a Small Coin
DB010	Difficulty with Dressing
DB011	Difficulty with Bathing or Showering
DB012	Difficulty with Eating
DB013	Difficulty with Getting into or out of Bed
DB014	Difficulty with Using the Toilet
DB015	Difficulty with Controlling Urination and Defecation

<b>Instrumental activities of daily living (IADLs): Some difficulty</b>
---

Wave	Variable	Label	Type
1	R1MONEYA	r1moneya:w1 r Some Diff-Managing money	Categ
2	R2MONEYA	r2moneya:w2 r Some Diff-Managing money	Categ
3	R3MONEYA	r3moneya:w3 r Some Diff-Managing money	Categ
4	R4MONEYA	r4moneya:w4 r Some Diff-Managing money	Categ
1	S1MONEYA	s1moneya:w1 s Some Diff-Managing money	Categ
2	S2MONEYA	s2moneya:w2 s Some Diff-Managing money	Categ
3	S3MONEYA	s3moneya:w3 s Some Diff-Managing money	Categ
4	S4MONEYA	s4moneya:w4 s Some Diff-Managing money	Categ
1	R1MEDSA	r1medsa:w1 r Some Diff-Take medications	Categ
2	R2MEDSA	r2medsa:w2 r Some Diff-Take medications	Categ
3	R3MEDSA	r3medsa:w3 r Some Diff-Take medications	Categ
4	R4MEDSA	r4medsa:w4 r Some Diff-Take medications	Categ
1	S1MEDSA	s1medsa:w1 s Some Diff-Take medications	Categ
2	S2MEDSA	s2medsa:w2 s Some Diff-Take medications	Categ
3	S3MEDSA	s3medsa:w3 s Some Diff-Take medications	Categ
4	S4MEDSA	s4medsa:w4 s Some Diff-Take medications	Categ
1	R1SHOPA	r1shopa:w1 r Some Diff-Shop for grocery	Categ
2	R2SHOPA	r2shopa:w2 r Some Diff-Shop for grocery	Categ
3	R3SHOPA	r3shopa:w3 r Some Diff-Shop for grocery	Categ
4	R4SHOPA	r4shopa:w4 r Some Diff-Shop for grocery	Categ
1	S1SHOPA	s1shopa:w1 s Some Diff-Shop for grocery	Categ
2	S2SHOPA	s2shopa:w2 r Some Diff-Shop for grocery	Categ
3	S3SHOPA	s3shopa:w3 r Some Diff-Shop for grocery	Categ
4	S4SHOPA	s4shopa:w4 r Some Diff-Shop for grocery	Categ
1	R1MEALSA	r1mealsa:w1 r Some Diff-Prepare hot meal	Categ
2	R2MEALSA	r2mealsa:w2 r Some Diff-Prepare hot meal	Categ
3	R3MEALSA	r3mealsa:w3 r Some Diff-Prepare hot meal	Categ
4	R4MEALSA	r4mealsa:w4 r Some Diff-Prepare hot meal	Categ
1	S1MEALSA	s1mealsa:w1 s Some Diff-Prepare hot meal	Categ
2	S2MEALSA	s2mealsa:w2 s Some Diff-Prepare hot meal	Categ
3	S3MEALSA	s3mealsa:w3 s Some Diff-Prepare hot meal	Categ
4	S4MEALSA	s4mealsa:w4 s Some Diff-Prepare hot meal	Categ
1	R1HOUSEWKA	r1housewka:w1 r Some Diff-cleaning house	Categ
2	R2HOUSEWKA	r2housewka:w2 r Some Diff-cleaning house	Categ
3	R3HOUSEWKA	r3housewka:w3 r Some Diff-cleaning house	Categ
4	R4HOUSEWKA	r4housewka:w4 r Some Diff-cleaning house	Categ
1	S1HOUSEWKA	s1housewka:w1 s Some Diff-cleaning house	Categ
2	S2HOUSEWKA	s2housewka:w2 s Some Diff-cleaning house	Categ
3	S3HOUSEWKA	s3housewka:w3 s Some Diff-cleaning house	Categ
4	S4HOUSEWKA	s4housewka:w4 s Some Diff-cleaning house	Categ
2	R2PHONEA	r2phonea:w2 r Some Diff-Use telephone	Categ
3	R3PHONEA	r3phonea:w3 r Some Diff-Use telephone	Categ
4	R4PHONEA	r4phonea:w4 r Some Diff-Use telephone	Categ
2	S2PHONEA	s2phonea:w2 s Some Diff-Use telephone	Categ
3	S3PHONEA	s3phonea:w3 s Some Diff-Use telephone	Categ
4	S4PHONEA	s4phonea:w4 s Some Diff-Use telephone	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MONEYA	17502	0.13	0.33	0.00	1.00

R2MONEYA	18243	0.11	0.31	0.00	1.00
R3MONEYA	20784	0.11	0.31	0.00	1.00
R4MONEYA	19721	0.12	0.32	0.00	1.00
S1MONEYA	14810	0.12	0.32	0.00	1.00
S2MONEYA	15360	0.10	0.30	0.00	1.00
S3MONEYA	17562	0.10	0.29	0.00	1.00
S4MONEYA	16340	0.11	0.31	0.00	1.00
R1MEDSA	17521	0.07	0.25	0.00	1.00
R2MEDSA	18342	0.05	0.22	0.00	1.00
R3MEDSA	20862	0.05	0.22	0.00	1.00
R4MEDSA	19721	0.06	0.23	0.00	1.00
S1MEDSA	14829	0.06	0.24	0.00	1.00
S2MEDSA	15452	0.04	0.20	0.00	1.00
S3MEDSA	17626	0.04	0.20	0.00	1.00
S4MEDSA	16340	0.05	0.22	0.00	1.00
R1SHOPA	17522	0.09	0.29	0.00	1.00
R2SHOPA	18317	0.09	0.28	0.00	1.00
R3SHOPA	20843	0.09	0.28	0.00	1.00
R4SHOPA	19721	0.10	0.29	0.00	1.00
S1SHOPA	14828	0.08	0.27	0.00	1.00
S2SHOPA	15430	0.07	0.26	0.00	1.00
S3SHOPA	17610	0.07	0.26	0.00	1.00
S4SHOPA	16340	0.08	0.27	0.00	1.00
R1MEALSA	17536	0.09	0.29	0.00	1.00
R2MEALSA	18308	0.09	0.29	0.00	1.00
R3MEALSA	20846	0.09	0.29	0.00	1.00
R4MEALSA	19721	0.11	0.32	0.00	1.00
S1MEALSA	14838	0.08	0.27	0.00	1.00
S2MEALSA	15414	0.08	0.27	0.00	1.00
S3MEALSA	17601	0.08	0.27	0.00	1.00
S4MEALSA	16340	0.10	0.30	0.00	1.00
R1HOUSEWKA	17535	0.10	0.29	0.00	1.00
R2HOUSEWKA	18348	0.11	0.31	0.00	1.00
R3HOUSEWKA	20889	0.13	0.33	0.00	1.00
R4HOUSEWKA	19721	0.15	0.35	0.00	1.00
S1HOUSEWKA	14837	0.08	0.28	0.00	1.00
S2HOUSEWKA	15450	0.10	0.29	0.00	1.00
S3HOUSEWKA	17640	0.11	0.31	0.00	1.00
S4HOUSEWKA	16340	0.13	0.33	0.00	1.00
R2PHONEA	17423	0.13	0.34	0.00	1.00
R3PHONEA	20004	0.12	0.32	0.00	1.00
R4PHONEA	18574	0.11	0.32	0.00	1.00
S2PHONEA	14860	0.11	0.31	0.00	1.00
S3PHONEA	17086	0.10	0.30	0.00	1.00
S4PHONEA	15617	0.09	0.29	0.00	1.00

### Categorical Variable Codes

Value-----	R1MONEYA	R2MONEYA	R3MONEYA	R4MONEYA
.d:dk	48			
.m:missing	153	369	313	95
.r:refuse	5			
0.No	15254	16307	18598	17417
1.Yes	2248	1936	2186	2304
Value-----	S1MONEYA	S2MONEYA	S3MONEYA	S4MONEYA

.d:dk	37			
.m:missing	59	220	162	22
.r:refuse	4			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13100	13860	15877	14605
1.Yes	1710	1500	1685	1735
Value-----	R1MEDSA	R2MEDSA	R3MEDSA	R4MEDSA
.d:dk	30			
.m:missing	153	270	235	95
.r:refuse	4			
0.No	16298	17418	19812	18567
1.Yes	1223	924	1050	1154
Value-----	S1MEDSA	S2MEDSA	S3MEDSA	S4MEDSA
.d:dk	19			
.m:missing	59	128	98	22
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13911	14782	16871	15515
1.Yes	918	670	755	825
Value-----	R1SHOPA	R2SHOPA	R3SHOPA	R4SHOPA
.d:dk	28			
.m:missing	153	295	254	95
.r:refuse	5			
0.No	15886	16749	19055	17825
1.Yes	1636	1568	1788	1896
Value-----	S1SHOPA	S2SHOPA	S3SHOPA	S4SHOPA
.d:dk	19			
.m:missing	59	150	114	22
.r:refuse	4			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13643	14280	16343	15031
1.Yes	1185	1150	1267	1309
Value-----	R1MEALSA	R2MEALSA	R3MEALSA	R4MEALSA
.d:dk	15			
.m:missing	153	304	251	95
.r:refuse	4			
0.No	15939	16622	18902	17467
1.Yes	1597	1686	1944	2254
Value-----	S1MEALSA	S2MEALSA	S3MEALSA	S4MEALSA
.d:dk	10			
.m:missing	59	166	123	22
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13675	14175	16163	14746
1.Yes	1163	1239	1438	1594
Value-----	R1HOUSEWKA	R2HOUSEWKA	R3HOUSEWKA	R4HOUSEWKA
.d:dk	15			
.m:missing	153	264	208	95
.r:refuse	5			
0.No	15856	16360	18263	16814
1.Yes	1679	1988	2626	2907
Value-----	S1HOUSEWKA	S2HOUSEWKA	S3HOUSEWKA	S4HOUSEWKA
.d:dk	10			
.m:missing	59	130	84	22
.r:refuse	4			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517

0.No	13614	13979	15703	14297
1.Yes	1223	1471	1937	2043
Value-----		R2PHONEA	R3PHONEA	R4PHONEA
.m:missing		284	256	95
.n:No phone		905	837	1147
0.No		15126	17652	16480
1.Yes		2297	2352	2094
Value-----		S2PHONEA	S3PHONEA	S4PHONEA
.m:missing		149	121	22
.n:No phone		571	517	723
.u:unmar		2401	2719	2926
.v:sp nr		622	650	517
0.No		13211	15439	14152
1.Yes		1649	1647	1465

## How Constructed:

These variables pertain to questions regarding Instrumental Activities of Daily Living (IADLs) and whether the respondent experiences any difficulty performing said tasks.

The IADLs included are managing money (RwMONEYA), taking medications (RwMEDSA), shopping for groceries (RwSHOPA), preparing meals (RwMEALSA), cleaning house (RwHOUSEWKA) and making phone calls (RwPHONEA).

A code of 0 indicates that the respondent did not report any problems with the instrumental activity or that the respondent was not asked the question because they previously reported no difficulty jogging, getting up from chair, climbing, stooping, reaching, lifting/carrying, and picking up a coin. A code of 1 indicates that the respondent reported some difficulty with the activity or could not do the activity. Special missing (.n) is assigned to RwPHONEA if a respondent has no phone. Don't know, refused, or other missing responses to RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are assigned special missing values (.d), (.r), (.m) respectively. RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are set to plain missing (.) for respondents who did not respond to this wave.

SwMONEYA, SwMEDSA, SwSHOPA, SwMEALSA, SwHOUSEWKA and SwPHONEA indicate whether the respondent's spouse reported any difficulty and are taken directly from the spouse's RwMONEYA, RwMEDSA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA respectively. In addition to the special missing codes used in RwMONEYA, RwMEDSA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA, SwMONEYA, SwMEDSA, SwSHOPA, SwMEALSA, SwHOUSEWKA and SwPHONEA employ two additional missing codes, (.u) and .v. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Questions related to making telephone calls are asked starting at Wave 2.

## Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, the binary indicators of some difficulty with IADL's are recoded from no, yes or can't do. If the respondent answers yes or can't do to whether they have any difficulty with an activity, the variable is set to 1 for some difficulty. If respondent answers no, the variable is set to 0 for no difficulty.

In the CHARLS, these variables are recoded from 1.) No, I don't have any difficulty, 2.) I have difficulty but can still do it, 3.) Yes, I have difficulty and need help and 4.) I can not do it. If respondent answers 2, 3 or 4 to any difficulty with an activity, the variable is set to 1 for some difficulty. If respondent answers 1, the variable is set to 0 for no difficulty.

## CHARLS Variables Used:

Wave 1:

DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory

DB019 Have Any Difficulty With Managing Assets Because of Health And  
DB020 Have Any Difficulty With Taking Medications Because of Health A

## Wave 2:

DB016 Difficulty with Doing Household Chores  
DB017 Difficulty with Preparing Hot Meals  
DB018 Difficulty with Shopping for Groceries  
DB019 Difficulty with Managing Your Money  
DB020 Difficulty with Taking Medications  
DB035 Difficulties with Making Phone Calls?

## Wave 3:

DB016 Difficulty with Doing Household Chores  
DB017 Difficulty with Preparing Hot Meals  
DB018 Difficulty with Shopping for Groceries  
DB019 Difficulty with Managing Your Money  
DB020 Difficulty with Taking Medications  
DB035 Difficulties with Making Phone Calls?

## Wave 4:

DB016 Difficulty with Household Chores  
DB017 Difficulty with Preparing Hot Meals  
DB018 Difficulty with Shopping for Groceries  
DB019 Difficulty with Managing Money  
DB020 Difficulty with Taking Medications  
DB035 Difficulty with Making Phone Calls



<b>Other Functional Limitations: Some difficulty</b>
--

Wave	Variable	Label	Type
1	R1JOGA	r1joga:w1 r Some Diff-Jog 1km	Categ
2	R2JOGA	r2joga:w2 r Some Diff-Jog 1km	Categ
3	R3JOGA	r3joga:w3 r Some Diff-Jog 1km	Categ
4	R4JOGA	r4joga:w4 r Some Diff-Jog 1km	Categ
1	S1JOGA	s1joga:w1 s Some Diff-Jog 1km	Categ
2	S2JOGA	s2joga:w2 s Some Diff-Jog 1km	Categ
3	S3JOGA	s3joga:w3 s Some Diff-Jog 1km	Categ
4	S4JOGA	s4joga:w4 s Some Diff-Jog 1km	Categ
1	R1WALK1KMA	r1walk1kma:w1 r Some Diff-Walk 1km	Categ
2	R2WALK1KMA	r2walk1kma:w2 r Some Diff-Walk 1km	Categ
3	R3WALK1KMA	r3walk1kma:w3 r Some Diff-Walk 1km	Categ
4	R4WALK1KMA	r4walk1kma:w4 r Some Diff-Walk 1km	Categ
1	S1WALK1KMA	s1walk1kma:w1 s Some Diff-Walk 1km	Categ
2	S2WALK1KMA	s2walk1kma:w2 s Some Diff-Walk 1km	Categ
3	S3WALK1KMA	s3walk1kma:w3 s Some Diff-Walk 1km	Categ
4	S4WALK1KMA	s4walk1kma:w4 s Some Diff-Walk 1km	Categ
1	R1WALK100A	r1walk100a:w1 r Some Diff-Walk 100m	Categ
2	R2WALK100A	r2walk100m:w2 r Some Diff-Walk 100m	Categ
3	R3WALK100A	r3walk100m:w3 r Some Diff-Walk 100m	Categ
4	R4WALK100A	r4walk100m:w4 r Some Diff-Walk 100m	Categ
1	S1WALK100A	s1walk100a:w1 s Some Diff-Walk 100m	Categ
2	S2WALK100A	s2walk100a:w2 s Some Diff-Walk 100m	Categ
3	S3WALK100A	s3walk100a:w3 s Some Diff-Walk 100m	Categ
4	S4WALK100A	s4walk100a:w4 s Some Diff-Walk 100m	Categ
1	R1CHAIRA	r1chaira:w1 r Some Diff-Get up fr chair	Categ
2	R2CHAIRA	r2chaira:w2 r Some Diff-Get up fr chair	Categ
3	R3CHAIRA	r3chaira:w3 r Some Diff-Get up fr chair	Categ
4	R4CHAIRA	r4chaira:w4 r Some Diff-Get up fr chair	Categ
1	S1CHAIRA	s1chaira:w1 s Some Diff-Get up fr chair	Categ
2	S2CHAIRA	s2chaira:w2 s Some Diff-Get up fr chair	Categ
3	S3CHAIRA	s3chaira:w3 s Some Diff-Get up fr chair	Categ
4	S4CHAIRA	s4chaira:w4 s Some Diff-Get up fr chair	Categ
1	R1CLIMSA	r1climsa:w1 r Some Diff-Clmb sev flt str	Categ
2	R2CLIMSA	r2climsa:w2 r Some Diff-Clmb sev flt str	Categ
3	R3CLIMSA	r3climsa:w3 r Some Diff-Clmb sev flt str	Categ
4	R4CLIMSA	r4climsa:w4 r Some Diff-Clmb sev flt str	Categ
1	S1CLIMSA	s1climsa:w1 s Some Diff-Clmb sev flt str	Categ
2	S2CLIMSA	s2climsa:w2 s Some Diff-Clmb sev flt str	Categ
3	S3CLIMSA	s3climsa:w3 s Some Diff-Clmb sev flt str	Categ
4	S4CLIMSA	s4climsa:w4 s Some Diff-Clmb sev flt str	Categ
1	R1STOOPA	r1stoopa:w1 r Some Diff-Stoop/Kneel/Crch	Categ
2	R2STOOPA	r2stoopa:w2 r Some Diff-Stoop/Kneel/Crch	Categ
3	R3STOOPA	r3stoopa:w3 r Some Diff-Stoop/Kneel/Crch	Categ
4	R4STOOPA	r4stoopa:w4 r Some Diff-Stoop/Kneel/Crch	Categ
1	S1STOOPA	s1stoopa:w1 s Some Diff-Stoop/Kneel/Crch	Categ
2	S2STOOPA	s2stoopa:w2 s Some Diff-Stoop/Kneel/Crch	Categ
3	S3STOOPA	s3stoopa:w3 s Some Diff-Stoop/Kneel/Crch	Categ
4	S4STOOPA	s4stoopa:w4 s Some Diff-Stoop/Kneel/Crch	Categ
1	R1LIFTA	r1lifta:w1 r Some Diff-Lift/carry 10jin	Categ
2	R2LIFTA	r2lifta:w2 r Some Diff-Lift/carry 10jin	Categ
3	R3LIFTA	r3lifta:w3 r Some Diff-Lift/carry 10jin	Categ

4	R4LIFTA	r4lifta:w4	r	Some	Diff-Lift/carry	10jin	Categ
1	S1LIFTA	s1lifta:w1	s	Some	Diff-Lift/carry	10jin	Cont
2	S2LIFTA	s2lifta:w2	s	Some	Diff-Lift/carry	10jin	Cont
3	S3LIFTA	s3lifta:w3	s	Some	Diff-Lift/carry	10jin	Cont
4	S4LIFTA	s4lifta:w4	s	Some	Diff-Lift/carry	10jin	Cont
1	R1DIMEA	r1dimea:w1	r	Some	Diff-Pick up a small coin		Categ
2	R2DIMEA	r2dimea:w2	r	Some	Diff-Pick up a small coin		Categ
3	R3DIMEA	r3dimea:w3	r	Some	Diff-Pick up a small coin		Categ
4	R4DIMEA	r4dimea:w4	r	Some	Diff-Pick up a small coin		Categ
1	S1DIMEA	s1dimea:w1	s	Some	Diff-Pick up a small coin		Categ
2	S2DIMEA	s2dimea:w2	s	Some	Diff-Pick up a small coin		Categ
3	S3DIMEA	s3dimea:w3	s	Some	Diff-Pick up a small coin		Categ
4	S4DIMEA	s4dimea:w4	s	Some	Diff-Pick up a small coin		Categ
1	R1ARMSA	r1armsa:w1	r	Some	Diff-Rch/xtnd arms up		Categ
2	R2ARMSA	r2armsa:w2	r	Some	Diff-Rch/xtnd arms up		Categ
3	R3ARMSA	r3armsa:w3	r	Some	Diff-Rch/xtnd arms up		Categ
4	R4ARMSA	r4armsa:w4	r	Some	Diff-Rch/xtnd arms up		Categ
1	S1ARMSA	s1armsa:w1	s	Some	Diff-Rch/xtnd arms up		Categ
2	S2ARMSA	s2armsa:w2	s	Some	Diff-Rch/xtnd arms up		Categ
3	S3ARMSA	s3armsa:w3	s	Some	Diff-Rch/xtnd arms up		Categ
4	S4ARMSA	s4armsa:w4	s	Some	Diff-Rch/xtnd arms up		Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JOGA	17241	0.52	0.50	0.00	1.00
R2JOGA	17632	0.53	0.50	0.00	1.00
R3JOGA	19613	0.51	0.50	0.00	1.00
R4JOGA	19457	0.53	0.50	0.00	1.00
S1JOGA	14578	0.49	0.50	0.00	1.00
S2JOGA	14844	0.51	0.50	0.00	1.00
S3JOGA	16504	0.49	0.50	0.00	1.00
S4JOGA	16095	0.50	0.50	0.00	1.00
R1WALK1KMA	17536	0.16	0.36	0.00	1.00
R2WALK1KMA	18187	0.17	0.37	0.00	1.00
R3WALK1KMA	20149	0.17	0.38	0.00	1.00
R4WALK1KMA	19456	0.19	0.39	0.00	1.00
S1WALK1KMA	14833	0.14	0.34	0.00	1.00
S2WALK1KMA	15303	0.15	0.36	0.00	1.00
S3WALK1KMA	16948	0.15	0.36	0.00	1.00
S4WALK1KMA	16095	0.16	0.37	0.00	1.00
R1WALK100A	16286	0.02	0.13	0.00	1.00
R2WALK100A	18213	0.07	0.25	0.00	1.00
R3WALK100A	20169	0.08	0.26	0.00	1.00
R4WALK100A	19456	0.09	0.28	0.00	1.00
S1WALK100A	13939	0.01	0.12	0.00	1.00
S2WALK100A	15325	0.06	0.23	0.00	1.00
S3WALK100A	16965	0.06	0.24	0.00	1.00
S4WALK100A	16095	0.07	0.25	0.00	1.00
R1CHAIRA	17533	0.27	0.44	0.00	1.00
R2CHAIRA	18213	0.29	0.45	0.00	1.00
R3CHAIRA	20181	0.28	0.45	0.00	1.00
R4CHAIRA	19456	0.30	0.46	0.00	1.00
S1CHAIRA	14829	0.26	0.44	0.00	1.00
S2CHAIRA	15325	0.27	0.44	0.00	1.00

S3CHAIRA	16976	0.27	0.44	0.00	1.00
S4CHAIRA	16095	0.28	0.45	0.00	1.00
R1CLIMSA	17416	0.40	0.49	0.00	1.00
R2CLIMSA	17867	0.42	0.49	0.00	1.00
R3CLIMSA	19963	0.41	0.49	0.00	1.00
R4CLIMSA	19455	0.46	0.50	0.00	1.00
S1CLIMSA	14740	0.38	0.49	0.00	1.00
S2CLIMSA	15063	0.40	0.49	0.00	1.00
S3CLIMSA	16816	0.39	0.49	0.00	1.00
S4CLIMSA	16094	0.44	0.50	0.00	1.00
R1STOOPA	17529	0.29	0.46	0.00	1.00
R2STOOPA	18190	0.33	0.47	0.00	1.00
R3STOOPA	20160	0.32	0.47	0.00	1.00
R4STOOPA	19455	0.36	0.48	0.00	1.00
S1STOOPA	14827	0.28	0.45	0.00	1.00
S2STOOPA	15308	0.31	0.46	0.00	1.00
S3STOOPA	16953	0.30	0.46	0.00	1.00
S4STOOPA	16094	0.34	0.47	0.00	1.00
R1LIFTA	17536	0.12	0.32	0.00	1.00
R2LIFTA	18184	0.14	0.35	0.00	1.00
R3LIFTA	20144	0.14	0.35	0.00	1.00
R4LIFTA	19455	0.18	0.38	0.00	1.00
S1LIFTA	14838	0.10	0.30	0.00	1.00
S2LIFTA	15303	0.12	0.32	0.00	1.00
S3LIFTA	16954	0.12	0.33	0.00	1.00
S4LIFTA	16094	0.15	0.36	0.00	1.00
R1DIMEA	17533	0.04	0.20	0.00	1.00
R2DIMEA	18190	0.04	0.20	0.00	1.00
R3DIMEA	20157	0.04	0.21	0.00	1.00
R4DIMEA	19455	0.05	0.23	0.00	1.00
S1DIMEA	14831	0.03	0.18	0.00	1.00
S2DIMEA	15305	0.04	0.19	0.00	1.00
S3DIMEA	16962	0.04	0.19	0.00	1.00
S4DIMEA	16094	0.05	0.21	0.00	1.00
R1ARMSA	17538	0.10	0.31	0.00	1.00
R2ARMSA	18186	0.11	0.31	0.00	1.00
R3ARMSA	20169	0.11	0.31	0.00	1.00
R4ARMSA	19455	0.14	0.34	0.00	1.00
S1ARMSA	14835	0.09	0.29	0.00	1.00
S2ARMSA	15307	0.10	0.30	0.00	1.00
S3ARMSA	16970	0.10	0.30	0.00	1.00
S4ARMSA	16094	0.12	0.33	0.00	1.00

### Categorical Variable Codes

Value-----	R1JOGA	R2JOGA	R3JOGA	R4JOGA
.a:Healthy and young	2	65	579	242
.d:dk	315			
.m:missing	147	915	905	117
.r:refuse	3			
0.No	8282	8281	9575	9102
1.Yes	8959	9351	10038	10355
Value-----	S1JOGA	S2JOGA	S3JOGA	S4JOGA
.a:Healthy and young		62	540	223
.d:dk	272			
.m:missing	57	674	680	44

.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	7371	7335	8492	8043
1.Yes	7207	7509	8012	8052
Value-----	R1WALK1KMA	R2WALK1KMA	R3WALK1KMA	R4WALK1KMA
.a:Healthy and young	2	64	578	242
.d:dk	21			
.m:missing	147	361	370	118
.r:refuse	2			
0.No	14790	15119	16626	15733
1.Yes	2746	3068	3523	3723
Value-----	S1WALK1KMA	S2WALK1KMA	S3WALK1KMA	S4WALK1KMA
.a:Healthy and young		61	539	223
.d:dk	18			
.m:missing	57	216	237	44
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	12785	13026	14352	13444
1.Yes	2048	2277	2596	2651
Value-----	R1WALK100A	R2WALK100A	R3WALK100A	R4WALK100A
.a:Healthy and young	3	64	578	242
.d:dk	7			
.m:missing	1410	335	350	118
.r:refuse	2			
0.No	16018	16998	18650	17795
1.Yes	268	1215	1519	1661
Value-----	S1WALK100A	S2WALK100A	S3WALK100A	S4WALK100A
.a:Healthy and young	1	61	539	223
.d:dk	5			
.m:missing	963	194	220	44
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13739	14465	15905	14988
1.Yes	200	860	1060	1107
Value-----	R1CHAIRA	R2CHAIRA	R3CHAIRA	R4CHAIRA
.a:Healthy and young	2	64	578	242
.d:dk	25			
.m:missing	147	335	338	118
.r:refuse	1			
0.No	12781	13011	14523	13532
1.Yes	4752	5202	5658	5924
Value-----	S1CHAIRA	S2CHAIRA	S3CHAIRA	S4CHAIRA
.a:Healthy and young		61	539	223
.d:dk	23			
.m:missing	57	194	209	44
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	11016	11207	12465	11519
1.Yes	3813	4118	4511	4576
Value-----	R1CLIMSA	R2CLIMSA	R3CLIMSA	R4CLIMSA
.a:Healthy and young	2	64	578	242
.d:dk	140			
.m:missing	147	681	556	119
.r:refuse	3			
0.No	10458	10388	11756	10502
1.Yes	6958	7479	8207	8953
Value-----	S1CLIMSA	S2CLIMSA	S3CLIMSA	S4CLIMSA

## Section B: Health

100

.a:Healthy and young		61	539	223
.d:dk	110			
.m:missing	57	456	369	45
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	9161	9044	10266	9068
1.Yes	5579	6019	6550	7026
Value-----	R1STOOPA	R2STOOPA	R3STOOPA	R4STOOPA
.a:Healthy and young	2	64	578	242
.d:dk	29			
.m:missing	147	358	359	119
.r:refuse	1			
0.No	12388	12213	13631	12372
1.Yes	5141	5977	6529	7083
Value-----	S1STOOPA	S2STOOPA	S3STOOPA	S4STOOPA
.a:Healthy and young		61	539	223
.d:dk	25			
.m:missing	57	211	232	45
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	10704	10553	11812	10637
1.Yes	4123	4755	5141	5457
Value-----	R1LIFTA	R2LIFTA	R3LIFTA	R4LIFTA
.a:Healthy and young	2	64	578	242
.d:dk	20			
.m:missing	149	364	375	119
.r:refuse	1			
0.No	15438	15638	17283	15987
1.Yes	2098	2546	2861	3468
Value-----	R1DIMEA	R2DIMEA	R3DIMEA	R4DIMEA
.a:Healthy and young	2	64	578	242
.d:dk	23			
.m:missing	149	358	362	119
.r:refuse	1			
0.No	16812	17424	19254	18408
1.Yes	721	766	903	1047
Value-----	S1DIMEA	S2DIMEA	S3DIMEA	S4DIMEA
.a:Healthy and young		61	539	223
.d:dk	20			
.m:missing	58	214	223	45
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	14314	14735	16302	15341
1.Yes	517	570	660	753
Value-----	R1ARMSA	R2ARMSA	R3ARMSA	R4ARMSA
.a:Healthy and young	2	64	578	242
.d:dk	19			
.m:missing	147	362	350	119
.r:refuse	2			
0.No	15717	16174	17955	16796
1.Yes	1821	2012	2214	2659
Value-----	S1ARMSA	S2ARMSA	S3ARMSA	S4ARMSA
.a:Healthy and young		61	539	223
.d:dk	16			
.m:missing	57	212	215	45
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13427	13772	15280	14135

1. Yes	1408	1535	1690	1959
--------	------	------	------	------

### How Constructed:

These variables indicate whether the respondent has functional limitations in various activities beyond the defined ADLs and IADLs. This line of questioning is not asked to respondents who are younger than 50 and report good health as jointly defined by self-reported positive health, no self-reported disabilities, and no self-reported doctor diagnosed health problems. The following functional limitations include running or jogging 1KM (RwJOGA), walking 1KM (RwWALK1KMA), walking 100M (RwWALK100A), getting up from a chair after sitting for long periods (RwCHAIRA), climbing several flights of stairs without resting (RwCLIMSA), stooping kneeling, or crouching (RwSTOOPA), lifting or carrying weights over 10 jins (RwLIFTA), picking up a coin from the table (RwDIMEA), and reaching arms above shoulder level (RwARMSA).

A code of 0 indicates that the respondent did not report any problems with the activity. A code of 1 indicates that the respondent reported some difficulty with the activity or could not do the activity. If a respondent reports no difficulty in jogging a kilometer, then questions about walking 1 KM and walking 100 M are skipped and RwWALK1KMA and RwWALK100A are set to 0 for no difficulty. RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA are set to special missing (.a) if the functional limitations questions were skipped because a respondent is less than 50 years old and healthy. Don't know, refused, or other missing responses to RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA are assigned special missing values (.d), (.r), (.m) respectively.

SwJOGA, SwWALK1KMA, SwWALK100A, SwCHAIRA, SwCLIMSA, SwSTOOPA, SwLIFTA, SwDIMEA, and SwARMSA indicate whether the respondent's spouse reported any difficulty and are taken directly from the spouse's responses to RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA, respectively. In addition to the special missing codes used in RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA, SwJOGA, SwWALK1KMA, SwWALK100A, SwCHAIRA, SwCLIMSA, SwSTOOPA, SwLIFTA, SwDIMEA, and SwARMSA employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

There are a large number of respondents who were not asked whether they have difficulty walking 100m at Wave 1, who reported that they were not able to run 1km or walk 1km. Based on the skip pattern displayed in the questionnaire it appears these people should have been asked whether they have difficulty walking 100m. This issue only exists at Wave 1 and these respondents have been coded as (.m) missing. Starting at Wave 2, respondents who reported that they were not able to run 1km or walk 1km were asked whether they have difficulty walking 100m.

### Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, the binary indicators of some difficulty with the various activities are recoded from no, yes or can't do. If the respondent answers yes or can't do to whether they have any difficulty with an activity, the variable is set to 1 for some difficulty. If respondent answers no, the variable is set to 0 for no difficulty.

In the CHARLS, these variables are recoded from 1.) No, I don't have any difficulty, 2.) I have difficulty but can still do it, 3.) Yes, I have difficulty and need help and 4.) I cannot do it. If the respondent answers 2, 3 or 4 to any difficulty with the activity, the variable is set to 1 for some difficulty. If respondent answers 1, the variable is set to 0 for no difficulty.

The unit in CHARLS for lifting or carrying weights is in jin, which is a traditional Chinese unit of mass that is used across East and Southeast Asia. The conversion between jin to pounds is 1 to 1.1 and the conversion between jin to gram is 1 to 500.

Unlike the HRS, CHARLS asked respondent to exclude any difficulty that lasts less than 3 months.

### CHARLS Variables Used:

Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest

DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB001	Have Difficulty Running or Jogging About 1 Km
DB002	Have Difficulty Walking 1 KM
DB003	Have Difficulty Walking 100 Metres
DB004	Have Difficulty Getting Up From A Chair After Sitting for Long
DB005	Have Difficulty Climbing Several Flights of Stairs Without Rest
DB006	Have Difficulty Stooping,Kneeling,or Crouching
DB007	Have Difficulty Reaching or Extending Your Arms Above Shoulder
DB008	Have Difficulty Lifting or Carrying Weights Over 10 Jin
DB009	Have Difficulty Picking Up A Small Coin From A Table

## Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB001	Running or Jogging about 1 Km
DB002	Walkinf 1 Km
DB003	Walking 100 Metres
DB004	Difficulty with Sitting
DB005	Difficulty with Climbing
DB006	Difficulty with Stooping, Kneeling, Crouching
DB007	Difficulty with Reaching or Extending
DB008	Difficulty with Lifting
DB009	Difficulty with Picking up
XRTYPE	R Interview Type

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB001	Running or Jogging about 1 Km
DB002	Walking 1 Km
DB003	Walking 100 Metres
DB004	Difficulty with Sitting
DB005	Difficulty with Climbing
DB006	Difficulty with Stooping, Kneeling, Crouching
DB007	Difficulty with Reaching or Extending
DB008	Difficulty with Lifting
DB009	Difficulty with Picking up
XRTYPE	R Interview Type

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB001	Difficulty with Running or Jogging about 1Km
DB002	Difficulty with Walking 1Km
DB003	Difficulty with Walking 100 Metres
DB004	Difficulty with Getting up from a Chair
DB005	Difficulty with Climbing Several Flights of Stairs Without Rest
DB006	Difficulty with Stooping, Kneeling, or Crouching
DB007	Difficulty with Reaching or Extending Your arms
DB008	Difficulty with Lifting or Carrying Weights over 10 Jin
DB009	Difficulty with Picking up a Small Coin



<b>ADL Summary: sum ADLs where respondent reports any difficulty</b>
--

Wave	Variable	Label	Type
1	R1ADLWA	r1adlwa:w1 r Some Diff-ADLs:Wallace /0-3	Cont
2	R2ADLWA	r2adlwa:w2 r Some Diff-ADLs:Wallace /0-3	Cont
3	R3ADLWA	r3adlwa:w3 r Some Diff-ADLs:Wallace /0-3	Cont
4	R4ADLWA	r4adlwa:w4 r Some Diff-ADLs:Wallace /0-3	Cont
1	S1ADLWA	s1adlwa:w1 s Some Diff-ADLs:Wallace /0-3	Cont
2	S2ADLWA	s2adlwa:w2 s Some Diff-ADLs:Wallace /0-3	Cont
3	S3ADLWA	s3adlwa:w3 s Some Diff-ADLs:Wallace /0-3	Cont
4	S4ADLWA	s4adlwa:w4 s Some Diff-ADLs:Wallace /0-3	Cont
1	R1ADLWAM	r1adlwam:w1 r Missings ADL: Wallace Score	Cont
2	R2ADLWAM	r2adlwam:w2 r Missings ADL: Wallace Score	Cont
3	R3ADLWAM	r3adlwam:w3 r Missings ADL: Wallace Score	Cont
4	R4ADLWAM	r4adlwam:w4 r Missings ADL: Wallace Score	Cont
1	S1ADLWAM	s1adlwam:w1 s Missings ADL: Wallace Score	Cont
2	S2ADLWAM	s2adlwam:w2 s Missings ADL: Wallace Score	Cont
3	S3ADLWAM	s3adlwam:w3 s Missings ADL: Wallace Score	Cont
4	S4ADLWAM	s4adlwam:w4 s Missings ADL: Wallace Score	Cont
1	R1ADLA_C	r1adla_c:w1 r Some Diff-4 item ADL scale	Cont
2	R2ADLA_C	r2adla_c:w2 r Some Diff-4 item ADL scale	Cont
3	R3ADLA_C	r3adla_c:w3 r Some Diff-4 item ADL scale	Cont
4	R4ADLA_C	r4adla_c:w4 r Some Diff-4 item ADL scale	Cont
1	S1ADLA_C	s1adla_c:w1 s Some Diff-4 item ADL scale	Cont
2	S2ADLA_C	s2adla_c:w2 s Some Diff-4 item ADL scale	Cont
3	S3ADLA_C	s3adla_c:w3 s Some Diff-4 item ADL scale	Cont
4	S4ADLA_C	s4adla_c:w4 s Some Diff-4 item ADL scale	Cont
1	R1ADLAM_C	r1adlam_c:w1 r Missings ADL-4 item summary	Cont
2	R2ADLAM_C	r2adlam_c:w2 r Missings ADL-4 item summary	Cont
3	R3ADLAM_C	r3adlam_c:w3 r Missings ADL-4 item summary	Cont
4	R4ADLAM_C	r4adlam_c:w4 r Missings ADL-4 item summary	Cont
1	S1ADLAM_C	s1adlam_c:w1 s Missings ADL-4 item summary	Cont
2	S2ADLAM_C	s2adlam_c:w2 s Missings ADL-4 item summary	Cont
3	S3ADLAM_C	s3adlam_c:w3 s Missings ADL-4 item summary	Cont
4	S4ADLAM_C	s4adlam_c:w4 s Missings ADL-4 item summary	Cont
1	R1ADLFIVE	r1adlfive:w1 r Some Diff-5 item ADL scale	Cont
2	R2ADLFIVE	r2adlfive:w2 r Some Diff-5 item ADL scale	Cont
3	R3ADLFIVE	r3adlfive:w3 r Some Diff-5 item ADL scale	Cont
4	R4ADLFIVE	r4adlfive:w4 r Some Diff-5 item ADL scale	Cont
1	S1ADLFIVE	s1adlfive:w1 s some Diff-5 item ADL scale	Cont
2	S2ADLFIVE	s2adlfive:w2 s some Diff-5 item ADL scale	Cont
3	S3ADLFIVE	s3adlfive:w3 s some Diff-5 item ADL scale	Cont
4	S4ADLFIVE	s4adlfive:w4 s Some Diff-5 item ADL scale	Cont
1	R1ADLFIVEM	r1adlfivem:w1 r Missings ADL-5 item summary	Cont
2	R2ADLFIVEM	r2adlfivem:w2 r Missings ADL-5 item summary	Cont
3	R3ADLFIVEM	r3adlfivem:w3 r Missings ADL-5 item summary	Cont
4	R4ADLFIVEM	r4adlfivem:w4 r Missings ADL-5 item summary	Cont
1	S1ADLFIVEM	s1adlfivem:w1 s Missings ADL-5 item summary	Cont
2	S2ADLFIVEM	s2adlfivem:w2 s Missings ADL-5 item summary	Cont
3	S3ADLFIVEM	s3adlfivem:w3 s Missings ADL-5 item summary	Cont
4	S4ADLFIVEM	s4adlfivem:w4 s Missings ADL-5 item summary	Cont
1	R1ADLAB_C	r1adlab_c:w1 r Some Diff-6 item ADL scale	Cont
2	R2ADLAB_C	r2adlab_c:w2 r Some Diff-6 item ADL scale	Cont
3	R3ADLAB_C	r3adlab_c:w3 r Some Diff-6 item ADL scale	Cont

4	R4ADLAB_C	r4adlab_c:w4	r	Some Diff-6	item	ADL scale	Cont
1	S1ADLAB_C	s1adlab_c:w1	s	some diff-6	item	ADL scale	Cont
2	S2ADLAB_C	s2adlab_c:w2	s	some diff-6	item	ADL scale	Cont
3	S3ADLAB_C	s3adlab_c:w3	s	some diff-6	item	ADL scale	Cont
4	S4ADLAB_C	s4adlab_c:w4	s	Some diff-6	item	ADL scale	Cont
1	R1ADLABM_C	r1adlabm_c:w1	r	Missings	ADL-6	item summary	Cont
2	R2ADLABM_C	r2adlabm_c:w2	r	Missings	ADL-6	item summary	Cont
3	R3ADLABM_C	r3adlabm_c:w3	r	Missings	ADL-6	item summary	Cont
4	R4ADLABM_C	r4adlabm_c:w4	r	Missings	ADL-6	item summary	Cont
1	S1ADLABM_C	s1adlabm_c:w1	s	Missings	ADL-6	item summary	Cont
2	S2ADLABM_C	s2adlabm_c:w2	s	Missings	ADL-6	item summary	Cont
3	S3ADLABM_C	s3adlabm_c:w3	s	Missings	ADL-6	item summary	Cont
4	S4ADLABM_C	s4adlabm_c:w4	s	Missings	ADL-6	item summary	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ADLWA	17362	0.15	0.55	0.00	3.00
R2ADLWA	18242	0.14	0.51	0.00	3.00
R3ADLWA	20194	0.16	0.54	0.00	3.00
R4ADLWA	19455	0.18	0.58	0.00	3.00
S1ADLWA	14682	0.13	0.50	0.00	3.00
S2ADLWA	15345	0.12	0.48	0.00	3.00
S3ADLWA	16984	0.14	0.51	0.00	3.00
S4ADLWA	16094	0.15	0.53	0.00	3.00
R1ADLWAM	17708	0.06	0.42	0.00	3.00
R2ADLWAM	18612	0.06	0.42	0.00	3.00
R3ADLWAM	21097	0.13	0.61	0.00	3.00
R4ADLWAM	19816	0.05	0.40	0.00	3.00
S1ADLWAM	14910	0.05	0.37	0.00	3.00
S2ADLWAM	15580	0.05	0.37	0.00	3.00
S3ADLWAM	17724	0.13	0.60	0.00	3.00
S4ADLWAM	16362	0.05	0.38	0.00	3.00
R1ADLA_C	17362	0.21	0.70	0.00	4.00
R2ADLA_C	18242	0.20	0.67	0.00	4.00
R3ADLA_C	20194	0.23	0.71	0.00	4.00
R4ADLA_C	19455	0.26	0.76	0.00	4.00
S1ADLA_C	14682	0.18	0.64	0.00	4.00
S2ADLA_C	15345	0.17	0.63	0.00	4.00
S3ADLA_C	16984	0.20	0.67	0.00	4.00
S4ADLA_C	16094	0.21	0.69	0.00	4.00
R1ADLAM_C	17708	0.08	0.55	0.00	4.00
R2ADLAM_C	18612	0.08	0.56	0.00	4.00
R3ADLAM_C	21097	0.17	0.81	0.00	4.00
R4ADLAM_C	19816	0.07	0.54	0.00	4.00
S1ADLAM_C	14910	0.06	0.49	0.00	4.00
S2ADLAM_C	15580	0.06	0.49	0.00	4.00
S3ADLAM_C	17724	0.17	0.80	0.00	4.00
S4ADLAM_C	16362	0.07	0.51	0.00	4.00
R1ADLFIVE	17362	0.32	0.93	0.00	5.00
R2ADLFIVE	18242	0.32	0.88	0.00	5.00
R3ADLFIVE	20194	0.37	0.94	0.00	5.00
R4ADLFIVE	19455	0.37	0.98	0.00	5.00
S1ADLFIVE	14682	0.28	0.86	0.00	5.00
S2ADLFIVE	15345	0.28	0.83	0.00	5.00

S3ADLFIVE	16984	0.32	0.88	0.00	5.00
S4ADLFIVE	16094	0.32	0.90	0.00	5.00
R1ADLFIVEM	17708	0.10	0.69	0.00	5.00
R2ADLFIVEM	18612	0.10	0.70	0.00	5.00
R3ADLFIVEM	21097	0.22	1.01	0.00	5.00
R4ADLFIVEM	19816	0.09	0.67	0.00	5.00
S1ADLFIVEM	14910	0.08	0.61	0.00	5.00
S2ADLFIVEM	15580	0.08	0.61	0.00	5.00
S3ADLFIVEM	17724	0.21	1.00	0.00	5.00
S4ADLFIVEM	16362	0.08	0.64	0.00	5.00
R1ADLAB_C	17362	0.37	1.03	0.00	6.00
R2ADLAB_C	18242	0.36	0.97	0.00	6.00
R3ADLAB_C	20195	0.41	1.05	0.00	6.00
R4ADLAB_C	19455	0.42	1.10	0.00	6.00
S1ADLAB_C	14682	0.32	0.95	0.00	6.00
S2ADLAB_C	15345	0.32	0.92	0.00	6.00
S3ADLAB_C	16985	0.36	0.97	0.00	6.00
S4ADLAB_C	16094	0.36	1.00	0.00	6.00
R1ADLABM_C	17708	0.12	0.83	0.00	6.00
R2ADLABM_C	18612	0.12	0.84	0.00	6.00
R3ADLABM_C	21097	0.26	1.22	0.00	6.00
R4ADLABM_C	19816	0.11	0.80	0.00	6.00
S1ADLABM_C	14910	0.09	0.74	0.00	6.00
S2ADLABM_C	15580	0.09	0.73	0.00	6.00
S3ADLABM_C	17724	0.25	1.20	0.00	6.00
S4ADLABM_C	16362	0.10	0.76	0.00	6.00

### How Constructed:

The following variables are Activities of Daily Living (ADL) summaries. In all waves, ADL variables indicating some difficulty are used to construct the summary measures. Each limitation adds one to the summary measure, that is:

RwADLWA is a 3-item summary that uses the ADLs proposed by Wallace and Herzog in their paper (Wallace and Herzog, 1995) to define an ADL summary: bathing, dressing, and eating.  $RwADLWA = \text{sum}(RwBATHA, RwDRESSA, RweATA)$ .  $RwADLWAM$  is the number of ADL questions with missing values.  $RwADLWA$  is calculated for all respondents who answered at least one of the ADL component questions.

$RwADLA\_C$  is a 4-item summary that includes bathing, dressing, eating, and getting in/out of bed.  $RwADLA\_C = \text{sum}(RwBATHA, RwDRESSA, RweATA, RwbEDA)$ .  $RwADLAM\_C$  is the number of ADL questions with missing values.  $RwADLA\_C$  is calculated for all respondents who answered at least one of the ADL component questions.

$RwADLFIVE$  is a 5-item summary of any difficulty with activities of daily living. The activities of daily living included are bathing, dressing, eating, getting in/out of bed, and using the toilet.  $RwADLFIVE = \text{sum}(RwBATHA, RwDRESSA, RweATA, RwbEDA, RwtOILTA, RwURINA)$ .  $RwADLFIVEM$  is the number of ADL questions with missing values.  $RwADLFIVE$  is calculated for all respondents who answered at least one of the ADL component questions.

$RwADLAB\_C$  is a 6-item summary included in CHARLS that includes bathing, dressing, eating, getting in/out of bed, using the toilet, and controlling urination.  $RwADLAB\_C = \text{sum}(RwBATHA, RwDRESSA, RweATA, RwbEDA, RwtOILTA, RwURINA)$ .  $RwADLABM\_C$  is the number of ADL questions with missing values.  $RwADLAB\_C$  is calculated for all respondents who answered at least one of the ADL component questions.

$RwADLWA$ ,  $RwADLWAM$ ,  $RwADLA\_C$ ,  $RwADLAM\_C$ ,  $RwADLFIVE$ ,  $RwADLFIVEM$ ,  $RwADLAB\_C$  and  $RwADLABM\_C$  are set to plain missing (.) for respondents who did not respond to this wave.

$SwADLWA$ ,  $SwADLWAM$ ,  $SwADLA\_C$ ,  $SwADLAM\_C$ ,  $SwADLFIVE$ ,  $SwADLFIVEM$ ,  $SwADLAB\_C$  and  $SwADLABM\_C$  are taken directly from the spouse's values of  $RwADLWA$ ,  $RwADLWAM$ ,  $RwADLA\_C$ ,  $RwADLAM\_C$ ,  $RwADLFIVE$ ,  $RwADLFIVEM$ ,  $RwADLAB\_C$  and  $RwADLABM\_C$ , respectively. A special missing value (.u) is assigned if the respondent

does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please see "Activities of Daily Living (ADLs): Some difficulty" for a description of how the individual dummy variables are constructed.

### **Cross Wave Differences in CHARLS**

No differences known.

### **Differences with the RAND HRS/Harmonized HRS**

Unlike the HRS, CHARLS does not include walking across a room in the ADL line of questions. RwADLA\_C ranges from 0 to 4, not including RwWALKA.

<b>IADL Summary: sum IADLs where respondent reports any difficulty</b>
--

Wave	Variable	Label	Type
2	R2IADLA	r2iadla:w2 r Some-Diff-IADLs:summary /0-3	Cont
3	R3IADLA	r3iadla:w3 r Some-Diff-IADLs:summary /0-3	Cont
4	R4IADLA	r4iadla:w4 r Some-Diff-IADLs:summary /0-3	Cont
2	S2IADLA	s2iadla:w2 s Some-Diff-IADLs:summary /0-3	Cont
3	S3IADLA	s3iadla:w3 s Some-Diff-IADLs:summary /0-3	Cont
4	S4IADLA	s4iadla:w4 s Some-Diff-IADLs:summary /0-3	Cont
2	R2IADLAM	r2iadlam:w2 r Some Diff-Missings in IADLs Score	Cont
3	R3IADLAM	r3iadlam:w3 r Some Diff-Missings in IADLs Score	Cont
4	R4IADLAM	r4iadlam:w4 r Some Diff-Missings in IADLs Score	Cont
2	S2IADLAM	s2iadlam:w2 s Some Diff-Missings in IADLs Score	Cont
3	S3IADLAM	s3iadlam:w3 s Some Diff-Missings in IADLs Score	Cont
4	S4IADLAM	s4iadlam:w4 s Some Diff-Missings in IADLs Score	Cont
2	R2IADLZA	r2iadlza:w2 r Some Diff-IADLs:summary /0-5	Cont
3	R3IADLZA	r3iadlza:w3 r Some Diff-IADLs:summary /0-5	Cont
4	R4IADLZA	r4iadlza:w4 r Some Diff-IADLs:summary /0-5	Cont
2	S2IADLZA	s2iadlza:w2 s Some Diff-IADLs:summary /0-5	Cont
3	S3IADLZA	s3iadlza:w3 s Some Diff-IADLs:summary /0-5	Cont
4	S4IADLZA	s4iadlza:w4 s Some Diff-IADLs:summary /0-5	Cont
2	R2IADLZAM	r2iadlzam:w2 r Some Diff-Missings in IADLs Score	Cont
3	R3IADLZAM	r3iadlzam:w3 r Some Diff-Missings in IADLs Score	Cont
4	R4IADLZAM	r4iadlzam:w4 r Some Diff-Missings in IADLs Score	Cont
2	S2IADLZAM	s2iadlzam:w2 s Some Diff-Missings in IADLs Score	Cont
3	S3IADLZAM	s3iadlzam:w3 s Some Diff-Missings in IADLs Score	Cont
4	S4IADLZAM	s4iadlzam:w4 s Some Diff-Missings in IADLs Score	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2IADLA	18380	0.28	0.64	0.00	3.00
R3IADLA	20917	0.27	0.63	0.00	3.00
R4IADLA	19721	0.28	0.67	0.00	3.00
S2IADLA	15474	0.25	0.60	0.00	3.00
S3IADLA	17660	0.23	0.59	0.00	3.00
S4IADLA	16340	0.25	0.63	0.00	3.00
R2IADLAM	18612	0.10	0.41	0.00	3.00
R3IADLAM	21097	0.08	0.36	0.00	3.00
R4IADLAM	19816	0.07	0.31	0.00	3.00
S2IADLAM	15580	0.07	0.33	0.00	3.00
S3IADLAM	17724	0.05	0.27	0.00	3.00
S4IADLAM	16362	0.05	0.23	0.00	3.00
R2IADLZA	18386	0.46	1.01	0.00	5.00
R3IADLZA	20920	0.45	1.01	0.00	5.00
R4IADLZA	19721	0.49	1.09	0.00	5.00
S2IADLZA	15478	0.40	0.94	0.00	5.00
S3IADLZA	17663	0.38	0.93	0.00	5.00
S4IADLZA	16340	0.42	1.01	0.00	5.00
R2IADLZAM	18612	0.13	0.61	0.00	5.00
R3IADLZAM	21097	0.10	0.52	0.00	5.00
R4IADLZAM	19816	0.08	0.41	0.00	5.00

S2IADLZAM	15580	0.09	0.47	0.00	5.00
S3IADLZAM	17724	0.06	0.37	0.00	5.00
S4IADLZAM	16362	0.05	0.27	0.00	5.00

### How Constructed:

Two Instrumental Activities of Daily Living (IADL) summaries are derived starting at Wave 2. One (RwIADLA) summarizes the commonly used IADLs including, using the phone, managing money, and taking medications. The second (RwIADLZA) summarizes these tasks and adds shopping for groceries and preparing hot meals. These summary measures use IADL variables indicating some difficulty. Each limitation adds one to the summary measure, that is:

$RwIADLA = \text{sum}(RwPHONEA, RwMONEYA, RwMEDSA)$ .  $RwIADLAM$  is the number of IADL questions with missing values, ranging from 0 to 3.  $RwIADLA$  is calculated for all respondents who answered at least one of the IADL component questions.

$RwIADLZA = \text{sum}(RwPHONEA, RwMONEYA, RwMEDSA, RwSHOPA, RwMEALA)$ .  $RwIADLZAM$  is the number of IADL questions with missing values, ranging from 0 to 5.  $RwIADLZA$  is calculated for all respondents who answered at least one of the IADL component questions.

$SwIADLA$  and  $SwIADLZA$  are taken directly from the spouse's values of  $RwIADLA$  and  $RwIADLZA$ , respectively. A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

$SwIADLAM$  and  $SwIADLZAM$  are taken directly from the spouse's values of  $RwIADLAM$  and  $RwIADLZAM$ , respectively. A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please see "Instrumental Activities of Daily Living (IADLs): Some difficulty" for a description of how the individual dummy variables ( $RwPHONEA$ ,  $RwMONEYA$ ,  $RwMEDSA$ ,  $RwSHOPA$ , and  $RwMEALA$ ) are constructed.

### Cross Wave Differences in CHARLS

$RwIADLA$  and  $RwIADLZA$  are only available starting at Wave 2. At Wave 1, there is no question regarding using the phone.

### Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, CHARLS does not include the instrumental activities of daily living (IADLs) regarding using phone at Wave 1.

<b>Mobility Summaries</b>
---------------------------

Wave	Variable	Label	Type
1	R1MOBILSEV	r1mobilsev:w1 r 7 item mobility	Cont
2	R2MOBILSEV	r2mobilsev:w2 r 7 item mobility	Cont
3	R3MOBILSEV	r3mobilsev:w3 r 7 item mobility	Cont
4	R4MOBILSEV	r4mobilsev:w4 r 7 item mobility	Cont
1	S1MOBILSEV	s1mobilsev:w1 s 7 item mobility	Cont
2	S2MOBILSEV	s2mobilsev:w2 s 7 item mobility	Cont
3	S3MOBILSEV	s3mobilsev:w3 s 7 item mobility	Cont
4	S4MOBILSEV	s4mobilsev:w4 s 7 item mobility	Cont
1	R1MOBILSEVM	r1mobilsevm:w1 r missing 7 item mobility	Cont
2	R2MOBILSEVM	r2mobilsevm:w2 r missing 7 item mobility	Cont
3	R3MOBILSEVM	r3mobilsevm:w3 r missing 7 item mobility	Cont
4	R4MOBILSEVM	r4mobilsevm:w4 r missing 7 item mobility	Cont
1	S1MOBILSEVM	s1mobilsevm:w1 s missing 7 item mobility	Cont
2	S2MOBILSEVM	s2mobilsevm:w2 s missing 7 item mobility	Cont
3	S3MOBILSEVM	s3mobilsevm:w3 s missing 7 item mobility	Cont
4	S4MOBILSEVM	s4mobilsevm:w4 s missing 7 item mobility	Cont
1	R1LOWERMOb	r1lowermob:w1 r lower body mobility	Cont
2	R2LOWERMOb	r2lowermob:w2 r lower body mobility	Cont
3	R3LOWERMOb	r3lowermob:w3 r lower body mobility	Cont
4	R4LOWERMOb	r4lowermob:w4 r lower body mobility	Cont
1	S1LOWERMOb	s1lowermob:w1 s lower body mobility	Cont
2	S2LOWERMOb	s2lowermob:w2 s lower body mobility	Cont
3	S3LOWERMOb	s3lowermob:w3 s lower body mobility	Cont
4	S4LOWERMOb	s4lowermob:w4 s lower body mobility	Cont
1	R1LOWERMObM	r1lowermobm:w1 r missing lower body mobility	Cont
2	R2LOWERMObM	r2lowermobm:w2 r missing lower body mobility	Cont
3	R3LOWERMObM	r3lowermobm:w3 r missing lower body mobility	Cont
4	R4LOWERMObM	r4lowermobm:w4 r missing lower body mobility	Cont
1	S1LOWERMObM	s1lowermobm:w1 s missing lower body mobility	Cont
2	S2LOWERMObM	s2lowermobm:w2 s missing lower body mobility	Cont
3	S3LOWERMObM	s3lowermobm:w3 s missing lower body mobility	Cont
4	S4LOWERMObM	s4lowermobm:w4 s missing lower body mobility	Cont
1	R1UPPERMOB	r1uppermob:w1 r upper body mobility	Cont
2	R2UPPERMOB	r2uppermob:w2 r upper body mobility	Cont
3	R3UPPERMOB	r3uppermob:w3 r upper body mobility	Cont
4	R4UPPERMOB	r4uppermob:w4 r upper body mobility	Cont
1	S1UPPERMOB	s1uppermob:w1 s upper body mobility	Cont
2	S2UPPERMOB	s2uppermob:w2 s upper body mobility	Cont
3	S3UPPERMOB	s3uppermob:w3 s upper body mobility	Cont
4	S4UPPERMOB	s4uppermob:w4 s upper body mobility	Cont
1	R1UPPERMOBM	r1uppermobm:w1 r missing upper body mobility	Cont
2	R2UPPERMOBM	r2uppermobm:w2 r missing upper body mobility	Cont
3	R3UPPERMOBM	r3uppermobm:w3 r missing upper body mobility	Cont
4	R4UPPERMOBM	r4uppermobm:w4 r missing upper body mobility	Cont
1	S1UPPERMOBM	s1uppermobm:w1 s missing upper body mobility	Cont
2	S2UPPERMOBM	s2uppermobm:w2 s missing upper body mobility	Cont
3	S3UPPERMOBM	s3uppermobm:w3 s missing upper body mobility	Cont
4	S4UPPERMOBM	s4uppermobm:w4 s missing upper body mobility	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
----------	---	------	---------	---------	---------

R1MOBILSEV	17556	1.24	1.56	0.00	7.00
R2MOBILSEV	18238	1.38	1.66	0.00	7.00
R3MOBILSEV	20197	1.38	1.68	0.00	7.00
R4MOBILSEV	19456	1.58	1.79	0.00	7.00
S1MOBILSEV	14850	1.16	1.50	0.00	7.00
S2MOBILSEV	15341	1.28	1.59	0.00	7.00
S3MOBILSEV	16985	1.28	1.61	0.00	7.00
S4MOBILSEV	16095	1.45	1.70	0.00	7.00
R1MOBILSEVM	17708	0.15	0.70	0.00	7.00
R2MOBILSEVM	18612	0.17	1.00	0.00	7.00
R3MOBILSEVM	21097	0.32	1.42	0.00	7.00
R4MOBILSEVM	19816	0.13	0.94	0.00	7.00
S1MOBILSEVM	14910	0.10	0.52	0.00	7.00
S2MOBILSEVM	15580	0.14	0.88	0.00	7.00
S3MOBILSEVM	17724	0.31	1.40	0.00	7.00
S4MOBILSEVM	16362	0.11	0.89	0.00	7.00
R1LOWERMOb	17556	0.98	1.16	0.00	4.00
R2LOWERMOb	18237	1.09	1.24	0.00	4.00
R3LOWERMOb	20196	1.09	1.25	0.00	4.00
R4LOWERMOb	19456	1.21	1.29	0.00	4.00
S1LOWERMOb	14850	0.92	1.13	0.00	4.00
S2LOWERMOb	15341	1.03	1.21	0.00	4.00
S3LOWERMOb	16984	1.02	1.21	0.00	4.00
S4LOWERMOb	16095	1.13	1.25	0.00	4.00
R1LOWERMObM	17708	0.12	0.46	0.00	4.00
R2LOWERMObM	18612	0.11	0.58	0.00	4.00
R3LOWERMObM	21097	0.19	0.82	0.00	4.00
R4LOWERMObM	19816	0.07	0.53	0.00	4.00
S1LOWERMObM	14910	0.09	0.36	0.00	4.00
S2LOWERMObM	15580	0.08	0.51	0.00	4.00
S3LOWERMObM	17724	0.18	0.81	0.00	4.00
S4LOWERMObM	16362	0.07	0.51	0.00	4.00
R1UPPERMOB	17553	0.26	0.63	0.00	3.00
R2UPPERMOB	18234	0.29	0.64	0.00	3.00
R3UPPERMOB	20195	0.30	0.65	0.00	3.00
R4UPPERMOB	19455	0.37	0.72	0.00	3.00
S1UPPERMOB	14847	0.23	0.59	0.00	3.00
S2UPPERMOB	15339	0.26	0.60	0.00	3.00
S3UPPERMOB	16984	0.26	0.61	0.00	3.00
S4UPPERMOB	16094	0.32	0.67	0.00	3.00
R1UPPERMOBM	17708	0.03	0.29	0.00	3.00
R2UPPERMOBM	18612	0.07	0.43	0.00	3.00
R3UPPERMOBM	21097	0.13	0.61	0.00	3.00
R4UPPERMOBM	19816	0.05	0.40	0.00	3.00
S1UPPERMOBM	14910	0.02	0.20	0.00	3.00
S2UPPERMOBM	15580	0.05	0.38	0.00	3.00
S3UPPERMOBM	17724	0.13	0.60	0.00	3.00
S4UPPERMOBM	16362	0.05	0.38	0.00	3.00

### How Constructed:

RwMOBILSEV is a 7-item summary of any difficulty with mobility activities. The mobility activities included are walking 100m, climbing several flights of stairs, getting up from a chair, stooping or kneeling or crouching, extending arms up, lifting 10 jin, and picking up a small coin. RwMOBILSEV is calculated as long as at least one of the comprising mobility measures is not missing. RwMOBILSEVM is a summary of the number of comprising variables with missing values. Don't know,



refused, skipped, or other missing responses of these variables are assigned special missing codes (.d), (.r), (.s), and (.m), respectively. RwmOBILSEV and RwmOBILSEVM are set to plain missing (.) for respondents who did not participate in the current wave.

SwMOBILSEV and SwMOBILSEVM indicate the respondent's current wave's spouse's 7-item mobility summary, and are taken from RwmOBILSEV and RwmOBILSEVM. In addition to the special missing codes employed by RwmOBILSEV and RwmOBILSEVM, SwMOBILSEV and SwMOBILSEVM employ two additional special missing codes. A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwLOWERMOb is a 4-item summary of any difficulty with lower-body mobility activities. The lower-body mobility activities included are walking 100m, climbing several flights of stairs, getting up from a chair, and stooping or kneeling or crouching. RwLOWERMOb is calculated as long as at least one of the comprising lower-body mobility measures is not missing. RwLOWERMObM is a summary of the number of comprising variables with missing values. Don't know, refused, skipped, or other missing responses of these variables are assigned special missing codes (.d), (.r), (.s), and (.m), respectively. RwLOWERMOb and RwLOWERMObM are set to plain missing (.) for respondents who did not participate in the current wave.

SwLOWERMOb and SwLOWERMObM indicate the respondent's current wave's spouse's 4-item lower-body mobility summary, and are taken from RwLOWERMOb and RwLOWERMObM. In addition to the special missing codes employed by RwLOWERMOb and RwLOWERMObM, SwLOWERMOb and SwLOWERMObM employ two additional special missing codes. A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwUPPERMOB is a 3-item summary of any difficulty with upper-body mobility activities. The upper-body mobility activities included are extending arms up, lifting 10 jin, and picking up a small coin. RwUPPERMOB is calculated as long as at least one of the comprising upper-body mobility measures is not missing. RwUPPERMOBM is a summary of the number of comprising variables with missing values. Don't know, refused, skipped, or other missing responses of these variables are assigned special missing codes (.d), (.r), (.s), and (.m), respectively. RwUPPERMOB and RwUPPERMOBM are set to plain missing (.) for respondents who did not participate in the current wave.

SwUPPERMOB and SwUPPERMOBM indicate the respondent's current wave's spouse's 3-item upper-body mobility summary, and are taken from RwUPPERMOB and RwUPPERMOBM. In addition to the special missing codes employed by RwUPPERMOB and RwUPPERMOBM, SwUPPERMOB and SwUPPERMOBM employ two additional special missing codes. A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## **Cross Wave Differences in CHARLS**

No differences known.

## **Differences with the RAND HRS/Harmonized HRS**

No differences known.

<b>Doctor diagnosed health problems: Ever Had Condition</b>
---

Wave	Variable	Label	Type
1	R1HIBPE	r1hibpe:w1 r Ever had high blood pressure	Categ
2	R2HIBPE	r2hibpe:w2 r Ever had high blood pressure	Categ
3	R3HIBPE	r3hibpe:w3 r Ever had high blood pressure	Categ
4	R4HIBPE	r4hibpe:w4 r Ever had high blood pressure	Categ
1	S1HIBPE	s1hibpe:w1 s ever had high blood pressure	Categ
2	S2HIBPE	s2hibpe:w2 s ever had high blood pressure	Categ
3	S3HIBPE	s3hibpe:w3 s ever had high blood pressure	Categ
4	S4HIBPE	s4hibpe:w4 s ever had high blood pressure	Categ
1	R1HIBPF	r1hibpf:w1 r Flag dispute chg high blood pressure	Categ
2	R2HIBPF	r2hibpf:w2 r Flag dispute chg high blood pressure	Categ
3	R3HIBPF	r3hibpf:w3 r Flag dispute chg high blood pressure	Categ
4	R4HIBPF	r4hibpf:w4 r Flag dispute chg high blood pressure	Categ
1	S1HIBPF	s1hibpf:w1 s flag dispute chg high blood pressure	Categ
2	S2HIBPF	s2hibpf:w2 s flag dispute chg high blood pressure	Categ
3	S3HIBPF	s3hibpf:w3 s flag dispute chg high blood pressure	Categ
4	S4HIBPF	s4hibpf:w4 s flag dispute chg high blood pressure	Categ
1	R1DIABE	r1diabe:w1 r ever had diabetes	Categ
2	R2DIABE	r2diabe:w2 r ever had diabetes	Categ
3	R3DIABE	r3diabe:w3 r ever had diabetes	Categ
4	R4DIABE	r4diabe:w4 r ever had diabetes	Categ
1	S1DIABE	s1diabe:w1 s ever had diabetes	Categ
2	S2DIABE	s2diabe:w2 s ever had diabetes	Categ
3	S3DIABE	s3diabe:w3 s ever had diabetes	Categ
4	S4DIABE	s4diabe:w4 s ever had diabetes	Categ
1	R1DIABF	r1diabf:w1 r flag dispute chg diabetes	Categ
2	R2DIABF	r2diabf:w2 r flag dispute chg diabetes	Categ
3	R3DIABF	r3diabf:w3 r flag dispute chg diabetes	Categ
4	R4DIABF	r4diabf:w4 r flag dispute chg diabetes	Categ
1	S1DIABF	s1diabf:w1 s flag dispute chg diabetes	Categ
2	S2DIABF	s2diabf:w2 s flag dispute chg diabetes	Categ
3	S3DIABF	s3diabf:w3 s flag dispute chg diabetes	Categ
4	S4DIABF	s4diabf:w4 s flag dispute chg diabetes	Categ
1	R1CANCRE	r1cancre:w1 r ever had cancer	Categ
2	R2CANCRE	r2cancre:w2 r ever had cancer	Categ
3	R3CANCRE	r3cancre:w3 r ever had cancer	Categ
4	R4CANCRE	r4cancre:w4 r ever had cancer	Categ
1	S1CANCRE	s1cancre:w1 s ever had cancer	Categ
2	S2CANCRE	s2cancre:w2 s ever had cancer	Categ
3	S3CANCRE	s3cancre:w3 s ever had cancer	Categ
4	S4CANCRE	s4cancre:w4 s ever had cancer	Categ
1	R1CANCRF	r1cancrf:w1 r flag dispute chg cancer	Categ
2	R2CANCRF	r2cancrf:w2 r flag dispute chg cancer	Categ
3	R3CANCRF	r3cancrf:w3 r flag dispute chg cancer	Categ
4	R4CANCRF	r4cancrf:w4 r flag dispute chg cancer	Categ
1	S1CANCRF	s1cancrf:w1 s flag dispute chg cancer	Categ
2	S2CANCRF	s2cancrf:w2 s flag dispute chg cancer	Categ
3	S3CANCRF	s3cancrf:w3 s flag dispute chg cancer	Categ
4	S4CANCRF	s4cancrf:w4 s flag dispute chg cancer	Categ
1	R1LUNGE	r1lunge:w1 r ever had lung disease	Categ
2	R2LUNGE	r2lunge:w2 r ever had lung disease	Categ
3	R3LUNGE	r3lunge:w3 r ever had lung disease	Categ

4	R4LUNGE	r4lunge:w4 r ever had lung disease	Categ
1	S1LUNGE	s1lunge:w1 s ever had lung disease	Categ
2	S2LUNGE	s2lunge:w2 s ever had lung disease	Categ
3	S3LUNGE	s3lunge:w3 s ever had lung disease	Categ
4	S4LUNGE	s4lunge:w4 s ever had lung disease	Categ
1	R1LUNGF	r1lungf:w1 r flag dispute chg lung disease	Categ
2	R2LUNGF	r2lungf:w2 r flag dispute chg lung disease	Categ
3	R3LUNGF	r3lungf:w3 r flag dispute chg lung disease	Categ
4	R4LUNGF	r4lungf:w4 r flag dispute chg lung disease	Categ
1	S1LUNGF	s1lungf:w1 s flag dispute chg lung disease	Categ
2	S2LUNGF	s2lungf:w2 s flag dispute chg lung disease	Categ
3	S3LUNGF	s3lungf:w3 s flag dispute chg lung disease	Categ
4	S4LUNGF	s4lungf:w4 s flag dispute chg lung disease	Categ
1	R1HEARTE	r1hearte:w1 r ever had heart problem	Categ
2	R2HEARTE	r2hearte:w2 r ever had heart problem	Categ
3	R3HEARTE	r3hearte:w3 r ever had heart problem	Categ
4	R4HEARTE	r4hearte:w4 r ever had heart problem	Categ
1	S1HEARTE	s1hearte:w1 s ever had heart problem	Categ
2	S2HEARTE	s2hearte:w2 s ever had heart problem	Categ
3	S3HEARTE	s3hearte:w3 s ever had heart problem	Categ
4	S4HEARTE	s4hearte:w4 s ever had heart problem	Categ
1	R1HEARTF	r1heartf:w1 r flag dispute chg heart problem	Categ
2	R2HEARTF	r2heartf:w2 r flag dispute chg heart problem	Categ
3	R3HEARTF	r3heartf:w3 r flag dispute chg heart problem	Categ
4	R4HEARTF	r4heartf:w4 r flag dispute chg heart problem	Categ
1	S1HEARTF	s1heartf:w1 s flag dispute chg heart problem	Categ
2	S2HEARTF	s2heartf:w2 s flag dispute chg heart problem	Categ
3	S3HEARTF	s3heartf:w3 s flag dispute chg heart problem	Categ
4	S4HEARTF	s4heartf:w4 s flag dispute chg heart problem	Categ
1	R1STROKE	r1stroke:w1 r ever had stroke	Categ
2	R2STROKE	r2stroke:w2 r ever had stroke	Categ
3	R3STROKE	r3stroke:w3 r ever had stroke	Categ
4	R4STROKE	r4stroke:w4 r ever had stroke	Categ
1	S1STROKE	s1stroke:w1 s ever had stroke	Categ
2	S2STROKE	s2stroke:w2 s ever had stroke	Categ
3	S3STROKE	s3stroke:w3 s ever had stroke	Categ
4	S4STROKE	s4stroke:w4 s ever had stroke	Categ
1	R1STROKF	r1strokf:w1 r flag dispute chg stroke	Categ
2	R2STROKF	r2strokf:w2 r flag dispute chg stroke	Categ
3	R3STROKF	r3strokf:w3 r flag dispute chg stroke	Categ
4	R4STROKF	r4strokf:w4 r flag dispute chg stroke	Categ
1	S1STROKF	s1strokf:w1 s flag dispute chg stroke	Categ
2	S2STROKF	s2strokf:w2 s flag dispute chg stroke	Categ
3	S3STROKF	s3strokf:w3 s flag dispute chg stroke	Categ
4	S4STROKF	s4strokf:w4 s flag dispute chg stroke	Categ
1	R1PSYCHE	r1psyche:w1 r ever had psych problem	Categ
2	R2PSYCHE	r2psyche:w2 r ever had psych problem	Categ
3	R3PSYCHE	r3psyche:w3 r ever had psych problem	Categ
4	R4PSYCHE	r4psyche:w4 r ever had psych problem	Categ
1	S1PSYCHE	s1psyche:w1 s ever had psych problem	Categ
2	S2PSYCHE	s2psyche:w2 s ever had psych problem	Categ
3	S3PSYCHE	s3psyche:w3 s ever had psych problem	Categ
4	S4PSYCHE	s4psyche:w4 s ever had psych problem	Categ
1	R1PSYCHF	r1psychf:w1 r flag dispute chg psych problem	Categ
2	R2PSYCHF	r2psychf:w2 r flag dispute chg psych problem	Categ

3	R3PSYCHF	r3psychf:w3	r	flag	dispute	chg	psych	problem	Categ
4	R4PSYCHF	r4psychf:w4	r	flag	dispute	chg	psych	problem	Categ
1	S1PSYCHF	s1psychf:w1	s	flag	dispute	chg	psych	problem	Categ
2	S2PSYCHF	s2psychf:w2	s	flag	dispute	chg	psych	problem	Categ
3	S3PSYCHF	s3psychf:w3	s	flag	dispute	chg	psych	problem	Categ
4	S4PSYCHF	s4psychf:w4	s	flag	dispute	chg	psych	problem	Categ
1	R1ARTHRE	r1arthre:w1	r	ever	had	arthriti			Categ
2	R2ARTHRE	r2arthre:w2	r	ever	had	arthriti			Categ
3	R3ARTHRE	r3arthre:w3	r	ever	had	arthriti			Categ
4	R4ARTHRE	r4arthre:w4	r	ever	had	arthriti			Categ
1	S1ARTHRE	s1arthre:w1	s	ever	had	arthriti			Categ
2	S2ARTHRE	s2arthre:w2	s	ever	had	arthriti			Categ
3	S3ARTHRE	s3arthre:w3	s	ever	had	arthriti			Categ
4	S4ARTHRE	s4arthre:w4	s	ever	had	arthriti			Categ
1	R1ARTHRF	r1arthrf:w1	r	flag	dispute	chg	arthriti		Categ
2	R2ARTHRF	r2arthrf:w2	r	flag	dispute	chg	arthriti		Categ
3	R3ARTHRF	r3arthrf:w3	r	flag	dispute	chg	arthriti		Categ
4	R4ARTHRF	r4arthrf:w4	r	flag	dispute	chg	arthriti		Categ
1	S1ARTHRF	s1arthrf:w1	s	flag	dispute	chg	arthriti		Categ
2	S2ARTHRF	s2arthrf:w2	s	flag	dispute	chg	arthriti		Categ
3	S3ARTHRF	s3arthrf:w3	s	flag	dispute	chg	arthriti		Categ
4	S4ARTHRF	s4arthrf:w4	s	flag	dispute	chg	arthriti		Categ
1	R1DYSLIPE	r1dyslipe:w1	r	ever	had	dyslipide			Categ
2	R2DYSLIPE	r2dyslipe:w2	r	ever	had	dyslipide			Categ
3	R3DYSLIPE	r3dyslipe:w3	r	ever	had	dyslipide			Categ
4	R4DYSLIPE	r4dyslipe:w4	r	ever	had	dyslipide			Categ
1	S1DYSLIPE	s1dyslipe:w1	s	ever	had	dyslipide			Categ
2	S2DYSLIPE	s2dyslipe:w2	s	ever	had	dyslipide			Categ
3	S3DYSLIPE	s3dyslipe:w3	s	ever	had	dyslipide			Categ
4	S4DYSLIPE	s4dyslipe:w4	s	ever	had	dyslipide			Categ
1	R1DYSLIPF	r1dyslipf:w1	r	flag	dispute	chg	dyslipide		Categ
2	R2DYSLIPF	r2dyslipf:w2	r	flag	dispute	chg	dyslipide		Categ
3	R3DYSLIPF	r3dyslipf:w3	r	flag	dispute	chg	dyslipide		Categ
4	R4DYSLIPF	r4dyslipf:w4	r	flag	dispute	chg	dyslipide		Categ
1	S1DYSLIPF	s1dyslipf:w1	s	flag	dispute	chg	dyslipide		Categ
2	S2DYSLIPF	s2dyslipf:w2	s	flag	dispute	chg	dyslipide		Categ
3	S3DYSLIPF	s3dyslipf:w3	s	flag	dispute	chg	dyslipide		Categ
4	S4DYSLIPF	s4dyslipf:w4	s	flag	dispute	chg	dyslipide		Categ
1	R1LIVERE	r1livere:w1	r	ever	had	liver	disease		Categ
2	R2LIVERE	r2livere:w2	r	ever	had	liver	disease		Categ
3	R3LIVERE	r3livere:w3	r	ever	had	liver	disease		Categ
4	R4LIVERE	r4livere:w4	r	ever	had	liver	disease		Categ
1	S1LIVERE	s1livere:w1	s	ever	had	liver	disease		Categ
2	S2LIVERE	s2livere:w2	s	ever	had	liver	disease		Categ
3	S3LIVERE	s3livere:w3	s	ever	had	liver	disease		Categ
4	S4LIVERE	s4livere:w4	s	ever	had	liver	disease		Categ
1	R1LIVERF	r1liverf:w1	r	flag	dispute	chg	liver	disease	Categ
2	R2LIVERF	r2liverf:w2	r	flag	dispute	chg	liver	disease	Categ
3	R3LIVERF	r3liverf:w3	r	flag	dispute	chg	liver	disease	Categ
4	R4LIVERF	r4liverf:w4	r	flag	dispute	chg	liver	disease	Categ
1	S1LIVERF	s1liverf:w1	s	flag	dispute	chg	liver	disease	Categ
2	S2LIVERF	s2liverf:w2	s	flag	dispute	chg	liver	disease	Categ
3	S3LIVERF	s3liverf:w3	s	flag	dispute	chg	liver	disease	Categ
4	S4LIVERF	s4liverf:w4	s	flag	dispute	chg	liver	disease	Categ
1	R1KIDNEYE	r1kidneye:w1	r	ever	had	kidney	disease		Categ

2	R2KIDNEYE	r2kidneye:w2	r	ever	had	kidney	disease	Categ	
3	R3KIDNEYE	r3kidneye:w3	r	ever	had	kidney	disease	Categ	
4	R4KIDNEYE	r4kidneye:w4	r	ever	had	kidney	disease	Categ	
1	S1KIDNEYE	s1kidneye:w1	s	ever	had	kidney	disease	Categ	
2	S2KIDNEYE	s2kidneye:w2	s	ever	had	kidney	disease	Categ	
3	S3KIDNEYE	s3kidneye:w3	s	ever	had	kidney	disease	Categ	
4	S4KIDNEYE	s4kidneye:w4	s	ever	had	kidney	disease	Categ	
1	R1KIDNEYF	r1kidneyf:w1	r	flag	dispute	chg	kidney	disease	Categ
2	R2KIDNEYF	r2kidneyf:w2	r	flag	dispute	chg	kidney	disease	Categ
3	R3KIDNEYF	r3kidneyf:w3	r	flag	dispute	chg	kidney	disease	Categ
4	R4KIDNEYF	r4kidneyf:w4	r	flag	dispute	chg	kidney	disease	Categ
1	S1KIDNEYF	s1kidneyf:w1	s	flag	dispute	chg	kidney	disease	Categ
2	S2KIDNEYF	s2kidneyf:w2	s	flag	dispute	chg	kidney	disease	Categ
3	S3KIDNEYF	s3kidneyf:w3	s	flag	dispute	chg	kidney	disease	Categ
4	S4KIDNEYF	s4kidneyf:w4	s	flag	dispute	chg	kidney	disease	Categ
1	R1DIGESTE	r1digeste:w1	r	ever	had	stomach/digestive	disease	Categ	
2	R2DIGESTE	r2digeste:w2	r	ever	had	stomach/digestive	disease	Categ	
3	R3DIGESTE	r3digeste:w3	r	ever	had	stomach/digestive	disease	Categ	
4	R4DIGESTE	r4digeste:w4	r	ever	had	stomach/digestive	disease	Categ	
1	S1DIGESTE	s1digeste:w1	s	ever	had	stomach/digestive	disease	Categ	
2	S2DIGESTE	s2digeste:w2	s	ever	had	stomach/digestive	disease	Categ	
3	S3DIGESTE	s3digeste:w3	s	ever	had	stomach/digestive	disease	Categ	
4	S4DIGESTE	s4digeste:w4	s	ever	had	stomach/digestive	disease	Categ	
1	R1DIGESTF	r1digestf:w1	r	flag	dispute	chg	stomach/digestive	disease	Categ
2	R2DIGESTF	r2digestf:w2	r	flag	dispute	chg	stomach/digestive	disease	Categ
3	R3DIGESTF	r3digestf:w3	r	flag	dispute	chg	stomach/digestive	disease	Categ
4	R4DIGESTF	r4digestf:w4	r	flag	dispute	chg	stomach/digestive	disease	Categ
1	S1DIGESTF	s1digestf:w1	s	flag	dispute	chg	stomach/digestive	disease	Categ
2	S2DIGESTF	s2digestf:w2	s	flag	dispute	chg	stomach/digestive	disease	Categ
3	S3DIGESTF	s3digestf:w3	s	flag	dispute	chg	stomach/digestive	disease	Categ
4	S4DIGESTF	s4digestf:w4	s	flag	dispute	chg	stomach/digestive	disease	Categ
1	R1ASTHMAE	r1asthmae:w1	r	ever	had	asthma		Categ	
2	R2ASTHMAE	r2asthmae:w2	r	ever	had	asthma		Categ	
3	R3ASTHMAE	r3asthmae:w3	r	ever	had	asthma		Categ	
4	R4ASTHMAE	r4asthmae:w4	r	ever	had	asthma		Categ	
1	S1ASTHMAE	s1asthmae:w1	s	ever	had	asthma		Categ	
2	S2ASTHMAE	s2asthmae:w2	s	ever	had	asthma		Categ	
3	S3ASTHMAE	s3asthmae:w3	s	ever	had	asthma		Categ	
4	S4ASTHMAE	s4asthmae:w4	s	ever	had	asthma		Categ	
1	R1ASTHMAF	r1asthmaf:w1	r	flag	dispute	chg	asthma	Categ	
2	R2ASTHMAF	r2asthmaf:w2	r	flag	dispute	chg	asthma	Categ	
3	R3ASTHMAF	r3asthmaf:w3	r	flag	dispute	chg	asthma	Categ	
4	R4ASTHMAF	r4asthmaf:w4	r	flag	dispute	chg	asthma	Categ	
1	S1ASTHMAF	s1asthmaf:w1	s	flag	dispute	chg	asthma	Categ	
2	S2ASTHMAF	s2asthmaf:w2	s	flag	dispute	chg	asthma	Categ	
3	S3ASTHMAF	s3asthmaf:w3	s	flag	dispute	chg	asthma	Categ	
4	S4ASTHMAF	s4asthmaf:w4	s	flag	dispute	chg	asthma	Categ	

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIBPE	17470	0.26	0.44	0.00	1.00
R2HIBPE	17680	0.28	0.45	0.00	1.00
R3HIBPE	17008	0.34	0.47	0.00	1.00
R4HIBPE	19780	0.38	0.49	0.00	1.00

S1HIBPE	14772	0.25	0.43	0.00	1.00
S2HIBPE	14873	0.27	0.44	0.00	1.00
S3HIBPE	14184	0.32	0.47	0.00	1.00
S4HIBPE	16354	0.37	0.48	0.00	1.00
R1HIBPF	17470	0.52	1.62	0.00	6.00
R2HIBPF	17678	0.40	1.33	0.00	6.00
R3HIBPF	17001	0.20	0.86	0.00	6.00
R4HIBPF	18895	0.00	0.10	0.00	4.00
S1HIBPF	14772	0.51	1.61	0.00	6.00
S2HIBPF	14871	0.39	1.32	0.00	6.00
S3HIBPF	14180	0.19	0.86	0.00	6.00
S4HIBPF	15641	0.00	0.11	0.00	4.00
R1DIABE	17408	0.06	0.24	0.00	1.00
R2DIABE	17534	0.07	0.26	0.00	1.00
R3DIABE	16877	0.10	0.30	0.00	1.00
R4DIABE	19792	0.13	0.33	0.00	1.00
S1DIABE	14723	0.06	0.24	0.00	1.00
S2DIABE	14752	0.07	0.26	0.00	1.00
S3DIABE	14093	0.10	0.30	0.00	1.00
S4DIABE	16356	0.13	0.33	0.00	1.00
R1DIABF	17408	0.21	1.06	0.00	6.00
R2DIABF	17533	0.16	0.87	0.00	6.00
R3DIABF	16876	0.09	0.60	0.00	6.00
R4DIABF	19379	0.00	0.00	0.00	0.00
S1DIABF	14723	0.20	1.05	0.00	6.00
S2DIABF	14751	0.16	0.86	0.00	6.00
S3DIABF	14093	0.09	0.58	0.00	6.00
S4DIABF	16054	0.00	0.00	0.00	0.00
R1CANCRE	17486	0.01	0.10	0.00	1.00
R2CANCRE	17637	0.01	0.11	0.00	1.00
R3CANCRE	17004	0.02	0.13	0.00	1.00
R4CANCRE	19795	0.02	0.15	0.00	1.00
S1CANCRE	14789	0.01	0.10	0.00	1.00
S2CANCRE	14843	0.01	0.11	0.00	1.00
S3CANCRE	14197	0.02	0.13	0.00	1.00
S4CANCRE	16355	0.02	0.15	0.00	1.00
R1CANCRF	17486	0.06	0.60	0.00	6.00
R2CANCRF	17637	0.05	0.48	0.00	6.00
R3CANCRF	17003	0.03	0.34	0.00	6.00
R4CANCRF	19675	0.00	0.00	0.00	0.00
S1CANCRF	14789	0.07	0.61	0.00	6.00
S2CANCRF	14843	0.05	0.49	0.00	6.00
S3CANCRF	14196	0.03	0.34	0.00	6.00
S4CANCRF	16288	0.00	0.00	0.00	0.00
R1LUNGE	17496	0.10	0.30	0.00	1.00
R2LUNGE	17660	0.11	0.31	0.00	1.00
R3LUNGE	17032	0.14	0.35	0.00	1.00
R4LUNGE	19791	0.15	0.36	0.00	1.00
S1LUNGE	14799	0.09	0.29	0.00	1.00
S2LUNGE	14854	0.10	0.30	0.00	1.00
S3LUNGE	14208	0.14	0.34	0.00	1.00
S4LUNGE	16357	0.15	0.36	0.00	1.00
R1LUNGF	17496	0.44	1.51	0.00	6.00
R2LUNGF	17659	0.32	1.19	0.00	6.00
R3LUNGF	17028	0.20	0.86	0.00	6.00
R4LUNGF	19358	0.00	0.10	0.00	3.00

S1LUNGF	14799	0.43	1.49	0.00	6.00
S2LUNGF	14854	0.31	1.17	0.00	6.00
S3LUNGF	14205	0.19	0.84	0.00	6.00
S4LUNGF	16036	0.00	0.09	0.00	3.00
R1HEARTE	17467	0.12	0.33	0.00	1.00
R2HEARTE	17655	0.14	0.34	0.00	1.00
R3HEARTE	16963	0.18	0.38	0.00	1.00
R4HEARTE	19783	0.20	0.40	0.00	1.00
S1HEARTE	14772	0.12	0.32	0.00	1.00
S2HEARTE	14852	0.13	0.34	0.00	1.00
S3HEARTE	14165	0.17	0.38	0.00	1.00
S4HEARTE	16352	0.19	0.39	0.00	1.00
R1HEARTF	17467	0.41	1.46	0.00	6.00
R2HEARTF	17655	0.30	1.15	0.00	6.00
R3HEARTF	16962	0.16	0.75	0.00	6.00
R4HEARTF	19282	0.00	0.00	0.00	0.00
S1HEARTF	14772	0.39	1.43	0.00	6.00
S2HEARTF	14852	0.28	1.12	0.00	6.00
S3HEARTF	14164	0.15	0.72	0.00	6.00
S4HEARTF	15992	0.00	0.00	0.00	0.00
R1STROKE	17526	0.03	0.16	0.00	1.00
R2STROKE	17704	0.03	0.17	0.00	1.00
R3STROKE	17065	0.04	0.20	0.00	1.00
R4STROKE	19793	0.07	0.26	0.00	1.00
S1STROKE	14818	0.03	0.16	0.00	1.00
S2STROKE	14894	0.03	0.17	0.00	1.00
S3STROKE	14241	0.04	0.19	0.00	1.00
S4STROKE	16355	0.07	0.25	0.00	1.00
R1STROKF	17526	0.12	0.81	0.00	6.00
R2STROKF	17704	0.09	0.62	0.00	6.00
R3STROKF	17065	0.05	0.39	0.00	6.00
R4STROKF	19648	0.00	0.00	0.00	0.00
S1STROKF	14818	0.12	0.79	0.00	6.00
S2STROKF	14894	0.08	0.60	0.00	6.00
S3STROKF	14241	0.04	0.37	0.00	6.00
S4STROKF	16275	0.00	0.00	0.00	0.00
R1PSYCHE	17490	0.01	0.12	0.00	1.00
R2PSYCHE	17663	0.02	0.12	0.00	1.00
R3PSYCHE	17033	0.02	0.15	0.00	1.00
R4PSYCHE	19797	0.03	0.18	0.00	1.00
S1PSYCHE	14789	0.01	0.12	0.00	1.00
S2PSYCHE	14865	0.01	0.12	0.00	1.00
S3PSYCHE	14222	0.02	0.15	0.00	1.00
S4PSYCHE	16357	0.03	0.17	0.00	1.00
R1PSYCHF	17490	0.08	0.68	0.00	6.00
R2PSYCHF	17663	0.06	0.52	0.00	6.00
R3PSYCHF	17033	0.04	0.36	0.00	6.00
R4PSYCHF	19671	0.00	0.02	0.00	3.00
S1PSYCHF	14789	0.08	0.68	0.00	6.00
S2PSYCHF	14865	0.06	0.52	0.00	6.00
S3PSYCHF	14222	0.04	0.36	0.00	6.00
S4PSYCHF	16288	0.00	0.02	0.00	3.00
R1ARTHRE	17524	0.33	0.47	0.00	1.00
R2ARTHRE	17753	0.34	0.47	0.00	1.00
R3ARTHRE	17049	0.44	0.50	0.00	1.00

## Section B: Health

119

R4ARTHRE	19779	0.39	0.49	0.00	1.00
S1ARTHRE	14815	0.32	0.47	0.00	1.00
S2ARTHRE	14927	0.33	0.47	0.00	1.00
S3ARTHRE	14223	0.42	0.49	0.00	1.00
S4ARTHRE	16352	0.38	0.48	0.00	1.00
R1ARTHRF	17524	1.09	2.21	0.00	6.00
R2ARTHRF	17748	0.76	1.69	0.00	6.00
R3ARTHRF	17045	0.41	1.13	0.00	6.00
R4ARTHRF	18727	0.00	0.00	0.00	0.00
S1ARTHRF	14815	1.09	2.21	0.00	6.00
S2ARTHRF	14922	0.75	1.69	0.00	6.00
S3ARTHRF	14221	0.40	1.12	0.00	6.00
S4ARTHRF	15511	0.00	0.00	0.00	0.00
R1DYSLIPE	17213	0.10	0.30	0.00	1.00
R2DYSLIPE	17162	0.13	0.34	0.00	1.00
R3DYSLIPE	16565	0.19	0.39	0.00	1.00
R4DYSLIPE	19779	0.22	0.41	0.00	1.00
S1DYSLIPE	14567	0.10	0.30	0.00	1.00
S2DYSLIPE	14470	0.13	0.34	0.00	1.00
S3DYSLIPE	13873	0.19	0.39	0.00	1.00
S4DYSLIPE	16353	0.22	0.41	0.00	1.00
R1DYSLIPF	17213	0.22	1.09	0.00	6.00
R2DYSLIPF	17160	0.13	0.66	0.00	6.00
R3DYSLIPF	16560	0.10	0.51	0.00	6.00
R4DYSLIPF	19287	0.00	0.00	0.00	0.00
S1DYSLIPF	14567	0.23	1.10	0.00	6.00
S2DYSLIPF	14468	0.13	0.66	0.00	6.00
S3DYSLIPF	13868	0.10	0.50	0.00	6.00
S4DYSLIPF	15965	0.00	0.00	0.00	0.00
R1LIVERE	17438	0.03	0.18	0.00	1.00
R2LIVERE	17580	0.04	0.20	0.00	1.00
R3LIVERE	16955	0.06	0.25	0.00	1.00
R4LIVERE	19792	0.07	0.25	0.00	1.00
S1LIVERE	14748	0.03	0.18	0.00	1.00
S2LIVERE	14795	0.04	0.20	0.00	1.00
S3LIVERE	14162	0.07	0.25	0.00	1.00
S4LIVERE	16356	0.07	0.25	0.00	1.00
R1LIVERF	17438	0.22	1.10	0.00	6.00
R2LIVERF	17580	0.16	0.85	0.00	6.00
R3LIVERF	16954	0.10	0.59	0.00	6.00
R4LIVERF	19546	0.00	0.00	0.00	0.00
S1LIVERF	14748	0.23	1.11	0.00	6.00
S2LIVERF	14795	0.17	0.86	0.00	6.00
S3LIVERF	14162	0.10	0.59	0.00	6.00
S4LIVERF	16174	0.00	0.00	0.00	0.00
R1KIDNEYE	17452	0.06	0.23	0.00	1.00
R2KIDNEYE	17606	0.07	0.25	0.00	1.00
R3KIDNEYE	16972	0.10	0.30	0.00	1.00
R4KIDNEYE	19794	0.10	0.30	0.00	1.00
S1KIDNEYE	14767	0.06	0.23	0.00	1.00
S2KIDNEYE	14827	0.07	0.25	0.00	1.00
S3KIDNEYE	14186	0.10	0.30	0.00	1.00
S4KIDNEYE	16356	0.10	0.30	0.00	1.00
R1KIDNEYF	17452	0.32	1.30	0.00	6.00
R2KIDNEYF	17604	0.24	1.02	0.00	6.00



R3KIDNEYF	16970	0.14	0.72	0.00	6.00
R4KIDNEYF	19445	0.00	0.00	0.00	0.00
S1KIDNEYF	14767	0.33	1.32	0.00	6.00
S2KIDNEYF	14825	0.24	1.03	0.00	6.00
S3KIDNEYF	14184	0.14	0.72	0.00	6.00
S4KIDNEYF	16104	0.00	0.00	0.00	0.00
R1DIGESTE	17517	0.22	0.41	0.00	1.00
R2DIGESTE	17734	0.24	0.43	0.00	1.00
R3DIGESTE	17051	0.32	0.47	0.00	1.00
R4DIGESTE	19785	0.30	0.46	0.00	1.00
S1DIGESTE	14811	0.22	0.41	0.00	1.00
S2DIGESTE	14922	0.24	0.43	0.00	1.00
S3DIGESTE	14225	0.32	0.47	0.00	1.00
S4DIGESTE	16354	0.30	0.46	0.00	1.00
R1DIGESTF	17517	0.76	1.92	0.00	6.00
R2DIGESTF	17732	0.55	1.50	0.00	6.00
R3DIGESTF	17046	0.29	0.96	0.00	6.00
R4DIGESTF	19012	0.00	0.00	0.00	0.00
S1DIGESTF	14811	0.76	1.92	0.00	6.00
S2DIGESTF	14920	0.55	1.49	0.00	6.00
S3DIGESTF	14223	0.29	0.95	0.00	6.00
S4DIGESTF	15747	0.00	0.00	0.00	0.00
R1ASTHMAE	17497	0.04	0.21	0.00	1.00
R2ASTHMAE	17684	0.05	0.21	0.00	1.00
R3ASTHMAE	17038	0.06	0.24	0.00	1.00
R4ASTHMAE	19797	0.06	0.24	0.00	1.00
S1ASTHMAE	14795	0.04	0.20	0.00	1.00
S2ASTHMAE	14879	0.04	0.20	0.00	1.00
S3ASTHMAE	14232	0.06	0.23	0.00	1.00
S4ASTHMAE	16357	0.05	0.23	0.00	1.00
R1ASTHMAF	17497	0.19	1.01	0.00	6.00
R2ASTHMAF	17684	0.14	0.76	0.00	6.00
R3ASTHMAF	17038	0.07	0.49	0.00	6.00
R4ASTHMAF	19606	0.00	0.00	0.00	0.00
S1ASTHMAF	14795	0.18	0.98	0.00	6.00
S2ASTHMAF	14879	0.13	0.74	0.00	6.00
S3ASTHMAF	14232	0.07	0.47	0.00	6.00
S4ASTHMAF	16238	0.00	0.00	0.00	0.00

### Categorical Variable Codes

Value-----	R1HIBPE	R2HIBPE	R3HIBPE	R4HIBPE
.d:dk	109			
.m:missing	126	932	1223	36
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	12935	12691	11248	12217
1.Yes	4535	4989	5760	7563
Value-----	S1HIBPE	S2HIBPE	S3HIBPE	S4HIBPE
.d:dk	87			
.m:missing	49	707	985	8
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	11087	10831	9578	10360
1.Yes	3685	4042	4606	5994

Value-----	R1HIBPF	R2HIBPF	R3HIBPF	R4HIBPF
0.No dispute	15844	16006	15939	18875
2.Disp last iw N -> Y		432	497	
3.Disp last iw Y -> N, still no		304	260	18
4.Disp last iw Y -> N, now yes		23	99	2
5.Disp aft, N -> Y	751	311		
6.Disp aft, Y -> N	875	602	206	
Value-----	S1HIBPF	S2HIBPF	S3HIBPF	S4HIBPF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	517
0.No dispute	13419	13498	13328	15621
2.Disp last iw N -> Y		352	388	
3.Disp last iw Y -> N, still no		255	217	18
4.Disp last iw Y -> N, now yes		20	74	2
5.Disp aft, N -> Y	610	245		
6.Disp aft, Y -> N	743	501	173	
Value-----	R1DIABE	R2DIABE	R3DIABE	R4DIABE
.d:dk	148			
.m:missing	150	1078	1354	24
.r:refuse	2			
.x:Joined panel in w3			2866	
0.No	16346	16222	15207	17254
1.Yes	1062	1312	1670	2538
Value-----	S1DIABE	S2DIABE	S3DIABE	S4DIABE
.d:dk	117			
.m:missing	68	828	1076	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13822	13646	12716	14272
1.Yes	901	1106	1377	2084
Value-----	R1DIABF	R2DIABF	R3DIABF	R4DIABF
0.No dispute	16763	16868	16414	19379
2.Disp last iw N -> Y		152	224	
3.Disp last iw Y -> N, still no		139	119	
4.Disp last iw Y -> N, now yes		9	7	
5.Disp aft, N -> Y	278	121		
6.Disp aft, Y -> N	367	244	112	
Value-----	S1DIABF	S2DIABF	S3DIABF	S4DIABF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	517
0.No dispute	14185	14210	13724	16054
2.Disp last iw N -> Y		122	182	
3.Disp last iw Y -> N, still no		114	90	
4.Disp last iw Y -> N, now yes		5	7	
5.Disp aft, N -> Y	230	98		
6.Disp aft, Y -> N	308	202	90	
Value-----	R1CANCRE	R2CANCRE	R3CANCRE	R4CANCRE
.d:dk	72			
.m:missing	147	975	1227	21
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17319	17426	16709	19346
1.Yes	167	211	295	449
Value-----	S1CANCRE	S2CANCRE	S3CANCRE	S4CANCRE
.d:dk	55			
.m:missing	64	737	972	7
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517

.x:Joined panel in w3			2555	
0.No	14640	14657	13943	15992
1.Yes	149	186	254	363
Value-----	R1CANCRF	R2CANCRF	R3CANCRF	R4CANCRF
0.No dispute	17284	17426	16829	19675
2.Disp last iw N -> Y		39	85	
3.Disp last iw Y -> N, still no		64	59	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	77	39		
6.Disp aft, Y -> N	125	69	29	
Value-----	S1CANCRF	S2CANCRF	S3CANCRF	S4CANCRF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	517
0.No dispute	14615	14661	14043	16288
2.Disp last iw N -> Y		33	76	
3.Disp last iw Y -> N, still no		56	53	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	65	36		
6.Disp aft, Y -> N	109	57	23	
Value-----	R1LUNGE	R2LUNGE	R3LUNGE	R4LUNGE
.d:dk	66			
.m:missing	142	952	1199	25
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	15792	15755	14597	16736
1.Yes	1704	1905	2435	3055
Value-----	S1LUNGE	S2LUNGE	S3LUNGE	S4LUNGE
.d:dk	47			
.m:missing	62	726	961	5
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13421	13336	12271	13937
1.Yes	1378	1518	1937	2420
Value-----	R1LUNGF	R2LUNGF	R3LUNGF	R4LUNGF
0.No dispute	16111	16225	15976	19338
2.Disp last iw N -> Y		392	425	
3.Disp last iw Y -> N, still no		343	390	20
4.Disp last iw Y -> N, now yes		13	27	
5.Disp aft, N -> Y	608	250		
6.Disp aft, Y -> N	777	436	210	
Value-----	S1LUNGF	S2LUNGF	S3LUNGF	S4LUNGF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	518
0.No dispute	13653	13686	13377	16021
2.Disp last iw N -> Y		315	329	
3.Disp last iw Y -> N, still no		285	309	15
4.Disp last iw Y -> N, now yes		10	20	
5.Disp aft, N -> Y	500	205		
6.Disp aft, Y -> N	646	353	170	
Value-----	R1HEARTE	R2HEARTE	R3HEARTE	R4HEARTE
.d:dk	92			
.m:missing	145	957	1268	33
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	15337	15226	13896	15884
1.Yes	2130	2429	3067	3899
Value-----	S1HEARTE	S2HEARTE	S3HEARTE	S4HEARTE
.d:dk	69			
.m:missing	66	728	1004	10

.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13031	12885	11717	13244
1.Yes	1741	1967	2448	3108
Value-----	R1HEARTF	R2HEARTF	R3HEARTF	R4HEARTF
0.No dispute	16181	16331	16088	19282
2.Disp last iw N -> Y		324	437	
3.Disp last iw Y -> N, still no		343	266	
4.Disp last iw Y -> N, now yes		22	19	
5.Disp aft, N -> Y	577	249		
6.Disp aft, Y -> N	709	386	152	
Value-----	S1HEARTF	S2HEARTF	S3HEARTF	S4HEARTF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	656	518
0.No dispute	13720	13798	13474	15992
2.Disp last iw N -> Y		259	355	
3.Disp last iw Y -> N, still no		273	201	
4.Disp last iw Y -> N, now yes		15	17	
5.Disp aft, N -> Y	480	207		
6.Disp aft, Y -> N	572	300	117	
Value-----	R1STROKE	R2STROKE	R3STROKE	R4STROKE
.d:dk	37			
.m:missing	142	908	1166	23
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17040	17147	16387	18368
1.Yes	486	557	678	1425
Value-----	S1STROKE	S2STROKE	S3STROKE	S4STROKE
.d:dk	25			
.m:missing	65	686	928	7
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14442	14460	13724	15263
1.Yes	376	434	517	1092
Value-----	R1STROKF	R2STROKF	R3STROKF	R4STROKF
0.No dispute	17133	17296	16785	19648
2.Disp last iw N -> Y		125	156	
3.Disp last iw Y -> N, still no		103	88	
4.Disp last iw Y -> N, now yes			2	
5.Disp aft, N -> Y	209	85		
6.Disp aft, Y -> N	184	95	34	
Value-----	S1STROKF	S2STROKF	S3STROKF	S4STROKF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	655	517
0.No dispute	14503	14570	14027	16275
2.Disp last iw N -> Y		98	121	
3.Disp last iw Y -> N, still no		85	67	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	164	66		
6.Disp aft, Y -> N	151	75	25	
Value-----	R1PSYCHE	R2PSYCHE	R3PSYCHE	R4PSYCHE
.d:dk	45			
.m:missing	169	949	1198	19
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	17232	17386	16630	19150
1.Yes	258	277	403	647

## Section B: Health

124

Value-----	S1PSYCHE	S2PSYCHE	S3PSYCHE	S4PSYCHE
.d:dk	32			
.m:missing	86	715	947	5
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14585	14649	13907	15865
1.Yes	204	216	315	492

Value-----	R1PSYCHF	R2PSYCHF	R3PSYCHF	R4PSYCHF
0.No dispute	17224	17399	16804	19670
2.Disp last iw N -> Y		50	132	
3.Disp last iw Y -> N, still no		85	66	1
4.Disp last iw Y -> N, now yes			2	
5.Disp aft, N -> Y	126	72		
6.Disp aft, Y -> N	140	57	29	

Value-----	S1PSYCHF	S2PSYCHF	S3PSYCHF	S4PSYCHF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	655	517
0.No dispute	14563	14645	14038	16287
2.Disp last iw N -> Y		41	106	
3.Disp last iw Y -> N, still no		69	51	1
4.Disp last iw Y -> N, now yes			2	
5.Disp aft, N -> Y	106	61		
6.Disp aft, Y -> N	120	49	25	

Value-----	R1ARTHRE	R2ARTHRE	R3ARTHRE	R4ARTHRE
.d:dk	43			
.m:missing	138	859	1182	37
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	11818	11680	9627	12092
1.Yes	5706	6073	7422	7687

Value-----	S1ARTHRE	S2ARTHRE	S3ARTHRE	S4ARTHRE
.d:dk	34			
.m:missing	59	653	946	10
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	10058	9959	8185	10202
1.Yes	4757	4968	6038	6150

Value-----	R1ARTHRF	R2ARTHRF	R3ARTHRF	R4ARTHRF
0.No dispute	14081	14213	14736	18727
2.Disp last iw N -> Y		1131	987	
3.Disp last iw Y -> N, still no		871	968	
4.Disp last iw Y -> N, now yes		34	36	
5.Disp aft, N -> Y	1610	513		
6.Disp aft, Y -> N	1833	986	318	

Value-----	S1ARTHRF	S2ARTHRF	S3ARTHRF	S4ARTHRF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	655	520
0.No dispute	11903	11992	12338	15511
2.Disp last iw N -> Y		933	795	
3.Disp last iw Y -> N, still no		719	802	
4.Disp last iw Y -> N, now yes		27	27	
5.Disp aft, N -> Y	1361	424		
6.Disp aft, Y -> N	1551	827	259	

Value-----	R1DYSLIPE	R2DYSLIPE	R3DYSLIPE	R4DYSLIPE
.d:dk	338			
.m:missing	152	1450	1666	37
.r:refuse	5			
.x:Joined panel in w3			2866	

## Section B: Health

125

0.No	15517	14861	13467	15438
1.Yes	1696	2301	3098	4341
Value-----	S1DYSLIPE	S2DYSLIPE	S3DYSLIPE	S4DYSLIPE
.d:dk	266			
.m:missing	73	1110	1296	9
.r:refuse	4			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13107	12517	11264	12744
1.Yes	1460	1953	2609	3609
Value-----	R1DYSLIPF	R2DYSLIPF	R3DYSLIPF	R4DYSLIPF
0.No dispute	16501	16440	15882	19287
2.Disp last iw N -> Y		300	402	
3.Disp last iw Y -> N, still no		270	254	
4.Disp last iw Y -> N, now yes		9	13	
5.Disp aft, N -> Y	401	110		
6.Disp aft, Y -> N	311	31	9	
Value-----	S1DYSLIPF	S2DYSLIPF	S3DYSLIPF	S4DYSLIPF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	519
0.No dispute	13946	13858	13313	15965
2.Disp last iw N -> Y		259	329	
3.Disp last iw Y -> N, still no		217	207	
4.Disp last iw Y -> N, now yes		9	12	
5.Disp aft, N -> Y	361	100		
6.Disp aft, Y -> N	260	25	7	
Value-----	R1LIVERE	R2LIVERE	R3LIVERE	R4LIVERE
.d:dk	123			
.m:missing	144	1032	1276	24
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	16833	16814	15856	18418
1.Yes	605	766	1099	1374
Value-----	S1LIVERE	S2LIVERE	S3LIVERE	S4LIVERE
.d:dk	98			
.m:missing	62	785	1007	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14233	14149	13239	15214
1.Yes	515	646	923	1142
Value-----	R1LIVERF	R2LIVERF	R3LIVERF	R4LIVERF
0.No dispute	16751	16869	16394	19546
2.Disp last iw N -> Y		150	258	
3.Disp last iw Y -> N, still no		241	211	
4.Disp last iw Y -> N, now yes		4	6	
5.Disp aft, N -> Y	259	105		
6.Disp aft, Y -> N	428	211	85	
Value-----	S1LIVERF	S2LIVERF	S3LIVERF	S4LIVERF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	517
0.No dispute	14156	14181	13698	16174
2.Disp last iw N -> Y		130	212	
3.Disp last iw Y -> N, still no		207	176	
4.Disp last iw Y -> N, now yes		2	4	
5.Disp aft, N -> Y	222	84		
6.Disp aft, Y -> N	370	191	72	
Value-----	R1KIDNEYE	R2KIDNEYE	R3KIDNEYE	R4KIDNEYE
.d:dk	103			

.m:missing	150	1006	1259	22
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	16473	16446	15279	17829
1.Yes	979	1160	1693	1965
Value-----	S1KIDNEYE	S2KIDNEYE	S3KIDNEYE	S4KIDNEYE
.d:dk	73			
.m:missing	68	753	983	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13940	13859	12772	14737
1.Yes	827	968	1414	1619
Value-----	R1KIDNEYF	R2KIDNEYF	R3KIDNEYF	R4KIDNEYF
0.No dispute	16471	16572	16202	19445
2.Disp last iw N -> Y		216	339	
3.Disp last iw Y -> N, still no		337	282	
4.Disp last iw Y -> N, now yes		5	8	
5.Disp aft, N -> Y	357	145		
6.Disp aft, Y -> N	624	329	139	
Value-----	S1KIDNEYF	S2KIDNEYF	S3KIDNEYF	S4KIDNEYF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	655	517
0.No dispute	13915	13952	13537	16104
2.Disp last iw N -> Y		177	280	
3.Disp last iw Y -> N, still no		284	242	
4.Disp last iw Y -> N, now yes		4	7	
5.Disp aft, N -> Y	300	125		
6.Disp aft, Y -> N	552	283	118	
Value-----	R1DIGESTE	R2DIGESTE	R3DIGESTE	R4DIGESTE
.d:dk	48			
.m:missing	140	878	1180	31
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	13737	13463	11626	13834
1.Yes	3780	4271	5425	5951
Value-----	S1DIGESTE	S2DIGESTE	S3DIGESTE	S4DIGESTE
.d:dk	35			
.m:missing	62	658	944	8
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	11576	11348	9685	11495
1.Yes	3235	3574	4540	4859
Value-----	R1DIGESTF	R2DIGESTF	R3DIGESTF	R4DIGESTF
0.No dispute	15115	15222	15384	19012
2.Disp last iw N -> Y		753	684	
3.Disp last iw Y -> N, still no		598	751	
4.Disp last iw Y -> N, now yes		29	35	
5.Disp aft, N -> Y	1072	372		
6.Disp aft, Y -> N	1330	758	192	
Value-----	S1DIGESTF	S2DIGESTF	S3DIGESTF	S4DIGESTF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	655	518
0.No dispute	12777	12832	12856	15747
2.Disp last iw N -> Y		640	539	
3.Disp last iw Y -> N, still no		490	640	
4.Disp last iw Y -> N, now yes		25	31	
5.Disp aft, N -> Y	902	288		
6.Disp aft, Y -> N	1132	645	157	

Value-----	R1ASTHMAE	R2ASTHMAE	R3ASTHMAE	R4ASTHMAE
.d:dk	28			
.m:missing	180	928	1193	19
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	16724	16878	16026	18629
1.Yes	773	806	1012	1168
Value-----	S1ASTHMAE	S2ASTHMAE	S3ASTHMAE	S4ASTHMAE
.d:dk	18			
.m:missing	95	701	937	5
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14196	14255	13446	15462
1.Yes	599	624	786	895
Value-----	R1ASTHMAF	R2ASTHMAF	R3ASTHMAF	R4ASTHMAF
0.No dispute	16870	17038	16592	19606
2.Disp last iw N -> Y		213	262	
3.Disp last iw Y -> N, still no		146	131	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	378	175		
6.Disp aft, Y -> N	249	112	52	
Value-----	S1ASTHMAF	S2ASTHMAF	S3ASTHMAF	S4ASTHMAF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	654	517
0.No dispute	14292	14373	13887	16238
2.Disp last iw N -> Y		167	195	
3.Disp last iw Y -> N, still no		108	107	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	304	139		
6.Disp aft, Y -> N	199	92	42	

## How Constructed:

RwHIBPE, RwDIABE, RwcANCRE, RwlUNGE, RwhEARTE, RwSTROKE, RwpSYCHE, RwarTHRE, RwdYSLIPE, RwlIVERE, RwkIDNEYE, RwdIGESTE and RwASTHMAE indicate the respondent's answer to the question regarding whether or not a doctor has told the respondent they had a specific condition.

A code of 0 indicates that the respondent does not report having been told by a doctor they have the condition. A code of 1 indicates that the respondent reports having been told by a doctor they have the condition. An affirmative report can either be based on a report in the current wave or based on a respondent's previous report of the condition after confirming in the current wave. Special missing (.x) is assigned at Wave 3 if the respondent is missing a value due to an error in the Life History Survey code for "ever had" responses for all the above variables. There are around 2,000 respondents interviewed in the Life History Survey and Wave 3 but not in previous waves that were only asked whether they have had a condition since the last interview. Thus, no value can be assigned to these respondents. Don't know, missing, or refused values of RwHIBPE, RwDIABE, RwcANCRE, RwlUNGE, RwhEARTE, RwSTROKE, RwpSYCHE, RwarTHRE, RwdYSLIPE, RwlIVERE, RwkIDNEYE, RwdIGESTE and RwASTHMAE are assigned special missing codes (.d), (.m), (.r), respectively. RwHIBPE, RwDIABE, RwcANCRE, RwlUNGE, RwhEARTE, RwSTROKE, RwpSYCHE, RwarTHRE, RwdYSLIPE, RwlIVERE, RwkIDNEYE, RwdIGESTE and RwASTHMAE are set to plain missing (.) for respondents who did not respond to this wave.

RwHIBPE indicates whether the respondent reported having hypertension.

RwDIABE indicates whether the respondent reported having diabetes or high blood sugar.

RwcANCRE indicates whether the respondent reported having cancer or a malignant tumor (excluding minor skin cancers).

RwlUNGE indicates whether the respondent reported having chronic lung disease such as chronic bronchitis or emphysema (excluding tumors, or cancer).



RwHEARTE indicates whether the respondent reported having heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems.

RwSTROKE indicates whether the respondent reported having a stroke.

RwPSYCHE indicates whether the respondent reported having any emotional, nervous, or psychiatric problems.

RwARTHRE indicates whether the respondent reported having arthritis or rheumatism.

RwDYSLIPE indicates whether the respondent reported ever having dyslipidemia (elevation of low density lipoprotein, triglycerides (TGs), and total cholesterol, or a low high density lipoprotein level).

RwLIVERE indicates whether the respondent reported having any liver disease (except fatty liver, tumors, and cancer).

RwKIDNEYE indicates whether the respondent reported having any kidney disease (except for tumor or cancer).

RwDIGESTE indicates whether the respondent reported having any stomach or other digestive disease (except for tumor or cancer).

RwASTHMAE indicates whether the respondent reported having asthma.

SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, SwARTHRE, SwDYSLIPE, SwLIVERE, SwKIDNEYE, SwDIGESTE, and SwASTHMAE indicate whether the respondent's spouse reported ever being told by a doctor he/she has any of these conditions and are taken directly from the spouse's SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, SwARTHRE, SwDYSLIPE, SwLIVERE, SwKIDNEYE, SwDIGESTE and SwASTHMAE, respectively. In addition to the special missing codes used in SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, and SwARTHRE, SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, SwARTHRE, SwDYSLIPE, SwLIVERE, SwKIDNEYE, SwDIGESTE, and SwASTHMAE employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

In the respondent's baseline interview, the respondent is asked whether they have been diagnosed with each condition. After the respondent's baseline interview, the respondent is read each of their answers to whether diagnosed in the last interview and asked whether this answer was correct. Respondents can agree or disagree with their last report. If the respondent previously reported having had the condition and then disagrees with their previous report, they are then asked whether they have been diagnosed with the condition since the last interview. If the respondent previously reported not having the condition and then disagrees with their previous report, they are then asked information about when their condition was first diagnosed. If the respondent previously reported not having had the condition and confirms with their previous report, they are then asked whether they have been diagnosed with the condition since the last interview. If any previous report is disputed, the variable for the previous wave is changed based on the dispute. For example if a respondent reported being diagnosed with high blood pressure at Wave 1, but then disputed the Wave 1 report at Wave 2, then RlHIBPE is changed to 0.no.

Starting at Wave 4, respondents were no longer read each of their answers to whether diagnosed in the last interview and asked which answer was correct. Instead, if the respondent previously reported having the condition, they are then asked if the condition is better, worse or about the same as the last interview. If the respondent claims to have never had the condition, the variable for the previous wave is changed based on the dispute.

RwHIBPF, RwDIABF, RwCANCRF, RwLUNGF, RwHEARTF, RwSTROKF, RwPSYCHF, RwARTHRF, RwDYSLIPF, RwLIVERF, RwKIDNEYF, RwDIGESTF and RwASTHMAF indicate whether a previous report is disputed at the current interview or a later interview. These flag variables differentiate between instances where the respondent was asked to dispute a negative previous report, disputed a positive previous report and report they have not been diagnosed with the condition since the last interview, and dispute a positive previous report but report that they have been diagnosed with the condition since the last interview, a condition they had never reported (a mistake in the preloaded condition) and instances where the respondent disputed a condition which they had previously reported. The codes for the flag variables are: 0) no dispute and no change to previous wave variable; 2) disputes the last interview's report of not having the condition, both current and previous wave variables are set to 1.yes; 3) disputes the last interview's report of having had the condition and reports that they have also not been diagnosed with the condition since the last interview, both current and previous

wave variables are set to 0.no; 4) disputes the last interview's report of having had the condition but reports they have been diagnosed with the condition since the last interview, the current variable is set to 1.yes and the previous wave variable is set to 0.no; 5) the current wave's report of not having the condition was disputed at a later wave, the current wave variable has been changed to 1.yes; 6) the current wave's report of having the condition was disputed at a later wave, the current wave variable has been changed to 0.no.

SwHIBPF, SwDIABF, SwCANCRF, SwLUNGF, SwHEARTF, SwSTROKF, SwPSYCHF, SwARTHRF, SwDYSLIPF, SwLIVERF, SwKIDNEYF, SwDIGESTF and SwASTHMAF are taken directly from the spouse's responses to RwhIBPF, RwdIABF, RwcANCRF, RwlUNGF, RwhEARTF, RwsTROKF, RwpSYCHF, RwarTRF, RwdYSLIPF, RwlIVERF, RwkIDNEYF, RwdIGESTF and RwaSTHMAF, respectively. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 2 and 3, re-interview respondents were asked to confirm whether they ever had or had not had each condition based on their previous report. If the respondent disputes the previous report, re-interview respondents are then asked whether they have been diagnosed with the condition since the last interview.

Starting at Wave 4, respondents were no longer asked to confirm whether they ever had or had not had each condition based on their previous report. Instead, if the respondent previously reported having the condition, they are then asked if the condition is better, worse or about the same as the last interview.

There are a number of interviews starting at Wave 2 that are classified as re-interviews but who are not included in any of the former wave's current data and whose previous wave's reports were not given to the interviewer.

At Wave 3, respondents may be missing values due to an error in the Life History Survey code for "ever had" responses for doctor diagnosed health problems.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the CHARLS includes 5 additional chronic disease questions for the respondent to answer: dyslipidemia, liver disease, kidney disease, stomach or other digestive disease, and asthma.

In the HRS, respondents are only asked to dispute previous reports of having had a condition. Unlike the HRS, CHARLS allows respondents to dispute both a positive and a negative previous report. Due to different sort of disputes which are allowed in CHARLS, the codes for the dispute flag variables in the Harmonized CHARLS are not comparable to the codes for the dispute variables in the RAND HRS, even though these flag variables have the same name.

## CHARLS Variables Used:

### Wave 1:

DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease

### Wave 2:

DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease

DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record

DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA010_W2_2_10_	Digestive Disease Compared to ZIWTime
DA010_W2_2_11_	Emotional Problems Compared to ZIWTime
DA010_W2_2_13_	Arthritis Compared to ZIWTime
DA010_W2_2_14_	Asthma Compared to ZIWTime
DA010_W2_2_1_	Hypertension Compared to ZIWTime
DA010_W2_2_2_	Dyslipidemia Compared to ZIWTime
DA010_W2_2_3_	Diabetes Compared to ZIWTime
DA010_W2_2_4_	Cancer Compared to ZIWTime
DA010_W2_2_5_	Chronic Lung Diseases Compared to ZIWTime
DA010_W2_2_6_	Liver Disease Compared to ZIWTime
DA010_W2_2_7_	Heart Problems Compared to ZIWTime
DA010_W2_2_8_	Stroke Compared to ZIWTime
DA010_W2_2_9_	Kidney Disease Compared to ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime

---

ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Doctor diagnosed health problems: Memory-related disease</b>
---

Wave	Variable	Label	Type
1	R1MEMRYE	r1memrye:w1 r ever had memory problem	Categ
2	R2MEMRYE	r2memrye:w2 r ever had memory problem	Categ
3	R3MEMRYE	r3memrye:w3 r ever had memory problem	Categ
4	R4MEMRYE	r4memrye:w4 r ever had memory problem	Categ
1	S1MEMRYE	s1memrye:w1 s ever had memory problem	Categ
2	S2MEMRYE	s2memrye:w2 s ever had memory problem	Categ
3	S3MEMRYE	s3memrye:w3 s ever had memory problem	Categ
4	S4MEMRYE	s4memrye:w4 s ever had memory problem	Categ
1	R1MEMRYF	r1memryf:w1 r flag dispute chg memory problem	Categ
2	R2MEMRYF	r2memryf:w2 r flag dispute chg memory problem	Categ
3	R3MEMRYF	r3memryf:w3 r flag dispute chg memory problem	Categ
4	R4MEMRYF	r4memryf:w4 r flag dispute chg memory problem	Categ
1	S1MEMRYF	s1memryf:w1 s flag dispute memory problem	Categ
2	S2MEMRYF	s2memryf:w2 s flag dispute memory problem	Categ
3	S3MEMRYF	s3memryf:w3 s flag dispute memory problem	Categ
4	S4MEMRYF	s4memryf:w4 s flag dispute memory problem	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MEMRYE	17507	0.02	0.14	0.00	1.00
R2MEMRYE	17672	0.02	0.15	0.00	1.00
R3MEMRYE	17017	0.03	0.17	0.00	1.00
R4MEMRYE	19796	0.04	0.20	0.00	1.00
S1MEMRYE	14805	0.02	0.13	0.00	1.00
S2MEMRYE	14875	0.02	0.14	0.00	1.00
S3MEMRYE	14216	0.03	0.17	0.00	1.00
S4MEMRYE	16356	0.04	0.18	0.00	1.00
R1MEMRYF	17507	0.11	0.77	0.00	6.00
R2MEMRYF	17671	0.08	0.60	0.00	6.00
R3MEMRYF	17017	0.05	0.41	0.00	6.00
R4MEMRYF	19630	0.00	0.00	0.00	0.00
S1MEMRYF	14805	0.11	0.76	0.00	6.00
S2MEMRYF	14874	0.08	0.59	0.00	6.00
S3MEMRYF	14216	0.04	0.38	0.00	6.00
S4MEMRYF	16264	0.00	0.00	0.00	0.00

### Categorical Variable Codes

Value	R1MEMRYE	R2MEMRYE	R3MEMRYE	R4MEMRYE
.d:dk	46			
.m:missing	152	940	1214	20
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17174	17258	16481	19002
1.Yes	333	414	536	794

  

Value	S1MEMRYE	S2MEMRYE	S3MEMRYE	S4MEMRYE
.d:dk	32			
.m:missing	71	705	953	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	

0.No	14554	14566	13810	15781
1.Yes	251	309	406	575
Value-----	R1MEMRYF	R2MEMRYF	R3MEMRYF	R4MEMRYF
0.No dispute	17152	17306	16745	19630
2.Disp last iw N -> Y		100	152	
3.Disp last iw Y -> N, still no		89	77	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	189	88		
6.Disp aft, Y -> N	166	88	42	
Value-----	S1MEMRYF	S2MEMRYF	S3MEMRYF	S4MEMRYF
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	623	655	517
0.No dispute	14519	14589	14009	16264
2.Disp last iw N -> Y		74	119	
3.Disp last iw Y -> N, still no		72	56	
4.Disp last iw Y -> N, now yes			1	
5.Disp aft, N -> Y	153	69		
6.Disp aft, Y -> N	133	70	31	

### How Constructed:

RwMEMRYE indicates the respondent's response to the question regarding whether or not a doctor has told the respondent they have a memory related condition. A code of 0 indicates that the respondent does not report having been told by a doctor. A code of 1 indicates that the respondent reports having been told by a doctor they have the condition. This positive report can either be based on a report in the current wave or based on a respondent's previous report of a memory related disease, which they confirm in the current wave. Special missing (.x) is assigned at Wave 3 if the respondent is missing a value due to an error in the Life History Survey code for "ever had" responses for all the above variables. There are around 2,000 respondents interviewed in the Life History Survey and Wave 3 but not in previous waves that were only asked whether they have had a condition since the last interview. Thus, no value can be assigned to these respondents. Don't know, missing, or refused values of RwMEMRYE are assigned special missing codes (.d), (.m), (.r), respectively. RwMEMRYE is set to plain missing (.) for respondents who did not respond to this wave.

SwMEMRYE indicates whether the respondent's spouse reported ever being told by a doctor he/she has either of these conditions and is taken directly from the spouse's values to RwMEMRYE. In addition to the special missing codes used in RwMEMRYE, SwMEMRYE employs two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

In the respondent's baseline interview, the respondent is asked whether they have been diagnosed with the condition. After the respondent's baseline interview, the respondent is read their answer to whether diagnosed in the last interview and asked whether this answer was correct. Respondents can agree or disagree with their last report. If the respondent previously reported having had the condition and then disagrees with their previous report, they are then asked whether they have been diagnosed with the condition since the last interview. If the respondent previously reported not having the condition and then disagrees with their previous report, they are then asked information about when their condition was first diagnosed. If the respondent previously reported not having had the condition and confirms with their previous report, they are then asked whether they have been diagnosed with the condition since the last interview. If any previous report is disputed, the variable for the previous wave is changed based on the dispute. For example if a respondent reported being diagnosed with a memory related condition at Wave 1, but then disputed the Wave 1 report at Wave 2, then R1MEMRYE is changed to 0.no.

Starting at Wave 4, respondents were no longer read their answers to whether diagnosed in the last interview and asked whether this answer was correct. Instead, if the respondent previously reported having the condition, they are then asked if the condition is better, worse or about the same as the last interview. If the respondent claims to have never had the condition, the variable for the previous wave is changed based on the dispute.

RwMEMRYF indicates whether a previous report is disputed at the current interview or a later interview. This flag variable differentiates between instances where the respondent was asked to dispute a negative previous report, disputed a positive previous report and report they have not been diagnosed with the condition since the last interview, and dispute a positive previous report

but report that they have been diagnosed with the condition since the last interview, a condition they had never reported (a mistake in the preloaded condition) and instances where the respondent disputed a condition which they had previously reported. The codes for the flag variable are: 0) no dispute and no change to previous wave variable; 2) disputes the last interview's report of not having the condition, both current and previous wave variables are set to 1.yes; 3) disputes the last interview's report of having had the condition and reports that they have also not been diagnosed with the condition since the last interview, both current and previous wave variables are set to 0.no; 4) disputes the last interview's report of having had the condition but reports they have been diagnosed with the condition since the last interview, the current variable is set to 1.yes and the previous wave variable is set to 0.no; 5) the current wave's report of not having the condition was disputed at a later wave, the current wave variable has been changed to 1.yes; 6) the current wave's report of having the condition was disputed at a later wave, the current wave variable has been changed to 0.no.

SwMEMRYF is taken directly from the spouse's response to RwMEMRY. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 2 and 3, re-interview respondents were asked to confirm whether they ever had or had not had the condition based on their previous report. If the respondent disputes the previous report, re-interview respondents are then asked whether they have been diagnosed with the condition since the last interview.

Starting at Wave 4, respondents were no longer asked to confirm whether they ever had or had not had the condition based on their previous report. Instead, if the respondent previously reported having the condition, they are then asked if the condition is better, worse or about the same as the last interview.

There are a number of interviews starting at Wave 2 that are classified as re-interviews but who are not included in any of the former wave's current data and whose previous wave's reports were not given to the interviewer. Special missing (.x) is assigned starting at Wave 3 if the respondent is missing a value due to an error in the Life History Survey code for "ever had" responses for all the above variables. There are around 2,000 respondents interviewed in the Life History Survey and Wave 3 but not in the previous waves that were only asked whether they have had a condition since the last interview. In these cases the respondents were not asked if they ever had a condition but only whether diagnosed since the last interview, therefore it is not possible to assign a value for an ever have condition.

## Differences with the RAND HRS/Harmonized HRS

Unlike the RAND HRS, disputes of previously reported memory related conditions are not currently incorporated into RwMEMRYE in the Harmonized CHARLS.

## CHARLS Variables Used:

### Wave 1:

DA007\_12\_ Memory-Related Disease

### Wave 2:

DA007\_12\_ Have Been Diagnosed of Disease  
 DA007\_W2\_1\_12\_ Verify Disease Record  
 DA007\_W2\_2\_12\_ Doctor Told Disease  
 ZDA007\_12\_ Chronic Disease

### Wave 3:

DA007\_12\_ Have Been Diagnosed of Disease  
 DA007\_W2\_1\_12\_ Verify Disease Record  
 DA007\_W2\_2\_12\_ Doctor Told Disease  
 ZDA007\_12\_ Chronic Disease

### Wave 4:

DA007\_12\_ Diagnosed with Memory-Related Disease by a Doctor  
 DA010\_W2\_2\_12\_ Memory-Related Disease Compared to ZIWTime  
 ZDISEASE\_12\_ Had Disease[12] at ZIWTime



<b>Whether Receives Treatment or Medication for Disease</b>
---

Wave	Variable	Label	Type
1	R1RXHIBP	r1rxhibp:w1 r takes modern meds for high blood pressure	Categ
2	R2RXHIBP	r2rxhibp:w2 r takes modern meds for high blood pressure	Categ
3	R3RXHIBP	r3rxhibp:w3 r takes modern meds for high blood pressure	Categ
4	R4RXHIBP	r4rxhibp:w4 r takes modern meds for high blood pressure	Categ
1	S1RXHIBP	s1rxhibp:w1 s takes modern meds for high blood pressure	Categ
2	S2RXHIBP	s2rxhibp:w2 s takes modern meds for high blood pressure	Categ
3	S3RXHIBP	s3rxhibp:w3 s takes modern meds for high blood pressure	Categ
4	S4RXHIBP	s4rxhibp:w4 s takes modern meds for high blood pressure	Categ
1	R1RXHIBP_C	r1rxhibp_c:w1 r takes any meds for high blood pressure	Categ
2	R2RXHIBP_C	r2rxhibp_c:w2 r takes any meds for high blood pressure	Categ
3	R3RXHIBP_C	r3rxhibp_c:w3 r takes any meds for high blood pressure	Categ
4	R4RXHIBP_C	r4rxhibp_c:w4 r takes any meds for high blood pressure	Categ
1	S1RXHIBP_C	s1rxhibp_c:w1 s takes any meds for high blood pressure	Categ
2	S2RXHIBP_C	s2rxhibp_c:w2 s takes any meds for high blood pressure	Categ
3	S3RXHIBP_C	s3rxhibp_c:w3 s takes any meds for high blood pressure	Categ
4	S4RXHIBP_C	s4rxhibp_c:w4 s takes any meds for high blood pressure	Categ
1	R1RXDIABI	r1rxdiabi:w1 r takes insulin for diabetes	Categ
2	R2RXDIABI	r2rxdiabi:w2 r takes insulin for diabetes	Categ
3	R3RXDIABI	r3rxdiabi:w3 r takes insulin for diabetes	Categ
4	R4RXDIABI	r4rxdiabi:w4 r takes insulin for diabetes	Categ
1	S1RXDIABI	s1rxdiabi:w1 s takes insulin for diabetes	Categ
2	S2RXDIABI	s2rxdiabi:w2 s takes insulin for diabetes	Categ
3	S3RXDIABI	s3rxdiabi:w3 s takes insulin for diabetes	Categ
4	S4RXDIABI	s4rxdiabi:w4 s takes insulin for diabetes	Categ
1	R1RXDIAB	r1rxdiab:w1 r takes modern meds for diabetes	Categ
2	R2RXDIAB	r2rxdiab:w2 r takes modern meds for diabetes	Categ
3	R3RXDIAB	r3rxdiab:w3 r takes modern meds for diabetes	Categ
4	R4RXDIAB	r4rxdiab:w4 r takes modern meds for diabetes	Categ
1	S1RXDIAB	s1rxdiab:w1 s takes modern meds for diabetes	Categ
2	S2RXDIAB	s2rxdiab:w2 s takes modern meds for diabetes	Categ
3	S3RXDIAB	s3rxdiab:w3 s takes modern meds for diabetes	Categ
4	S4RXDIAB	s4rxdiab:w4 s takes modern meds for diabetes	Categ
1	R1RXDIAB_C	r1rxdiab_c:w1 r takes any meds for diabetes	Categ
2	R2RXDIAB_C	r2rxdiab_c:w2 r takes any meds for diabetes	Categ
3	R3RXDIAB_C	r3rxdiab_c:w3 r takes any meds for diabetes	Categ
4	R4RXDIAB_C	r4rxdiab_c:w4 r takes any meds for diabetes	Categ
1	S1RXDIAB_C	s1rxdiab_c:w1 s takes any meds for diabetes	Categ
2	S2RXDIAB_C	s2rxdiab_c:w2 s takes any meds for diabetes	Categ
3	S3RXDIAB_C	s3rxdiab_c:w3 s takes any meds for diabetes	Categ
4	S4RXDIAB_C	s4rxdiab_c:w4 s takes any meds for diabetes	Categ
1	R1CNCRMEDS	r1cncrmeds:w1 r takes modern meds for cancer	Categ
2	R2CNCRMEDS	r2cncrmeds:w2 r takes modern meds for cancer	Categ
3	R3CNCRMEDS	r3cncrmeds:w3 r takes modern meds for cancer	Categ
4	R4CNCRMEDS	r4cncrmeds:w4 r takes modern meds for cancer	Categ
1	S1CNCRMEDS	s1cncrmeds:w1 s takes modern meds for cancer	Categ
2	S2CNCRMEDS	s2cncrmeds:w2 s takes modern meds for cancer	Categ
3	S3CNCRMEDS	s3cncrmeds:w3 s takes modern meds for cancer	Categ
4	S4CNCRMEDS	s4cncrmeds:w4 s takes modern meds for cancer	Categ
1	R1CNCRMEDS_C	r1cncrmeds_c:w1 r takes any meds for cancer	Categ
2	R2CNCRMEDS_C	r2cncrmeds_c:w2 r takes any meds for cancer	Categ
3	R3CNCRMEDS_C	r3cncrmeds_c:w3 r takes any meds for cancer	Categ

4	R4CNCRMEDS_C	r4cncrmeds_c:w4	r	takes any meds for cancer	Categ
1	S1CNCRMEDS_C	s1cncrmeds_c:w1	s	takes any meds for cancer	Categ
2	S2CNCRMEDS_C	s2cncrmeds_c:w2	s	takes any meds for cancer	Categ
3	S3CNCRMEDS_C	s3cncrmeds_c:w3	s	takes any meds for cancer	Categ
4	S4CNCRMEDS_C	s4cncrmeds_c:w4	s	takes any meds for cancer	Categ
1	R1CNCRCHEM	r1cncrcchem:w1	r	chemotherapy cancer treatment	Categ
2	R2CNCRCHEM	r2cncrcchem:w2	r	chemotherapy cancer treatment	Categ
3	R3CNCRCHEM	r3cncrcchem:w3	r	chemotherapy cancer treatment	Categ
4	R4CNCRCHEM	r4cncrcchem:w4	r	chemotherapy cancer treatment	Categ
1	S1CNCRCHEM	s1cncrcchem:w1	s	chemotherapy cancer treatment	Categ
2	S2CNCRCHEM	s2cncrcchem:w2	s	chemotherapy cancer treatment	Categ
3	S3CNCRCHEM	s3cncrcchem:w3	s	chemotherapy cancer treatment	Categ
4	S4CNCRCHEM	s4cncrcchem:w4	s	chemotherapy cancer treatment	Categ
1	R1CNCRSURG	r1cncrsurg:w1	r	surgery cancer treatment	Categ
2	R2CNCRSURG	r2cncrsurg:w2	r	surgery cancer treatment	Categ
3	R3CNCRSURG	r3cncrsurg:w3	r	surgery cancer treatment	Categ
4	R4CNCRSURG	r4cncrsurg:w4	r	surgery cancer treatment	Categ
1	S1CNCRSURG	s1cncrsurg:w1	s	surgery cancer treatment	Categ
2	S2CNCRSURG	s2cncrsurg:w2	s	surgery cancer treatment	Categ
3	S3CNCRSURG	s3cncrsurg:w3	s	surgery cancer treatment	Categ
4	S4CNCRSURG	s4cncrsurg:w4	s	surgery cancer treatment	Categ
1	R1CNCRRADN	r1cncrradn:w1	r	radiation cancer treatment	Categ
2	R2CNCRRADN	r2cncrradn:w2	r	radiation cancer treatment	Categ
3	R3CNCRRADN	r3cncrradn:w3	r	radiation cancer treatment	Categ
4	R4CNCRRADN	r4cncrradn:w4	r	radiation cancer treatment	Categ
1	S1CNCRRADN	s1cncrradn:w1	s	radiation cancer treatment	Categ
2	S2CNCRRADN	s2cncrradn:w2	s	radiation cancer treatment	Categ
3	S3CNCRRADN	s3cncrradn:w3	s	radiation cancer treatment	Categ
4	S4CNCRRADN	s4cncrradn:w4	s	radiation cancer treatment	Categ
1	R1RXLUNG	r1rxlung:w1	r	takes modern meds for lung condition	Categ
2	R2RXLUNG	r2rxlung:w2	r	takes modern meds for lung condition	Categ
3	R3RXLUNG	r3rxlung:w3	r	takes modern meds for lung condition	Categ
4	R4RXLUNG	r4rxlung:w4	r	takes modern meds for lung condition	Categ
1	S1RXLUNG	s1rxlung:w1	s	takes modern meds for lung condition	Categ
2	S2RXLUNG	s2rxlung:w2	s	takes modern meds for lung condition	Categ
3	S3RXLUNG	s3rxlung:w3	s	takes modern meds for lung condition	Categ
4	S4RXLUNG	s4rxlung:w4	s	takes modern meds for lung condition	Categ
1	R1RXLUNG_C	r1rxlung_c:w1	r	takes any meds for lung condition	Categ
2	R2RXLUNG_C	r2rxlung_c:w2	r	takes any meds for lung condition	Categ
3	R3RXLUNG_C	r3rxlung_c:w3	r	takes any meds for lung condition	Categ
4	R4RXLUNG_C	r4rxlung_c:w4	r	takes any meds for lung condition	Categ
1	S1RXLUNG_C	s1rxlung_c:w1	s	takes any meds for lung condition	Categ
2	S2RXLUNG_C	s2rxlung_c:w2	s	takes any meds for lung condition	Categ
3	S3RXLUNG_C	s3rxlung_c:w3	s	takes any meds for lung condition	Categ
4	S4RXLUNG_C	s4rxlung_c:w4	s	takes any meds for lung condition	Categ
1	R1RXHEART	r1rxheart:w1	r	takes modern meds for heart problems	Categ
2	R2RXHEART	r2rxheart:w2	r	takes modern meds for heart problems	Categ
3	R3RXHEART	r3rxheart:w3	r	takes modern meds for heart problems	Categ
4	R4RXHEART	r4rxheart:w4	r	takes modern meds for heart problems	Categ
1	S1RXHEART	s1rxheart:w1	s	takes modern meds for heart problems	Categ
2	S2RXHEART	s2rxheart:w2	s	takes modern meds for heart problems	Categ
3	S3RXHEART	s3rxheart:w3	s	takes modern meds for heart problems	Categ
4	S4RXHEART	s4rxheart:w4	s	takes modern meds for heart problems	Categ
1	R1RXHEART_C	r1rxheart_c:w1	r	takes any meds for heart problems	Categ
2	R2RXHEART_C	r2rxheart_c:w2	r	takes any meds for heart problems	Categ

3	R3RXHEART_C	r3rxheart_c:w3	r takes any meds for heart problems	Categ
4	R4RXHEART_C	r4rxheart_c:w4	r takes any meds for heart problems	Categ
1	S1RXHEART_C	s1rxheart_c:w1	s takes any meds for heart problems	Categ
2	S2RXHEART_C	s2rxheart_c:w2	s takes any meds for heart problems	Categ
3	S3RXHEART_C	s3rxheart_c:w3	s takes any meds for heart problems	Categ
4	S4RXHEART_C	s4rxheart_c:w4	s takes any meds for heart problems	Categ
1	R1RXSTROK	r1rxstrok:w1	r takes modern meds for stroke	Categ
2	R2RXSTROK	r2rxstrok:w2	r takes modern meds for stroke	Categ
3	R3RXSTROK	r3rxstrok:w3	r takes modern meds for stroke	Categ
4	R4RXSTROK	r4rxstrok:w4	r takes modern meds for stroke	Categ
1	S1RXSTROK	s1rxstrok:w1	s takes modern meds for stroke	Categ
2	S2RXSTROK	s2rxstrok:w2	s takes modern meds for stroke	Categ
3	S3RXSTROK	s3rxstrok:w3	s takes modern meds for stroke	Categ
4	S4RXSTROK	s4rxstrok:w4	s takes modern meds for stroke	Categ
1	R1RXSTROK_C	r1rxstrok_c:w1	r takes any meds for stroke	Categ
2	R2RXSTROK_C	r2rxstrok_c:w2	r takes any meds for stroke	Categ
3	R3RXSTROK_C	r3rxstrok_c:w3	r takes any meds for stroke	Categ
4	R4RXSTROK_C	r4rxstrok_c:w4	r takes any meds for stroke	Categ
1	S1RXSTROK_C	s1rxstrok_c:w1	s takes any meds for stroke	Categ
2	S2RXSTROK_C	s2rxstrok_c:w2	s takes any meds for stroke	Categ
3	S3RXSTROK_C	s3rxstrok_c:w3	s takes any meds for stroke	Categ
4	S4RXSTROK_C	s4rxstrok_c:w4	s takes any meds for stroke	Categ
1	R1RXPSYCH	r1rxpsych:w1	r takes meds for psych condition	Categ
2	R2RXPSYCH	r2rxpsych:w2	r takes meds for psych condition	Categ
3	R3RXPSYCH	r3rxpsych:w3	r takes meds for psych condition	Categ
4	R4RXPSYCH	r4rxpsych:w4	r takes meds for psych condition	Categ
1	S1RXPSYCH	s1rxpsych:w1	s takes meds for psych condition	Categ
2	S2RXPSYCH	s2rxpsych:w2	s takes meds for psych condition	Categ
3	S3RXPSYCH	s3rxpsych:w3	s takes meds for psych condition	Categ
4	S4RXPSYCH	s4rxpsych:w4	s takes meds for psych condition	Categ
1	R1TRPSYCH	r1trpsych:w1	r receives psychological treatment	Categ
2	R2TRPSYCH	r2trpsych:w2	r receives psychological treatment	Categ
3	R3TRPSYCH	r3trpsych:w3	r receives psychological treatment	Categ
4	R4TRPSYCH	r4trpsych:w4	r receives psychological treatment	Categ
1	S1TRPSYCH	s1trpsych:w1	s receives psychological treatment	Categ
2	S2TRPSYCH	s2trpsych:w2	s receives psychological treatment	Categ
3	S3TRPSYCH	s3trpsych:w3	s receives psychological treatment	Categ
4	S4TRPSYCH	s4trpsych:w4	s receives psychological treatment	Categ
1	R1RXARTHR	r1rxarthr:w1	r takes modern meds for arthritis	Categ
2	R2RXARTHR	r2rxarthr:w2	r takes modern meds for arthritis	Categ
3	R3RXARTHR	r3rxarthr:w3	r takes modern meds for arthritis	Categ
4	R4RXARTHR	r4rxarthr:w4	r takes modern meds for arthritis	Categ
1	S1RXARTHR	s1rxarthr:w1	s takes modern meds for arthritis	Categ
2	S2RXARTHR	s2rxarthr:w2	s takes modern meds for arthritis	Categ
3	S3RXARTHR	s3rxarthr:w3	s takes modern meds for arthritis	Categ
4	S4RXARTHR	s4rxarthr:w4	s takes modern meds for arthritis	Categ
1	R1RXARTHR_C	r1rxarthr_c:w1	r takes any meds for arthritis	Categ
2	R2RXARTHR_C	r2rxarthr_c:w2	r takes any meds for arthritis	Categ
3	R3RXARTHR_C	r3rxarthr_c:w3	r takes any meds for arthritis	Categ
4	R4RXARTHR_C	r4rxarthr_c:w4	r takes any meds for arthritis	Categ
1	S1RXARTHR_C	s1rxarthr_c:w1	s takes any meds for arthritis	Categ
2	S2RXARTHR_C	s2rxarthr_c:w2	s takes any meds for arthritis	Categ
3	S3RXARTHR_C	s3rxarthr_c:w3	s takes any meds for arthritis	Categ
4	S4RXARTHR_C	s4rxarthr_c:w4	s takes any meds for arthritis	Categ
1	R1RXDYSLIP	r1rxdyslip:w1	r takes modern meds for dyslipidemia	Categ

2	R2RXDYSLIP	r2rxdyslip:w2	r	takes modern meds	for dyslipidemia	Categ
3	R3RXDYSLIP	r3rxdyslip:w3	r	takes modern meds	for dyslipidemia	Categ
4	R4RXDYSLIP	r4rxdyslip:w4	r	takes modern meds	for dyslipidemia	Categ
1	S1RXDYSLIP	s1rxdyslip:w1	s	takes modern meds	for dyslipidemia	Categ
2	S2RXDYSLIP	s2rxdyslip:w2	s	takes modern meds	for dyslipidemia	Categ
3	S3RXDYSLIP	s3rxdyslip:w3	s	takes modern meds	for dyslipidemia	Categ
4	S4RXDYSLIP	s4rxdyslip:w4	s	takes modern meds	for dyslipidemia	Categ
1	R1RXDYSLIP_C	r1rxdyslip_c:w1	r	takes any meds	for dyslipidemia	Categ
2	R2RXDYSLIP_C	r2rxdyslip_c:w2	r	takes any meds	for dyslipidemia	Categ
3	R3RXDYSLIP_C	r3rxdyslip_c:w3	r	takes any meds	for dyslipidemia	Categ
4	R4RXDYSLIP_C	r4rxdyslip_c:w4	r	takes any meds	for dyslipidemia	Categ
1	S1RXDYSLIP_C	s1rxdyslip_c:w1	s	takes any meds	for dyslipidemia	Categ
2	S2RXDYSLIP_C	s2rxdyslip_c:w2	s	takes any meds	for dyslipidemia	Categ
3	S3RXDYSLIP_C	s3rxdyslip_c:w3	s	takes any meds	for dyslipidemia	Categ
4	S4RXDYSLIP_C	s4rxdyslip_c:w4	s	takes any meds	for dyslipidemia	Categ
1	R1RXLIVER	r1rxliver:w1	r	takes modern meds	for liver disease	Categ
2	R2RXLIVER	r2rxliver:w2	r	takes modern meds	for liver disease	Categ
3	R3RXLIVER	r3rxliver:w3	r	takes modern meds	for liver disease	Categ
4	R4RXLIVER	r4rxliver:w4	r	takes modern meds	for liver disease	Categ
1	S1RXLIVER	s1rxliver:w1	s	takes modern meds	for liver disease	Categ
2	S2RXLIVER	s2rxliver:w2	s	takes modern meds	for liver disease	Categ
3	S3RXLIVER	s3rxliver:w3	s	takes modern meds	for liver disease	Categ
4	S4RXLIVER	s4rxliver:w4	s	takes modern meds	for liver disease	Categ
1	R1RXLIVER_C	r1rxliver_c:w1	r	takes any meds	for liver disease	Categ
2	R2RXLIVER_C	r2rxliver_c:w2	r	takes any meds	for liver disease	Categ
3	R3RXLIVER_C	r3rxliver_c:w3	r	takes any meds	for liver disease	Categ
4	R4RXLIVER_C	r4rxliver_c:w4	r	takes any meds	for liver disease	Categ
1	S1RXLIVER_C	s1rxliver_c:w1	s	takes any meds	for liver disease	Categ
2	S2RXLIVER_C	s2rxliver_c:w2	s	takes any meds	for liver disease	Categ
3	S3RXLIVER_C	s3rxliver_c:w3	s	takes any meds	for liver disease	Categ
4	S4RXLIVER_C	s4rxliver_c:w4	s	takes any meds	for liver disease	Categ
1	R1RXKIDNEY	r1rxkidney:w1	r	takes modern meds	for kidney disease	Categ
2	R2RXKIDNEY	r2rxkidney:w2	r	takes modern meds	for kidney disease	Categ
3	R3RXKIDNEY	r3rxkidney:w3	r	takes modern meds	for kidney disease	Categ
4	R4RXKIDNEY	r4rxkidney:w4	r	takes modern meds	for kidney disease	Categ
1	S1RXKIDNEY	s1rxkidney:w1	s	takes modern meds	for kidney disease	Categ
2	S2RXKIDNEY	s2rxkidney:w2	s	takes modern meds	for kidney disease	Categ
3	S3RXKIDNEY	s3rxkidney:w3	s	takes modern meds	for kidney disease	Categ
4	S4RXKIDNEY	s4rxkidney:w4	s	takes modern meds	for kidney disease	Categ
1	R1RXKIDNEY_C	r1rxkidney_c:w1	r	takes any meds	for kidney disease	Categ
2	R2RXKIDNEY_C	r2rxkidney_c:w2	r	takes any meds	for kidney disease	Categ
3	R3RXKIDNEY_C	r3rxkidney_c:w3	r	takes any meds	for kidney disease	Categ
4	R4RXKIDNEY_C	r4rxkidney_c:w4	r	takes any meds	for kidney disease	Categ
1	S1RXKIDNEY_C	s1rxkidney_c:w1	s	takes any meds	for kidney disease	Categ
2	S2RXKIDNEY_C	s2rxkidney_c:w2	s	takes any meds	for kidney disease	Categ
3	S3RXKIDNEY_C	s3rxkidney_c:w3	s	takes any meds	for kidney disease	Categ
4	S4RXKIDNEY_C	s4rxkidney_c:w4	s	takes any meds	for kidney disease	Categ
1	R1RXDIGEST	r1rxdigest:w1	r	takes modern meds	for digestive disease	Categ
2	R2RXDIGEST	r2rxdigest:w2	r	takes modern meds	for digestive disease	Categ
3	R3RXDIGEST	r3rxdigest:w3	r	takes modern meds	for digestive disease	Categ
4	R4RXDIGEST	r4rxdigest:w4	r	takes modern meds	for digestive disease	Categ
1	S1RXDIGEST	s1rxdigest:w1	s	takes modern meds	for digestive disease	Categ
2	S2RXDIGEST	s2rxdigest:w2	s	takes modern meds	for digestive disease	Categ
3	S3RXDIGEST	s3rxdigest:w3	s	takes modern meds	for digestive disease	Categ
4	S4RXDIGEST	s4rxdigest:w4	s	takes modern meds	for digestive disease	Categ

1	R1RXDIGEST_C	r1rxdigest_c:w1	r	takes any meds for digestive disease	Categ
2	R2RXDIGEST_C	r2rxdigest_c:w2	r	takes any meds for digestive disease	Categ
3	R3RXDIGEST_C	r3rxdigest_c:w3	r	takes any meds for digestive disease	Categ
4	R4RXDIGEST_C	r4rxdigest_c:w4	r	takes any meds for digestive disease	Categ
1	S1RXDIGEST_C	s1rxdigest_c:w1	s	takes any meds for digestive disease	Categ
2	S2RXDIGEST_C	s2rxdigest_c:w2	s	takes any meds for digestive disease	Categ
3	S3RXDIGEST_C	s3rxdigest_c:w3	s	takes any meds for digestive disease	Categ
4	S4RXDIGEST_C	s4rxdigest_c:w4	s	takes any meds for digestive disease	Categ
1	R1RXMEMRY	r1rxmemry:w1	r	takes modern meds for memory problem	Categ
2	R2RXMEMRY	r2rxmemry:w2	r	takes modern meds for memory problem	Categ
3	R3RXMEMRY	r3rxmemry:w3	r	takes modern meds for memory problem	Categ
4	R4RXMEMRY	r4rxmemry:w4	r	takes modern meds for memory problem	Categ
1	S1RXMEMRY	s1rxmemry:w1	s	takes modern meds for memory problem	Categ
2	S2RXMEMRY	s2rxmemry:w2	s	takes modern meds for memory problem	Categ
3	S3RXMEMRY	s3rxmemry:w3	s	takes modern meds for memory problem	Categ
4	S4RXMEMRY	s4rxmemry:w4	s	takes modern meds for memory problem	Categ
1	R1RXMEMRY_C	r1rxmemry_c:w1	r	takes any meds for memory problem	Categ
2	R2RXMEMRY_C	r2rxmemry_c:w2	r	takes any meds for memory problem	Categ
3	R3RXMEMRY_C	r3rxmemry_c:w3	r	takes any meds for memory problem	Categ
4	R4RXMEMRY_C	r4rxmemry_c:w4	r	takes any meds for memory problem	Categ
1	S1RXMEMRY_C	s1rxmemry_c:w1	s	takes any meds for memory problem	Categ
2	S2RXMEMRY_C	s2rxmemry_c:w2	s	takes any meds for memory problem	Categ
3	S3RXMEMRY_C	s3rxmemry_c:w3	s	takes any meds for memory problem	Categ
4	S4RXMEMRY_C	s4rxmemry_c:w4	s	takes any meds for memory problem	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RXHIBP	17460	0.18	0.39	0.00	1.00
R2RXHIBP	17739	0.21	0.41	0.00	1.00
R3RXHIBP	16635	0.25	0.43	0.00	1.00
R4RXHIBP	19423	0.27	0.45	0.00	1.00
S1RXHIBP	14765	0.18	0.38	0.00	1.00
S2RXHIBP	14933	0.21	0.40	0.00	1.00
S3RXHIBP	13899	0.24	0.43	0.00	1.00
S4RXHIBP	16073	0.26	0.44	0.00	1.00
R1RXHIBP_C	17460	0.20	0.40	0.00	1.00
R2RXHIBP_C	17739	0.23	0.42	0.00	1.00
R3RXHIBP_C	16635	0.27	0.44	0.00	1.00
R4RXHIBP_C	19423	0.29	0.45	0.00	1.00
S1RXHIBP_C	14765	0.19	0.39	0.00	1.00
S2RXHIBP_C	14933	0.22	0.41	0.00	1.00
S3RXHIBP_C	13899	0.26	0.44	0.00	1.00
S4RXHIBP_C	16073	0.28	0.45	0.00	1.00
R1RXDIABI	17404	0.01	0.09	0.00	1.00
R2RXDIABI	17547	0.01	0.11	0.00	1.00
R3RXDIABI	16631	0.02	0.12	0.00	1.00
R4RXDIABI	19624	0.02	0.14	0.00	1.00
S1RXDIABI	14719	0.01	0.09	0.00	1.00
S2RXDIABI	14765	0.01	0.10	0.00	1.00
S3RXDIABI	13905	0.02	0.13	0.00	1.00
S4RXDIABI	16226	0.02	0.14	0.00	1.00
R1RXDIAB	17404	0.04	0.19	0.00	1.00
R2RXDIAB	17547	0.05	0.22	0.00	1.00
R3RXDIAB	16631	0.06	0.24	0.00	1.00
R4RXDIAB	19624	0.08	0.27	0.00	1.00

S1RXDIAB	14719	0.04	0.19	0.00	1.00
S2RXDIAB	14765	0.05	0.22	0.00	1.00
S3RXDIAB	13905	0.06	0.24	0.00	1.00
S4RXDIAB	16226	0.08	0.27	0.00	1.00
R1RXDIAB_C	17404	0.04	0.20	0.00	1.00
R2RXDIAB_C	17547	0.05	0.23	0.00	1.00
R3RXDIAB_C	16631	0.07	0.25	0.00	1.00
R4RXDIAB_C	19624	0.08	0.28	0.00	1.00
S1RXDIAB_C	14719	0.04	0.20	0.00	1.00
S2RXDIAB_C	14765	0.06	0.23	0.00	1.00
S3RXDIAB_C	13905	0.07	0.25	0.00	1.00
S4RXDIAB_C	16226	0.08	0.28	0.00	1.00
R1CNCRMEDS	17483	0.00	0.07	0.00	1.00
R2CNCRMEDS	17634	0.00	0.07	0.00	1.00
R3CNCRMEDS	16888	0.01	0.08	0.00	1.00
R4CNCRMEDS	19741	0.01	0.09	0.00	1.00
S1CNCRMEDS	14786	0.00	0.07	0.00	1.00
S2CNCRMEDS	14842	0.01	0.07	0.00	1.00
S3CNCRMEDS	14092	0.01	0.08	0.00	1.00
S4CNCRMEDS	16312	0.01	0.08	0.00	1.00
R1CNCRMEDS_C	17483	0.01	0.07	0.00	1.00
R2CNCRMEDS_C	17634	0.01	0.08	0.00	1.00
R3CNCRMEDS_C	16888	0.01	0.08	0.00	1.00
R4CNCRMEDS_C	19741	0.01	0.09	0.00	1.00
S1CNCRMEDS_C	14786	0.01	0.07	0.00	1.00
S2CNCRMEDS_C	14842	0.01	0.08	0.00	1.00
S3CNCRMEDS_C	14092	0.01	0.09	0.00	1.00
S4CNCRMEDS_C	16312	0.01	0.09	0.00	1.00
R1CNCRCHEM	17483	0.00	0.04	0.00	1.00
R2CNCRCHEM	17634	0.00	0.06	0.00	1.00
R3CNCRCHEM	16888	0.00	0.06	0.00	1.00
R4CNCRCHEM	19741	0.00	0.06	0.00	1.00
S1CNCRCHEM	14786	0.00	0.04	0.00	1.00
S2CNCRCHEM	14842	0.00	0.06	0.00	1.00
S3CNCRCHEM	14092	0.00	0.06	0.00	1.00
S4CNCRCHEM	16312	0.00	0.06	0.00	1.00
R1CNCRSURG	17483	0.00	0.06	0.00	1.00
R2CNCRSURG	17634	0.00	0.07	0.00	1.00
R3CNCRSURG	16888	0.01	0.07	0.00	1.00
R4CNCRSURG	19741	0.01	0.08	0.00	1.00
S1CNCRSURG	14786	0.00	0.07	0.00	1.00
S2CNCRSURG	14842	0.00	0.07	0.00	1.00
S3CNCRSURG	14092	0.01	0.07	0.00	1.00
S4CNCRSURG	16312	0.01	0.08	0.00	1.00
R1CNCRRADN	17483	0.00	0.03	0.00	1.00
R2CNCRRADN	17634	0.00	0.04	0.00	1.00
R3CNCRRADN	16888	0.00	0.04	0.00	1.00
R4CNCRRADN	19741	0.00	0.05	0.00	1.00
S1CNCRRADN	14786	0.00	0.03	0.00	1.00
S2CNCRRADN	14842	0.00	0.04	0.00	1.00
S3CNCRRADN	14092	0.00	0.04	0.00	1.00
S4CNCRRADN	16312	0.00	0.05	0.00	1.00
R1RXLUNG	17490	0.06	0.24	0.00	1.00
R2RXLUNG	17677	0.06	0.24	0.00	1.00
R3RXLUNG	16437	0.07	0.25	0.00	1.00

## Section B: Health

R4RXLUNG	19791	0.08	0.26	0.00	1.00
S1RXLUNG	14795	0.06	0.23	0.00	1.00
S2RXLUNG	14872	0.06	0.23	0.00	1.00
S3RXLUNG	13748	0.07	0.25	0.00	1.00
S4RXLUNG	16357	0.07	0.26	0.00	1.00
R1RXLUNG_C	17490	0.07	0.25	0.00	1.00
R2RXLUNG_C	17677	0.07	0.25	0.00	1.00
R3RXLUNG_C	16437	0.08	0.27	0.00	1.00
R4RXLUNG_C	19791	0.09	0.28	0.00	1.00
S1RXLUNG_C	14795	0.06	0.25	0.00	1.00
S2RXLUNG_C	14872	0.06	0.24	0.00	1.00
S3RXLUNG_C	13748	0.07	0.26	0.00	1.00
S4RXLUNG_C	16357	0.08	0.27	0.00	1.00
R1RXHEART	17457	0.07	0.25	0.00	1.00
R2RXHEART	17677	0.08	0.27	0.00	1.00
R3RXHEART	16460	0.09	0.29	0.00	1.00
R4RXHEART	19783	0.11	0.31	0.00	1.00
S1RXHEART	14765	0.07	0.25	0.00	1.00
S2RXHEART	14876	0.07	0.26	0.00	1.00
S3RXHEART	13761	0.09	0.29	0.00	1.00
S4RXHEART	16352	0.10	0.31	0.00	1.00
R1RXHEART_C	17457	0.08	0.27	0.00	1.00
R2RXHEART_C	17677	0.09	0.29	0.00	1.00
R3RXHEART_C	16460	0.11	0.32	0.00	1.00
R4RXHEART_C	19783	0.13	0.34	0.00	1.00
S1RXHEART_C	14765	0.08	0.27	0.00	1.00
S2RXHEART_C	14876	0.09	0.28	0.00	1.00
S3RXHEART_C	13761	0.11	0.31	0.00	1.00
S4RXHEART_C	16352	0.12	0.33	0.00	1.00
R1RXSTROK	17522	0.01	0.11	0.00	1.00
R2RXSTROK	17706	0.02	0.12	0.00	1.00
R3RXSTROK	16867	0.02	0.13	0.00	1.00
R4RXSTROK	19740	0.04	0.20	0.00	1.00
S1RXSTROK	14814	0.01	0.11	0.00	1.00
S2RXSTROK	14893	0.01	0.12	0.00	1.00
S3RXSTROK	14088	0.02	0.12	0.00	1.00
S4RXSTROK	16318	0.04	0.19	0.00	1.00
R1RXSTROK_C	17522	0.02	0.12	0.00	1.00
R2RXSTROK_C	17706	0.02	0.13	0.00	1.00
R3RXSTROK_C	16867	0.02	0.14	0.00	1.00
R4RXSTROK_C	19740	0.05	0.21	0.00	1.00
S1RXSTROK_C	14814	0.01	0.12	0.00	1.00
S2RXSTROK_C	14893	0.02	0.13	0.00	1.00
S3RXSTROK_C	14088	0.02	0.13	0.00	1.00
S4RXSTROK_C	16318	0.04	0.20	0.00	1.00
R1RXPSYCH	17487	0.01	0.08	0.00	1.00
R2RXPSYCH	17664	0.01	0.07	0.00	1.00
R3RXPSYCH	16875	0.01	0.09	0.00	1.00
R4RXPSYCH	19649	0.01	0.10	0.00	1.00
S1RXPSYCH	14787	0.01	0.08	0.00	1.00
S2RXPSYCH	14864	0.01	0.07	0.00	1.00
S3RXPSYCH	14095	0.01	0.08	0.00	1.00
S4RXPSYCH	16240	0.01	0.09	0.00	1.00
R1TRPSYCH	17487	0.00	0.05	0.00	1.00
R2TRPSYCH	17664	0.00	0.05	0.00	1.00

## Section B: Health

R3TRPSYCH	16875	0.00	0.05	0.00	1.00
R4TRPSYCH	19649	0.00	0.05	0.00	1.00
S1TRPSYCH	14787	0.00	0.05	0.00	1.00
S2TRPSYCH	14864	0.00	0.05	0.00	1.00
S3TRPSYCH	14095	0.00	0.05	0.00	1.00
S4TRPSYCH	16240	0.00	0.05	0.00	1.00
R1RXARTHR	17494	0.13	0.33	0.00	1.00
R2RXARTHR	17813	0.14	0.34	0.00	1.00
R3RXARTHR	15616	0.16	0.36	0.00	1.00
R4RXARTHR	19778	0.15	0.36	0.00	1.00
S1RXARTHR	14789	0.13	0.33	0.00	1.00
S2RXARTHR	14991	0.13	0.34	0.00	1.00
S3RXARTHR	13055	0.15	0.36	0.00	1.00
S4RXARTHR	16352	0.14	0.35	0.00	1.00
R1RXARTHR_C	17494	0.15	0.36	0.00	1.00
R2RXARTHR_C	17813	0.17	0.37	0.00	1.00
R3RXARTHR_C	15616	0.19	0.39	0.00	1.00
R4RXARTHR_C	19778	0.18	0.39	0.00	1.00
S1RXARTHR_C	14789	0.15	0.36	0.00	1.00
S2RXARTHR_C	14991	0.16	0.37	0.00	1.00
S3RXARTHR_C	13055	0.19	0.39	0.00	1.00
S4RXARTHR_C	16352	0.17	0.38	0.00	1.00
R1RXDYSLIP	17201	0.05	0.21	0.00	1.00
R2RXDYSLIP	17156	0.06	0.23	0.00	1.00
R3RXDYSLIP	15962	0.07	0.26	0.00	1.00
R4RXDYSLIP	19779	0.11	0.32	0.00	1.00
S1RXDYSLIP	14557	0.04	0.21	0.00	1.00
S2RXDYSLIP	14477	0.06	0.23	0.00	1.00
S3RXDYSLIP	13379	0.07	0.26	0.00	1.00
S4RXDYSLIP	16353	0.11	0.32	0.00	1.00
R1RXDYSLIP_C	17201	0.05	0.22	0.00	1.00
R2RXDYSLIP_C	17156	0.06	0.24	0.00	1.00
R3RXDYSLIP_C	15962	0.08	0.27	0.00	1.00
R4RXDYSLIP_C	19779	0.12	0.33	0.00	1.00
S1RXDYSLIP_C	14557	0.05	0.22	0.00	1.00
S2RXDYSLIP_C	14477	0.06	0.24	0.00	1.00
S3RXDYSLIP_C	13379	0.08	0.27	0.00	1.00
S4RXDYSLIP_C	16353	0.12	0.33	0.00	1.00
R1RXLIVER	17434	0.01	0.12	0.00	1.00
R2RXLIVER	17403	0.01	0.11	0.00	1.00
R3RXLIVER	16508	0.01	0.12	0.00	1.00
R4RXLIVER	19792	0.02	0.14	0.00	1.00
S1RXLIVER	14744	0.01	0.12	0.00	1.00
S2RXLIVER	14645	0.01	0.11	0.00	1.00
S3RXLIVER	13794	0.02	0.12	0.00	1.00
S4RXLIVER	16356	0.02	0.14	0.00	1.00
R1RXLIVER_C	17434	0.02	0.13	0.00	1.00
R2RXLIVER_C	17403	0.01	0.12	0.00	1.00
R3RXLIVER_C	16508	0.02	0.14	0.00	1.00
R4RXLIVER_C	19792	0.03	0.16	0.00	1.00
S1RXLIVER_C	14744	0.02	0.13	0.00	1.00
S2RXLIVER_C	14645	0.01	0.12	0.00	1.00
S3RXLIVER_C	13794	0.02	0.14	0.00	1.00
S4RXLIVER_C	16356	0.03	0.16	0.00	1.00
R1RXKIDNEY	17447	0.02	0.15	0.00	1.00



R2RXKIDNEY	17602	0.02	0.15	0.00	1.00
R3RXKIDNEY	16393	0.03	0.16	0.00	1.00
R4RXKIDNEY	19794	0.03	0.18	0.00	1.00
S1RXKIDNEY	14762	0.02	0.15	0.00	1.00
S2RXKIDNEY	14830	0.02	0.15	0.00	1.00
S3RXKIDNEY	13706	0.03	0.16	0.00	1.00
S4RXKIDNEY	16356	0.03	0.18	0.00	1.00
R1RXKIDNEY_C	17447	0.03	0.17	0.00	1.00
R2RXKIDNEY_C	17602	0.03	0.18	0.00	1.00
R3RXKIDNEY_C	16393	0.04	0.19	0.00	1.00
R4RXKIDNEY_C	19794	0.04	0.20	0.00	1.00
S1RXKIDNEY_C	14762	0.03	0.17	0.00	1.00
S2RXKIDNEY_C	14830	0.03	0.18	0.00	1.00
S3RXKIDNEY_C	13706	0.04	0.19	0.00	1.00
S4RXKIDNEY_C	16356	0.04	0.20	0.00	1.00
R1RXDIGEST	17493	0.12	0.33	0.00	1.00
R2RXDIGEST	17785	0.14	0.34	0.00	1.00
R3RXDIGEST	15890	0.16	0.36	0.00	1.00
R4RXDIGEST	19784	0.15	0.36	0.00	1.00
S1RXDIGEST	14792	0.12	0.33	0.00	1.00
S2RXDIGEST	14972	0.14	0.34	0.00	1.00
S3RXDIGEST	13248	0.16	0.36	0.00	1.00
S4RXDIGEST	16354	0.15	0.35	0.00	1.00
R1RXDIGEST_C	17493	0.14	0.35	0.00	1.00
R2RXDIGEST_C	17785	0.16	0.36	0.00	1.00
R3RXDIGEST_C	15890	0.18	0.38	0.00	1.00
R4RXDIGEST_C	19784	0.18	0.38	0.00	1.00
S1RXDIGEST_C	14792	0.14	0.35	0.00	1.00
S2RXDIGEST_C	14972	0.15	0.36	0.00	1.00
S3RXDIGEST_C	13248	0.18	0.38	0.00	1.00
S4RXDIGEST_C	16354	0.17	0.38	0.00	1.00
R1RXMEMORY	17502	0.01	0.08	0.00	1.00
R2RXMEMORY	17677	0.01	0.10	0.00	1.00
R3RXMEMORY	16837	0.01	0.10	0.00	1.00
R4RXMEMORY	19796	0.02	0.13	0.00	1.00
S1RXMEMORY	14801	0.01	0.08	0.00	1.00
S2RXMEMORY	14879	0.01	0.09	0.00	1.00
S3RXMEMORY	14071	0.01	0.10	0.00	1.00
S4RXMEMORY	16356	0.01	0.12	0.00	1.00
R1RXMEMORY_C	17502	0.01	0.09	0.00	1.00
R2RXMEMORY_C	17677	0.01	0.10	0.00	1.00
R3RXMEMORY_C	16837	0.01	0.11	0.00	1.00
R4RXMEMORY_C	19796	0.02	0.13	0.00	1.00
S1RXMEMORY_C	14801	0.01	0.08	0.00	1.00
S2RXMEMORY_C	14879	0.01	0.10	0.00	1.00
S3RXMEMORY_C	14071	0.01	0.10	0.00	1.00
S4RXMEMORY_C	16356	0.02	0.13	0.00	1.00

### Categorical Variable Codes

Value-----	R1RXHIBP	R2RXHIBP	R3RXHIBP	R4RXHIBP
.d:dk	113			
.m:missing	132	873	1596	393
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	14259	13951	12492	14111

## Section B: Health

145

1.Yes	3201	3788	4143	5312
Value-----	S1RXHIBP	S2RXHIBP	S3RXHIBP	S4RXHIBP
.d:dk	89			
.m:missing	54	647	1270	289
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	12167	11853	10568	11865
1.Yes	2598	3080	3331	4208
Value-----	R1RXHIBP_C	R2RXHIBP_C	R3RXHIBP_C	R4RXHIBP_C
.d:dk	113			
.m:missing	132	873	1596	393
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	14046	13692	12180	13797
1.Yes	3414	4047	4455	5626
Value-----	S1RXHIBP_C	S2RXHIBP_C	S3RXHIBP_C	S4RXHIBP_C
.d:dk	89			
.m:missing	54	647	1270	289
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	12004	11656	10323	11630
1.Yes	2761	3277	3576	4443
Value-----	R1RXDIABI	R2RXDIABI	R3RXDIABI	R4RXDIABI
.d:dk	150			
.m:missing	152	1065	1600	192
.r:refuse	2			
.x:Joined panel in w3			2866	
0.No	17267	17347	16368	19232
1.Yes	137	200	263	392
Value-----	S1RXDIABI	S2RXDIABI	S3RXDIABI	S4RXDIABI
.d:dk	119			
.m:missing	70	815	1264	136
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14596	14601	13684	15897
1.Yes	123	164	221	329
Value-----	R1RXDIAB	R2RXDIAB	R3RXDIAB	R4RXDIAB
.d:dk	150			
.m:missing	152	1065	1600	192
.r:refuse	2			
.x:Joined panel in w3			2866	
0.No	16756	16662	15602	18094
1.Yes	648	885	1029	1530
Value-----	S1RXDIAB	S2RXDIAB	S3RXDIAB	S4RXDIAB
.d:dk	119			
.m:missing	70	815	1264	136
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14153	14013	13052	14961
1.Yes	566	752	853	1265
Value-----	R1RXDIAB_C	R2RXDIAB_C	R3RXDIAB_C	R4RXDIAB_C
.d:dk	150			
.m:missing	152	1065	1600	192

.r:refuse		2			
.x:Joined panel in w3				2866	
0.No		16692	16583	15524	18000
1.Yes		712	964	1107	1624
Value-----	S1RXDIAB_C	S2RXDIAB_C	S3RXDIAB_C	S4RXDIAB_C	
.d:dk		119			
.m:missing		70	815	1264	136
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		14103	13943	12988	14887
1.Yes		616	822	917	1339
Value-----	R1CNCRMEDS	R2CNCRMEDS	R3CNCRMEDS	R4CNCRMEDS	
.d:dk		72			
.m:missing		150	978	1343	75
.r:refuse		3			
.x:Joined panel in w3				2866	
0.No		17400	17548	16785	19590
1.Yes		83	86	103	151
Value-----	S1CNCRMEDS	S2CNCRMEDS	S3CNCRMEDS	S4CNCRMEDS	
.d:dk		55			
.m:missing		67	738	1077	50
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		14713	14767	14002	16195
1.Yes		73	75	90	117
Value-----	R1CNCRMEDS_C	R2CNCRMEDS_C	R3CNCRMEDS_C	R4CNCRMEDS_C	
.d:dk		72			
.m:missing		150	978	1343	75
.r:refuse		3			
.x:Joined panel in w3				2866	
0.No		17393	17528	16769	19565
1.Yes		90	106	119	176
Value-----	S1CNCRMEDS_C	S2CNCRMEDS_C	S3CNCRMEDS_C	S4CNCRMEDS_C	
.d:dk		55			
.m:missing		67	738	1077	50
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		14707	14748	13988	16175
1.Yes		79	94	104	137
Value-----	R1CNCRCHEM	R2CNCRCHEM	R3CNCRCHEM	R4CNCRCHEM	
.d:dk		72			
.m:missing		150	978	1343	75
.r:refuse		3			
.x:Joined panel in w3				2866	
0.No		17453	17577	16834	19659
1.Yes		30	57	54	82
Value-----	S1CNCRCHEM	S2CNCRCHEM	S3CNCRCHEM	S4CNCRCHEM	
.d:dk		55			
.m:missing		67	738	1077	50
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		14757	14794	14044	16246
1.Yes		29	48	48	66

## Section B: Health

147

Value-----	R1CNCRSURG	R2CNCRSURG	R3CNCRSURG	R4CNCRSURG
.d:dk	72			
.m:missing	150	978	1343	75
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17414	17558	16798	19604
1.Yes	69	76	90	137
Value-----	S1CNCRSURG	S2CNCRSURG	S3CNCRSURG	S4CNCRSURG
.d:dk	55			
.m:missing	67	738	1077	50
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14721	14773	14018	16204
1.Yes	65	69	74	108
Value-----	R1CNCRRADN	R2CNCRRADN	R3CNCRRADN	R4CNCRRADN
.d:dk	72			
.m:missing	150	978	1343	75
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17470	17609	16863	19692
1.Yes	13	25	25	49
Value-----	S1CNCRRADN	S2CNCRRADN	S3CNCRRADN	S4CNCRRADN
.d:dk	55			
.m:missing	67	738	1077	50
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14774	14818	14071	16271
1.Yes	12	24	21	41
Value-----	R1RXLUNG	R2RXLUNG	R3RXLUNG	R4RXLUNG
.d:dk	69			
.m:missing	145	935	1794	25
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	16432	16600	15292	18288
1.Yes	1058	1077	1145	1503
Value-----	S1RXLUNG	S2RXLUNG	S3RXLUNG	S4RXLUNG
.d:dk	48			
.m:missing	65	708	1421	5
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13952	14033	12840	15196
1.Yes	843	839	908	1161
Value-----	R1RXLUNG_C	R2RXLUNG_C	R3RXLUNG_C	R4RXLUNG_C
.d:dk	69			
.m:missing	145	935	1794	25
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	16299	16474	15161	18098
1.Yes	1191	1203	1276	1693
Value-----	S1RXLUNG_C	S2RXLUNG_C	S3RXLUNG_C	S4RXLUNG_C
.d:dk	48			
.m:missing	65	708	1421	5
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	

## Section B: Health

148

0.No	13843	13932	12747	15049
1.Yes	952	940	1001	1308
Value-----	R1RXHEART	R2RXHEART	R3RXHEART	R4RXHEART
.d:dk	94			
.m:missing	153	935	1771	33
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	16238	16275	14903	17622
1.Yes	1219	1402	1557	2161
Value-----	S1RXHEART	S2RXHEART	S3RXHEART	S4RXHEART
.d:dk	69			
.m:missing	73	704	1408	10
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13774	13769	12523	14649
1.Yes	991	1107	1238	1703
Value-----	R1RXHEART_C	R2RXHEART_C	R3RXHEART_C	R4RXHEART_C
.d:dk	94			
.m:missing	153	935	1771	33
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	16045	16041	14618	17229
1.Yes	1412	1636	1842	2554
Value-----	S1RXHEART_C	S2RXHEART_C	S3RXHEART_C	S4RXHEART_C
.d:dk	69			
.m:missing	73	704	1408	10
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	13625	13580	12301	14341
1.Yes	1140	1296	1460	2011
Value-----	R1RXSTROK	R2RXSTROK	R3RXSTROK	R4RXSTROK
.d:dk	37			
.m:missing	146	906	1364	76
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17300	17431	16589	18950
1.Yes	222	275	278	790
Value-----	S1RXSTROK	S2RXSTROK	S3RXSTROK	S4RXSTROK
.d:dk	25			
.m:missing	69	687	1081	44
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14633	14679	13870	15713
1.Yes	181	214	218	605
Value-----	R1RXSTROK_C	R2RXSTROK_C	R3RXSTROK_C	R4RXSTROK_C
.d:dk	37			
.m:missing	146	906	1364	76
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17252	17386	16534	18845
1.Yes	270	320	333	895
Value-----	S1RXSTROK_C	S2RXSTROK_C	S3RXSTROK_C	S4RXSTROK_C
.d:dk	25			
.m:missing	69	687	1081	44
.r:refuse	2			

## Section B: Health

149

.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14597	14641	13829	15632
1.Yes	217	252	259	686
Value-----	R1RXPSYCH	R2RXPSYCH	R3RXPSYCH	R4RXPSYCH
.d:dk	47			
.m:missing	170	948	1356	167
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	17374	17565	16746	19465
1.Yes	113	99	129	184
Value-----	S1RXPSYCH	S2RXPSYCH	S3RXPSYCH	S4RXPSYCH
.d:dk	34			
.m:missing	86	716	1074	122
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14692	14784	13993	16105
1.Yes	95	80	102	135
Value-----	R1TRPSYCH	R2TRPSYCH	R3TRPSYCH	R4TRPSYCH
.d:dk	47			
.m:missing	170	948	1356	167
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	17445	17625	16827	19592
1.Yes	42	39	48	57
Value-----	S1TRPSYCH	S2TRPSYCH	S3TRPSYCH	S4TRPSYCH
.d:dk	34			
.m:missing	86	716	1074	122
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14754	14831	14061	16194
1.Yes	33	33	34	46
Value-----	R1RXARTHR	R2RXARTHR	R3RXARTHR	R4RXARTHR
.d:dk	46			
.m:missing	164	799	2615	38
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	15278	15391	13164	16847
1.Yes	2216	2422	2452	2931
Value-----	S1RXARTHR	S2RXARTHR	S3RXARTHR	S4RXARTHR
.d:dk	36			
.m:missing	82	589	2114	10
.r:refuse	3			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	12937	13032	11087	14008
1.Yes	1852	1959	1968	2344
Value-----	R1RXARTHR_C	R2RXARTHR_C	R3RXARTHR_C	R4RXARTHR_C
.d:dk	46			
.m:missing	164	799	2615	38
.r:refuse	4			
.x:Joined panel in w3			2866	
0.No	14797	14863	12596	16185
1.Yes	2697	2950	3020	3593
Value-----	S1RXARTHR_C	S2RXARTHR_C	S3RXARTHR_C	S4RXARTHR_C

## Section B: Health

150

.d:dk	36				
.m:missing	82	589	2114	10	
.r:refuse	3				
.u:unmar	2260	2401	2719	2926	
.v:sp nr	538	622	650	517	
.x:Joined panel in w3			2555		
0.No	12543	12605	10628	13506	
1.Yes	2246	2386	2427	2846	
Value-----	R1RXDYSLIP	R2RXDYSLIP	R3RXDYSLIP	R4RXDYSLIP	
.d:dk	343				
.m:missing	159	1456	2269	37	
.r:refuse	5				
.x:Joined panel in w3			2866		
0.No	16421	16177	14805	17566	
1.Yes	780	979	1157	2213	
Value-----	S1RXDYSLIP	S2RXDYSLIP	S3RXDYSLIP	S4RXDYSLIP	
.d:dk	271				
.m:missing	78	1103	1790	9	
.r:refuse	4				
.u:unmar	2260	2401	2719	2926	
.v:sp nr	538	622	650	517	
.x:Joined panel in w3			2555		
0.No	13903	13650	12405	14521	
1.Yes	654	827	974	1832	
Value-----	R1RXDYSLIP_C	R2RXDYSLIP_C	R3RXDYSLIP_C	R4RXDYSLIP_C	
.d:dk	343				
.m:missing	159	1456	2269	37	
.r:refuse	5				
.x:Joined panel in w3			2866		
0.No	16336	16064	14659	17354	
1.Yes	865	1092	1303	2425	
Value-----	S1RXDYSLIP_C	S2RXDYSLIP_C	S3RXDYSLIP_C	S4RXDYSLIP_C	
.d:dk	271				
.m:missing	78	1103	1790	9	
.r:refuse	4				
.u:unmar	2260	2401	2719	2926	
.v:sp nr	538	622	650	517	
.x:Joined panel in w3			2555		
0.No	13828	13554	12285	14363	
1.Yes	729	923	1094	1990	
Value-----	R1RXLIVER	R2RXLIVER	R3RXLIVER	R4RXLIVER	
.d:dk	124				
.m:missing	147	1209	1723	24	
.r:refuse	3				
.x:Joined panel in w3			2866		
0.No	17180	17191	16265	19376	
1.Yes	254	212	243	416	
Value-----	S1RXLIVER	S2RXLIVER	S3RXLIVER	S4RXLIVER	
.d:dk	99				
.m:missing	65	935	1375	6	
.r:refuse	2				
.u:unmar	2260	2401	2719	2926	
.v:sp nr	538	622	650	517	
.x:Joined panel in w3			2555		
0.No	14527	14467	13582	16027	
1.Yes	217	178	212	329	
Value-----	R1RXLIVER_C	R2RXLIVER_C	R3RXLIVER_C	R4RXLIVER_C	
.d:dk	124				
.m:missing	147	1209	1723	24	
.r:refuse	3				
.x:Joined panel in w3			2866		
0.No	17119	17145	16193	19276	

## Section B: Health

151

1.Yes	315	258	315	516
Value-----	S1RXLIVER_C	S2RXLIVER_C	S3RXLIVER_C	S4RXLIVER_C
.d:dk	99			
.m:missing	65	935	1375	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14477	14429	13524	15942
1.Yes	267	216	270	414
Value-----	R1RXKIDNEY	R2RXKIDNEY	R3RXKIDNEY	R4RXKIDNEY
.d:dk	105			
.m:missing	153	1010	1838	22
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	17032	17188	15936	19136
1.Yes	415	414	457	658
Value-----	S1RXKIDNEY	S2RXKIDNEY	S3RXKIDNEY	S4RXKIDNEY
.d:dk	75			
.m:missing	71	750	1463	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14412	14491	13328	15823
1.Yes	350	339	378	533
Value-----	R1RXKIDNEY_C	R2RXKIDNEY_C	R3RXKIDNEY_C	R4RXKIDNEY_C
.d:dk	105			
.m:missing	153	1010	1838	22
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	16901	17038	15776	18942
1.Yes	546	564	617	852
Value-----	S1RXKIDNEY_C	S2RXKIDNEY_C	S3RXKIDNEY_C	S4RXKIDNEY_C
.d:dk	75			
.m:missing	71	750	1463	6
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	14299	14358	13195	15663
1.Yes	463	472	511	693
Value-----	R1RXDIGEST	R2RXDIGEST	R3RXDIGEST	R4RXDIGEST
.d:dk	50			
.m:missing	162	827	2341	32
.r:refuse	3			
.x:Joined panel in w3			2866	
0.No	15344	15338	13409	16792
1.Yes	2149	2447	2481	2992
Value-----	S1RXDIGEST	S2RXDIGEST	S3RXDIGEST	S4RXDIGEST
.d:dk	36			
.m:missing	80	608	1921	8
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Joined panel in w3			2555	
0.No	12955	12921	11187	13940
1.Yes	1837	2051	2061	2414
Value-----	R1RXDIGEST_C	R2RXDIGEST_C	R3RXDIGEST_C	R4RXDIGEST_C
.d:dk	50			
.m:missing	162	827	2341	32



.r:refuse		3			
.x:Joined panel in w3				2866	
0.No		15063	15014	13080	16311
1.Yes		2430	2771	2810	3473
Value-----	S1RXDIGEST_C	S2RXDIGEST_C	S3RXDIGEST_C	S4RXDIGEST_C	
.d:dk		36			
.m:missing		80	608	1921	8
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		12714	12652	10919	13558
1.Yes		2078	2320	2329	2796
Value-----	R1RXMEMORY	R2RXMEMORY	R3RXMEMORY	R4RXMEMORY	
.d:dk		48			
.m:missing		155	935	1394	20
.r:refuse		3			
.x:Joined panel in w3				2866	
0.No		17385	17498	16655	19480
1.Yes		117	179	182	316
Value-----	S1RXMEMORY	S2RXMEMORY	S3RXMEMORY	S4RXMEMORY	
.d:dk		33			
.m:missing		74	701	1098	6
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		14713	14745	13937	16120
1.Yes		88	134	134	236
Value-----	R1RXMEMORY_C	R2RXMEMORY_C	R3RXMEMORY_C	R4RXMEMORY_C	
.d:dk		48			
.m:missing		155	935	1394	20
.r:refuse		3			
.x:Joined panel in w3				2866	
0.No		17371	17480	16633	19442
1.Yes		131	197	204	354
Value-----	S1RXMEMORY_C	S2RXMEMORY_C	S3RXMEMORY_C	S4RXMEMORY_C	
.d:dk		33			
.m:missing		74	701	1098	6
.r:refuse		2			
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:Joined panel in w3				2555	
0.No		14699	14730	13917	16089
1.Yes		102	149	154	267

### How Constructed:

These variables indicate whether the respondent takes medication or receives treatment for a condition. These variables are coded as 0.no, and 1.yes. If the respondent does not have the condition, and therefore would have no need to take medication treating it, then the variable is assigned a value of 0. Special missing .x is assigned at Wave 3 if the respondent is missing a value due to an error in the Life History Survey code for "ever had" responses for all doctor diagnosed health problems. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwRXHIBP indicates whether the respondent takes Western modern medicine for high blood pressure. RwRXHIBP\_C indicates whether the respondent takes any medication for high blood pressure, which includes Western modern medicine or Chinese traditional medicine. The respondent is asked about taking medication for high blood pressure after reporting a high blood pressure diagnosis.

RwRXDIABI indicates whether the respondent injects insulin for diabetes. RwRXDIAB indicates if the respondent injects insulin or is taking Western modern medicine for diabetes. RwRXDIAB\_C indicates if the respondent is taking any medication for diabetes, which includes insulin injections, Western modern medicine, or Chinese traditional medicine. The respondent is asked about taking medication for diabetes after reporting a diabetes diagnosis.

RwRXCANCER indicates if the respondent has taken Western modern medicine to treat their cancer or relieve their symptoms in the past two years. RwRXCANCER\_C if the respondent has taken any medication, which includes Western modern medicine or Chinese traditional medicine, to treat their cancer or relieve their symptoms in the past two years. The respondent is asked about taking medication for cancer after reporting a cancer diagnosis.

RwCNCRCHEM, RwcNCRSURG, and RwcNCCRADN indicate if the respondent has received chemotherapy, surgery, or radiation therapy to treat their cancer or relieve their symptoms in the past two years, respectively. The respondent is asked about taking medication for cancer after reporting a cancer diagnosis.

RwRXLUNG indicates if the respondent takes Western modern medicine for chronic lung diseases, such as chronic bronchitis, emphysema (excluding tumors, or cancer). RwRXLUNG\_C indicates if the respondent takes any medication, which includes Western modern medicine or Chinese traditional medicine, for chronic lung diseases, such as chronic bronchitis, emphysema (excluding tumors, or cancer). If the respondent reports taking no medication or receiving treatments other than medication for their chronic lung disease, then a 0 is assigned. The respondent is asked about taking medication for chronic lung disease after reporting a chronic lung disease diagnosis.

RwRXHEART indicates if the respondent takes Western modern medicine for heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems. RwRXHEART\_C indicates if the respondent takes any medication, which includes, Western modern medicine and Chinese traditional medicine for heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems. If the respondent reports taking no medication or receiving treatments other than medication for their heart problems, then a 0 is assigned. The respondent is asked about taking medication for these heart problems after reporting being diagnosed with any of these heart problems.

RwRXSTROK indicates if the respondent takes Western modern medicine for a stroke. If respondents report taking Western modern medicine, then a 1 is assigned. If respondents report taking Chinese traditional medicine, or receiving physical therapy, acupuncture and moxibustion, occupational therapy, or no treatment, then a 0 is assigned. RwRXSTROK\_C indicates if the respondent is taking any medication. If respondents report taking Western modern medicine or Chinese traditional medicine, then a 1 is assigned. If a respondent reports physical therapy, acupuncture and moxibustion, or no treatment or medication, then a 0 is assigned. The respondent is asked about taking medication for a stroke after reporting being diagnosed with having a stroke.

RwRXPSYCH indicates if the respondent is taking medication for their emotional, nervous, or psychiatric problems. If the respondent reports taking anti-depressants, tranquilizers, or sleeping pills, then a 1 is assigned. If the respondent reports receiving psychiatric or psychological treatment or no treatment then a 0 is assigned. The respondent is asked about taking medication for psychiatric problems after reporting being diagnosed with emotional, nervous, or psychiatric problems.

RwTRPSYCH indicates if the respondent is receiving treatment for their emotional, nervous, or psychiatric problems. If the respondent reports receiving psychiatric or psychological treatment, then a 1 is assigned. If the respondent reports taking anti-depressants, tranquilizers or sleeping pills, or no treatment, then a 0 is assigned. The respondent is asked about receiving treatment for psychiatric problems after reporting being diagnosed with emotional, nervous, or psychiatric problems.

RwRXARTHR indicates if the respondent takes Western modern medicine for arthritis or rheumatism. RwRXARTHR\_C indicates if the respondent takes any medicine, which includes Western modern medicine or Chinese traditional medicine for arthritis or rheumatism. If the respondent reports taking no medication or receiving treatment other than medication for their arthritis, then a 0 is assigned. The respondent is asked about taking medication for arthritis or rheumatism after reporting being diagnosed with arthritis or rheumatism.

RwRXDYSLIP indicates if the respondent takes Western modern medicine for dyslipidemia (elevation of low-density lipoprotein, triglycerides, and total cholesterol, or a low high-density lipoprotein level). RwRXDYSLIP\_C indicates if the respondent takes any medicine, which includes Western modern medicine or Chinese traditional medicine for dyslipidemia. If the respondent reports taking no medication or receiving treatment other than medication for dyslipidemia, then a 0 is assigned. The

respondent is asked about taking medication for dyslipidemia after reporting a dyslipidemia diagnosis.

RwRXLIVER indicates if the respondent takes Western modern medicine for liver disease (except fatty acid liver, tumors, and cancer). RwRXLIVER\_C indicates if the respondent takes any medicine, which includes Western modern medicine and Chinese traditional medicine for liver disease. If the respondent reports taking no medication or receiving treatment other than medication for liver disease, then a 0 is assigned. The respondent is asked about taking medication for liver disease after reporting a liver disease diagnosis.

RwRXKIDNEY indicates if the respondent takes Western modern medication for kidney disease (except for tumor or cancer). RwRXKIDNEY\_C indicates if the respondent takes any medication, which includes Western modern medicine or Chinese traditional medicine for kidney disease. If the respondent reports taking no medication or receiving treatment other than medication for kidney disease, then a 0 is assigned. The respondent is asked about taking medication for kidney disease after reporting a kidney disease diagnosis.

RwRXDIGEST indicates if the respondent takes Western modern medication for stomach or other digestive disease (except for tumor or cancer). RwRXDIGEST\_C indicates if the respondent takes any medication, which includes Western modern medication or Chinese traditional medicine for stomach or other digestive disease (except for tumor or cancer). If the respondent reports taking no medication or receiving treatment other than medication for stomach or other digestive disease, then a 0 is assigned. The respondent is asked about taking medication for stomach or other digestive disease after reporting a stomach or other digestive disease diagnosis.

RwRXMEMRY indicates if the respondent takes Western modern medication for a memory-related disease. RwRXMEMRY\_C indicates if the respondent takes any medication, which includes Western modern medicine or Chinese traditional medicine, for a memory-related disease. If the respondent reports taking no medication or receiving treatment other than medication for a memory related disease, then a 0 is assigned. The respondent is asked about taking medication for a memory-related disease after reporting a memory-related disease diagnosis.

SwRXHIBP, SwRXHIBP\_C, SwRXDIABI, SwRXDIAB, SwRXDIAB\_C, SwRXCANCR, SwRXCANCR\_C, SwCNCRCHEM, SwCNCRSURG, SwCNCRRADN, SwRXLUNG, SwRXLUNG\_C, SwRXHEART, SwRXHEART\_C, SwRXSTROK, SwRXSTROK\_C, SwRXPSYCH, SwTRPSYCH, SwRXARTHR, SwRXARTHR\_C, SwRXDYSLIP, SwRXDYSLIP\_C, SwRXLIVER, SwRXLIVER\_C, SwRXKIDNEY, SwRXKIDNEY\_C, SwRXDIGEST, SwRXDIGEST\_C, SwRXMEMRY, and SwRXMEMRY\_C indicate whether the respondent's current wave's spouse takes medication or receives treatment for the specified condition, and are taken from the corresponding respondent variables. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 3, respondents may be missing values due to an error in the Life History Survey code for "ever had" responses for doctor diagnosed health problems.

## Differences with the RAND HRS/Harmonized HRS

In the CHARLS, respondents are asked about taking medication for certain conditions and can indicate Western modern medication or Chinese traditional medication. Variables without the "\_C" at the end of the variable name are comparable to the HRS in that these variables indicate the respondent reported taking Western modern medicine. Variables in the Harmonized CHARLS with an added "\_C" at the end of the variable name indicate that the respondent reported taking Western modern medicine or Chinese traditional medicine.

The Harmonized HRS offers RwRXANGINA, RwRXCHF, and RwRXHRTAT indicating whether the respondent takes medication for angina, congestive heart failure, or heart attack, respectively. In the CHARLS, respondents are not asked about medications for each of these diagnoses. Instead, respondents are asked one question regarding whether they are taking medication for heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems. In the Harmonized CHARLS, this information is encoded in the variable RwRXHEART and RwRXHEART\_C.

Unlike the HRS, CHARLS asks questions regarding medication for dyslipidemia, liver disease, kidney disease, and stomach or other digestive disease.

**CHARLS Variables Used:**

Wave 1:

DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA010_10_S1	Take Chinese Traditional Medicine for Stomach or Other Digestiv
DA010_10_S2	Take Western Morden Medicine for Stomach or Other Digestive Dis
DA010_10_S3	Other Treatments for Stomach or Other Digestive Disease
DA010_10_S4	None of the Above for Stomach or Other Digestive Disease
DA010_12_S1	Take Chinese Traditional Medicine for Memory-Related Disease
DA010_12_S2	Take Western Morden Medicine for Memory-Related Disease
DA010_12_S3	Other Treatments for Memory-Related Disease
DA010_12_S4	None of the Above for Memory-Related Disease
DA010_13_S1	Take Chinese Traditional Medicine for Arthritis or Rheumatism
DA010_13_S2	Take Western Morden Medicine for Arthritis or Rheumatism
DA010_13_S3	Other Treatments for Arthritis or Rheumatism
DA010_13_S4	None of the Above for Arthritis or Rheumatism
DA010_2_S1	Take Chinese Traditional Medicine for Dyslipidemia
DA010_2_S2	Take Western Morden Medicine for Dyslipidemia
DA010_2_S3	Other Treatments for Dyslipidemia
DA010_2_S4	None of the Above for Dyslipide
DA010_5_S1	Take Chinese Traditional Medicine for Chronic Lung Diseases
DA010_5_S2	Take Western Morden Medicine for Chronic Lung Diseases
DA010_5_S3	Other Treatments for Chronic Lung Diseases
DA010_5_S4	None of the Above for Chronic Lung Diseases
DA010_6_S1	Take Chinese Traditional Medicine for Liver Disease
DA010_6_S2	Take Western Morden Medicine for Liver Disease
DA010_6_S3	Other Treatments for Liver Disease
DA010_6_S4	None of the Above for Liver Disease
DA010_7_S1	Take Chinese Traditional Medicine for Heart Problems
DA010_7_S2	Take Western Morden Medicine for Heart Problems
DA010_7_S3	Other Treatments for Heart Problems
DA010_7_S4	None of the Above for Heart Problems
DA010_9_S1	Take Chinese Traditional Medicine for Kidney Diease
DA010_9_S2	Take Western Morden Medicine for Kidney Diease
DA010_9_S3	Other Treatments for Kidney Diease
DA010_9_S4	None of the Above for Kidney Diease
DA011S1	Take Chinese Traditional Medicine for Hypertension
DA011S2	Take Western Morden Medicine for Hypertension
DA011S3	None of the Above for Hypertension
DA014S1	Take Chinese Traditional Medicine for Diabetes
DA014S2	Take Western Morden Medicine for Diabetes
DA014S3	Taking Insulin Injections for Diabetes
DA014S4	None of the Above for Diabetes
DA018S1	Y/N Treat Cancer by Take Chinese Traditional Medicine
DA018S2	Y/N Treat Cancer by Take Western Morden Medicine
DA018S3	Y/N Treat Cancer by Chemotherapy
DA018S4	Y/N Treat Cancer by Surgery
DA018S5	Y/N Treat Cancer by Radiation Therapy
DA018S6	Y/N Treat Cancer by None of the Above
DA019S1	Y/N Treat Stroke by Take Chinese Traditional Medicine
DA019S2	Y/N Treat Stroke by Take Western Morden Medicine
DA019S3	Y/N Treat Stroke by Physical Therapy
DA019S4	Y/N Treat Stroke by Acupuncture and Moxibustion
DA019S5	Y/N Treat Stroke by Occupational Therapy
DA019S6	Y/N Treat Stroke by None of the Above
DA020S1	Y/N Treat Emotional or Psychiatric Problems by Psychological Tr

DA020S2	Y/N Treat Emotional or Psychiatric Problems by Taking Anti Depr
DA020S3	Y/N Treat Emotional or Psychiatric Problems by Taking Sleeping
DA020S4	Y/N Treat Emotional or Psychiatric Problems by None of the Abov
Wave 2:	
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA010_10_S1	Taking Any Medication or Other Treatments
DA010_10_S2	Taking Any Medication or Other Treatments
DA010_10_S3	Taking Any Medication or Other Treatments
DA010_10_S4	Taking Any Medication or Other Treatments
DA010_12_S1	Taking Any Medication or Other Treatments
DA010_12_S2	Taking Any Medication or Other Treatments
DA010_12_S3	Taking Any Medication or Other Treatments
DA010_12_S4	Taking Any Medication or Other Treatments
DA010_13_S1	Taking Any Medication or Other Treatments
DA010_13_S2	Taking Any Medication or Other Treatments
DA010_13_S3	Taking Any Medication or Other Treatments
DA010_13_S4	Taking Any Medication or Other Treatments
DA010_2_S1	Taking Any Medication or Other Treatments
DA010_2_S2	Taking Any Medication or Other Treatments
DA010_2_S3	Taking Any Medication or Other Treatments
DA010_2_S4	Taking Any Medication or Other Treatments
DA010_5_S1	Taking Any Medication or Other Treatments
DA010_5_S2	Taking Any Medication or Other Treatments
DA010_5_S3	Taking Any Medication or Other Treatments
DA010_5_S4	Taking Any Medication or Other Treatments
DA010_6_S1	Taking Any Medication or Other Treatments
DA010_6_S2	Taking Any Medication or Other Treatments
DA010_6_S3	Taking Any Medication or Other Treatments
DA010_6_S4	Taking Any Medication or Other Treatments
DA010_7_S1	Taking Any Medication or Other Treatments
DA010_7_S2	Taking Any Medication or Other Treatments

DA010_7_S3	Taking Any Medication or Other Treatments
DA010_7_S4	Taking Any Medication or Other Treatments
DA010_9_S1	Taking Any Medication or Other Treatments
DA010_9_S2	Taking Any Medication or Other Treatments
DA010_9_S3	Taking Any Medication or Other Treatments
DA010_9_S4	Taking Any Medication or Other Treatments
DA011S1	Taking Any Medication or Other Treatments
DA011S2	Taking Any Medication or Other Treatments
DA011S3	Taking Any Medication or Other Treatments
DA014S1	Treating or Controlling Diabetes with Medication
DA014S2	Treating or Controlling Diabetes with Medication
DA014S3	Treating or Controlling Diabetes with Medication
DA014S4	Treating or Controlling Diabetes with Medication
DA018S1	Taking Medications to Relieve Cancer Symptoms
DA018S2	Taking Medications to Relieve Cancer Symptoms
DA018S3	Taking Medications to Relieve Cancer Symptoms
DA018S4	Taking Medications to Relieve Cancer Symptoms
DA018S5	Taking Medications to Relieve Cancer Symptoms
DA018S6	Taking Medications to Relieve Cancer Symptoms
DA019S1	Treatments for Stroke or Its Complications
DA019S2	Treatments for Stroke or Its Complications
DA019S3	Treatments for Stroke or Its Complications
DA019S4	Treatments for Stroke or Its Complications
DA019S5	Treatments for Stroke or Its Complications
DA019S6	Treatments for Stroke or Its Complications
DA020S1	Treatments for Emotional or Psychiatric Problems
DA020S2	Treatments for Emotional or Psychiatric Problems
DA020S3	Treatments for Emotional or Psychiatric Problems
DA020S4	Treatments for Emotional or Psychiatric Problems

## Wave 3:

DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease

DA010_10_S1	Taking Any Medication or Other Treatments
DA010_10_S2	Taking Any Medication or Other Treatments
DA010_10_S3	Taking Any Medication or Other Treatments
DA010_10_S4	Taking Any Medication or Other Treatments
DA010_12_S1	Taking Any Medication or Other Treatments
DA010_12_S2	Taking Any Medication or Other Treatments
DA010_12_S3	Taking Any Medication or Other Treatments
DA010_12_S4	Taking Any Medication or Other Treatments
DA010_13_S1	Taking Any Medication or Other Treatments
DA010_13_S2	Taking Any Medication or Other Treatments
DA010_13_S3	Taking Any Medication or Other Treatments
DA010_13_S4	Taking Any Medication or Other Treatments
DA010_2_S1	Taking Any Medication or Other Treatments
DA010_2_S2	Taking Any Medication or Other Treatments
DA010_2_S3	Taking Any Medication or Other Treatments
DA010_2_S4	Taking Any Medication or Other Treatments
DA010_5_S1	Taking Any Medication or Other Treatments
DA010_5_S2	Taking Any Medication or Other Treatments
DA010_5_S3	Taking Any Medication or Other Treatments
DA010_5_S4	Taking Any Medication or Other Treatments
DA010_6_S1	Taking Any Medication or Other Treatments
DA010_6_S2	Taking Any Medication or Other Treatments
DA010_6_S3	Taking Any Medication or Other Treatments
DA010_6_S4	Taking Any Medication or Other Treatments
DA010_7_S1	Taking Any Medication or Other Treatments
DA010_7_S2	Taking Any Medication or Other Treatments
DA010_7_S3	Taking Any Medication or Other Treatments
DA010_7_S4	Taking Any Medication or Other Treatments
DA010_9_S1	Taking Any Medication or Other Treatments
DA010_9_S2	Taking Any Medication or Other Treatments
DA010_9_S3	Taking Any Medication or Other Treatments
DA010_9_S4	Taking Any Medication or Other Treatments
DA011S1	Taking Any Medication or Other Treatments
DA011S2	Taking Any Medication or Other Treatments
DA011S3	Taking Any Medication or Other Treatments
DA014S1	Treating or Controlling Diabetes with Medication
DA014S2	Treating or Controlling Diabetes with Medication
DA014S3	Treating or Controlling Diabetes with Medication
DA014S4	Treating or Controlling Diabetes with Medication
DA018S1	Taking Medications to Relieve Cancer Symptoms
DA018S2	Taking Medications to Relieve Cancer Symptoms
DA018S3	Taking Medications to Relieve Cancer Symptoms
DA018S4	Taking Medications to Relieve Cancer Symptoms
DA018S5	Taking Medications to Relieve Cancer Symptoms
DA018S6	Taking Medications to Relieve Cancer Symptoms
DA019S1	Treatments for Stroke or Its Complications
DA019S2	Treatments for Stroke or Its Complications
DA019S3	Treatments for Stroke or Its Complications
DA019S4	Treatments for Stroke or Its Complications
DA019S5	Treatments for Stroke or Its Complications
DA019S6	Treatments for Stroke or Its Complications
DA020S1	Treatments for Emotional or Psychiatric Problems
DA020S2	Treatments for Emotional or Psychiatric Problems
DA020S3	Treatments for Emotional or Psychiatric Problems
DA020S4	Treatments for Emotional or Psychiatric Problems
Wave 4:	
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor

DA007_9_	Diagnosed with Kidney disease by a Doctor
DA010_W2_2_10_	Digestive Disease Compared to ZIWTime
DA010_W2_2_11_	Emotional Problems Compared to ZIWTime
DA010_W2_2_12_	Memory-Related Disease Compared to ZIWTime
DA010_W2_2_13_	Arthritis Compared to ZIWTime
DA010_W2_2_14_	Asthma Compared to ZIWTime
DA010_W2_2_1_	Hypertension Compared to ZIWTime
DA010_W2_2_2_	Dyslipidemia Compared to ZIWTime
DA010_W2_2_3_	Diabetes Compared to ZIWTime
DA010_W2_2_4_	Cancer Compared to ZIWTime
DA010_W2_2_5_	Chronic Lung Diseases Compared to ZIWTime
DA010_W2_2_6_	Liver Disease Compared to ZIWTime
DA010_W2_2_7_	Heart Problems Compared to ZIWTime
DA010_W2_2_8_	Stroke Compared to ZIWTime
DA010_W2_2_9_	Kidney Disease Compared to ZIWTime
DA010_W4_10__S1	Treatments to Condition in DA007[1]
DA010_W4_10__S2	Treatments to Condition in DA007[2]
DA010_W4_10__S3	Treatments to Condition in DA007[3]
DA010_W4_10__S4	Treatments to Condition in DA007[4]
DA010_W4_10__S99	Treatments to Condition in DA007[99]
DA010_W4_12__S1	Treatments to Condition in DA007[1]
DA010_W4_12__S2	Treatments to Condition in DA007[2]
DA010_W4_12__S3	Treatments to Condition in DA007[3]
DA010_W4_12__S4	Treatments to Condition in DA007[4]
DA010_W4_12__S99	Treatments to Condition in DA007[99]
DA010_W4_13__S1	Treatments to Condition in DA007[1]
DA010_W4_13__S2	Treatments to Condition in DA007[2]
DA010_W4_13__S3	Treatments to Condition in DA007[3]
DA010_W4_13__S4	Treatments to Condition in DA007[4]
DA010_W4_13__S99	Treatments to Condition in DA007[99]
DA010_W4_2__S1	Treatments to Condition in DA007[1]
DA010_W4_2__S2	Treatments to Condition in DA007[2]
DA010_W4_2__S3	Treatments to Condition in DA007[3]
DA010_W4_2__S4	Treatments to Condition in DA007[4]
DA010_W4_2__S99	Treatments to Condition in DA007[99]
DA010_W4_5__S1	Treatments to Condition in DA007[1]
DA010_W4_5__S2	Treatments to Condition in DA007[2]
DA010_W4_5__S3	Treatments to Condition in DA007[3]
DA010_W4_5__S4	Treatments to Condition in DA007[4]
DA010_W4_5__S99	Treatments to Condition in DA007[99]
DA010_W4_6__S1	Treatments to Condition in DA007[1]
DA010_W4_6__S2	Treatments to Condition in DA007[2]
DA010_W4_6__S3	Treatments to Condition in DA007[3]
DA010_W4_6__S4	Treatments to Condition in DA007[4]
DA010_W4_6__S99	Treatments to Condition in DA007[99]
DA010_W4_7__S1	Treatments to Condition in DA007[1]
DA010_W4_7__S2	Treatments to Condition in DA007[2]
DA010_W4_7__S3	Treatments to Condition in DA007[3]
DA010_W4_7__S4	Treatments to Condition in DA007[4]
DA010_W4_7__S99	Treatments to Condition in DA007[99]
DA010_W4_9__S1	Treatments to Condition in DA007[1]
DA010_W4_9__S2	Treatments to Condition in DA007[2]
DA010_W4_9__S3	Treatments to Condition in DA007[3]
DA010_W4_9__S4	Treatments to Condition in DA007[4]
DA010_W4_9__S99	Treatments to Condition in DA007[99]
DA011_W4_S1	Treatments to Hypertension
DA011_W4_S2	Treatments to Hypertension
DA011_W4_S3	Treatments to Hypertension
DA011_W4_S4	Treatments to Hypertension
DA014_W4_S1	Taking Treatments for Diabetes
DA014_W4_S2	Taking Treatments for Diabetes
DA014_W4_S3	Taking Treatments for Diabetes
DA014_W4_S4	Taking Treatments for Diabetes
DA014_W4_S5	Taking Treatments for Diabetes
DA018_W4_S1	Treatments for Cancer in the Past Two Years
DA018_W4_S2	Treatments for Cancer in the Past Two Years
DA018_W4_S3	Treatments for Cancer in the Past Two Years
DA018_W4_S4	Treatments for Cancer in the Past Two Years
DA018_W4_S5	Treatments for Cancer in the Past Two Years



---

DA018_W4_S6	Treatments for Cancer in the Past Two Years
DA018_W4_S7	Treatments for Cancer in the Past Two Years
DA019_W4_S1	Treatments for Stroke
DA019_W4_S2	Treatments for Stroke
DA019_W4_S3	Treatments for Stroke
DA019_W4_S4	Treatments for Stroke
DA019_W4_S5	Treatments for Stroke
DA019_W4_S6	Treatments for Stroke
DA019_W4_S7	Treatments for Stroke
DA020_W4_S1	Treatments for Emotional Problems
DA020_W4_S2	Treatments for Emotional Problems
DA020_W4_S3	Treatments for Emotional Problems
DA020_W4_S4	Treatments for Emotional Problems
DA020_W4_S5	Treatments for Emotional Problems
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Health behaviors: Physical Activity or Exercise</b>
--

Wave	Variable	Label	Type
1	R1VGACT_C	r1vgact_c:w1 r any vigorous physical activity or exercise at	Categ
2	R2VGACT_C	r2vgact_c:w2 r any vigorous physical activity or exercise at	Categ
3	R3VGACT_C	r3vgact_c:w3 r any vigorous physical activity or exercise at	Categ
4	R4VGACT_C	r4vgact_c:w4 r any vigorous physical activity or exercise at	Categ
1	S1VGACT_C	s1vgact_c:w1 s any vigorous physical activity or exercise at	Categ
2	S2VGACT_C	s2vgact_c:w2 s any vigorous physical activity or exercise at	Categ
3	S3VGACT_C	s3vgact_c:w3 s any vigorous physical activity or exercise at	Categ
4	S4VGACT_C	s4vgact_c:w4 s any vigorous physical activity or exercise at	Categ
1	R1VGACTX_C	r1vgactx_c:w1 r # days/wk vigorous physical activity or exer	Cont
2	R2VGACTX_C	r2vgactx_c:w2 r # days/wk vigorous physical activity or exer	Cont
3	R3VGACTX_C	r3vgactx_c:w3 r # days/wk vigorous physical activity or exer	Cont
4	R4VGACTX_C	r4vgactx_c:w4 r # days/wk vigorous physical activity or exer	Cont
1	S1VGACTX_C	s1vgactx_c:w1 s # days/wk vigorous physical activity or exer	Cont
2	S2VGACTX_C	s2vgactx_c:w2 s # days/wk vigorous physical activity or exer	Cont
3	S3VGACTX_C	s3vgactx_c:w3 s # days/wk vigorous physical activity or exer	Cont
4	S4VGACTX_C	s4vgactx_c:w4 s # days/wk vigorous physical activity or exer	Cont
1	R1MDACT_C	r1mdact_c:w1 r any moderate physical activity or exercise at	Categ
2	R2MDACT_C	r2mdact_c:w2 r any moderate physical activity or exercise at	Categ
3	R3MDACT_C	r3mdact_c:w3 r any moderate physical activity or exercise at	Categ
4	R4MDACT_C	r4mdact_c:w4 r any moderate physical activity or exercise at	Categ
1	S1MDACT_C	s1mdact_c:w1 s any moderate physical activity or exercise at	Categ
2	S2MDACT_C	s2mdact_c:w2 s any moderate physical activity or exercise at	Categ
3	S3MDACT_C	s3mdact_c:w3 s any moderate physical activity or exercise at	Categ
4	S4MDACT_C	s4mdact_c:w4 s any moderate physical activity or exercise at	Categ
1	R1MDACTX_C	r1mdactx_c:w1 r # days/wk moderate physical activity or exer	Cont
2	R2MDACTX_C	r2mdactx_c:w2 r # days/wk moderate physical activity or exer	Cont
3	R3MDACTX_C	r3mdactx_c:w3 r # days/wk moderate physical activity or exer	Cont
4	R4MDACTX_C	r4mdactx_c:w4 r # days/wk moderate physical activity or exer	Cont
1	S1MDACTX_C	s1mdactx_c:w1 s # days/wk moderate physical activity or exer	Cont
2	S2MDACTX_C	s2mdactx_c:w2 s # days/wk moderate physical activity or exer	Cont
3	S3MDACTX_C	s3mdactx_c:w3 s # days/wk moderate physical activity or exer	Cont
4	S4MDACTX_C	s4mdactx_c:w4 s # days/wk moderate physical activity or exer	Cont
1	R1LTACT_C	r1ltact_c:w1 r any light physical activity or exercise at le	Categ
2	R2LTACT_C	r2ltact_c:w2 r any light physical activity or exercise at le	Categ
3	R3LTACT_C	r3ltact_c:w3 r any light physical activity or exercise at le	Categ
4	R4LTACT_C	r4ltact_c:w4 r any light physical activity or exercise at le	Categ
1	S1LTACT_C	s1ltact_c:w1 s any light physical activity or exercise at le	Categ
2	S2LTACT_C	s2ltact_c:w2 s any light physical activity or exercise at le	Categ
3	S3LTACT_C	s3ltact_c:w3 s any light physical activity or exercise at le	Categ
4	S4LTACT_C	s4ltact_c:w4 s any light physical activity or exercise at le	Categ
1	R1LTACTX_C	r1ltactx_c:w1 r # days/wk light physical activity or exercis	Cont
2	R2LTACTX_C	r2ltactx_c:w2 r # days/wk light physical activity or exercis	Cont
3	R3LTACTX_C	r3ltactx_c:w3 r # days/wk light physical activity or exercis	Cont
4	R4LTACTX_C	r4ltactx_c:w4 r # days/wk light physical activity or exercis	Cont
1	S1LTACTX_C	s1ltactx_c:w1 s # days/wk light physical activity or exercis	Cont
2	S2LTACTX_C	s2ltactx_c:w2 s # days/wk light physical activity or exercis	Cont
3	S3LTACTX_C	s3ltactx_c:w3 s # days/wk light physical activity or exercis	Cont
4	S4LTACTX_C	s4ltactx_c:w4 s # days/wk light physical activity or exercis	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
----------	---	------	---------	---------	---------

R1VGACT_C	6918	0.34	0.47	0.00	1.00
R2VGACT_C	6088	0.35	0.48	0.00	1.00
R3VGACT_C	9845	0.35	0.48	0.00	1.00
R4VGACT_C	19732	0.32	0.46	0.00	1.00
S1VGACT_C	5868	0.36	0.48	0.00	1.00
S2VGACT_C	5127	0.36	0.48	0.00	1.00
S3VGACT_C	8424	0.37	0.48	0.00	1.00
S4VGACT_C	16343	0.34	0.47	0.00	1.00
R1VGACTX_C	6892	1.96	2.94	0.00	7.00
R2VGACTX_C	6052	1.92	2.90	0.00	7.00
R3VGACTX_C	9787	1.89	2.84	0.00	7.00
R4VGACTX_C	19732	1.69	2.76	0.00	7.00
S1VGACTX_C	5848	2.09	3.00	0.00	7.00
S2VGACTX_C	5098	2.00	2.94	0.00	7.00
S3VGACTX_C	8377	1.97	2.87	0.00	7.00
S4VGACTX_C	16343	1.82	2.83	0.00	7.00
R1MDACT_C	6914	0.56	0.50	0.00	1.00
R2MDACT_C	6079	0.55	0.50	0.00	1.00
R3MDACT_C	9835	0.56	0.50	0.00	1.00
R4MDACT_C	19732	0.49	0.50	0.00	1.00
S1MDACT_C	5865	0.59	0.49	0.00	1.00
S2MDACT_C	5118	0.56	0.50	0.00	1.00
S3MDACT_C	8417	0.57	0.50	0.00	1.00
S4MDACT_C	16343	0.51	0.50	0.00	1.00
R1MDACTX_C	6886	3.48	3.30	0.00	7.00
R2MDACTX_C	6048	3.22	3.25	0.00	7.00
R3MDACTX_C	9767	3.14	3.19	0.00	7.00
R4MDACTX_C	19732	2.74	3.15	0.00	7.00
S1MDACTX_C	5842	3.64	3.29	0.00	7.00
S2MDACTX_C	5093	3.30	3.25	0.00	7.00
S3MDACTX_C	8361	3.20	3.18	0.00	7.00
S4MDACTX_C	16343	2.84	3.17	0.00	7.00
R1LTACT_C	6899	0.80	0.40	0.00	1.00
R2LTACT_C	6075	0.80	0.40	0.00	1.00
R3LTACT_C	9840	0.79	0.41	0.00	1.00
R4LTACT_C	19732	0.83	0.38	0.00	1.00
S1LTACT_C	5853	0.80	0.40	0.00	1.00
S2LTACT_C	5119	0.80	0.40	0.00	1.00
S3LTACT_C	8423	0.79	0.41	0.00	1.00
S4LTACT_C	16343	0.83	0.37	0.00	1.00
R1LTACTX_C	6863	5.25	2.87	0.00	7.00
R2LTACTX_C	6025	5.13	2.88	0.00	7.00
R3LTACTX_C	9772	5.09	2.91	0.00	7.00
R4LTACTX_C	19732	5.34	2.76	0.00	7.00
S1LTACTX_C	5826	5.28	2.86	0.00	7.00
S2LTACTX_C	5077	5.16	2.87	0.00	7.00
S3LTACTX_C	8370	5.09	2.90	0.00	7.00
S4LTACTX_C	16343	5.40	2.72	0.00	7.00

### Categorical Variable Codes

Value-----	R1VGACT_C	R2VGACT_C	R3VGACT_C	R4VGACT_C
.d:dk	1			
.m:missing	10788	12524	11252	84
.r:refuse	1			

0.No	4557	3966	6377	13511
1.Yes	2361	2122	3468	6221
Value-----	S1VGACT_C	S2VGACT_C	S3VGACT_C	S4VGACT_C
.m:missing	9041	10453	9300	19
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	3740	3272	5323	10814
1.Yes	2128	1855	3101	5529
Value-----	R1MDOACT_C	R2MDOACT_C	R3MDOACT_C	R4MDOACT_C
.d:dk	2			
.m:missing	10791	12533	11262	84
.r:refuse	1			
0.No	3030	2752	4334	10107
1.Yes	3884	3327	5501	9625
Value-----	S1MDOACT_C	S2MDOACT_C	S3MDOACT_C	S4MDOACT_C
.m:missing	9044	10462	9307	19
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	2430	2251	3619	8080
1.Yes	3435	2867	4798	8263
Value-----	R1LTACT_C	R2LTACT_C	R3LTACT_C	R4LTACT_C
.d:dk	9			
.m:missing	10799	12537	11257	84
.r:refuse	1			
0.No	1404	1233	2048	3447
1.Yes	5495	4842	7792	16285
Value-----	S1LTACT_C	S2LTACT_C	S3LTACT_C	S4LTACT_C
.d:dk	8			
.m:missing	9048	10461	9301	19
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	1182	1028	1742	2705
1.Yes	4671	4091	6681	13638

### How Constructed:

RwVGACT\_C, RwMDOACT\_C, and RwLTACT\_C indicate whether respondent does any vigorous, moderately energetic or mildly energetic physical activity for at least 10 minutes every week. A code of 1 indicates the respondent reported taking part in the given level of physical activity for more than 10 minutes a week. A code of 0 indicates the respondent reported they do not take part in the given level of physical activity for more than 10 minutes a week. At Waves 1 to 3, these questions were asked to a random subsample of half the sample. Starting at Wave 4, these questions were asked to all respondents. Don't know, missing, or refused values of RwVGACT\_C, RwMDOACT\_C, and RwLTACT\_C are assigned special missing codes (.d), (.m), (.r), respectively. RwVGACT\_C, RwMDOACT\_C, and RwLTACT\_C are set to plain missing (.) for respondents who did not respond to this wave.

RwVGACTX\_C, RwMDOACTX\_C, and RwLTACTX\_C indicate the number of days of vigorous, moderately energetic, or mildly energetic physical activity the respondent does for at least 10 minutes every week. If the respondent reported doing less than 10 minutes of the specific level of physical activity per week, RwVGACTX\_C, RwMDOACTX\_C, and RwLTACTX\_C are set to 0, for 0 days a week. At Waves 1 to 3, these questions were asked to a random subsample of half the sample. Starting at Wave 4, these questions were asked to all respondents. Don't know, or refused values of these variables are assigned special missing codes (.d), (.r), respectively. RwVGACTX\_C, RwMDOACTX\_C, and RwLTACTX\_C are set to plain missing (.) for respondents who did not respond to this wave.

SwVGACT\_C, SwMDOACT\_C, SwLTACT\_C, SwVGACTX\_C, SwMDOACTX\_C, and SwLTACTX\_C indicate the respondent's spouse's frequency of the given levels of physical activity and are taken directly from spouse's responses. In addition to the special missing codes (.d) and (.r), these variables employ two other missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not

report being coupled in the current wave. Special missing value (.v) is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 to 3, these questions were asked to a random subsample of half the sample. Starting at Wave 4, these questions were asked to all respondents.

## Differences with the RAND HRS/Harmonized HRS

The HRS asks the frequency and time of physical exercise in the last 12 months. Unlike the HRS, the CHARLS asks whether the respondent does vigorous, moderate or light physical activity for at least 10 minutes every week and the number of days they exercise, if any. CHARLS also only asks these questions to a random subsample of half the sample.

## CHARLS Variables Used:

### Wave 1:

DA051_1_	Y/N Do Vigorous Activities At Least 10 Minutes Continuously
DA051_2_	Y/N Do Moderate Physical Effort At Least 10 Minutes Continuously
DA051_3_	Y/N Walking At Least 10 Minutes Continuously
DA052_1_	Days Do Vigorous Activities At Least 10 Minutes Continuously
DA052_2_	Days Do Moderate Physical Effort At Least 10 Minutes Continuously
DA052_3_	Days Walking At Least 10 Minutes Continuously

### Wave 2:

DA051_1_	Do at Least 10 Minutes Continuously
DA051_2_	Do at Least 10 Minutes Continuously
DA051_3_	Do at Least 10 Minutes Continuously
DA052_1_	Days
DA052_2_	Days
DA052_3_	Days

### Wave 3:

DA051_1_	Do at Least 10 Minutes Continuously
DA051_2_	Do at Least 10 Minutes Continuously
DA051_3_	Do at Least 10 Minutes Continuously
DA052_1_	Days
DA052_2_	Days
DA052_3_	Days

### Wave 4:

DA051_1_	Intensive Physical Activity More than 10 Mins Each Time
DA051_2_	Moderate Physical Activity More than 10 Mins Each Time
DA051_3_	Light Physical Activity More than 10 Mins Each Time
DA052_1_	Days with Intensive Physical Activity
DA052_2_	Days with Moderate Physical Activity
DA052_3_	Days with Light Physical Activity

<b>Health behaviors: Drinking</b>
-----------------------------------

Wave	Variable	Label	Type
1	R1DRINKEV	r1drinkev:w1 r ever drinks any alcohol before	Categ
2	R2DRINKEV	r2drinkev:w2 r ever drinks any alcohol before	Categ
3	R3DRINKEV	r3drinkev:w3 r ever drinks any alcohol before	Categ
4	R4DRINKEV	r4drinkev:w4 r ever drinks any alcohol before	Categ
1	S1DRINKEV	s1drinkev:w1 s ever drinks any alcohol before	Categ
2	S2DRINKEV	s2drinkev:w2 s ever drinks any alcohol before	Categ
3	S3DRINKEV	s3drinkev:w3 s ever drinks any alcohol before	Categ
4	S4DRINKEV	s4drinkev:w4 s ever drinks any alcohol before	Categ
1	R1DRINKL	r1drinkl:w1 r ever drinks any alcohol last year	Categ
2	R2DRINKL	r2drinkl:w2 r ever drinks any alcohol last year	Categ
3	R3DRINKL	r3drinkl:w3 r ever drinks any alcohol last year	Categ
4	R4DRINKL	r4drinkl:w4 r ever drinks any alcohol last year	Categ
1	S1DRINKL	s1drinkl:w1 s ever drinks any alcohol last year	Categ
2	S2DRINKL	s2drinkl:w2 s ever drinks any alcohol last year	Categ
3	S3DRINKL	s3drinkl:w3 s ever drinks any alcohol last year	Categ
4	S4DRINKL	s4drinkl:w4 s ever drinks any alcohol last year	Categ
1	R1DRINKN_C	r1drinkn_c:w1 r frequency of drinking last year	Categ
2	R2DRINKN_C	r2drinkn_c:w2 r frequency of drinking last year	Categ
3	R3DRINKN_C	r3drinkn_c:w3 r frequency of drinking last year	Categ
4	R4DRINKN_C	r4drinkn_c:w4 r frequency of drinking last year	Categ
1	S1DRINKN_C	s1drinkn_c:w1 s frequency of drinking last year	Categ
2	S2DRINKN_C	s2drinkn_c:w2 s frequency of drinking last year	Categ
3	S3DRINKN_C	s3drinkn_c:w3 s frequency of drinking last year	Categ
4	S4DRINKN_C	s4drinkn_c:w4 s frequency of drinking last year	Categ
1	R1DRINKR_C	r1drinkr_c:w1 r range of # drinks/day	Categ
2	R2DRINKR_C	r2drinkr_c:w2 r range of # drinks/day	Categ
3	R3DRINKR_C	r3drinkr_c:w3 r range of # drinks/day	Categ
4	R4DRINKR_C	r4drinkr_c:w4 r range of # drinks/day	Categ
1	S1DRINKR_C	s1drinkr_c:w1 s range of # drinks/day	Categ
2	S2DRINKR_C	s2drinkr_c:w2 s range of # drinks/day	Categ
3	S3DRINKR_C	s3drinkr_c:w3 s range of # drinks/day	Categ
4	S4DRINKR_C	s4drinkr_c:w4 s range of # drinks/day	Categ
1	R1DRINKNR	r1drinknr:w1 r takes drink for nerve in am	Categ
2	R2DRINKNR	r2drinknr:w2 r takes drink for nerve in am	Categ
1	S1DRINKNR	s1drinknr:w1 s takes drink for nerve in am	Categ
2	S2DRINKNR	s2drinknr:w2 s takes drink for nerve in am	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRINKEV	17541	0.39	0.49	0.00	1.00
R2DRINKEV	18361	0.45	0.50	0.00	1.00
R3DRINKEV	20899	0.46	0.50	0.00	1.00
R4DRINKEV	19742	0.47	0.50	0.00	1.00
S1DRINKEV	14837	0.40	0.49	0.00	1.00
S2DRINKEV	15459	0.46	0.50	0.00	1.00
S3DRINKEV	17648	0.47	0.50	0.00	1.00
S4DRINKEV	16345	0.49	0.50	0.00	1.00
R1DRINKL	17552	0.33	0.47	0.00	1.00
R2DRINKL	18371	0.34	0.48	0.00	1.00
R3DRINKL	20913	0.35	0.48	0.00	1.00

R4DRINKL	19729	0.34	0.47	0.00	1.00
S1DRINKL	14845	0.34	0.47	0.00	1.00
S2DRINKL	15465	0.36	0.48	0.00	1.00
S3DRINKL	17660	0.37	0.48	0.00	1.00
S4DRINKL	16342	0.36	0.48	0.00	1.00
R1DRINKN_C	16354	1.23	2.49	0.00	9.00
R2DRINKN_C	18329	1.64	2.79	0.00	9.00
R3DRINKN_C	20847	1.59	2.68	0.00	9.00
R4DRINKN_C	19741	1.54	2.66	0.00	9.00
S1DRINKN_C	13781	1.29	2.53	0.00	9.00
S2DRINKN_C	15427	1.71	2.83	0.00	9.00
S3DRINKN_C	17611	1.66	2.72	0.00	9.00
S4DRINKN_C	16345	1.64	2.71	0.00	9.00
R1DRINKR_C	16354	0.44	0.85	0.00	4.00
R2DRINKR_C	18329	0.57	0.95	0.00	4.00
R3DRINKR_C	20847	0.55	0.90	0.00	4.00
R4DRINKR_C	19741	0.53	0.88	0.00	4.00
S1DRINKR_C	13781	0.46	0.86	0.00	4.00
S2DRINKR_C	15427	0.59	0.96	0.00	4.00
S3DRINKR_C	17611	0.57	0.91	0.00	4.00
S4DRINKR_C	16345	0.56	0.90	0.00	4.00
R1DRINKNR	16475	0.01	0.10	0.00	1.00
R2DRINKNR	18093	0.01	0.11	0.00	1.00
S1DRINKNR	13883	0.01	0.10	0.00	1.00
S2DRINKNR	15240	0.01	0.11	0.00	1.00

### Categorical Variable Codes

Value-----	R1DRINKEV	R2DRINKEV	R3DRINKEV	R4DRINKEV
.d:dk	12			
.m:missing	155	251	198	74
0.None	10718	10106	11223	10400
1.Yes	6823	8255	9676	9342
Value-----	S1DRINKEV	S2DRINKEV	S3DRINKEV	S4DRINKEV
.d:dk	9			
.m:missing	64	121	76	17
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.None	8877	8336	9280	8373
1.Yes	5960	7123	8368	7972
Value-----	R1DRINKL	R2DRINKL	R3DRINKL	R4DRINKL
.d:dk	10			
.m:missing	145	241	184	87
.r:refuse	1			
0.None	11785	12050	13507	13092
1.Yes	5767	6321	7406	6637
Value-----	S1DRINKL	S2DRINKL	S3DRINKL	S4DRINKL
.d:dk	8			
.m:missing	56	115	64	20
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.None	9767	9936	11143	10516
1.Yes	5078	5529	6517	5826
Value-----	R1DRINKN_C	R2DRINKN_C	R3DRINKN_C	R4DRINKN_C
.d:dk	28			

.m:missing	1324	283	250	75
.r:refuse	2			
0.None	11797	12052	13485	13104
1.Less than once a month	1381	1477	1828	1490
2.Once a month	198	291	383	346
3.2 to 3 days a month	408	660	872	885
4.Once a week	267	399	571	449
5.2 to 3 days a week	408	550	743	705
6.4 to 6 days a week	158	222	278	262
7.Daily	954	1495	1565	1529
8.Twice a day	589	850	815	712
9.More than twice a day	194	333	307	259

Value-----	S1DRINKN_C	S2DRINKN_C	S3DRINKN_C	S4DRINKN_C
.d:dk	25			
.m:missing	1102	153	113	17
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.None	9776	9938	11125	10519
1.Less than once a month	1207	1243	1573	1277
2.Once a month	167	254	339	303
3.2 to 3 days a month	362	590	781	789
4.Once a week	240	359	504	403
5.2 to 3 days a week	364	488	670	630
6.4 to 6 days a week	138	207	250	243
7.Daily	837	1314	1383	1339
8.Twice a day	525	747	723	615
9.More than twice a day	165	287	263	227

Value-----	R1DRINKR_C	R2DRINKR_C	R3DRINKR_C	R4DRINKR_C
.d:dk	28			
.m:missing	1324	283	250	75
.r:refuse	2			
0.None	11797	12052	13485	13104
1.Less than once per day	2820	3599	4675	4137
2.Once per day	954	1495	1565	1529
3.Twice per day	589	850	815	712
4.More than twice per day	194	333	307	259

Value-----	S1DRINKR_C	S2DRINKR_C	S3DRINKR_C	S4DRINKR_C
.d:dk	25			
.m:missing	1102	153	113	17
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.None	9776	9938	11125	10519
1.Less than once per day	2478	3141	4117	3645
2.Once per day	837	1314	1383	1339
3.Twice per day	525	747	723	615
4.More than twice per day	165	287	263	227

Value-----	R1DRINKNR	R2DRINKNR
.d:dk	3	
.m:missing	1230	519
0.No	16304	17881
1.Yes	171	212

Value-----	S1DRINKNR	S2DRINKNR
.d:dk	3	
.m:missing	1024	340
.u:unmar	2260	2401
.v:sp nr	538	622
0.No	13746	15068
1.Yes	137	172

**How Constructed:**



RwDRINKEV indicates whether the respondent has had any alcoholic beverages in the past. A code of 0 indicates that the respondent reports never having an alcoholic drink in the past. A code of 1 indicates that the respondent reports having had an alcoholic drink in the past.

RwDRINKL indicates whether the respondent has had an alcoholic beverage in the last 12 months. A code of 0 indicates that the respondent reports not having any alcoholic beverage in the last 12 months. A code of 1 indicates that the respondent reports having had an alcoholic beverage in the last 12 months.

Don't know, or refused values of RwDRINKEV and RwDRINKL are assigned special missing values (.d), (.r), respectively. RwDRINKEV and RwDRINKL are set to plain missing (.) for respondents who did not respond to this wave.

The frequency of drinking questions in the CHARLS are surveyed by asking the respondent about their use of three different types of alcohol separately. Those three types of alcohol are liquor, beer, wine or rice wine. For each type of alcohol, the respondent is asked how often they drank the particular alcohol during the past year.

RwDRINKN\_C is the highest frequency of drinking behavior during the last year that the respondent reports for any one of the three types of alcohol. RwDRINKN\_C is defined as 0.none, 1.less than once a month, 2.once a month, 3.2 to 3 days a month, 4.once a week, 5.2 to 3 days a week, 6.4 to 6 days a week, 7.daily, 8.twice a day and 9.more than twice a day. Don't know, or refused values of RwDRINKN\_C is assigned special missing values (.d), (.r), respectively. RwDRINKN\_C is set to plain missing (.) for respondents who did not respond to this wave.

SwDRINKEV, SwDRINKL and SwDRINKN\_C indicate whether the respondent's spouse has drunk alcoholic beverages in the past and are taken directly from the spouse's values to RwDRINKEV, RwDRINKL and RwDRINKN\_C. In addition to the special missing codes used in RwDRINKEV, RwDRINKL and RwDRINKN\_C, SwDRINKEV, SwDRINKL and SwDRINKN\_C employ two other missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwDRINKR\_C is the highest range of number of drinks per day that the respondent reports for any one of the three types of alcohol (liquor, beer, or wine). RwDRINKR\_C is defined as 0.none, 1.less than once per day, 2.once per day, 3.twice per day and 4.more than twice per day. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwDRINKR\_C indicates the respondent's spouse's highest range of the number of drinks per day reported for any of the three types of alcohol (liquor, beer, or wine), and are taken from RwDRINKR\_C. In addition to the special missing codes employed by RwDRINKR\_C, SwDRINKR\_C employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwDRINKNR indicates if the respondent has ever taken a drink first thing in the morning to steady nerves or get rid of a hangover. RwDRINKNR is coded as 1.yes and 0.no. Respondents are only asked about taking a drink to steady nerves at Waves 1 and 2. Therefore, RwDRINKNR is not available starting at Wave 3. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwDRINKNR indicates whether the respondent's spouse reports ever taking a drink first thing in the morning to steady nerves or get rid of a hangover, and its values taken directly from RwDRINKNR. In addition to the special missing codes employed by RwDRINKNR, SwDRINKNR employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Respondents are not asked about taking a drink to steady nerves first thing in the morning starting at Wave 3.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the CHARLS asks about the respondent's drinking behavior in the last year.

Unlike the HRS, the CHARLS asks about the frequency of drinks consumed, not the number of days of drinking. The frequency of drinks consumed questions were asked about three different types of alcohol separately.

The CHARLS also has a different list of alcoholic beverages for the respondent to select as types of alcoholic drinks are common in China but not in the other country. For example, white liquor and liang of liquor.

The Harmonized HRS offers variables indicating the respondent's feelings about their drinking habits. These variables indicate the following: (1) feels they should cut down on drinking, (2) others criticize your drinking, (3) feels bad about drinking, (4) takes drink for nerves first thing in the morning. The Harmonized HRS also offers a summary variable for the respondent's feelings about their drinking habits. The CHARLS only asks respondents about taking a drink for their nerves first thing in the morning, which is only asked waves 1 and 2. Therefore, the Harmonized CHARLS offers this one variable indicating the respondent's feelings about their drinking habits in waves 1 and 2. Other questions regarding the respondent's feelings about their drinking habits were not asked in CHARLS. Therefore, there is no summary variable created in the Harmonized CHARLS.

### CHARLS Variables Used:

#### Wave 1:

DA067	Did You Drink Any Alcoholic Beverages Last Year
DA068S1	Did You Drink Liqor
DA068S2	Did You Drink Beer
DA068S3	Did You Drink Wine
DA069	Did You Drink Alcoholic Beverages Ever
DA072	The Frequency for Drink Liquor
DA074	How Many Times Per Month Did You Drink Beer LY
DA076	How Often Did You Drink Wine Per Month LY
DA078	Taking A Drink First Thing In the Morning Ever LY

#### Wave 2:

DA067	Drink
DA068S1	Drink
DA068S2	Drink
DA068S3	Drink
DA069	Ever Drink Alcoholic Beverages
DA072	Drink Liquor Frequency
DA074	Beer
DA076	Wine or Rice Wine
DA078	Taking A Drink First Thing in The Morning

#### Wave 3:

DA067	Drink
DA068S1	Drink
DA068S2	Drink
DA068S3	Drink
DA069	Ever Drink Alcoholic Beverages
DA072	Drink Liquor Frequency
DA074	Beer
DA076	Wine or Rice Wine

#### Wave 4:

DA067	Frequency Drank Alcoholic Beverages in the Past Year
DA069	Whether Drank Alcoholic Beverages in the Past and Frequency
DA072	Frequency Drinking Liquor Per Month in the Last Year
DA074	Frequency Drinking Beer per Month in the Last Year
DA076	Frequency Drinking Wine per Month in the Last Year
ZDA069	The Frequency of Ever Drank Alcoholic Beverages

<b>Health behaviors: Smoking (cigarettes)</b>
---

Wave	Variable	Label	Type
1	R1SMOKEV	r1smokev:w1 r smoke ever	Categ
2	R2SMOKEV	r2smokev:w2 r smoke ever	Categ
3	R3SMOKEV	r3smokev:w3 r smoke ever	Categ
4	R4SMOKEV	r4smokev:w4 r smoke ever	Categ
1	S1SMOKEV	s1smokev:w1 s smoke ever	Categ
2	S2SMOKEV	s2smokev:w2 s smoke ever	Categ
3	S3SMOKEV	s3smokev:w3 s smoke ever	Categ
4	S4SMOKEV	s4smokev:w4 s smoke ever	Categ
1	R1SMOKEN	r1smoken:w1 r smoke now	Categ
2	R2SMOKEN	r2smoken:w2 r smoke now	Categ
3	R3SMOKEN	r3smoken:w3 r smoke now	Categ
4	R4SMOKEN	r4smoken:w4 r smoke now	Categ
1	S1SMOKEN	s1smoken:w1 s smoke now	Categ
2	S2SMOKEN	s2smoken:w2 s smoke now	Categ
3	S3SMOKEN	s3smoken:w3 s smoke now	Categ
4	S4SMOKEN	s4smoken:w4 s smoke now	Categ
1	R1SMOKEF	r1smokef:w1 r # cigarettes/day	Cont
2	R2SMOKEF	r2smokef:w2 r # cigarettes/day	Cont
3	R3SMOKEF	r3smokef:w3 r # cigarettes/day	Cont
4	R4SMOKEF	r4smokef:w4 r # cigarettes/day	Cont
1	S1SMOKEF	s1smokef:w1 s # cigarettes/day	Cont
2	S2SMOKEF	s2smokef:w2 s # cigarettes/day	Cont
3	S3SMOKEF	s3smokef:w3 s # cigarettes/day	Cont
4	S4SMOKEF	s4smokef:w4 s # cigarettes/day	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SMOKEV	17559	0.39	0.49	0.00	1.00
R2SMOKEV	18407	0.42	0.49	0.00	1.00
R3SMOKEV	20932	0.43	0.50	0.00	1.00
R4SMOKEV	19734	0.42	0.49	0.00	1.00
S1SMOKEV	14850	0.40	0.49	0.00	1.00
S2SMOKEV	15489	0.43	0.50	0.00	1.00
S3SMOKEV	17670	0.44	0.50	0.00	1.00
S4SMOKEV	16343	0.44	0.50	0.00	1.00
R1SMOKEN	16907	0.29	0.45	0.00	1.00
R2SMOKEN	14937	0.20	0.40	0.00	1.00
R3SMOKEN	20920	0.28	0.45	0.00	1.00
R4SMOKEN	19729	0.27	0.44	0.00	1.00
S1SMOKEN	14266	0.30	0.46	0.00	1.00
S2SMOKEN	12464	0.21	0.40	0.00	1.00
S3SMOKEN	17662	0.29	0.45	0.00	1.00
S4SMOKEN	16342	0.28	0.45	0.00	1.00
R1SMOKEF	15674	4.23	9.41	0.00	80.00
R2SMOKEF	14458	2.89	7.79	0.00	80.00
R3SMOKEF	20755	4.79	9.76	0.00	100.00
R4SMOKEF	18830	4.13	12.59	0.00	1200.00
S1SMOKEF	13249	4.44	9.61	0.00	80.00
S2SMOKEF	12051	3.01	7.88	0.00	80.00
S3SMOKEF	17534	5.01	9.98	0.00	100.00
S4SMOKEF	15602	4.39	13.37	0.00	1200.00

## Categorical Variable Codes

Value-----	R1SMOKEV	R2SMOKEV	R3SMOKEV	R4SMOKEV
.d:dk	4			
.m:missing	144	205	165	82
.r:refuse	1			
0.No	10628	10610	11896	11439
1.Yes	6931	7797	9036	8295

Value-----	S1SMOKEV	S2SMOKEV	S3SMOKEV	S4SMOKEV
.d:dk	3			
.m:missing	56	91	54	19
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	8837	8757	9857	9224
1.Yes	6013	6732	7813	7119

Value-----	R1SMOKEN	R2SMOKEN	R3SMOKEN	R4SMOKEN
.m:missing	801	3675	177	87
0.No	12036	11969	15056	14463
1.Yes	4871	2968	5864	5266

Value-----	S1SMOKEN	S2SMOKEN	S3SMOKEN	S4SMOKEN
.m:missing	644	3116	62	20
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	10045	9901	12580	11792
1.Yes	4221	2563	5082	4550

### How Constructed:

RwSMOKEV indicates whether the respondent reports ever smoking. Smoking includes chewing tobacco, smoking a pipe, self-rolled cigarettes, cigarettes and cigars. A code of 0 indicates that the respondent reports never having smoked. A code of 1 indicates that the respondent reports smoking at some point.

RwSMOKEN indicates the respondent's current smoking habit. This question is only asked if the respondent reports ever smoking. If the respondent reported never smoking RwSMOKEN is assigned a value of 0. A code of 0 indicates that the respondent reports they quit smoking. A code of 1 indicates that the respondent reports they are still smoking. Don't know, missing, or refused values of RwSMOKEV and RwSMOKEN are assigned special missing codes (.d), (.m), (.r), respectively. RwSMOKEV and RwSMOKEN are set to plain missing (.) for respondents who did not respond to this wave.

SwSMOKEV and SwSMOKEN indicate whether the respondent's spouse reports ever or currently smoking and is taken directly from the spouse's responses to RwSMOKEV and RwSMOKEN. In addition to the special missing codes used in RwSMOKEV and RwSMOKEN, SwSMOKEV and SwSMOKEN employ two other missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSMOKEF indicates how many cigarettes the respondent smokes on average per day. At Waves 1, 3 and 4, all respondents who report ever having smoked are asked what products they did/do normally smoke and given the options of smoking a pipe, smoking self-rolled cigarettes, filtered cigarettes, unfiltered cigarettes, cigars, and water cigarettes. Respondents are then asked whether they still smoke or they have quit. All respondents who report normally using filtered cigarettes or unfiltered cigarettes and report still smoking are asked in one day about how many cigarettes they consume. At Wave 2, there is no question about what products respondents normally smoke and all respondents who report currently smoking are in one day about how many cigarettes do you now consume. If the respondent reports they do not currently smoke, RwSMOKEF is assigned a value of 0. If the Wave 1, 3, and 4 respondents report they currently smoke but said they normally smoke a product different from filtered cigarettes or unfiltered cigarettes, RwSMOKEF is assigned special missing value .o. When respondents don't know, are missing, or refuse to answer, RwSMOKEF is assigned special missing values (.d), (.m), or (.r), respectively. RwSMOKEF is set to plain missing (.) for respondents who did not respond to the current wave.

SwSMOKEF records how many cigarettes the respondent's spouse smokes/smoked on average per day and is taken directly from RwsMOKEF. In addition to the special missing codes used in RwsMOKEF, SwSMOKEF employs the special missing value (.u) if the respondent does not report being coupled in the current wave, and the special missing value (.v) if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1, 3, and 4, CHARLS only asked respondents who reported normally smoking filtered cigarettes or unfiltered cigarettes were asked how many cigarettes they smoked daily. Consequently, respondents who reported normally smoking a pipe, smoking self-rolled cigarettes, cigars, or water cigarettes were not asked how many cigarettes they smoke daily. At Wave 2, CHARLS does not ask what products respondents normally smoke and respondents who report they currently smoke are asked the number of cigarettes they smoke daily.

At Wave 2 there are a large number of respondents who previously reported they smoked who were not then asked if they still have the habit or how many cigarettes they smoke daily. As it is not possible to determine whether the respondent is currently smoking or frequency, these cases are coded as (.m) missing in RwsSMOKEN and RwsSMOKEF.

Starting in wave 2, re-interview respondents who previously reported never smoking were re-asked whether they have ever smoked and if they answered yes, they are asked if they still have the habit. Re-interview respondents who previously reported having had smoked were asked only if they still have the habit.

## Differences with the RAND HRS/Harmonized HRS

In HRS, whether the respondent has ever smoked or not is determined by the following question "Have you ever smoked cigarettes?" However, in CHARLS, whether the respondent has ever smoked or not is determined by the following question "Have you ever chewed tobacco, smoked a pipe, smoked self-rolled cigarettes, or smoked cigarettes/cigars?"

## CHARLS Variables Used:

### Wave 1:

DA059	Smoke or Not
DA060	Product Type for Smoking
DA061	Still Smoking or Not
DA063	The Number of Cigarettes You Consume

### Wave 2:

DA059	Smoke
DA061	Still Smoke or Quit
DA063	The Number of Cigarettes You Consume
XRTYPE	R Interview Type
ZDA059	Smoke

### Wave 3:

DA059	Smoke
DA060S1	Cigarettes Type
DA060S2	Cigarettes Type
DA060S3	Cigarettes Type
DA060S4	Cigarettes Type
DA060S5	Cigarettes Type
DA060S6	Cigarettes Type
DA061	Still Smoke or Quit
DA063	The Number of Cigarettes You Consume
XRTYPE	R Interview Type
ZDA059	Smoke

### Wave 4:

DA059	Ever Smoked
DA060	Products Normally Use
DA061	Still Smoke or already Quit
DA061_W4	Still Smoke or already Quit
DA063	Cigarettes in One Day
ZSMOKE	Ever Smoked at ZIWTime

## **Section C: Health Care Utilization and Insurance**

<b>Medical Care Utilization: Inpatient/Hospital Stay</b>
--

Wave	Variable	Label	Type
1	R1HOSP1Y	r1hosply:w1 r hospital stay last year	Categ
2	R2HOSP1Y	r2hosply:w2 r hospital stay last year	Categ
3	R3HOSP1Y	r3hosply:w3 r hospital stay last year	Categ
4	R4HOSP1Y	r4hosply:w4 r hospital stay last year	Categ
1	S1HOSP1Y	s1hosply:w1 s hospital stay last year	Categ
2	S2HOSP1Y	s2hosply:w2 s hospital stay last year	Categ
3	S3HOSP1Y	s3hosply:w3 s hospital stay last year	Categ
4	S4HOSP1Y	s4hosply:w4 s hospital stay last year	Categ
1	R1HSPTIM1Y	r1hsptimly:w1 r # hosp stays last year	Cont
2	R2HSPTIM1Y	r2hsptimly:w2 r # hosp stays last year	Cont
3	R3HSPTIM1Y	r3hsptimly:w3 r # hosp stays last year	Cont
4	R4HSPTIM1Y	r4hsptimly:w4 r # hosp stays last year	Cont
1	S1HSPTIM1Y	s1hsptimly:w1 s # hosp stays last year	Cont
2	S2HSPTIM1Y	s2hsptimly:w2 s # hosp stays last year	Cont
3	S3HSPTIM1Y	s3hsptimly:w3 s # hosp stays last year	Cont
4	S4HSPTIM1Y	s4hsptimly:w4 s # hosp stays last year	Cont
1	R1HSPNITE	r1hspnite:w1 r # hosp nights last episode	Cont
2	R2HSPNITE	r2hspnite:w2 r # hosp nights last episode	Cont
3	R3HSPNITE	r3hspnite:w3 r # hosp nights last episode	Cont
4	R4HSPNITE	r4hspnite:w4 r # hosp nights last episode	Cont
1	S1HSPNITE	s1hspnite:w1 s # hosp nights last episode	Cont
2	S2HSPNITE	s2hspnite:w2 s # hosp nights last episode	Cont
3	S3HSPNITE	s3hspnite:w3 s # hosp nights last episode	Cont
4	S4HSPNITE	s4hspnite:w4 s # hosp nights last episode	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HOSP1Y	17510	0.09	0.29	0.00	1.00
R2HOSP1Y	18385	0.14	0.34	0.00	1.00
R3HOSP1Y	20879	0.14	0.35	0.00	1.00
R4HOSP1Y	19764	0.17	0.37	0.00	1.00
S1HOSP1Y	14825	0.09	0.29	0.00	1.00
S2HOSP1Y	15484	0.13	0.34	0.00	1.00
S3HOSP1Y	17647	0.13	0.34	0.00	1.00
S4HOSP1Y	16351	0.16	0.37	0.00	1.00
R1HSPTIM1Y	17506	0.13	0.57	0.00	20.00
R2HSPTIM1Y	18368	0.21	0.70	0.00	18.00
R3HSPTIM1Y	20867	0.21	0.65	0.00	16.00
R4HSPTIM1Y	19764	0.28	1.36	0.00	150.00
S1HSPTIM1Y	14823	0.13	0.53	0.00	16.00
S2HSPTIM1Y	15470	0.20	0.69	0.00	18.00
S3HSPTIM1Y	17642	0.20	0.64	0.00	16.00
S4HSPTIM1Y	16351	0.26	1.42	0.00	150.00
R1HSPNITE	17464	1.10	4.68	0.00	120.00
R2HSPNITE	18279	1.67	7.15	0.00	365.00
R3HSPNITE	20787	1.69	8.31	0.00	365.00
R4HSPNITE	19761	2.09	9.15	0.00	365.00
S1HSPNITE	14791	1.08	4.59	0.00	120.00
S2HSPNITE	15396	1.61	6.90	0.00	365.00
S3HSPNITE	17574	1.56	7.71	0.00	365.00
S4HSPNITE	16348	1.94	8.56	0.00	365.00

## Categorical Variable Codes

Value-----	R1HOSPLY	R2HOSPLY	R3HOSPLY	R4HOSPLY
.d:dk	19			
.m:missing	177	227	218	52
.r:refuse	2			
0.no	15856	15869	17980	16437
1.yes	1654	2516	2899	3327

  

Value-----	S1HOSPLY	S2HOSPLY	S3HOSPLY	S4HOSPLY
.d:dk	18			
.m:missing	67	96	77	11
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	13438	13437	15325	13746
1.yes	1387	2047	2322	2605

### How Constructed:

RwHOSPLY indicates whether the respondent reports receiving any inpatient care in the past year. Respondents who report not receiving any inpatient care are coded as 0. Respondents who have received inpatient care in the past year are coded as 1. Don't know, refused, or other missing responses of RwHOSPLY are assigned to special missing codes (.d), (.r), (.m) respectively. RwHOSPLY is set to plain missing (.) for respondents who did not respond to the current wave.

RwHSPTIMLY indicates the number of times that the respondent has received inpatient care in the past year. Don't know, refused, or other missing responses of RwHSPTIMLY are assigned to special missing codes (.d), (.r), (.m) respectively. RwHSPTIMLY is set to plain missing (.) for respondents who did not respond to the current wave.

RwHSPNITE indicates the number of nights that the respondent was hospitalized during the most recent hospital stay (last episode) in the past year. Don't know, refused, or other missing responses of RwHSPNITE are assigned to special missing codes (.d), (.r), (.m) respectively. RwHSPNITE is set to plain missing (.) for respondents who did not respond to the current wave.

SwHOSPLY, SwHSPTIMLY, and SwHSPNITE are the current wave respondent's spouse's information related to the hospital stay in the past year. SwHOSPLY, SwHSPTIMLY, and SwHSPNITE employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

No difference known.

### Differences with the RAND HRS/Harmonized HRS

Unlike the HRS that asks the respondents about their hospital utilization in the previous two years, the CHARLS asks the respondents about their last year hospital utilization.

The CHARLS only asks the numbers of nights stayed for the most recent hospitalization (last episode) in the last year; not the total numbers of nights stayed in the last year.

### CHARLS Variables Used:

#### Wave 1:

EE003	Have You Received Inpatient Care LY
EE004	How Many Times Have You Received Inpatient Care LY
EE016	Nights of Hospitalized There
EF006	Respondent Receive Assistance In Answering Section D

#### Wave 2:

EE003	Whether Received Inpatient Care
EE004	Times of Inpatient Care
EE016	Time of Hospitalized There
EF006	How Often Did The Respondent Receive Assistance



## Wave 3:

EE003	Have You Received Inpatient Care in the Past Year?
EE004	How Many Times Have You Received Inpatient Care in the Past Yea
EE016	Nights Spent in Hospital at Last Inpatient Visit

## Wave 4:

EE003	Received Inpatient Care
EE004	Times have Received Inpatient Care
EE016	Nights were you Hospitalized

**Medical Care Utilization: Outpatient/ doctor visit**

Wave	Variable	Label	Type
1	R1DOCTOR1M	r1doctor1m:w1 r doctor visit/outpatient last month	Categ
2	R2DOCTOR1M	r2doctor1m:w2 r doctor visit/outpatient last month	Categ
3	R3DOCTOR1M	r3doctor1m:w3 r doctor visit/outpatient last month	Categ
4	R4DOCTOR1M	r4doctor1m:w4 r doctor visit/outpatient last month	Categ
1	S1DOCTOR1M	s1doctor1m:w1 S doctor visit/outpatient last month	Categ
2	S2DOCTOR1M	s2doctor1m:w2 s doctor visit/outpatient last month	Categ
3	S3DOCTOR1M	s3doctor1m:w3 s doctor visit/outpatient last month	Categ
4	S4DOCTOR1M	s4doctor1m:w4 s doctor visit/outpatient last month	Categ
1	R1DOCTIM1M	r1doctim1m:w1 r # doctor visit/outpatient last month	Cont
2	R2DOCTIM1M	r2doctim1m:w2 r # doctor visit/outpatient last month	Cont
3	R3DOCTIM1M	r3doctim1m:w3 r # doctor visit/outpatient last month	Cont
4	R4DOCTIM1M	r4doctim1m:w4 r # doctor visit/outpatient last month	Cont
1	S1DOCTIM1M	s1doctim1m:w1 S # doctor visit/outpatient last month	Cont
2	S2DOCTIM1M	s2doctim1m:w2 s # doctor visit/outpatient last month	Cont
3	S3DOCTIM1M	s3doctim1m:w3 s # doctor visit/outpatient last month	Cont
4	S4DOCTIM1M	s4doctim1m:w4 s # doctor visit/outpatient last month	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DOCTOR1M	17422	0.18	0.39	0.00	1.00
R2DOCTOR1M	18330	0.21	0.40	0.00	1.00
R3DOCTOR1M	20874	0.18	0.39	0.00	1.00
R4DOCTOR1M	19764	0.16	0.37	0.00	1.00
S1DOCTOR1M	14746	0.18	0.39	0.00	1.00
S2DOCTOR1M	15432	0.20	0.40	0.00	1.00
S3DOCTOR1M	17643	0.18	0.38	0.00	1.00
S4DOCTOR1M	16351	0.16	0.37	0.00	1.00
R1DOCTIM1M	17330	0.40	1.37	0.00	30.00
R2DOCTIM1M	18223	0.48	1.53	0.00	30.00
R3DOCTIM1M	20769	0.40	1.33	0.00	30.00
R4DOCTIM1M	19524	0.35	1.36	0.00	32.00
S1DOCTIM1M	14675	0.40	1.36	0.00	30.00
S2DOCTIM1M	15353	0.46	1.51	0.00	30.00
S3DOCTIM1M	17564	0.39	1.32	0.00	30.00
S4DOCTIM1M	16152	0.33	1.31	0.00	32.00

**Categorical Variable Codes**

Value	R1DOCTOR1M	R2DOCTOR1M	R3DOCTOR1M	R4DOCTOR1M
.d:dk	83			
.m:missing	199	282	223	52
.r:refuse	4			
0.no	14215	14547	17020	16509
1.yes	3207	3783	3854	3255

  

Value	S1DOCTOR1M	S2DOCTOR1M	S3DOCTOR1M	S4DOCTOR1M
.d:dk	75			
.m:missing	87	148	81	11
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	12059	12329	14452	13703
1.yes	2687	3103	3191	2648

## How Constructed:

RwDOCTOR1M indicates whether the respondent reports they have, in the past month, visited a public hospital, private hospital, public health center, clinic, or health worker's or doctor's practice, or been visited by a health worker or doctor for outpatient care. This excludes hospitalization and Chinese medicine hospitals. A code 0 indicates the respondent did not have a doctor visit at a facility nor was visited by a health worker or a doctor at home in the last month. A code of 1 indicates the respondent had a doctor visit at a facility or was visited by a health worker or a doctor at home in the last month.

RwDOCTIM1M indicates the number of visits to any of the below medical facilities that the respondents had during last month for outpatient treatment.

At Waves 1 to 3, the type of medical facilities included, excluding Chinese medicine hospital, are:

1. General hospital
2. Specialized hospital
3. Community healthcare center
4. Township hospital
5. Health care post
6. Village clinic/private clinic
7. Other

Starting at Wave 4, the type of medical facilities included, excluding Chinese medicine hospital, are:

1. General hospital
2. Specialized hospital
3. Community healthcare center
4. Township hospital
5. Health care post
6. Village clinic/private clinic
7. Nursing home
8. Other

Don't know, refused, or other missing responses of RwDOCTOR1M and RwDOCTIM1M are assigned to special missing codes (.d), (.r), (.m) respectively. RwDOCTOR1M and RwDOCTIM1M are set to plain missing (.) for respondents who did not respond to the current wave.

SwDOCTOR1M and SwDOCTIM1M are the current wave respondent's spouse's information about the doctor visit in the last month. SwDOCTOR1M and SwDOCTIM1M employ two other missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 4, respondents are asked about visiting a nursing home in the last four weeks for outpatient treatment.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS that asks respondents about the details of doctor visits in the previous two years, the CHARLS only asks the respondents about their last month doctor visit.

**CHARLS Variables Used:**

## Wave 1:

ED001	Visited Hospital Last Month
ED004S3	Have Visited Chinese Medical Hospital
ED005_1_	How Many Times did You Visit the Medical Facility
ED005_2_	How Many Times did You Visit the Medical Facility
ED005_3_	How Many Times did You Visit the Medical Facility
ED005_4_	How Many Times did You Visit the Medical Facility
ED005_5_	How Many Times did You Visit the Medical Facility
ED005_6_	How Many Times did You Visit the Medical Facility
ED005_7_	How Many Times did You Visit the Medical Facility

## Wave 2:

ED001	Visited Hospital Last Month
ED004S3	Type of Medical Facility Have Visited? 3 Chinese Medicine Hospi
ED005_1_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_2_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_3_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_4_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_5_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_6_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_7_	Times Visit / Been Visited by Hospital Corresponding to The ED0

## Wave 3:

ED001	Did You Visit a Hospital in The Last Month?
ED004S3	Visited Facility in Past 4 Weeks for Outpatient: Chinese Medici
ED005_1_	Times Visited Facility in Past 4 Weeks for Outpatient: General
ED005_2_	Times Visited Facility in Past 4 Weeks for Outpatient: Speciali
ED005_3_	Times Visited Facility in Past 4 Weeks for Outpatient: Chinese
ED005_4_	Times Visited Facility in Past 4 Weeks for Outpatient: Communit
ED005_5_	Times Visited Facility in Past 4 Weeks for Outpatient: Township
ED005_6_	Times Visited Facility in Past 4 Weeks for Outpatient: Health C
ED005_7_	Times Visited Facility in Past 4 Weeks for Outpatient: Village/

## Wave 4:

ED001	Accept Outpatient Care
ED004_W4_S3	Chinese Medicine Hospital
ED005_1_	Times Outp GH
ED005_2_	Times Outp SH
ED005_3_	Times Outp CMH
ED005_4_	Times Outp Comm
ED005_5_	Times Outp Towship
ED005_6_	Times Outp HCP
ED005_7_	Times Outp VC
ED005_8_	Times Outp Ins

**Medical Care Utilization: Dental visit**

Wave	Variable	Label	Type
2	R2DENTST1Y	r2dentstly:w2 r dental care last year	Categ
3	R3DENTST1Y	r3dentstly:w3 r dental care last year	Categ
2	S2DENTST1Y	s2dentstly:w2 s dental care last year	Categ
3	S3DENTST1Y	s3dentstly:w3 s dental care last year	Categ
2	R2DENTIM1Y	r2dentimly:w2 r # dental visit last year	Cont
3	R3DENTIM1Y	r3dentimly:w3 r # dental visit last year	Cont
2	S2DENTIM1Y	s2dentimly:w2 s # dental visit last year	Cont
3	S3DENTIM1Y	s3dentimly:w3 s # dental visit last year	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R2DENTST1Y	18358	0.17	0.38	0.00	1.00
R3DENTST1Y	20871	0.18	0.38	0.00	1.00
S2DENTST1Y	15463	0.17	0.38	0.00	1.00
S3DENTST1Y	17644	0.18	0.38	0.00	1.00
R2DENTIM1Y	18279	0.44	1.74	0.00	100.00
R3DENTIM1Y	20793	0.44	1.57	0.00	50.00
S2DENTIM1Y	15402	0.43	1.72	0.00	100.00
S3DENTIM1Y	17581	0.45	1.58	0.00	50.00

**Categorical Variable Codes**

Value-----	R2DENTST1Y	R3DENTST1Y
.m:missing	254	226
0.no	15231	17217
1.yes	3127	3654

  

Value-----	S2DENTST1Y	S3DENTST1Y
.m:missing	117	80
.u:unmar	2401	2719
.v:sp nr	622	650
0.no	12799	14499
1.yes	2664	3145

**How Constructed:**

RwDENTST1Y indicates whether the respondent has seen a dentist for dental care, including dentures, in the past year. A code 0 indicates the respondent did not receive dental care in the past year. A code 1 indicates the respondent had seen a dentist for dental care, including dentures. RwDENTIM1Y indicates the number of dental visits in the past year. Don't know, refused, or other missing responses of RwDENTST1Y and RwDENTIM1Y are assigned to special missing codes (.d), (.r), (.m) respectively. RwDENTST1Y and RwDENTIM1Y are set to plain missing (.) for respondents who did not respond to the current wave.

SwDENTST1Y and SwDENTIM1Y provide the information for the respondent's spouse or partner. SwDENTST1Y and SwDENTIM1Y employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

Questions related to dental care and dentist visits are asked at Waves 2 and 3.

**Differences with the RAND HRS/Harmonized HRS**

Unlike the HRS that asks respondents about the details of their dental visit in the previous two years, the CHARLS only asks the respondents about their last year dental visit.

**CHARLS Variables Used:**

Wave 2:

EF006	How Often Did The Respondent Receive Assistance
EH001	Have Dentist for Dental Care
EH002	Times of Dental Care

Wave 3:

EH001	Did You See a Dentist in the Past Year?
EH002	How Many Times Did You See a Dentist in The Past Year?

**Medical Care Utilization: Traditional medicine facility visit**

Wave	Variable	Label	Type
1	R1TRDMED1M	r1trdmed1m:w1 r Chinese medicine hospital visit last month	Categ
2	R2TRDMED1M	r2trdmed1m:w2 r Chinese medicine hospital visit last month	Categ
3	R3TRDMED1M	r3trdmed1m:w3 r Chinese medicine hospital visit last month	Categ
4	R4TRDMED1M	r4trdmed1m:w4 r Chinese medicine hospital visit last month	Categ
1	S1TRDMED1M	s1trdmed1m:w1 s Chinese medicine hospital visit last month	Categ
2	S2TRDMED1M	s2trdmed1m:w2 s Chinese medicine hospital visit last month	Categ
3	S3TRDMED1M	s3trdmed1m:w3 s Chinese medicine hospital visit last month	Categ
4	S4TRDMED1M	s4trdmed1m:w4 s Chinese medicine hospital visit last month	Categ
1	R1TRDMDTIM1M	r1trdmdtim1m:w1 r # Chinese medicine hospital visits last mo	Cont
2	R2TRDMDTIM1M	r2trdmdtim1m:w2 r # Chinese medicine hospital visits last mo	Cont
3	R3TRDMDTIM1M	r3trdmdtim1m:w3 r # Chinese medicine hospital visits last mo	Cont
4	R4TRDMDTIM1M	r4trdmdtim1m:w4 r # Chinese medicine hospital visits last mo	Cont
1	S1TRDMDTIM1M	s1trdmdtim1m:w1 s # Chinese medicine hospital visits last mo	Cont
2	S2TRDMDTIM1M	s2trdmdtim1m:w2 s # Chinese medicine hospital visits last mo	Cont
3	S3TRDMDTIM1M	s3trdmdtim1m:w3 s # Chinese medicine hospital visits last mo	Cont
4	S4TRDMDTIM1M	s4trdmdtim1m:w4 s # Chinese medicine hospital visits last mo	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1TRDMED1M	17409	0.01	0.11	0.00	1.00
R2TRDMED1M	18330	0.02	0.12	0.00	1.00
R3TRDMED1M	20874	0.01	0.12	0.00	1.00
R4TRDMED1M	19764	0.01	0.11	0.00	1.00
S1TRDMED1M	14735	0.01	0.11	0.00	1.00
S2TRDMED1M	15432	0.01	0.12	0.00	1.00
S3TRDMED1M	17643	0.01	0.12	0.00	1.00
S4TRDMED1M	16351	0.01	0.11	0.00	1.00
R1TRDMDTIM1M	17408	0.02	0.24	0.00	13.00
R2TRDMDTIM1M	18330	0.03	0.49	0.00	30.00
R3TRDMDTIM1M	20874	0.03	0.35	0.00	20.00
R4TRDMDTIM1M	19764	0.02	0.27	0.00	20.00
S1TRDMDTIM1M	14734	0.02	0.22	0.00	10.00
S2TRDMDTIM1M	15432	0.03	0.44	0.00	30.00
S3TRDMDTIM1M	17643	0.03	0.36	0.00	20.00
S4TRDMDTIM1M	16351	0.02	0.27	0.00	20.00

**Categorical Variable Codes**

Value	R1TRDMED1M	R2TRDMED1M	R3TRDMED1M	R4TRDMED1M
.d:dk	96			
.m:missing	199	282	223	52
.r:refuse	4			
0.no	17213	18050	20577	19526
1.yes	196	280	297	238

  

Value	S1TRDMED1M	S2TRDMED1M	S3TRDMED1M	S4TRDMED1M
.d:dk	86			
.m:missing	87	148	81	11
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	14570	15204	17392	16148
1.yes	165	228	251	203

**How Constructed:**

RwTRDMED1M indicates whether the respondent has ever visited a traditional Chinese medicine hospital in the last month. Respondents who report no visits to a Chinese medicine hospital or no visit to any other doctor are coded as 0. Respondents who have visited a Chinese medicine hospital at least once are coded as 1. Respondents who did not respond that they visited a Chinese medicine hospital but gave a number of times they have visited a Chinese medicine hospital are also coded as 1. RwTRDMDTIM1M is a count of the number of times the respondent visited a traditional Chinese medicine hospital in the last month. Don't know, refused, or missing responses to Chinese medicine hospital visits are assigned special missing values (.d), (.r), (.m), respectively for both RwTRDMED1M and RwTRDMDTIM1M. RwTRDMED1M and RwTRDMDTIM1M are set to plain missing (.) for respondents who did not respond to the current wave.

SwTRDMED1M and SwTRDMDTIM1M give this information for the respondent's spouse or partner and are taken directly from the respondent's spouse's values to RwTRDMED1M and RwTRDMDTIM1M. SwTRDMED1M and SwTRDMDTIM1M employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

Visits to a traditional Chinese medicine hospital are not surveyed in the HRS so there is no corresponding variable in the RAND HRS.

**CHARLS Variables Used:****Wave 1:**

ED001	Visited Hospital Last Month
ED004S3	Have Visited Chinese Medical Hospital
ED005_3_	How Many Times did You Visit the Medical Facility
ED006	How Much did You Pay for Visit the Medical Facility

**Wave 2:**

ED001	Visited Hospital Last Month
ED004S3	Type of Medical Facility Have Visited? 3 Chinese Medicine Hospi
ED005_3_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED006	How Much Did All The Visits to Cost

**Wave 3:**

ED001	Did You Visit a Hospital in The Last Month?
ED004S3	Visited Facility in Past 4 Weeks for Outpatient: Chinese Medici
ED005_3_	Times Visited Facility in Past 4 Weeks for Outpatient: Chinese

**Wave 4:**

ED001	Accept Outpatient Care
ED004_W4_S3	Chinese Medicine Hospital
ED005_3_	Times Outp CMH



**Medical Expenditure: hospitalization in the past year**

Wave	Variable	Label	Type
1	R1OOPHOS1Y	r1oophosly:w1 r hospitalization out-of-pocket expenditure	la Cont
2	R2OOPHOS1Y	r2oophosly:w2 r hospitalization out-of-pocket expenditure	la Cont
3	R3OOPHOS1Y	r3oophosly:w3 r hospitalization out-of-pocket expenditure	la Cont
4	R4OOPHOS1Y	r4oophosly:w4 r hospitalization out-of-pocket expenditure	la Cont
1	S1OOPHOS1Y	s1oophosly:w1 S hospitalization out-of-pocket expenditure	la Cont
2	S2OOPHOS1Y	s2oophosly:w2 s hospitalization out-of-pocket expenditure	la Cont
3	S3OOPHOS1Y	s3oophosly:w3 s hospitalization out-of-pocket expenditure	la Cont
4	S4OOPHOS1Y	s4oophosly:w4 s hospitalization out-of-pocket expenditure	la Cont
1	R1TOTHOS1Y	r1tothosly:w1 r hospitalization total expenditure last year	Cont
2	R2TOTHOS1Y	r2tothosly:w2 r hospitalization total expenditure last year	Cont
3	R3TOTHOS1Y	r3tothosly:w3 r hospitalization total expenditure last year	Cont
4	R4TOTHOS1Y	r4tothosly:w4 r hospitalization total expenditure last year	Cont
1	S1TOTHOS1Y	s1tothosly:w1 S hospitalization total expenditure last year	Cont
2	S2TOTHOS1Y	s2tothosly:w2 s hospitalization total expenditure last year	Cont
3	S3TOTHOS1Y	s3tothosly:w3 s hospitalization total expenditure last year	Cont
4	S4TOTHOS1Y	s4tothosly:w4 s hospitalization total expenditure last year	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OOPHOS1Y	17381	474.42	3740.00	0.00	200000.00
R2OOPHOS1Y	18214	827.04	5187.75	0.00	220000.00
R3OOPHOS1Y	20613	993.33	6472.34	0.00	340000.00
R4OOPHOS1Y	19503	1399.71	10652.60	0.00	1000000.00
S1OOPHOS1Y	14726	485.62	3900.52	0.00	200000.00
S2OOPHOS1Y	15364	842.19	5379.66	0.00	220000.00
S3OOPHOS1Y	17468	998.97	6673.19	0.00	340000.00
S4OOPHOS1Y	16181	1320.64	8040.66	0.00	250000.00
R1TOTHOS1Y	17388	782.70	5102.50	0.00	160000.00
R2TOTHOS1Y	18121	1488.82	8991.56	0.00	500000.00
R3TOTHOS1Y	20611	1744.90	10547.06	0.00	530000.00
R4TOTHOS1Y	19545	2686.22	17480.38	0.00	1400000.00
S1TOTHOS1Y	14730	790.08	5141.41	0.00	160000.00
S2TOTHOS1Y	15282	1503.15	9403.65	0.00	500000.00
S3TOTHOS1Y	17455	1743.91	10851.59	0.00	530000.00
S4TOTHOS1Y	16199	2537.43	14604.29	0.00	700000.00

**How Constructed:**

RwOOPHOS1Y is the value of out-of-pocket hospitalization expenditure for the respondent in the past year. RwOOPHOS1Y includes the fees paid to the hospital but excludes the wages paid to a hired nurse, transportation costs, and accommodation costs for respondent and family members. RWTOTHOS1Y is the value of total hospitalization expenditure for the respondent in the past year, including the amount that insurance company paid. This variable has the same component as RwOOPHOS1Y that includes the fees paid to the hospital but excludes the wages paid to a hired nurse, transportation costs, and accommodation costs for respondent and family members.

All respondents are asked to report how many times they have received inpatient care during the past year. If the respondent only received one inpatient care in the past year then the respondent was asked how much the total medical cost of the hospitalization for the visit and the value of out-of-pocket among the total cost of hospitalization. If the respondent received two or more times inpatient care in the past year then the respondent was asked how much the total medical cost of the hospitalization was for all the visits and the value of out-of-pocket costs among the total cost of hospitalization. We noted some respondents report the value for both but we only take the maximum value of the two.

Don't know, refused, or other missing responses of RWOOPHOS1Y and RWTOTHOS1Y are assigned to special missing codes (.d), (.r), (.m) respectively. RWTOTHOS1Y is set to plain missing (.) for respondents who did not respond to the current wave.

SWOOPHOS1Y and SWTOTHOS1Y is the current wave respondent's spouse's information about the hospital expenditure in the past year. SWOOPHOS1Y and SWTOTHOS1Y employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

No difference known.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS that asks the respondents about their hospitalization expenditure in last two years, the CHARLS only asks the respondents about their last year hospitalization expenditure. Moreover, the RAND HRS only provides a summary of out-of-pocket expenditure and a summary total medical expenditure, component values for hospitalization and doctor visits are not included.

## CHARLS Variables Used:

### Wave 1:

EE003	Have You Received Inpatient Care LY
EE004	How Many Times Have You Received Inpatient Care LY
EE005	Cost/No Cost of the Hospitalizations
EE005_1	The Amount of Total Cost of the Hospitalizations
EE006	Y/N Have Self Payment of Cost of the Hospitalizations
EE006_1	The Amount of Self Payment of Total Cost of the Hospitalization
EE016	Nights of Hospitalized There
EE027	Total Pay Out of Pocket for Cost of Hospitalization/No Cost
EE027_1	The Amount of Total Pay Out of Pocket for Cost of Hospitalizati
EF006	Respondent Receive Assistance In Answering Section D

### Wave 2:

EE003	Whether Received Inpatient Care
EE004	Times of Inpatient Care
EE005	Total Cost
EE005_1	Total Cost
EE006	Total Cost
EE006_1	Self-Paid Part
EE016	Time of Hospitalized There
EE024_1	The Amount of Total Medical Cost for Hospitalization
EE027	Total Pay Out of Pocket for Cost of Hospitalization/No Cost
EE027_1	The Amount of Total Pay Out of Pocket for Cost of Hospitalizati
EF006	How Often Did The Respondent Receive Assistance

### Wave 3:

EE003	Have You Received Inpatient Care in the Past Year?
EE004	How Many Times Have You Received Inpatient Care in the Past Yea
EE005	Was There a Cost Incurred for Inpatient Care in the Past Year?
EE005_1	Total Cost of All Inpatient Care in the Past Year
EE006	Was There a Self-Paid Part for Inpatient Care in the Past Year?
EE006_1	Self-Paid Part of the Inpatient Care in the Past Year
EE016	Nights Spent in Hospital at Last Inpatient Visit
EE024_1	Total Cost at the Last Inpatient Visit
EE027	Have You Paid/Will You Pay an Out-Of-Pocket Cost for the Last I
EE027_1	Total Out-Of-Pocket Cost for the Last Inpatient Visit
EF006	Frequency of Assistance While Answering the Health Care and Ins

### Wave 4:

EE003	Received Inpatient Care
EE004	Times have Received Inpatient Care
EE005_W4_1	Total Cost
EE006_1	Self-paid Part
EE024_W4_1	Total Cost
EE027_1	Self-paid Part
EF006	Receive Assistance in Answering

**Medical Expenditure: doctor visit in the last month**

Wave	Variable	Label	Type
1	R1OOPDOC1M	r1oopdoc1m:w1 r doctor visit out-of-pocket expenditure last	Cont
2	R2OOPDOC1M	r2oopdoc1m:w2 r doctor visit out-of-pocket expenditure last	Cont
3	R3OOPDOC1M	r3oopdoc1m:w3 r doctor visit out-of-pocket expenditure last	Cont
4	R4OOPDOC1M	r4oopdoc1m:w4 r doctor visit out-of-pocket expenditure last	Cont
1	S1OOPDOC1M	s1oopdoc1m:w1 S doctor visit out-of-pocket expenditure last	Cont
2	S2OOPDOC1M	s2oopdoc1m:w2 s doctor visit out-of-pocket expenditure last	Cont
3	S3OOPDOC1M	s3oopdoc1m:w3 s doctor visit out-of-pocket expenditure last	Cont
4	S4OOPDOC1M	s4oopdoc1m:w4 s doctor visit out-of-pocket expenditure last	Cont
1	R1TOTDOC1M	r1totdoc1m:w1 r doctor visit total expenditure last month	Cont
2	R2TOTDOC1M	r2totdoc1m:w2 r doctor visit total expenditure last month	Cont
3	R3TOTDOC1M	r3totdoc1m:w3 r doctor visit total expenditure last month	Cont
4	R4TOTDOC1M	r4totdoc1m:w4 r doctor visit total expenditure last month	Cont
1	S1TOTDOC1M	s1totdoc1m:w1 S doctor visit total expenditure last month	Cont
2	S2TOTDOC1M	s2totdoc1m:w2 s doctor visit total expenditure last month	Cont
3	S3TOTDOC1M	s3totdoc1m:w3 s doctor visit total expenditure last month	Cont
4	S4TOTDOC1M	s4totdoc1m:w4 s doctor visit total expenditure last month	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OOPDOC1M	17117	119.01	1574.59	0.00	170000.00
R2OOPDOC1M	17940	183.17	2095.74	0.00	160000.00
R3OOPDOC1M	20517	192.21	1637.64	0.00	75000.00
R4OOPDOC1M	19603	178.73	1751.79	0.00	120000.00
S1OOPDOC1M	14513	123.62	1685.20	0.00	170000.00
S2OOPDOC1M	15137	186.21	2216.11	0.00	160000.00
S3OOPDOC1M	17379	191.57	1598.24	0.00	70000.00
S4OOPDOC1M	16231	184.23	1869.62	0.00	120000.00
R1TOTDOC1M	17200	171.74	2134.00	0.00	200000.00
R2TOTDOC1M	18024	302.04	6430.96	0.00	800000.00
R3TOTDOC1M	20567	286.27	2412.18	0.00	110000.00
R4TOTDOC1M	19639	285.36	3271.87	0.00	280000.00
S1TOTDOC1M	14578	178.54	2276.20	0.00	200000.00
S2TOTDOC1M	15198	309.05	6941.33	0.00	800000.00
S3TOTDOC1M	17406	282.63	2370.86	0.00	100000.00
S4TOTDOC1M	16254	297.86	3538.98	0.00	280000.00

**How Constructed:**

RwOOPDOC1M is the value of out-of-pocket doctor visit expenditures for the respondent in the last month. RwoOPDOC1M includes the fees paid for treatment, medication costs and prescription drugs. RwtOTDOC1M is the value of total expenditures of the doctor visit for the respondent in the past month, including the amount the insurance company paid. This variable has the same component as RwoOPDOC1M, including the fees paid for treatment, medication costs and prescription drugs.

All respondents are asked to report how many times they have received outpatient care in the last month. If the respondent only received one outpatient care in the last month then the respondent was asked the total medical cost of the doctor visit and the out-of-pocket cost among the total cost of doctor visit. If the respondent received two or more times of outpatient care in the past month then the respondent was asked how much the total medical cost of doctor visit was for all the visits and the of out-of-pocket cost of the total doctor visits. We noted some respondents report the value for both but we only take the maximum value of the two.

Don't know, refused, or other missing responses of RwoOPDOC1M and RwtOTDOC1M are assigned to special missing codes (.d), (.r), (.m) respectively. RwoOPDOC1M and RwtOTDOC1M are set to plain missing (.) for respondents who did not respond to the current wave.

SwOOPDOC1M and SwTOTDOC1M is the current wave respondent's spouse's information about the doctor visit expenditure in the last month. SwOOPDOC1M and SwTOTDOC1M employ two additional missing codes, (.u) and (.v). Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

No difference known.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS that asks the respondents about their doctor visit expenditure in last two years, the CHARLS only asks the respondents about their last month doctor visit expenditure. Moreover, the RAND HRS only provides a summary of out-of-pocket expenditure and a summary total medical expenditure. Component values for hospitalization and doctor visits are not included.

## CHARLS Variables Used:

### Wave 1:

ED001	Visited Hospital Last Month
ED004S1	Have Visited General Hospital
ED005_1_	How Many Times did You Visit the Medical Facility
ED005_2_	How Many Times did You Visit the Medical Facility
ED005_3_	How Many Times did You Visit the Medical Facility
ED005_4_	How Many Times did You Visit the Medical Facility
ED005_5_	How Many Times did You Visit the Medical Facility
ED005_6_	How Many Times did You Visit the Medical Facility
ED005_7_	How Many Times did You Visit the Medical Facility
ED006_1_1_	TOTAL COST
ED006_1_2_	TOTAL COST
ED006_1_3_	TOTAL COST
ED006_1_4_	TOTAL COST
ED006_1_5_	TOTAL COST
ED006_1_6_	TOTAL COST
ED006_1_7_	TOTAL COST
ED006_1_8_	TOTAL COST
ED006_1_9_	TOTAL COST
ED007_1_1_	The Amount of Self Paid Part
ED007_1_2_	The Amount of Self Paid Part
ED007_1_3_	The Amount of Self Paid Part
ED007_1_4_	The Amount of Self Paid Part
ED007_1_5_	The Amount of Self Paid Part
ED007_1_6_	The Amount of Self Paid Part
ED007_1_7_	The Amount of Self Paid Part
ED007_1_8_	The Amount of Self Paid Part
ED007_1_9_	The Amount of Self Paid Part
ED023_1	The Amount of Total Cost of the Hospital Visit
ED024_1	Self Paid Amount
EF006	Respondent Receive Assistance In Answering Section D

### Wave 2:

ED001	Visited Hospital Last Month
ED005_1_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_2_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_3_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_4_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_5_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_6_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED005_7_	Times Visit / Been Visited by Hospital Corresponding to The ED0
ED006_1	Total Cost
ED007_1	Self-Paid Part
ED023_1	Money
ED024_1	Money
EF006	How Often Did The Respondent Receive Assistance

## Wave 3:

ED001	Did You Visit a Hospital in The Last Month?
ED005_1_	Times Visited Facility in Past 4 Weeks for Outpatient: General
ED005_2_	Times Visited Facility in Past 4 Weeks for Outpatient: Speciali
ED005_3_	Times Visited Facility in Past 4 Weeks for Outpatient: Chinese
ED005_4_	Times Visited Facility in Past 4 Weeks for Outpatient: Communit
ED005_5_	Times Visited Facility in Past 4 Weeks for Outpatient: Township
ED005_6_	Times Visited Facility in Past 4 Weeks for Outpatient: Health C
ED005_7_	Times Visited Facility in Past 4 Weeks for Outpatient: Village/
ED006_1	Amount Paid for Outpatient Treatment in The Last Month
ED007_1	Self-paid Amount Outpatient Treatment in The Last Month
ED023_1	Total Cost of Last Outpatient Visit
ED024_1	Out-Of-Pocket Cost of Last Outpatient Visit
EF006	Frequency of Assistance While Answering the Health Care and Ins

## Wave 4:

ED001	Accept Outpatient Care
ED004_W4_S3	Chinese Medicine Hospital
ED005_1_	Times Outp GH
ED005_2_	Times Outp SH
ED005_4_	Times Outp Comm
ED005_5_	Times Outp Towship
ED005_6_	Times Outp HCP
ED005_7_	Times Outp VC
ED005_8_	Times Outp Ins
ED006_W4_1	Outp Exp
ED007_1	OOP Outp
ED023_W4_1	Total Cost of This Visit
ED024_1	OOP of This Visit

**Medical Expenditure: dental visit in the last year**

Wave	Variable	Label	Type
2	R2OOPDEN1Y	r2oopdenly:w2 r dental care out-of-pocket expenditure last y	Cont
3	R3OOPDEN1Y	r3oopdenly:w3 r dental care out-of-pocket expenditure last y	Cont
2	S2OOPDEN1Y	s2oopdenly:w2 s dental care out-of-pocket expenditure last y	Cont
3	S3OOPDEN1Y	s3oopdenly:w3 s dental care out-of-pocket expenditure last y	Cont
2	R2TOTDEN1Y	r2totdenly:w2 r dental care total expenditure last year	Cont
3	R3TOTDEN1Y	r3totdenly:w3 r dental care total expenditure last year	Cont
2	S2TOTDEN1Y	s2totdenly:w2 s dental care total expenditure last year	Cont
3	S3TOTDEN1Y	s3totdenly:w3 s dental care total expenditure last year	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R2OOPDEN1Y	18054	87.76	442.02	0.00	15000.00
R3OOPDEN1Y	20596	123.24	621.84	0.00	23000.00
S2OOPDEN1Y	15211	88.73	446.13	0.00	15000.00
S3OOPDEN1Y	17424	125.60	635.70	0.00	23000.00
R2TOTDEN1Y	18180	91.81	485.34	0.00	25000.00
R3TOTDEN1Y	20760	126.25	634.03	0.00	23000.00
S2TOTDEN1Y	15317	93.19	496.60	0.00	25000.00
S3TOTDEN1Y	17559	129.02	650.07	0.00	23000.00

**How Constructed:**

RWOOPDEN1Y is the value of out-of-pocket dental care expenditures for the respondent in the last year. The expenditure of the dental care also includes dentures. RWTOTDEN1Y is the value of total expenditure of dental care for the respondent in the past year, including dentures. Don't know, refused, or other missing responses of RWOOPDEN1Y and RWTOTDEN1Y are assigned to special missing codes (.d), (.r), (.m) respectively. RWOOPDEN1Y and RWTOTDEN1Y are set to plain missing (.) for respondents who did not respond to the current wave.

SWOOPDEN1Y and SWTOTDEN1Y provide the information for the respondent's spouse or partner. SWOOPDEN1Y and SWTOTDEN1Y employ two additional missing codes, (.u) and (.v). Special missing value (.u) is used when the respondent does not report being coupled in the current wave. Special missing value (.v) is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

Questions related to dental care and dentist visits are asked at Waves 2 and 3.

**Differences with the RAND HRS/Harmonized HRS**

Unlike the HRS that asks the respondents about their dental visit expenditure in previous two year, the CHARLS only asks the respondents about their last year dental visit expenditure.

**CHARLS Variables Used:**

Wave 2:

EF006	How Often Did The Respondent Receive Assistance
EH003	Cost for All The Dental Care
EH003_1	Cost
EH004	Self-Paid Part
EH004_1	Cost

Wave 3:

---

EF006	Frequency of Assistance While Answering the Health Care and Ins
EH003	Did You Pay for Dental Care in the Past Year?
EH003_1	Total Cost for Dental Care in the Past Year
EH004	Did You Pay Out Of Pocket for Dental Care in The Past Year?
EH004_1	Total Out-Of-Pocket Cost for Dental Care in The Past Year

<b>Covered by Public Health Insurance Program</b>
---

Wave	Variable	Label	Type
1	R1HIGOV	rlhigov:w1 r cover by public health insurance	Categ
2	R2HIGOV	r2higov:w2 r cover by public health insurance	Categ
3	R3HIGOV	r3higov:w3 r cover by public health insurance	Categ
4	R4HIGOV	r4higov:w4 r cover by public health insurance	Categ
1	S1HIGOV	slhigov:w1 s cover by public health insurance	Categ
2	S2HIGOV	s2higov:w2 s cover by public health insurance	Categ
3	S3HIGOV	s3higov:w3 s cover by public health insurance	Categ
4	S4HIGOV	s4higov:w4 s cover by public health insurance	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIGOV	17467	0.92	0.27	0.00	1.00
R2HIGOV	18275	0.95	0.21	0.00	1.00
R3HIGOV	17171	0.91	0.29	0.00	1.00
R4HIGOV	19772	0.96	0.19	0.00	1.00
S1HIGOV	14799	0.93	0.26	0.00	1.00
S2HIGOV	15416	0.96	0.20	0.00	1.00
S3HIGOV	14362	0.91	0.28	0.00	1.00
S4HIGOV	16353	0.97	0.18	0.00	1.00

### Categorical Variable Codes

Value-----	R1HIGOV	R2HIGOV	R3HIGOV	R4HIGOV
.d:dk	63			
.m:missing	173	337	720	44
.r:refuse	5			
.x error			3206	
0.No	1385	861	1614	753
1.Public Insurance Plan	16082	17414	15557	19019

  

Value-----	S1HIGOV	S2HIGOV	S3HIGOV	S4HIGOV
.d:dk	44			
.m:missing	65	164	492	9
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x error			2870	
0.No	1059	666	1222	524
1.Public Insurance Plan	13740	14750	13140	15829

### How Constructed:

RwHIGOV indicates whether the respondent is covered by any public health insurance program. Below is the list of the public health insurance plans:

1. Urban employee medical insurance (yi-bao)
2. Urban and rural resident medical insurance
3. Urban resident medical insurance
4. New rural cooperative medical insurance (he-zuo-yi-liao)
5. Government medical insurance
6. Medical aid



7. Urban non-employed persons's health insurance (Asked starting at Wave 2)
8. Long-term care insurance (Asked starting at Wave 4)

A code of 0 indicates that the respondent is not covered by any public health insurance plan. A code of 1 indicates that the respondent is covered by at least one type of public health insurance plan. At Wave 3, special missing (.x) is assigned if the respondent is a new interview. New interview respondents in this context include Wave 3 respondents who did not participate at Wave 1 or Wave 2. There is currently no variable available for new interview respondents regarding whether they are a policy holder/primary beneficiary of any type of health insurance in the public Health Care and Insurance data file. Note: there are new respondents who respond to questions intended for re-interview respondents regarding the type of health insurance they are a policy holder/primary beneficiary. These cases are not coded as valid and assigned special missing (.x). Don't know, refused, or other missing responses of RWHIGOV are assigned special missing codes (.d), (.r), (.m) respectively. RWHIGOV is set to plain missing (.) for respondents who did not respond to the current wave.

SwHIGOV indicates whether the respondent's current wave's spouse is covered by any public health insurance program. In addition to the special missing codes used in RWHIGOV, SwHIGOV employs two additional missing codes, (.u) and (.v). A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Wave 1, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban resident medical insurance
3. New cooperative medical insurance (he-zuo-yi-liao)
4. Urban and rural resident medical insurance
5. Government medical insurance (gong-fei)
6. Medical aid
7. Private medical insurance: purchased by respondent's union
8. Private medical insurance: purchased by individual
9. Other medical insurance
10. No insurance

Starting at Wave 2, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban resident medical insurance
3. New cooperative medical insurance (he-zuo-yi-liao)
4. Urban and rural resident medical insurance
5. Government medical insurance (gong-fei)
6. Medical aid
7. Private medical insurance: purchased by respondent's union
8. Private medical insurance: purchased by individual
9. Urban non-employed persons's health insurance
10. Other medical insurance

11. No insurance

Starting at Wave 4, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban and rural resident medical insurance
3. Urban resident medical insurance
4. New rural cooperative medical insurance (he-zuo-yi-liao)
5. Government medical insurance
6. Medical aid
7. Private medical insurance: purchased by work unit
8. Private medical insurance: purchased by individual
9. Urban non-employed persons's health insurance
10. Long-term care insurance
11. Other medical insurance
12. No insurance

At Wave 3, re-interview respondents are asked to confirm or dispute the record from their last interview showing a list of preloaded health insurance types. Re-interview respondents are asked if they are still the policy holder/primary beneficiary of any of the types of health insurance listed from their last interview. If the respondent indicates they are still a policy holder/primary beneficiary of any private health insurance program, each private health insurance type is used at Wave 3. The re-interview respondent is also asked whether they have added a health insurance type since their last interview. All, if any, additional private health insurance program types are used at Wave 3.

Starting at Wave 4, new and re-interview respondents are asked about their health insurance policies without reference to what was reported at previous waves.

### Differences with the RAND HRS/Harmonized HRS

The types of insurance programs which are used to determine RWHIGOV in the CHARLS are different from the insurance programs used to determine RWHIGOV in the RAND HRS.

### CHARLS Variables Used:

Wave 1:

EA001S1	Y/N Urban Employee Medical Insurance
EA001S10	Y/N No Insurance
EA001S2	Y/N Urban Resident Medical Insurance
EA001S3	Y/N New Cooperative Medical Insurance
EA001S4	Y/N Urban and Rural Resident Medical Insurance
EA001S5	Y/N Government Medical Insurance
EA001S6	Y/N Medical Aid
EA001S7	Y/N Private Medical Insurance:Purchased By R's Union
EA001S8	Y/N Private Medical Insurance:Purchased By Individual
EA001S9	Y/N Other Medical Insurance

Wave 2:

EA001S1	Are You Have Any Types of Health Insurance? 1 Urban Employee Me
EA001S10	Are You Have Any Types of Health Insurance? 10 Other Medical In
EA001S11	Are You Have Any Types of Health Insurance? 11 No Insurance
EA001S2	Are You Have Any Types of Health Insurance? 2 Urban Resident Me
EA001S3	Are You Have Any Types of Health Insurance? 3 New Cooperative M
EA001S4	Are You Have Any Types of Health Insurance? 4 Urban and Rural R
EA001S5	Are You Have Any Types of Health Insurance? 5 Government Medica
EA001S6	Are You Have Any Types of Health Insurance? 6 Medical Aid

EA001S7	Are You Have Any Types of Health Insurance? 7 Private Medical I
EA001S8	Are You Have Any Types of Health Insurance? 8 Private Medical I
EA001S9	Are You Have Any Types of Health Insurance? 9 Urban Non-Employe
Wave 3:	
EA001_W3_2_10_	Still has Med. Ins. from Prev. Wave? Other Medical Insurance
EA001_W3_2_1_	Still has Med. Ins. from Prev. Wave? Urban Employee Medical Ins
EA001_W3_2_2_	Still has Med. Ins. from Prev. Wave? Urban Resident Medical Ins
EA001_W3_2_3_	Still has Med. Ins. from Prev. Wave? New Cooperative Medical In
EA001_W3_2_4_	Still has Med. Ins. from Prev. Wave? Urban and Rural Resident M
EA001_W3_2_5_	Still has Med. Ins. from Prev. Wave? Government Medical Insuran
EA001_W3_2_6_	Still has Med. Ins. from Prev. Wave? Medical Aid
EA001_W3_2_7_	Still has Med. Ins. from Prev. Wave? Private Medical Insurance
EA001_W3_2_8_	Still has Med. Ins. from Prev. Wave? Private Medical Insurance
EA001_W3_2_9_	Still has Med. Ins. from Prev. Wave? Urban Non-Employed Persons
EA001_W3_3_10_	Betw. Prev. Wave and This Wave? Other Medical Insurance
EA001_W3_3_1_	Betw. Prev. Wave and This Wave? Urban Employee Medical Insuranc
EA001_W3_3_2_	Betw. Prev. Wave and This Wave? Urban Resident Medical Insuranc
EA001_W3_3_3_	Betw. Prev. Wave and This Wave? New Cooperative Medical Insuran
EA001_W3_3_4_	Betw. Prev. Wave and This Wave? Urban and Rural Resident Medica
EA001_W3_3_5_	Betw. Prev. Wave and This Wave? Government Medical Insurance (G
EA001_W3_3_6_	Betw. Prev. Wave and This Wave? Medical Aid
EA001_W3_3_7_	Betw. Prev. Wave and This Wave? Private Medical Insurance Purch
EA001_W3_3_8_	Betw. Prev. Wave and This Wave? Private Medical Insurance Purch
EA001_W3_3_9_	Betw. Prev. Wave and This Wave? Urban Non-Employed Persons's He
Wave 4:	
EA001_W4_S1	Urban Employee Medical Insurance
EA001_W4_S10	Long-term Care Insurance
EA001_W4_S12	No Insurance
EA001_W4_S2	Urban and Rural Resident Medical Insurance
EA001_W4_S3	Urban Resident Medical Insurance
EA001_W4_S4	New Rural Cooperative Medical Insurance
EA001_W4_S5	Government Medical Insurance
EA001_W4_S6	Medical Aid
EA001_W4_S9	Urban Non-employed Persons's Medical Insurance

<b>Covered by Private Health Insurance Program</b>
--

Wave	Variable	Label	Type
1	R1HIPRIV	rlhipriv:w1 r cover by private health ins	Categ
2	R2HIPRIV	r2hipriv:w2 r cover by private health ins	Categ
3	R3HIPRIV	r3hipriv:w3 r cover by private health ins	Categ
4	R4HIPRIV	r4hipriv:w4 r cover by private health ins	Categ
1	S1HIPRIV	slhipriv:w1 S cover by private health ins	Categ
2	S2HIPRIV	s2hipriv:w2 s cover by private health ins	Categ
3	S3HIPRIV	s3hipriv:w3 s cover by private health ins	Categ
4	S4HIPRIV	s4hipriv:w4 s cover by private health ins	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIPRIV	17412	0.03	0.16	0.00	1.00
R2HIPRIV	18275	0.02	0.15	0.00	1.00
R3HIPRIV	17120	0.02	0.15	0.00	1.00
R4HIPRIV	19772	0.04	0.19	0.00	1.00
S1HIPRIV	14755	0.03	0.16	0.00	1.00
S2HIPRIV	15416	0.02	0.15	0.00	1.00
S3HIPRIV	14338	0.02	0.16	0.00	1.00
S4HIPRIV	16353	0.04	0.19	0.00	1.00

### Categorical Variable Codes

Value-----	R1HIPRIV	R2HIPRIV	R3HIPRIV	R4HIPRIV
.d:dk	63			
.m:missing	228	337	780	44
.r:refuse	5			
.x error			3197	
0.No	16974	17854	16722	19047
1.Private Insurance Plan	438	421	398	725

  

Value-----	S1HIPRIV	S2HIPRIV	S3HIPRIV	S4HIPRIV
.d:dk	44			
.m:missing	109	164	523	9
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x error			2863	
0.No	14377	15048	13983	15712
1.Private Insurance Plan	378	368	355	641

### How Constructed:

RwHIPRIV indicates whether the respondent is covered by any private health insurance program. Below is the list of the private health insurance plans:

1. Private medical insurance: purchased by respondent's union/work unit
2. Private medical insurance: purchased by individual

A code of 0 indicates that the respondent is not covered by any private health insurance plan. A code of 1 indicates that the respondent is covered by at least one type of private health insurance plan. At Wave 3, special missing (.x) is assigned if the respondent is a new interview. New interview respondents in this context include Wave 3 respondents who did not participate in Wave 1 or Wave 2. There is currently no variable available for new interview respondents regarding whether they are a policy holder/primary beneficiary of any type of health insurance in the public Health Care and Insurance data file. Note: there are new respondents who respond to questions intended for re-interview respondents regarding the type of health insurance they are a policy holder/primary

beneficiary. These cases are not coded as valid and assigned special missing (.x). Don't know, refused, or other missing responses of RwhIPRIV are assigned special missing codes (.d), (.r), (.m) respectively. RwhIPRIV is set to plain missing (.) for respondents who did not respond to the current wave.

SwhIPRIV indicates whether the respondent's current wave's spouse is covered by any private health insurance program. In addition to the special missing codes used in RwhIPRIV, SwhIPRIV employs two additional missing codes, (.u) and (.v). A special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. A special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban resident medical insurance
3. New cooperative medical insurance (he-zuo-yi-liao)
4. Urban and rural resident medical insurance
5. Government medical insurance (gong-fei)
6. Medical aid
7. Private medical insurance: purchased by respondent's union
8. Private medical insurance: purchased by individual
9. Other medical insurance
10. No insurance

Starting at Wave 2, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban resident medical insurance
3. New cooperative medical insurance (he-zuo-yi-liao)
4. Urban and rural resident medical insurance
5. Government medical insurance (gong-fei)
6. Medical aid
7. Private medical insurance: purchased by respondent's union
8. Private medical insurance: purchased by individual
9. Urban non-employed persons's health insurance
10. Other medical insurance
11. No insurance

Starting at Wave 4, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban and rural resident medical insurance
3. Urban resident medical insurance
4. New rural cooperative medical insurance (he-zuo-yi-liao)

5. Government medical insurance
6. Medical aid
7. Private medical insurance: purchased by work unit
8. Private medical insurance: purchased by individual
9. Urban non-employed persons's health insurance
10. Long-term care insurance
11. Other medical insurance
12. No insurance

At Wave 3, re-interview respondents are asked to confirm or dispute the record from their last interview showing a list of preloaded health insurance types. Re-interview respondents are asked if they are still the policy holder/primary beneficiary of any of the types of health insurance listed from their last interview. If the respondent indicates they are still a policy holder/primary beneficiary of any private health insurance program, each private health insurance type is used at Wave 3. The re-interview respondent is also asked whether they have added a health insurance type since their last interview. All, if any, additional private health insurance program types are used at Wave 3.

Starting at Wave 4, new and re-interview respondents are asked about their health insurance policies without reference to what was reported at previous waves.

### Differences with the RAND HRS/Harmonized HRS

This variable is not available in the RAND HRS.

### CHARLS Variables Used:

#### Wave 1:

EA001S1	Y/N Urban Employee Medical Insurance
EA001S10	Y/N No Insurance
EA001S2	Y/N Urban Resident Medical Insurance
EA001S3	Y/N New Cooperative Medical Insurance
EA001S4	Y/N Urban and Rural Resident Medical Insurance
EA001S5	Y/N Government Medical Insurance
EA001S6	Y/N Medical Aid
EA001S7	Y/N Private Medical Insurance:Purchased By R's Union
EA001S8	Y/N Private Medical Insurance:Purchased By Individual
EA001S9	Y/N Other Medical Insurance

#### Wave 2:

EA001S1	Are You Have Any Types of Health Insurance? 1 Urban Employee Me
EA001S10	Are You Have Any Types of Health Insurance? 10 Other Medical In
EA001S11	Are You Have Any Types of Health Insurance? 11 No Insurance
EA001S2	Are You Have Any Types of Health Insurance? 2 Urban Resident Me
EA001S3	Are You Have Any Types of Health Insurance? 3 New Cooperative M
EA001S4	Are You Have Any Types of Health Insurance? 4 Urban and Rural R
EA001S5	Are You Have Any Types of Health Insurance? 5 Government Medica
EA001S6	Are You Have Any Types of Health Insurance? 6 Medical Aid
EA001S7	Are You Have Any Types of Health Insurance? 7 Private Medical I
EA001S8	Are You Have Any Types of Health Insurance? 8 Private Medical I
EA001S9	Are You Have Any Types of Health Insurance? 9 Urban Non-Employe

#### Wave 3:

EA001_W3_2_10_	Still has Med. Ins. from Prev. Wave? Other Medical Insurance
EA001_W3_2_1_	Still has Med. Ins. from Prev. Wave? Urban Employee Medical Ins
EA001_W3_2_2_	Still has Med. Ins. from Prev. Wave? Urban Resident Medical Ins
EA001_W3_2_3_	Still has Med. Ins. from Prev. Wave? New Cooperative Medical In
EA001_W3_2_4_	Still has Med. Ins. from Prev. Wave? Urban and Rural Resident M
EA001_W3_2_5_	Still has Med. Ins. from Prev. Wave? Government Medical Insuran
EA001_W3_2_6_	Still has Med. Ins. from Prev. Wave? Medical Aid
EA001_W3_2_7_	Still has Med. Ins. from Prev. Wave? Private Medical Insurance
EA001_W3_2_8_	Still has Med. Ins. from Prev. Wave? Private Medical Insurance

EA001_W3_2_9_	Still has Med. Ins. from Prev. Wave? Urban Non-Employed Persons
EA001_W3_3_10_	Betw. Prev. Wave and This Wave? Other Medical Insurance
EA001_W3_3_1_	Betw. Prev. Wave and This Wave? Urban Employee Medical Insuranc
EA001_W3_3_2_	Betw. Prev. Wave and This Wave? Urban Resident Medical Insuranc
EA001_W3_3_3_	Betw. Prev. Wave and This Wave? New Cooperative Medical Insuran
EA001_W3_3_4_	Betw. Prev. Wave and This Wave? Urban and Rural Resident Medica
EA001_W3_3_5_	Betw. Prev. Wave and This Wave? Government Medical Insurance (G
EA001_W3_3_6_	Betw. Prev. Wave and This Wave? Medical Aid
EA001_W3_3_7_	Betw. Prev. Wave and This Wave? Private Medical Insurance Purch
EA001_W3_3_8_	Betw. Prev. Wave and This Wave? Private Medical Insurance Purch
EA001_W3_3_9_	Betw. Prev. Wave and This Wave? Urban Non-Employed Persons's He

## Wave 4:

EA001_W4_S12	No Insurance
EA001_W4_S7	Private Medical Insurance, Work Unit
EA001_W4_S8	Private Mdical Insurance, Individual

<b>Covered by Other Health Insurance Program</b>
--

Wave	Variable	Label	Type
1	R1HIOTHP	r1hiothp:w1 r cover by other health ins	Categ
2	R2HIOTHP	r2hiothp:w2 r cover by other health ins	Categ
3	R3HIOTHP	r3hiothp:w3 r cover by other health ins	Categ
4	R4HIOTHP	r4hiothp:w4 r cover by other health ins	Categ
1	S1HIOTHP	s1hiothp:w1 s cover by other health ins	Categ
2	S2HIOTHP	s2hiothp:w2 s cover by other health ins	Categ
3	S3HIOTHP	s3hiothp:w3 s cover by other health ins	Categ
4	S4HIOTHP	s4hiothp:w4 s cover by other health ins	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIOTHP	17467	0.01	0.09	0.00	1.00
R2HIOTHP	18275	0.01	0.09	0.00	1.00
R3HIOTHP	16881	0.02	0.13	0.00	1.00
R4HIOTHP	19772	0.01	0.12	0.00	1.00
S1HIOTHP	14799	0.01	0.09	0.00	1.00
S2HIOTHP	15416	0.01	0.10	0.00	1.00
S3HIOTHP	14153	0.02	0.13	0.00	1.00
S4HIOTHP	16353	0.01	0.12	0.00	1.00

### Categorical Variable Codes

Value-----	R1HIOTHP	R2HIOTHP	R3HIOTHP	R4HIOTHP
.d:dk	63			
.m:missing	173	337	1046	44
.r:refuse	5			
.x error			3170	
0.No	17337	18112	16584	19479
1.Other Insurance Plan	130	163	297	293

  

Value-----	S1HIOTHP	S2HIOTHP	S3HIOTHP	S4HIOTHP
.d:dk	44			
.m:missing	65	164	732	9
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x error			2839	
0.No	14684	15275	13896	16126
1.Other Insurance Plan	115	141	257	227

### How Constructed:

RwHIOTHP indicates whether the respondent is covered by any other health insurance program. A code of 0 indicates that the respondent is not covered by any other health insurance plan. A code of 1 indicates that the respondent is covered by any other health insurance plan. At Wave 3, special missing (.x) is assigned if the respondent is a new interview. New interview respondents in this context include Wave 3 respondents who did not participate at Wave 1 or Wave 2. There is currently no variable available for new interview respondents regarding whether they are a policy holder/primary beneficiary of any type of health insurance in the public Health Care and Insurance data file. Note: there are new respondents who respond to questions intended for re-interview respondents regarding the type of health insurance they are a policy holder/primary beneficiary. These cases are not coded as valid and assigned special missing (.x). Don't know, refused, or other missing responses of RwHIOTHP are assigned special missing codes (.d), (.r), (.m) respectively. RwHIOTHP is set to plain missing (.) for respondents who did not respond to the current wave.

SwHIOTHP indicates whether the respondent's current wave's spouse is covered by any other health insurance program. In addition to the special missing codes used in RwHIOTHP, SwHIOTHP employs two



additional missing codes, (.u) and (.v). A special missing value (.u) is used when the respondent does not report being coupled in the current wave. A special missing value (.v) is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban resident medical insurance
3. New cooperative medical insurance (he-zuo-yi-liao)
4. Urban and rural resident medical insurance
5. Government medical insurance (gong-fei)
6. Medical aid
7. Private medical insurance: purchased by respondent's union
8. Private medical insurance: purchased by individual
9. Other medical insurance
10. No insurance

Starting at Wave 2, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban resident medical insurance
3. New cooperative medical insurance (he-zuo-yi-liao)
4. Urban and rural resident medical insurance
5. Government medical insurance (gong-fei)
6. Medical aid
7. Private medical insurance: purchased by respondent's union
8. Private medical insurance: purchased by individual
9. Urban non-employed persons's health insurance
10. Other medical insurance
11. No insurance

Starting at Wave 4, CHARLS used the following list to survey insurance types:

1. Urban employee medical insurance (yi-bao)
2. Urban and rural resident medical insurance
3. Urban resident medical insurance
4. New rural cooperative medical insurance (he-zuo-yi-liao)
5. Government medical insurance
6. Medical aid
7. Private medical insurance: purchased by work unit

8. Private medical insurance: purchased by individual
9. Urban non-employed persons's health insurance
10. Long-term care insurance
11. Other medical insurance
12. No insurance

At Wave 3, re-interview respondents are asked to confirm or dispute the record from their last interview showing a list of preloaded health insurance types. Re-interview respondents are asked if they are still the policy holder/primary beneficiary of any of the types of health insurance listed from their last interview. If the respondent indicates they are still a policy holder/primary beneficiary of any private health insurance program, each private health insurance type is used at Wave 3. The re-interview respondent is also asked whether they have added a health insurance type since their last interview. All, if any, additional private health insurance program types are used at Wave 3.

Starting at Wave 4, new and re-interview respondents are asked about their health insurance policies without reference to what was reported at previous waves.

### Differences with the RAND HRS/Harmonized HRS

This variable contains different component than RAND HRS. In the RAND HRS, RWHIOTH indicates whether the respondent is covered by any health insurance other than government, employer-provided, or long-term care insurance. RWHIOTH in CHARLS indicates the insurance that is not in the option list; that is, the insurance plan other than urban employee medical insurance(yi-bao), urban resident medical insurance, new cooperative medical insurance(he-zuo-yi-liao), urban and rural resident medical insurance, government medical insurance(gong-fei), medical aid, private medical insurance: purchased by respondent's union and private medical insurance: purchased by individual.

### CHARLS Variables Used:

#### Wave 1:

EA001S1	Y/N Urban Employee Medical Insurance
EA001S10	Y/N No Insurance
EA001S2	Y/N Urban Resident Medical Insurance
EA001S3	Y/N New Cooperative Medical Insurance
EA001S4	Y/N Urban and Rural Resident Medical Insurance
EA001S5	Y/N Government Medical Insurance
EA001S6	Y/N Medical Aid
EA001S7	Y/N Private Medical Insurance:Purchased By R's Union
EA001S8	Y/N Private Medical Insurance:Purchased By Individual
EA001S9	Y/N Other Medical Insurance

#### Wave 2:

EA001S1	Are You Have Any Types of Health Insurance? 1 Urban Employee Me
EA001S10	Are You Have Any Types of Health Insurance? 10 Other Medical In
EA001S11	Are You Have Any Types of Health Insurance? 11 No Insurance
EA001S2	Are You Have Any Types of Health Insurance? 2 Urban Resident Me
EA001S3	Are You Have Any Types of Health Insurance? 3 New Cooperative M
EA001S4	Are You Have Any Types of Health Insurance? 4 Urban and Rural R
EA001S5	Are You Have Any Types of Health Insurance? 5 Government Medica
EA001S6	Are You Have Any Types of Health Insurance? 6 Medical Aid
EA001S7	Are You Have Any Types of Health Insurance? 7 Private Medical I
EA001S8	Are You Have Any Types of Health Insurance? 8 Private Medical I
EA001S9	Are You Have Any Types of Health Insurance? 9 Urban Non-Employe

#### Wave 3:

EA001_W3_2_10_	Still has Med. Ins. from Prev. Wave? Other Medical Insurance
EA001_W3_2_1_	Still has Med. Ins. from Prev. Wave? Urban Employee Medical Ins
EA001_W3_2_2_	Still has Med. Ins. from Prev. Wave? Urban Resident Medical Ins
EA001_W3_2_3_	Still has Med. Ins. from Prev. Wave? New Cooperative Medical In
EA001_W3_2_4_	Still has Med. Ins. from Prev. Wave? Urban and Rural Resident M
EA001_W3_2_5_	Still has Med. Ins. from Prev. Wave? Government Medical Insuran
EA001_W3_2_6_	Still has Med. Ins. from Prev. Wave? Medical Aid
EA001_W3_2_7_	Still has Med. Ins. from Prev. Wave? Private Medical Insurance
EA001_W3_2_8_	Still has Med. Ins. from Prev. Wave? Private Medical Insurance
EA001_W3_2_9_	Still has Med. Ins. from Prev. Wave? Urban Non-Employed Persons

EA001_W3_3_10_	Betw. Prev. Wave and This Wave? Other Medical Insurance
EA001_W3_3_1_	Betw. Prev. Wave and This Wave? Urban Employee Medical Insuranc
EA001_W3_3_2_	Betw. Prev. Wave and This Wave? Urban Resident Medical Insuranc
EA001_W3_3_3_	Betw. Prev. Wave and This Wave? New Cooperative Medical Insuran
EA001_W3_3_4_	Betw. Prev. Wave and This Wave? Urban and Rural Resident Medica
EA001_W3_3_5_	Betw. Prev. Wave and This Wave? Government Medical Insurance (G
EA001_W3_3_6_	Betw. Prev. Wave and This Wave? Medical Aid
EA001_W3_3_7_	Betw. Prev. Wave and This Wave? Private Medical Insurance Purch
EA001_W3_3_8_	Betw. Prev. Wave and This Wave? Private Medical Insurance Purch
EA001_W3_3_9_	Betw. Prev. Wave and This Wave? Urban Non-Employed Persons's He

## Wave 4:

EA001_W4_S11	Other Medical Insurance
EA001_W4_S12	No Insurance

## **Section D: Cognition**

<b>Self-reported Memory</b>
-----------------------------

Wave	Variable	Label	Type
1	R1SLFMEM	r1slfmem:w1 r Self-reported memory	Categ
2	R2SLFMEM	r2slfmem:w2 r Self-reported memory	Categ
3	R3SLFMEM	r3slfmem:w3 r Self-reported memory	Categ
4	R4SLFMEM	r4slfmem:w4 r Self-reported memory	Categ
1	S1SLFMEM	s1slfmem:w1 s Self-reported memory	Categ
2	S2SLFMEM	s2slfmem:w2 s Self-reported memory	Categ
3	S3SLFMEM	s3slfmem:w3 s Self-reported memory	Categ
4	S4SLFMEM	s4slfmem:w4 s Self-reported memory	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SLFMEM	16043	4.09	0.86	1.00	5.00
R2SLFMEM	16583	4.08	0.86	1.00	5.00
R3SLFMEM	19612	4.10	0.84	1.00	5.00
R4SLFMEM	18157	4.12	0.80	1.00	5.00
S1SLFMEM	13554	4.09	0.85	1.00	5.00
S2SLFMEM	14040	4.07	0.85	1.00	5.00
S3SLFMEM	16697	4.08	0.84	1.00	5.00
S4SLFMEM	15185	4.12	0.80	1.00	5.00

### Categorical Variable Codes

Value	R1SLFMEM	R2SLFMEM	R3SLFMEM	R4SLFMEM
.d:dk	21		54	
.m:missing	166	1553	176	726
.p:proxy	1470	476	1251	933
.r:refuse	8		4	
1.Excellent	78	146	180	126
2.Very good	871	980	1127	893
3.Good	2245	1688	1579	1419
4.Fair	7201	8389	10462	9893
5.Poor	5648	5380	6264	5826

  

Value	S1SLFMEM	S2SLFMEM	S3SLFMEM	S4SLFMEM
.d:dk	14		34	
.m:missing	67	1165	58	462
.p:proxy	1269	375	932	715
.r:refuse	6		3	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Excellent	61	128	157	108
2.Very good	712	818	979	747
3.Good	1889	1430	1337	1138
4.Fair	6181	7200	9073	8447
5.Poor	4711	4464	5151	4745

### How Constructed:

RwSLFMEM indicates the respondent's self-report of memory using a scale ranging from 1 for Excellent to 5 for Poor. Special missing value (.p) is assigned if this question was skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwSLFMEM is coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides an overall wave indicator of whether the interview was done by proxy. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Waves 2 and 4.

SwSLFMEM indicates the respondent's spouse's self-report of memory using a scale ranging from 1 for Excellent to 5 for Poor. SwSLFMEM is taken from the spouse's value to RwsSLFMEM. In addition to the special missing values used in RwsSLFMEM, SwSLFMEM employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### **Cross Wave Differences in CHARLS**

The current release of the CHARLS data includes a large number of missing responses at Waves 2 and 4 to the question asking the respondent to rate their memory at the present time.

### **Differences with the RAND HRS/Harmonized HRS**

No differences known.

### **CHARLS Variables Used:**

#### Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC004	Self Comment of Memory
PROXY	interview done by proxy

#### Wave 2:

DB032	Receive Assistance
DC004	Self Rated Memory

#### Wave 3:

DB032	Receive Assistance
DC004	Self rated memory
PROXY	Proxy Mode or Not

#### Wave 4:

DB032	How often the Respondent Receive Assistance
DC004	Self-Rated Memory

<b>Immediate Word Recall</b>
------------------------------

Wave	Variable	Label	Type
1	R1IMRC	r1imrc:w1 r immediate word recall	Cont
2	R2IMRC	r2imrc:w2 r immediate word recall	Cont
3	R3IMRC	r3imrc:w3 r immediate word recall	Cont
4	R4IMRC	r4imrc:w4 r immediate word recall	Cont
1	S1IMRC	s1imrc:w1 s immediate word recall	Cont
2	S2IMRC	s2imrc:w2 s immediate word recall	Cont
3	S3IMRC	s3imrc:w3 s immediate word recall	Cont
4	S4IMRC	s4imrc:w4 s immediate word recall	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IMRC	14203	4.08	1.70	0.00	10.00
R2IMRC	16052	4.09	1.74	0.00	10.00
R3IMRC	19206	3.87	1.91	0.00	10.00
R4IMRC	16343	3.16	2.03	0.00	10.00
S1IMRC	12135	4.13	1.68	0.00	10.00
S2IMRC	13666	4.17	1.72	0.00	10.00
S3IMRC	16396	3.98	1.86	0.00	10.00
S4IMRC	13857	3.29	2.02	0.00	10.00

### How Constructed:

RwIMRC indicates the number of words the respondent can immediately recall correctly from a 10-word list. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwIMRC is coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides an overall wave indicator of whether the interview was done by proxy. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Wave 2. Starting at Wave 4, the interviewer is asked to record the reason the respondent refused the word recall task and this information has been used to assign .r missing values to RwIMRC.

SwIMRC indicates the number of words the respondent's spouse could immediately recall correctly from a 10-word list. SwIMRC is taken from the spouse's value to RwIMRC. In addition to the special missing values used in RwIMRC, SwIMRC employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Waves 1 to 3, respondents are randomly assigned to recall one of four 10-word lists. Starting at Wave 4, all respondents are asked to recall the same 10 words: butter, arm, shore, letter, queen, cabin, pole, ticket, grass, and engine.

Starting at Wave 4, the interviewer is asked to record the reason the respondent refused the task.

The current release of the CHARLS data includes a large number of missing responses at Waves 1 and 2 to the questions asking the respondent to immediately recall a 10-word list.

### Differences with the RAND HRS/Harmonized HRS

The word lists at CHARLS Waves 1 to 3 are different from the HRS. However, the word list at CHARLS Wave 4 is the same list used in the HRS-HCAP. Starting at HRS Wave 3, the word list was randomly assigned, which is similar to CHARLS Waves 1 to 3.

**CHARLS Variables Used:**

## Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC006S1	DISPLAY VIDEO
DC006S10	DISPLAY VIDEO
DC006S11	DISPLAY VIDEO
DC006S2	DISPLAY VIDEO
DC006S3	DISPLAY VIDEO
DC006S4	DISPLAY VIDEO
DC006S5	DISPLAY VIDEO
DC006S6	DISPLAY VIDEO
DC006S7	DISPLAY VIDEO
DC006S8	DISPLAY VIDEO
DC006S9	DISPLAY VIDEO
PROXY	interview done by proxy

## Wave 2:

DB032	Receive Assistance
DC006_1_S1	Recalled Words
DC006_1_S10	Recalled Words
DC006_1_S11	Recalled Words
DC006_1_S2	Recalled Words
DC006_1_S3	Recalled Words
DC006_1_S4	Recalled Words
DC006_1_S5	Recalled Words
DC006_1_S6	Recalled Words
DC006_1_S7	Recalled Words
DC006_1_S8	Recalled Words
DC006_1_S9	Recalled Words
DC006_2_S1	Recalled Words
DC006_2_S10	Recalled Words
DC006_2_S11	Recalled Words
DC006_2_S2	Recalled Words
DC006_2_S3	Recalled Words
DC006_2_S4	Recalled Words
DC006_2_S5	Recalled Words
DC006_2_S6	Recalled Words
DC006_2_S7	Recalled Words
DC006_2_S8	Recalled Words
DC006_2_S9	Recalled Words
DC006_3_S1	Recalled Words
DC006_3_S10	Recalled Words
DC006_3_S11	Recalled Words
DC006_3_S2	Recalled Words
DC006_3_S3	Recalled Words
DC006_3_S4	Recalled Words
DC006_3_S5	Recalled Words
DC006_3_S6	Recalled Words
DC006_3_S7	Recalled Words
DC006_3_S8	Recalled Words
DC006_3_S9	Recalled Words

## Wave 3:

DB032	Receive Assistance
DC006S1	Recalled Words
DC006S10	Recalled Words
DC006S11	Recalled Words
DC006S12	Recalled Words
DC006S2	Recalled Words
DC006S3	Recalled Words
DC006S4	Recalled Words
DC006S5	Recalled Words
DC006S6	Recalled Words
DC006S7	Recalled Words
DC006S8	Recalled Words
DC006S9	Recalled Words
PROXY	Proxy Mode or Not

## Wave 4:

DB032	How often the Respondent Receive Assistance
-------	---



---

DC028_W4_1	Reasons for Rufused Word Recall Test
DC028_W4_S1	Word Recall 1st: Butter
DC028_W4_S10	Word Recall 1st: Engine
DC028_W4_S11	Word Recall 1st: None
DC028_W4_S12	Word Recall 1st: Refused to Recall
DC028_W4_S2	Word Recall 1st: Arm
DC028_W4_S3	Word Recall 1st: Shore
DC028_W4_S4	Word Recall 1st: Letter
DC028_W4_S5	Word Recall 1st: Queen
DC028_W4_S6	Word Recall 1st: Cabin
DC028_W4_S7	Word Recall 1st: Pole
DC028_W4_S8	Word Recall 1st: Ticket
DC028_W4_S9	Word Recall 1st: Grass

<b>Delayed Word Recall</b>
----------------------------

Wave	Variable	Label	Type
1	R1DLRC	r1dlrc:w1 r delayed word recall	Cont
2	R2DLRC	r2dlrc:w2 r delayed word recall	Cont
3	R3DLRC	r3dlrc:w3 r delayed word recall	Cont
4	R4DLRC	r4dlrc:w4 r delayed word recall	Cont
1	S1DLRC	s1dlrc:w1 s delayed word recall	Cont
2	S2DLRC	s2dlrc:w2 s delayed word recall	Cont
3	S3DLRC	s3dlrc:w3 s delayed word recall	Cont
4	S4DLRC	s4dlrc:w4 s delayed word recall	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DLRC	14082	3.14	1.97	0.00	10.00
R2DLRC	15785	3.19	2.03	0.00	10.00
R3DLRC	19008	2.90	2.08	0.00	10.00
R4DLRC	15688	4.40	2.84	0.00	10.00
S1DLRC	12041	3.20	1.96	0.00	10.00
S2DLRC	13462	3.28	2.01	0.00	10.00
S3DLRC	16235	3.01	2.06	0.00	10.00
S4DLRC	13359	4.57	2.80	0.00	10.00

### How Constructed:

RwDLRC indicates the number of words the respondent can recall correctly from a 10-word list after a delayed time spent answering other survey questions. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwDLRC is coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides an overall wave indicator of whether the interview was done by proxy. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Wave 2. Starting at Wave 4, the interviewer is asked to record the reason the respondent refused the word recall task and this information has been used to assign .r missing values to RwDLRC.

SwDLRC indicates the number of words the respondent's spouse can recall correctly from a 10-word list after a delayed time spent answering other survey questions. SwDLRC is taken from the spouse's value to RwDLRC. In addition to the special missing values used in RwDLRC, SwDLRC employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Waves 1 to 3, respondents are randomly assigned to recall one of four 10-word lists. Starting at Wave 4, all respondents are asked to recall the same 10 words: butter, arm, shore, letter, queen, cabin, pole, ticket, grass, and engine.

Starting at Wave 4, the interviewer is asked to record the reason the respondent refused the task.

The current release of the CHARLS data includes a large number of missing responses at Waves 1 and 2 to the questions asking the respondent to immediately recall a 10-word list.

### Differences with the RAND HRS/Harmonized HRS

The word lists at CHARLS Waves 1 to 3 are different from the HRS. However, the word list at CHARLS Wave 4 is the same list used in the HRS-HCAP. Starting at HRS Wave 3, the word list was randomly assigned, which is similar to CHARLS Waves 1 to 3.

**CHARLS Variables Used:**

## Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC027S1	Recall Words
DC027S10	Recall Words
DC027S11	Recall Words
DC027S2	Recall Words
DC027S3	Recall Words
DC027S4	Recall Words
DC027S5	Recall Words
DC027S6	Recall Words
DC027S7	Recall Words
DC027S8	Recall Words
DC027S9	Recall Words
PROXY	interview done by proxy

## Wave 2:

DB032	Receive Assistance
DC027S1	Recall Words
DC027S10	Recall Words
DC027S11	Recall Words
DC027S2	Recall Words
DC027S3	Recall Words
DC027S4	Recall Words
DC027S5	Recall Words
DC027S6	Recall Words
DC027S7	Recall Words
DC027S8	Recall Words
DC027S9	Recall Words

## Wave 3:

DB032	Receive Assistance
DC006S12	Recalled Words
DC027S1	Recall Words
DC027S10	Recall Words
DC027S11	Recall Words
DC027S12	Recall Words
DC027S2	Recall Words
DC027S3	Recall Words
DC027S4	Recall Words
DC027S5	Recall Words
DC027S6	Recall Words
DC027S7	Recall Words
DC027S8	Recall Words
DC027S9	Recall Words
PROXY	Proxy Mode or Not

## Wave 4:

DB032	How often the Respondent Receive Assistance
DC028_W4_1	Reasons for Rufused Word Recall Test
DC028_W4_S12	Word Recall 1st: Refused to Recall
DC047_W4_S1	Delayed Recall: Shore
DC047_W4_S10	Delayed Recall: Queen
DC047_W4_S11	Delayed Recall: None
DC047_W4_S12	Delayed Recall: Refused to Recall
DC047_W4_S2	Delayed Recall: Letter
DC047_W4_S3	Delayed Recall: Arm
DC047_W4_S4	Delayed Recall: Cabin
DC047_W4_S5	Delayed Recall: Pole
DC047_W4_S6	Delayed Recall: Ticket
DC047_W4_S7	Delayed Recall: Engine
DC047_W4_S8	Delayed Recall: Grass
DC047_W4_S9	Delayed Recall: Butter

<b>Serial 7's</b>
-------------------

Wave	Variable	Label	Type
1	R1SER7	r1ser7:w1 r serial 7s	Cont
2	R2SER7	r2ser7:w2 r serial 7s	Cont
3	R3SER7	r3ser7:w3 r serial 7s	Cont
4	R4SER7	r4ser7:w4 r serial 7s	Cont
1	S1SER7	s1ser7:w1 s serial 7s	Cont
2	S2SER7	s2ser7:w2 s serial 7s	Cont
3	S3SER7	s3ser7:w3 s serial 7s	Cont
4	S4SER7	s4ser7:w4 s serial 7s	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SER7	14283	3.53	1.65	0.00	5.00
R2SER7	14772	3.58	1.58	0.00	5.00
R3SER7	17631	3.69	1.49	0.00	5.00
R4SER7	13615	3.50	1.57	0.00	5.00
S1SER7	12233	3.60	1.60	0.00	5.00
S2SER7	12681	3.65	1.55	0.00	5.00
S3SER7	15258	3.75	1.46	0.00	5.00
S4SER7	11690	3.56	1.54	0.00	5.00

### How Constructed:

RwSER7 indicates the respondent's number of correct subtractions in the serial 7's test. This test asks the respondent to subtract 7 from 100 and then continue subtracting 7 from each answer for four more trials. Correct subtractions are based on the previous answer given, even if the previous answer was incorrect. RwSER7 ranges from 0 to 5, with five indicating all questions answered correctly. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwSER7 is coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides an overall wave indicator of whether the interview was done by proxy. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Wave 2. Starting at Wave 4, the CHARLS data includes a variable capturing the reason the respondent did not answer the serial seven questions, this information has been used to assign .r and .d missing values to RwSER7.

SwSER7 indicates the respondent's spouse's number of correct subtractions in the serial 7's test. SwSER7 is taken from the spouse's value to RwSER7. In addition to the special missing values used in RwSER7, SwSER7 employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

The current release of the CHARLS data includes a large number of missing responses at Wave 2 to the serial 7's test questions.

At Wave 1 and 3, the CHARLS data included indicators if the respondent answered they did not know or refused to answer the subtraction. Wave 2 data does not include any indicators of why the respondent did not provide an answer to the subtraction. Starting at Wave 4, the CHARLS data includes variables capturing the reason the respondent did not provide an answer to the subtraction, whether because they don't know or because they refused.

### Differences with the RAND HRS/Harmonized HRS

No differences known.

**CHARLS Variables Used:**

## Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC019	100 Minus 7
DC020	Minus 7
DC021	Minus 7
DC022	Minus 7
DC023	Minus 7
PROXY	interview done by proxy

## Wave 2:

DB032	Receive Assistance
DC019	100 Minus 7
DC020	Minus 7
DC021	Minus 7
DC022	Minus 7
DC023	Minus 7

## Wave 3:

DB032	Receive Assistance
DC019	100 minus 7
DC020	minus 7
DC021	MINUS 7
DC022	MINUS 7
DC023	MINUS 7
PROXY	Proxy Mode or Not

## Wave 4:

DB032	How often the Respondent Receive Assistance
DC014_W4_1	Reason for Missing from 100-7
DC014_W4_1_1	Specific Result from 100-7
DC014_W4_2	Reason for Missing from dc014_w4_1-7
DC014_W4_2_1	Specific Result from dc014_w4_2-7
DC014_W4_3	Reason for Missing from dc014_w4_2-7
DC014_W4_3_1	Specific Result from dc014_w4_3-7
DC014_W4_4	Reason for Missing from dc014_w4_3-7
DC014_W4_4_1	Specific Result from dc014_w4_4-7
DC014_W4_5	Reason for Missing from dc014_w4_4-7
DC014_W4_5_1	Specific Result from dc014_w4_5-7

<b>Date Naming</b>
--------------------

Wave	Variable	Label	Type
1	R1MO	r1mo:w1 r cognition date naming-month	Categ
2	R2MO	r2mo:w2 r cognition date naming-month	Categ
3	R3MO	r3mo:w3 r cognition date naming-month	Categ
4	R4MO	r4mo:w4 r cognition date naming-month	Categ
1	S1MO	s1mo:w1 s cognition date naming-month	Categ
2	S2MO	s2mo:w2 s cognition date naming-month	Categ
3	S3MO	s3mo:w3 s cognition date naming-month	Categ
4	S4MO	s4mo:w4 s cognition date naming-month	Categ
1	R1DY	r1dy:w1 r cognition date naming-day of month	Categ
2	R2DY	r2dy:w2 r cognition date naming-day of month	Categ
3	R3DY	r3dy:w3 r cognition date naming-day of month	Categ
4	R4DY	r4dy:w4 r cognition date naming-day of month	Categ
1	S1DY	s1dy:w1 s cognition date naming-day of month	Categ
2	S2DY	s2dy:w2 s cognition date naming-day of month	Categ
3	S3DY	s3dy:w3 s cognition date naming-day of month	Categ
4	S4DY	s4dy:w4 s cognition date naming-day of month	Categ
1	R1YR	r1yr:w1 r cognition date naming-year	Categ
2	R2YR	r2yr:w2 r cognition date naming-year	Categ
3	R3YR	r3yr:w3 r cognition date naming-year	Categ
4	R4YR	r4yr:w4 r cognition date naming-year	Categ
1	S1YR	s1yr:w1 s cognition date naming-year	Categ
2	S2YR	s2yr:w2 s cognition date naming-year	Categ
3	S3YR	s3yr:w3 s cognition date naming-year	Categ
4	S4YR	s4yr:w4 s cognition date naming-year	Categ
1	R1DW	r1dw:w1 r cognition date naming-day of week	Categ
2	R2DW	r2dw:w2 r cognition date naming-day of week	Categ
3	R3DW	r3dw:w3 r cognition date naming-day of week	Categ
4	R4DW	r4dw:w4 r cognition date naming-day of week	Categ
1	S1DW	s1dw:w1 s cognition date naming-day of week	Categ
2	S2DW	s2dw:w2 s cognition date naming-day of week	Categ
3	S3DW	s3dw:w3 s cognition date naming-day of week	Categ
4	S4DW	s4dw:w4 s cognition date naming-day of week	Categ
1	R1ORIENT	r1orient:w1 r cognition orient (summary date naming)	Cont
2	R2ORIENT	r2orient:w2 r cognition orient (summary date naming)	Cont
3	R3ORIENT	r3orient:w3 r cognition orient (summary date naming)	Cont
4	R4ORIENT	r4orient:w4 r cognition orient (summary date naming)	Cont
1	S1ORIENT	s1orient:w1 s cognition orient (summary date naming)	Cont
2	S2ORIENT	s2orient:w2 s cognition orient (summary date naming)	Cont
3	S3ORIENT	s3orient:w3 s cognition orient (summary date naming)	Cont
4	S4ORIENT	s4orient:w4 s cognition orient (summary date naming)	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MO	15137	0.89	0.31	0.00	1.00
R2MO	15089	0.88	0.33	0.00	1.00
R3MO	18353	0.88	0.33	0.00	1.00
R4MO	17831	0.90	0.30	0.00	1.00
S1MO	12859	0.90	0.30	0.00	1.00
S2MO	12892	0.88	0.32	0.00	1.00
S3MO	15743	0.88	0.32	0.00	1.00
S4MO	14955	0.91	0.29	0.00	1.00

R1DY	15137	0.77	0.42	0.00	1.00
R2DY	15089	0.74	0.44	0.00	1.00
R3DY	18353	0.73	0.45	0.00	1.00
R4DY	16973	0.68	0.47	0.00	1.00
S1DY	12859	0.78	0.42	0.00	1.00
S2DY	12892	0.74	0.44	0.00	1.00
S3DY	15743	0.73	0.44	0.00	1.00
S4DY	14259	0.69	0.46	0.00	1.00
R1YR	15137	0.76	0.42	0.00	1.00
R2YR	15089	0.81	0.39	0.00	1.00
R3YR	18353	0.80	0.40	0.00	1.00
R4YR	17079	0.79	0.41	0.00	1.00
S1YR	12859	0.78	0.42	0.00	1.00
S2YR	12892	0.82	0.38	0.00	1.00
S3YR	15743	0.82	0.38	0.00	1.00
S4YR	14366	0.81	0.39	0.00	1.00
R1DW	15137	0.61	0.49	0.00	1.00
R2DW	15089	0.68	0.47	0.00	1.00
R3DW	18353	0.68	0.47	0.00	1.00
R4DW	16675	0.66	0.47	0.00	1.00
S1DW	12859	0.62	0.49	0.00	1.00
S2DW	12892	0.69	0.46	0.00	1.00
S3DW	15743	0.69	0.46	0.00	1.00
S4DW	14009	0.67	0.47	0.00	1.00
R1ORIENT	15137	3.04	1.09	0.00	4.00
R2ORIENT	15089	3.10	1.11	0.00	4.00
R3ORIENT	18353	3.08	1.11	0.00	4.00
R4ORIENT	17966	2.89	1.14	0.00	4.00
S1ORIENT	12859	3.08	1.07	0.00	4.00
S2ORIENT	12892	3.14	1.10	0.00	4.00
S3ORIENT	15743	3.12	1.09	0.00	4.00
S4ORIENT	15054	2.95	1.11	0.00	4.00

### Categorical Variable Codes

Value-----	R1MO	R2MO	R3MO	R4MO
.d:dk	921		1146	
.m:missing	165	3048	329	725
.n:Not assessed				316
.p:proxy	1471	475	1259	944
.r:refuse	14		10	
0.No	1611	1828	2250	1784
1.Yes	13526	13261	16103	16047

Value-----	S1MO	S2MO	S3MO	S4MO
.d:dk	705		856	
.m:missing	67	2314	178	462
.n:Not assessed				226
.p:proxy	1270	374	939	719
.r:refuse	9		8	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	1297	1509	1833	1379
1.Yes	11562	11383	13910	13576

Value-----	R1DY	R2DY	R3DY	R4DY
.d:dk	921		1146	
.m:missing	165	3048	329	725
.n:Not assessed				1175

.p:proxy	1471	475	1259	943
.r:refuse	14		10	
0.No	3458	3972	5017	5488
1.Yes	11679	11117	13336	11485
Value-----	S1DY	S2DY	S3DY	S4DY
.d:dk	705		856	
.m:missing	67	2314	178	462
.n:Not assessed				922
.p:proxy	1270	374	939	719
.r:refuse	9		8	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	2858	3332	4193	4450
1.Yes	10001	9560	11550	9809
Value-----	R1YR	R2YR	R3YR	R4YR
.d:dk	921		1146	
.m:missing	165	3048	329	724
.n:Not assessed				1070
.p:proxy	1471	475	1259	943
.r:refuse	14		10	
0.No	3568	2890	3643	3620
1.Yes	11569	12199	14710	13459
Value-----	S1YR	S2YR	S3YR	S4YR
.d:dk	705		856	
.m:missing	67	2314	178	462
.n:Not assessed				815
.p:proxy	1270	374	939	719
.r:refuse	9		8	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	2854	2260	2824	2729
1.Yes	10005	10632	12919	11637
Value-----	R1DW	R2DW	R3DW	R4DW
.d:dk	924		1300	
.m:missing	165	3048	176	725
.n:Not assessed				1471
.p:proxy	1471	475	1259	945
.r:refuse	11		9	
0.No	5855	4818	5959	5689
1.Yes	9282	10271	12394	10986
Value-----	S1DW	S2DW	S3DW	S4DW
.d:dk	707		978	
.m:missing	67	2314	58	462
.n:Not assessed				1170
.p:proxy	1270	374	939	721
.r:refuse	7		6	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	4866	4044	4942	4629
1.Yes	7993	8848	10801	9380

### How Constructed:

RwDY indicates whether the respondent is able to recall the day of the month correctly. RwMO indicates whether the respondent is able to recall the month correctly. RwYR indicates whether the respondent is able to recall the year correctly. RwDW indicates whether the respondent is able to recall the day of the week correctly. At Waves 1 to 3, the CHARLS data only indicates an correct response to each question and does not indicate whether the respondent answered these questions incorrectly, so incorrect values (code of 0) are assigned in the case the respondent provided a correct answer to at least one of the other three questions but not that specific question. For example, RwDY is assigned 0 if the respondent provided a correct answer to RwMO, RwYR, or RwDW but did not have a record of answering RwDY correctly. Starting at Wave 4, the CHARLS data include indicators of both correct or incorrect responses allowing for incorrect values (code of 0) to be



assigned more accurately. At all waves correct responses are assigned a code of 1. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. At Wave 4, special missing value (.n) is assigned if the question was "not assessed". Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwdY, RwmO, RwyR, and RwdW are coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides an overall wave indicator of whether the interview was done by proxy. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Waves 2 and 4.

SwDY indicates whether the respondent's spouse is able to recall the day of the month correctly. SwMO indicates whether the respondent's spouse is able to recall the month correctly. SwYR indicates whether the respondent's spouse is able to recall the year correctly. SwDW indicates whether the respondent's spouse is able to recall the day of the week correctly. SwDY, SwMO, SwYR, and SwDW are taken from the spouse's value to RwdY, RwmO, RwyR, and RwdW, respectively. In addition to the special missing values used in RwdY, RwmO, RwyR, and RwdW, SwDY, SwMO, SwYR, and SwDW employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwORIENT indicates the respondent's orientation to day of month, month, year, and day of week. RwORIENT is the summary measure of RwdY, RwmO, RwyR, and RwdW, ranging from 0 to 4, with four indicating all questions answered correctly. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. At Wave 4, special missing value (.n) is assigned if the question was "not assessed". Refused and missing responses are assigned special missing values (.r) and (.m), respectively. RwORIENT is coded as blank missing (.) if the respondent did not respond to this wave.

SwORIENT indicates the respondent's spouse's orientation to day of month, month, year, and day of week. SwORIENT is taken from the spouse's value to RwORIENT. In addition to the special missing values used in RwORIENT, SwORIENT employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 to 3, the CHARLS data only indicates an correct response to each question and does not indicate whether the respondent answered these questions incorrectly. Starting at Wave 4, the CHARLS data include indicators of both correct or incorrect responses. Wave 4 also includes a coded value of "not assessed" for each date naming question.

The current release of the CHARLS data includes a large number of missing responses at Wave 2 to the questions asking the respondent to recall today's date correctly, including the day of month, month, year, and day of week, respectively.

## Differences with the RAND HRS/Harmonized HRS

A cognition orientation (summary date naming) variable is not included in the HRS.

### CHARLS Variables Used:

#### Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC001S1	Year Is Correct
DC001S2	Month Is Correct
DC001S3	Day Is Correct
DC002	Checking Day of Week
PROXY	interview done by proxy

#### Wave 2:

DB032	Receive Assistance
DC001S1	Checking Date
DC001S2	Checking Date
DC001S3	Checking Date
DC002	Checking Day of Week

#### Wave 3:

DB032	Receive Assistance
-------	--------------------

---

DC001S1	checking date
DC001S2	checking date
DC001S3	checking date
DC002	Checking day of week
PROXY	Proxy Mode or Not

## Wave 4:

DB032	How often the Respondent Receive Assistance
DC001_W4	Checking Year
DC003_W4	Checking Date
DC005_W4	Checking Day
DC006_W4	Checking Month

<b>Drawing Picture</b>
------------------------

Wave	Variable	Label	Type
1	R1DRAW	r1draw:w1 r cognition able to draw assign picture	Categ
2	R2DRAW	r2draw:w2 r cognition able to draw assign picture	Categ
3	R3DRAW	r3draw:w3 r cognition able to draw assign picture	Categ
4	R4DRAW	r4draw:w4 r cognition able to draw assign picture	Categ
1	S1DRAW	s1draw:w1 s cognition able to draw assign picture	Categ
2	S2DRAW	s2draw:w2 s cognition able to draw assign picture	Categ
3	S3DRAW	s3draw:w3 s cognition able to draw assign picture	Categ
4	S4DRAW	s4draw:w4 s cognition able to draw assign picture	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRAW	15828	0.63	0.48	0.00	1.00
R2DRAW	16366	0.65	0.48	0.00	1.00
R3DRAW	19240	0.65	0.48	0.00	1.00
R4DRAW	15542	0.61	0.49	0.00	1.00
S1DRAW	13397	0.65	0.48	0.00	1.00
S2DRAW	13882	0.68	0.47	0.00	1.00
S3DRAW	16405	0.67	0.47	0.00	1.00
S4DRAW	13262	0.63	0.48	0.00	1.00

### Categorical Variable Codes

Value-----	R1DRAW	R2DRAW	R3DRAW	R4DRAW
.d:dk	95		176	
.m:missing	173	1769	193	728
.n:Not assessed				2593
.p:proxy	1473	477	1259	953
.r:refuse	139		229	
0.No	5824	5696	6810	6033
1.Yes	10004	10670	12430	9509

  

Value-----	S1DRAW	S2DRAW	S3DRAW	S4DRAW
.d:dk	69		131	
.m:missing	68	1322	64	462
.n:Not assessed				1913
.p:proxy	1272	376	938	725
.r:refuse	104		186	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	4643	4489	5393	4963
1.Yes	8754	9393	11012	8299

### How Constructed:

RwDRAW indicates whether the respondent is able copy an assigned picture: two overlapping pentagons. RwdRAW is assigned 0 if the respondent fails to draw the picture. RwdRAW is assigned 1 if the respondent draws the picture. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. At Wave 4, special missing value (.n) is assigned if the question was "not assessed". Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwdRAW is coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides an overall wave indicator of whether the interview was done by proxy. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Waves 2 and 4.

SwDRAW indicates whether the respondent's spouse is able copy an assigned picture: two overlapping pentagons. SwDRAW is taken from the spouse's value to RwDRAW. In addition to the special missing values used in RwDRAW, SwDRAW employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

The wave 4 data include a coded value of "not assessed" for the overlapping pentagons drawing test. There are a large number of respondents who were coded this wave in the Wave 4 data but reason is not apparent from the CHARLS Wave 4 questionnaire.

The current release of the CHARLS data includes a large number of missing responses at Waves 2 and 4 to the questions asking the respondent to copy a picture of two overlapping pentagons.

### Differences with the RAND HRS/Harmonized HRS

This question is not asked in the HRS.

### CHARLS Variables Used:

#### Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC025	Drew the Picture or Failed
PROXY	interview done by proxy

#### Wave 2:

DB032	Receive Assistance
DC025	Draw Picture

#### Wave 3:

DB032	Receive Assistance
DC025	Draw picture
PROXY	Proxy Mode or Not

#### Wave 4:

DB032	How often the Respondent Receive Assistance
DC024_W4	Draw Correct

<b>Total Recall Summary Score</b>
-----------------------------------

Wave	Variable	Label	Type
1	R1TR20	r1tr20:w1 r recall summary score	Cont
2	R2TR20	r2tr20:w2 r recall summary score	Cont
3	R3TR20	r3tr20:w3 r recall summary score	Cont
4	R4TR20	r4tr20:w4 r recall summary score	Cont
1	S1TR20	s1tr20:w1 s recall summary score	Cont
2	S2TR20	s2tr20:w2 s recall summary score	Cont
3	S3TR20	s3tr20:w3 s recall summary score	Cont
4	S4TR20	s4tr20:w4 s recall summary score	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1TR20	14010	7.25	3.38	0.00	20.00
R2TR20	15699	7.34	3.48	0.00	20.00
R3TR20	18909	6.80	3.73	0.00	20.00
R4TR20	15688	7.70	4.39	0.00	20.00
S1TR20	11987	7.36	3.35	0.00	20.00
S2TR20	13398	7.50	3.44	0.00	20.00
S3TR20	16166	7.03	3.67	0.00	20.00
S4TR20	13359	7.98	4.33	0.00	20.00

### How Constructed:

RwTR20 is the respondent's total word recall score. RwTR20 is the sum of RwIMRC and RwDLRC. RwTR20 is only calculated for respondents who have non-missing values for both RwIMRC and RwDLRC. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwIMRC is coded as blank missing (.) if the respondent did not respond to this wave.

SwTR20 is the respondent's spouse's total word recall score. SwTR20 is taken from the spouse's value to RwTR20. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Waves 1 to 3, respondents are randomly assigned to recall one of four 10-word lists. Starting at Wave 4, all respondents are asked to recall the same 10 words: butter, arm, shore, letter, queen, cabin, pole, ticket, grass, and engine.

The current release of the CHARLS data includes a large number of missing responses at Waves 1 and 2 to the questions asking the respondent to recall a 10-word list both immediately and after a delayed time spent answering other survey questions.

### Differences with the RAND HRS/Harmonized HRS

The word lists at CHARLS Waves 1 to 3 are different from the HRS. However, the word list at CHARLS Wave 4 is the same list used in the HRS-HCAP. Starting at HRS Wave 3, the word list was randomly assigned, which is similar to CHARLS Waves 1 to 3.

### CHARLS Variables Used:

Wave	Variable	Description
1:	DB032	How Often Did the Respondent Receive Assistance
	DC006S1	DISPLAY VIDEO
	DC006S10	DISPLAY VIDEO
	DC006S11	DISPLAY VIDEO

DC006S2	DISPLAY VIDEO
DC006S3	DISPLAY VIDEO
DC006S4	DISPLAY VIDEO
DC006S5	DISPLAY VIDEO
DC006S6	DISPLAY VIDEO
DC006S7	DISPLAY VIDEO
DC006S8	DISPLAY VIDEO
DC006S9	DISPLAY VIDEO
DC027S1	Recall Words
DC027S10	Recall Words
DC027S11	Recall Words
DC027S2	Recall Words
DC027S3	Recall Words
DC027S4	Recall Words
DC027S5	Recall Words
DC027S6	Recall Words
DC027S7	Recall Words
DC027S8	Recall Words
DC027S9	Recall Words
PROXY	interview done by proxy

## Wave 2:

DB032	Receive Assistance
DC006_1_S1	Recalled Words
DC006_1_S10	Recalled Words
DC006_1_S11	Recalled Words
DC006_1_S2	Recalled Words
DC006_1_S3	Recalled Words
DC006_1_S4	Recalled Words
DC006_1_S5	Recalled Words
DC006_1_S6	Recalled Words
DC006_1_S7	Recalled Words
DC006_1_S8	Recalled Words
DC006_1_S9	Recalled Words
DC006_2_S1	Recalled Words
DC006_2_S10	Recalled Words
DC006_2_S11	Recalled Words
DC006_2_S2	Recalled Words
DC006_2_S3	Recalled Words
DC006_2_S4	Recalled Words
DC006_2_S5	Recalled Words
DC006_2_S6	Recalled Words
DC006_2_S7	Recalled Words
DC006_2_S8	Recalled Words
DC006_2_S9	Recalled Words
DC006_3_S1	Recalled Words
DC006_3_S10	Recalled Words
DC006_3_S11	Recalled Words
DC006_3_S2	Recalled Words
DC006_3_S3	Recalled Words
DC006_3_S4	Recalled Words
DC006_3_S5	Recalled Words
DC006_3_S6	Recalled Words
DC006_3_S7	Recalled Words
DC006_3_S8	Recalled Words
DC006_3_S9	Recalled Words
DC027S1	Recall Words
DC027S10	Recall Words
DC027S11	Recall Words
DC027S2	Recall Words
DC027S3	Recall Words
DC027S4	Recall Words
DC027S5	Recall Words
DC027S6	Recall Words
DC027S7	Recall Words
DC027S8	Recall Words
DC027S9	Recall Words

## Wave 3:

DB032	Receive Assistance
DC006S1	Recalled Words

DC006S10	Recalled Words
DC006S11	Recalled Words
DC006S12	Recalled Words
DC006S2	Recalled Words
DC006S3	Recalled Words
DC006S4	Recalled Words
DC006S5	Recalled Words
DC006S6	Recalled Words
DC006S7	Recalled Words
DC006S8	Recalled Words
DC006S9	Recalled Words
DC027S1	Recall Words
DC027S10	Recall Words
DC027S11	Recall Words
DC027S12	Recall Words
DC027S2	Recall Words
DC027S3	Recall Words
DC027S4	Recall Words
DC027S5	Recall Words
DC027S6	Recall Words
DC027S7	Recall Words
DC027S8	Recall Words
DC027S9	Recall Words
PROXY	Proxy Mode or Not

## Wave 4:

DB032	How often the Respondent Receive Assistance
DC028_W4_1	Reasons for Rufused Word Recall Test
DC028_W4_S1	Word Recall 1st: Butter
DC028_W4_S10	Word Recall 1st: Engine
DC028_W4_S11	Word Recall 1st: None
DC028_W4_S12	Word Recall 1st: Refused to Recall
DC028_W4_S2	Word Recall 1st: Arm
DC028_W4_S3	Word Recall 1st: Shore
DC028_W4_S4	Word Recall 1st: Letter
DC028_W4_S5	Word Recall 1st: Queen
DC028_W4_S6	Word Recall 1st: Cabin
DC028_W4_S7	Word Recall 1st: Pole
DC028_W4_S8	Word Recall 1st: Ticket
DC028_W4_S9	Word Recall 1st: Grass
DC047_W4_S1	Delayed Recall: Shore
DC047_W4_S10	Delayed Recall: Queen
DC047_W4_S11	Delayed Recall: None
DC047_W4_S12	Delayed Recall: Refused to Recall
DC047_W4_S2	Delayed Recall: Letter
DC047_W4_S3	Delayed Recall: Arm
DC047_W4_S4	Delayed Recall: Cabin
DC047_W4_S5	Delayed Recall: Pole
DC047_W4_S6	Delayed Recall: Ticket
DC047_W4_S7	Delayed Recall: Engine
DC047_W4_S8	Delayed Recall: Grass
DC047_W4_S9	Delayed Recall: Butter

## **Section E: Financial and Housing Wealth**



<b>Inflation Multiplier</b>
-----------------------------

Wave	Variable	Label	Type
1	C2009CPINDEX	2009 consumer price index, 2010=100	Cont
1	C2010CPINDEX	2010 consumer price index, 2010=100	Cont
1	C2011CPINDEX	2011 consumer price index, 2010=100	Cont
1	C2012CPINDEX	2012 consumer price index, 2010=100	Cont
1	C2013CPINDEX	2013 consumer price index, 2010=100	Cont
1	C2014CPINDEX	2014 consumer price index, 2010=100	Cont
1	C2015CPINDEX	2015 consumer price index, 2010=100	Cont
1	C2016CPINDEX	2016 consumer price index, 2010=100	Cont
1	C2017CPINDEX	2017 consumer price index, 2010=100	Cont
1	C2018CPINDEX	2018 consumer price index, 2010=100	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
C2009CPINDEX	25586	96.90	0.00	96.90	96.90
C2010CPINDEX	25586	100.00	0.00	100.00	100.00
C2011CPINDEX	25586	105.60	0.00	105.60	105.60
C2012CPINDEX	25586	108.30	0.00	108.30	108.30
C2013CPINDEX	25586	111.20	0.00	111.20	111.20
C2014CPINDEX	25586	113.30	0.00	113.30	113.30
C2015CPINDEX	25586	114.90	0.00	114.90	114.90
C2016CPINDEX	25586	117.20	0.00	117.20	117.20
C2017CPINDEX	25586	119.10	0.00	119.10	119.10
C2018CPINDEX	25586	121.60	0.00	121.60	121.60

### General Comments:

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

### How Constructed:

CyyyyCPINDEX is the annual consumer price index for the year yyyy as indicated in the variable name. CyyyyCPINDEX uses 2010 as its base year so the consumer price index for 2010 is 100. This consumer price index can be used as an inflation multiplier when comparing financial values between different survey years.

CyyyyCPINDEX values were provided by the OECD as part of the Consumer Price (MEI) dataset. The index measures monthly changes in the general level of prices of goods and services that households acquire for consumption. For more information on the calculation of the consumer price index see <https://data.oecd.org/price/inflation-cpi.htm>

### Cross Wave Differences in CHARLS

No differences known.

---

**Differences with the RAND HRS/Harmonized HRS**

Consumer price index values are not included in the RAND HRS.

**Individual value of cash and savings accounts**

Wave	Variable	Label	Type
1	H1ACHCK	h1achck:w1 Asset: r+s cash, checking and saving acct	Cont
2	H2ACHCK	h2achck:w2 Asset: r+s cash, checking and saving acct	Cont
3	H3ACHCK	h3achck:w3 Asset: r+s cash, checking and saving acct	Cont
4	H4ACHCK	h4achck:w4 Asset: r+s cash, checking and saving acct	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ACHCK	15583	10277.38	70392.02	0.00	4100000.00
H2ACHCK	12397	18579.88	82663.76	0.00	4030000.00
H3ACHCK	15833	29798.13	132455.96	0.00	8001500.00
H4ACHCK	17696	45673.60	1074193.76	0.00	100060000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HwACHCK indicates the total value of cash and deposits in financial institutions (e.g. bank, credit union) at the couple level. HwACHCK is derived from the summary of respondent's and spouse's value of cash and deposits. At Wave 4, HwACHCK also includes respondent's and spouse's value of electronic money (e.g. WeChat Wallet, Alipay), excluding products that generate revenue (e.g. Yu'eobao). HwACHCK is assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwACHCK is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Waves 1 and 2, respondents are asked to report the amount of cash held by them and their spouse at home. If the respondent is married, they are asked to identify how much of that value they own as a real value or percentage. If the cash is jointly owned, the respondent is suggested to report they own 50% of the cash.

Starting at Wave 3, respondents are asked to report the amount of cash held by them and their spouse at home.

At Wave 1, respondents are asked whether they currently hold any deposits in financial institutions (e.g. bank, credit union) in their name. If the respondent reports holding deposits, they are asked to report the total amount of those deposits.

Starting at Wave 2, respondents are asked to report the total amount of deposits they currently hold in financial institutions.

At Wave 4, respondents are asked to report the amount of electronic money held by them (e.g. WeChat Wallet, Alipay), excluding products that generate revenue (e.g. Yu'eobao).

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files.

### Differences with the RAND HRS/Harmonized HRS

Value of cash and saving in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the RAND HRS, HwACHCK includes the values of checking, savings and money market accounts. In CHARLS, HwACHCK includes the value of cash, electronic money and deposits in the financial institutions. There is no mention of money market accounts in CHARLS.

### CHARLS Variables Used:

#### Wave 1:

BE001	marital status
HC001	HOW MUCH CASH ARE YOU HOLDING
HC003_1	AMOUNT
HC003_2	PERCENT
HC004	ARE YOU CURRENTLY HOLDING ANY DEPOSIT
HC005	WHAT IS THE TOTAL AMOUNT OF DEPOSITS
PROXY	interview done by proxy

#### Wave 2:

BE001	Martial Status
HC001	Amount of Cash
HC003_1	Ownership of Cash: Yuan
HC003_2	Ownership of Cash: Percent
HC005	Amount of Deposit
HD012	Receive Assistance in Answering

#### Wave 3:

BE001	Martial Status
HC001	Amount of Cash
HC005	Amount of Deposit

#### Wave 4:

HC001	Cash at Home
HC003_w4	Electronic Money
HC005	Deposit

**Individual value of stocks and mutual funds**

Wave	Variable	Label	Type
1	H1ASTCK	h1astck:w1 Asset: r+s stocks and mutual funds	Cont
2	H2ASTCK	h2astck:w2 Asset: r+s stocks and mutual funds	Cont
3	H3ASTCK	h3astck:w3 Asset: r+s stocks and mutual funds	Cont
4	H4ASTCK	h4astck:w4 Asset: r+s stocks and mutual funds	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ASTCK	16794	1242.97	45657.44	0.00	4000000.00
H2ASTCK	14922	1337.38	19766.52	0.00	1100000.00
H3ASTCK	18030	2044.41	29012.48	0.00	1500000.00
H4ASTCK	19136	2715.58	63394.39	0.00	5500000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HwASTCK indicates the total value of stocks and mutual funds at the couple level. HwASTCK is derived from the summary of respondent's and spouse's value of stocks and mutual funds. HwASTCK is assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwASTCK is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Waves 1 to 3, respondents are asked whether they held any stocks in the past year in their name, excluding equity or stock from the respondent's work unit. If the respondent reports having held stocks, they are asked to report the present market value of the stocks they are currently holding.

At Wave 4, respondents are asked whether they currently hold any stocks in their name. If the respondent reports holding stocks, they are asked to report the present market value of those stocks.

At Waves 1 to 3, respondents are asked whether they held any mutual funds in the past year in their name. If the respondent reports having held mutual funds, they are asked to report the present market value of the mutual funds they are currently holding.

At Wave 4, respondents are asked whether they currently hold any mutual funds in their name. If the respondent reports holding stocks, they are asked to report the present market value of those mutual funds.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files.

## Differences with the RAND HRS/Harmonized HRS

Total value of stocks and mutual funds in the CHARLS are measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The wording is somewhat different between the HRS and the CHARLS. The HRS asks respondents the value of stocks, mutual funds if sold off and paid off anything owed on it while the CHARLS asks respondents the present market value of all stocks and mutual funds that they are currently holding.

### CHARLS Variables Used:

#### Wave 1:

HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
HC013	WHAT IS THE PRESENT MARKET VALUE OF YOUR STOCKS
HC018	WHAT IS THE PRESENT MARKET VALUE OF YOUR FUNDS
PROXY	interview done by proxy

#### Wave 2:

HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HD012	Receive Assistance in Answering

#### Wave 3:

HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds

#### Wave 4:

HC010	Own Stock
HC013	Stock
HC015	Own Mutual Fund
HC018	Mutual Fund

**Individual value of government bonds**

Wave	Variable	Label	Type
1	H1ABOND	h1abond:w1 Asset: r+s government bonds	Cont
2	H2ABOND	h2abond:w2 Asset: r+s government bonds	Cont
3	H3ABOND	h3abond:w3 Asset: r+s government bonds	Cont
4	H4ABOND	h4abond:w4 Asset: r+s government bonds	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ABOND	16791	114.26	2905.54	0.00	150000.00
H2ABOND	14933	137.41	3422.48	0.00	200000.00
H3ABOND	18037	150.64	5265.16	0.00	400000.00
H4ABOND	19145	340.99	12248.96	0.00	1000000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HwABOND indicates the total value of government bonds at couple level. HwABOND is derived from the summary of respondent's and spouse's value of government bonds. HwABOND is assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwABOND is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files.

**Differences with the RAND HRS/Harmonized HRS**

Value of government bonds in the CHARLS is measured in China's currency Yuan whereas the equivalent measure in the RAND HRS in current dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Unlike the HRS, the CHARLS only asks the amount of government bond while the HRS asks respondents about money in corporate, municipal, government, or foreign bonds, or any bond funds.

**CHARLS Variables Used:**

Wave 1:	
HC007	DO YOU HAVE ANY GOVERNMENT BONDS
HC008	WHAT IS THE TOTAL FACE VALUE OF GOVERNMENT BONDS
PROXY	interview done by proxy
Wave 2:	
HC007	Government Bonds

---

HC008	Face Value of Government Bonds
HD012	Receive Assistance in Answering
Wave 3:	
HC007	Government Bonds
HC008	Face Value of Government Bonds
Wave 4:	
HC007	Own Bond
HC008	Bond



**Individual value of all other savings**

Wave	Variable	Label	Type
1	H1AOTHR	h1aothr:w1 Asset: r+s all other savings	Cont
2	H2AOTHR	h2aothr:w2 Asset: r+s all other savings	Cont
3	H3AOTHR	h3aothr:w3 Asset: r+s all other savings	Cont
4	H4AOTHR	h4aothr:w4 Asset: r+s all other savings	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AOTHR	16503	1638.49	12575.40	0.00	700000.00
H2AOTHR	14610	2896.02	39119.81	0.00	3000000.00
H3AOTHR	17639	8126.34	168256.20	0.00	10000000.00
H4AOTHR	18840	10321.04	93982.76	0.00	3980000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HwAOTHR indicates the total values of all other savings at the couple level. HwAOTHR is derived from the summary of respondent's and spouse's value of public housing fund; Jizikuan; unpaid salary; and other deposits, stocks, and bonds, or funds that belong to the respondent or spouse but are held in another person's name. At Wave 4, HwAOTHR also includes respondent's and spouse's value of other wealth management products (e.g. Yu'ebao, P2P, income insurance) in addition to deposits, bonds, stocks, and funds. HwAOTHR is assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwAOTHR is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Wave 4, respondents are asked whether they have any other wealth management products (e.g. Yu'ebao, P2P, income insurance) in addition to deposits, bonds, stocks, and funds. If the respondent reports having other wealth management products, they are asked to report the present market value of those products.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3 and Wave 4 Individual Income files.

**Differences with the RAND HRS/Harmonized HRS**

Value of all other savings in the CHARLS are measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the HRS, respondents report all other savings or assets, such as jewelry, money owned to you by others, a collection for investment purposes, and rights in a trust or estate where you are the

beneficiary, or an annuity as one value. HRS respondents are also told to report the net amount which is the value if sold and then paid off any debts on it.

In the CHARLS, HwAOTHR includes the value of public housing fund and Jizikuan which are unique in China. Jizikuan is fund individuals provided to the work unit for the purpose of investment, building apartment and etc.

### CHARLS Variables Used:

#### Wave 1:

HC004	ARE YOU CURRENTLY HOLDING ANY DEPOSIT
HC007	DO YOU HAVE ANY GOVERNMENT BONDS
HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
HC015	HAVE YOU HELD ANY FUNDS IN THE PAST YEAR
HC021	other deposits
HC022	What is the value of such assets? (yuan)
HC027	DO YOU HAVE PUBLIC HOUSING FUND
HC028	WHAT IS THE TOTAL AMOUNT OF MONEY IN PUBLIC HOUSING FUND
HC030	DO YOU HAVE JIZIKUAN ARE STILL HOLDING
HC031	WHAT IS THE AMOUNT OF YOUR JIZIKUAN
HC033	DO YOU HAVE ANY UNPAID SALARY
HC034	WHAT IS THE AMOUNT OF YOUR UNPAID SALARY

#### Wave 2:

HC005	Amount of Deposit
HC007	Government Bonds
HC010	Stocks
HC015	Funds
HC021	Other Assets Not under Name
HC022	Value of Other Assets
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary

#### Wave 3:

HC005	Amount of Deposit
HC007	Government Bonds
HC010	Stocks
HC015	Funds
HC021	Other Assets Not under Name
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary

#### Wave 4:

HC005	Deposit
HC007	Own Bond
HC010	Own Stock
HC015	Own Mutual Fund
HC016_W4	Own Other Financial Products
HC017_W4	Other Financial Products
HC021	Any Financial Products Under Other Person's Name
HC022	Value of Financial Products Under Other Person's Name
HC027	Own Public Housing Funding
HC028	Public Housing Funding
HC030	Own Jizikuan
HC031	Jizikuan
HC033	Have Unpaid Salary
HC034	Unpaid Salary

**Individual value of other debt**

Wave	Variable	Label	Type
1	H1ADEBT	h1adebt:w1 Asset: r+s debt	Cont
2	H2ADEBT	h2adebt:w2 Asset: r+s debt	Cont
3	H3ADEBT	h3adebt:w3 Asset: r+s debt	Cont
4	H4ADEBT	h4adebt:w4 Asset: r+s debt	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ADEBT	16777	6361.02	39182.76	0.00	1000000.00
H2ADEBT	14841	20680.81	104508.49	0.00	5000000.00
H3ADEBT	17784	32763.14	1061278.26	0.00	140040000.00
H4ADEBT	17821	26744.97	167248.39	0.00	8550050.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HwADEBT indicates the total value of debt at the couple level. At Wave 1, HwADEBT is derived from the summary of respondent's and spouse's value of unpaid loans (not including loans for house) and credit card debt. Starting at Wave 2, HwADEBT also includes respondent's and spouse's value of unpaid personal loans. Starting at Wave 3, HwADEBT also includes respondent's and spouse's unpaid bank loans for house. HwDEBT is assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwADEBT is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Wave 2, respondents are asked to report the total amount of personal loans that remain unpaid.

Starting at Wave 3, respondents are asked to report the amount of money they owe to other families, individuals, or employers.

Starting at Wave 3, respondents are asked whether they or other household members obtained any bank loans to finance the purchase of houses that are currently owned by respondent and spouse. If the respondent reports obtaining any bank loans, they are then asked to report the outstanding amount of those loans. Please note that previous waves of CHARLS ask the value of loans taken out on primary and secondary residences separately.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3 and Wave 4 Individual Income files.

**Differences with the RAND HRS/Harmonized HRS**

Value of other debt in CHARLS are measured in China's currency Yuan whereas the equivalent measure

in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the HRS, respondents report any debt from credit card balances, medical debts, life insurance policy loans, loans from relatives, and so forth. In the CHARLS, HwADEBT includes credit card balances, loans for house, personal loans, and other loans (not including loan for house) without further specification.

### CHARLS Variables Used:

#### Wave 1:

HD001	total of loans not repaid yet
HD003	CREDIT CARD BALANCE
PROXY	interview done by proxy

#### Wave 2:

HD001	Amount of Unpaid Loan
HD002_W2_1	Amount of Personal Borrowing
HD003	Credit Card Balance
HD012	Receive Assistance in Answering

#### Wave 3:

HA054_W3	The Bank Loan to Finance The Purchase Houses
HA055_W3	The Outstanding Amount of The Loans
HD001	Amount of Unpaid Loan
HD003	Credit Card Balance
HD004_W3	Credit Card Balance

#### Wave 4:

HA054_W3	Bank Load to Purchase Houses
HA055_W3	Amount of Bank Load
HD001	Loan
HD003	Credit Card Balance
HD004_W3	Other Borrowing

**Total non-housing financial wealth**

Wave	Variable	Label	Type
1	H1ATOTFA	h1atotfa:w1 asset: r+s total individual financial assets	Cont
2	H2ATOTFA	h2atotfa:w2 asset: r+s total individual financial assets	Cont
3	H3ATOTFA	h3atotfa:w3 asset: r+s total individual financial assets	Cont
4	H4ATOTFA	h4atotfa:w4 asset: r+s total individual financial assets	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTFA	15270	6407.38	92506.90	-1000000.00	4130000.00
H2ATOTFA	12039	1188.67	136349.72	-4999250.00	3105500.00
H3ATOTFA	15220	13678.03	250473.60	-9799000.00	9902500.00
H4ATOTFA	16132	34643.94	1216972.00	-7549750.00	107048000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HwATOTFA indicates the net value of non-housing financial wealth at the couple level.

HwATOTFA is derived by adding the value of following items:

1. HwACHCK is the total value of cash and deposits in financial institutions at the couple level
2. HwASTCK is the total value of stocks and mutual funds at the couple level
3. HwABOND is the total value of government bonds at the couple level
4. HwAOTHR is the total value of all other savings at the couple level

And subtracting:

1. HwADEBT is the total value of debt at the couple level

$$\text{HwATOTFA} = \text{HwACHCK} + \text{HwASTCK} + \text{HwABOND} + \text{HwAOTHR} - \text{HwADEBT}$$

HwATOTFA is assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwTOTFA is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

## Differences with the RAND HRS/Harmonized HRS

These values in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

### CHARLS Variables Used:

#### Wave 1:

BE001	marital status
HC001	HOW MUCH CASH ARE YOU HOLDING
HC003_1	AMOUNT
HC003_2	PERCENT
HC004	ARE YOU CURRENTLY HOLDING ANY DEPOSIT
HC005	WHAT IS THE TOTAL AMOUNT OF DEPOSITS
HC007	DO YOU HAVE ANY GOVERNMENT BONDS
HC008	WHAT IS THE TOTAL FACE VALUE OF GOVERNMENT BONDS
HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
HC013	WHAT IS THE PRESENT MARKET VALUE OF YOUR STOCKS
HC015	HAVE YOU HELD ANY FUNDS IN THE PAST YEAR
HC018	WHAT IS THE PRESENT MARKET VALUE OF YOUR FUNDS
HC021	other deposits
HC022	What is the value of such assets? (yuan)
HC027	DO YOU HAVE PUBLIC HOUSING FUND
HC028	WHAT IS THE TOTAL AMOUNT OF MONEY IN PUBLIC HOUSING FUND
HC030	DO YOU HAVE JIZIKUAN ARE STILL HOLDING
HC031	WHAT IS THE AMOUNT OF YOUR JIZIKUAN
HC033	DO YOU HAVE ANY UNPAID SALARY
HC034	WHAT IS THE AMOUNT OF YOUR UNPAID SALARY
HD001	total of loans not repaid yet
HD003	CREDIT CARD BALANCE
PROXY	interview done by proxy

#### Wave 2:

BE001	Martial Status
HC001	Amount of Cash
HC003_1	Ownership of Cash: Yuan
HC003_2	Ownership of Cash: Percent
HC005	Amount of Deposit
HC007	Government Bonds
HC008	Face Value of Government Bonds
HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HC021	Other Assets Not under Name
HC022	Value of Other Assets
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary
HD001	Amount of Unpaid Loan
HD002_W2_1	Amount of Personal Borrowing
HD003	Credit Card Balance
HD012	Receive Assistance in Answering

#### Wave 3:

BE001	Martial Status
HA054_W3	The Bank Loan to Finance The Purchase Houses
HA055_W3	The Outstanding Amount of The Loans
HC001	Amount of Cash
HC005	Amount of Deposit
HC007	Government Bonds
HC008	Face Value of Government Bonds
HC010	Stocks

HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HC021	Other Assets Not under Name
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary
HD001	Amount of Unpaid Loan
HD003	Credit Card Balance
HD004_W3	Credit Card Balance
Wave 4:	
HA054_W3	Bank Load to Purchase Houses
HA055_W3	Amount of Bank Load
HC001	Cash at Home
HC003_W4	Electronic Money
HC005	Deposit
HC007	Own Bond
HC008	Bond
HC010	Own Stock
HC013	Stock
HC015	Own Mutual Fund
HC016_W4	Own Other Financial Products
HC017_W4	Other Financial Products
HC018	Mutual Fund
HC021	Any Financial Products Under Other Person's Name
HC022	Value of Financial Products Under Other Person's Name
HC027	Own Public Housing Funding
HC028	Public Housing Funding
HC030	Own Jizikuan
HC031	Jizikuan
HC033	Have Unpaid Salary
HC034	Unpaid Salary
HD001	Loan
HD003	Credit Card Balance
HD004_W3	Other Borrowing

**Household net value of other house (not primary residence)**

Wave	Variable	Label	Type
1	HH1ARLES	hh1arles:w1 Asset: HHold Net value of other real estate (not	Cont
2	HH2ARLES	hh2arles:w2 Asset: HHold Net value of other real estate (not	Cont
2	HH2ARLFG	hh2arlfg:w2 Asset: HHold other real estate flag	Categ
3	H3ARLES	h3arles:w3 Asset: r+s Value of other real estate (not primar	Cont
4	H4ARLES	h4arles:w4 Asset: r+s Value of other real estate (not primar	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ARLES	17186	27406.53	1556054.09	-10000.00	144000000.00
HH2ARLES	15764	17728.42	119507.65	-10000.00	4448000.00
HH2ARLFG	15764	1.20	0.51	1.00	3.00
H3ARLES	20333	17538.12	322603.48	0.00	30000000.00
H4ARLES	19695	305724.09	4164171.65	0.00	270000000.00

**Categorical Variable Codes**

Value-----	HH2ARLFG
1.from wave 1	13435
2.from wave 2	1550
3.mixed from wave 1 and 2	779

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

At Waves 1 and 2, HHwARLES is the net value of other real estate at the household level, which is the present market value of other real estate minus the mortgage of other real estate. Financial respondents are asked to report the value of other residential properties and the mortgage of the other residential properties. In the case that the other residential property is not owned in part by the respondent and spouse, but instead only by other household members, the value of the other residential property is not asked.

Starting at Wave 3, HwARLES is the value of other real estate at the couple level. It is reported at the couple level because only the respondent and spouse can be identified as the owners of other real estate. At Wave 3, HwARLES is defined as the present market value of other real estate. Starting at Wave 4, HwARLES is defined as the present market value of all real estate minus the value of the primary residence. HwARLES also does not net out the mortgage value of other real estate because the value of primary and secondary residence mortgages cannot be separated out starting at Wave 3.



For both HHWARLES and HWARLES, the financial respondent reports the present market value of other residential property that is owned by household members for HHWARLES and the respondent and spouse for HWARLES; furthermore, there are two ways for the respondent to report the value of other residential property:

1. Total price
2. Price per square meter

We first take the reported total price. If the value is missing, we then take the reported price per square meter times the size of the property to fill in the missing value. If the respondent indicates not having other residential property then it is assigned a value of zero. If a respondent indicates having other residential property; the reported amount of total value is assigned. Don't know, refused, or other missing responses of HHWARLES and HWARLES are assigned special missing codes .d, .r, .m respectively. HHWARLES and HWARLES are set to plain missing (.) for respondents who did not respond to this wave.

In a few cases where the reported total value of the primary residence was at or over 10,000 it was assumed that the value given was reported in incorrect units and the reported value was divided by 10,000. Also in a few cases where the reported unit price of the primary residence was at or over 1,000 it was assumed that the value given was reported in incorrect units and the reported value was divided by 1,000. Both of these unit adjustments were taken under direction from the CHARLS team.

At Waves 1 and 2, if the financial respondent indicates that the household has taken out a bank loan to finance the purchase, construct or decorate the house then the amount of mortgage is reported. For other houses where a loan has been taken out, HHWARLES is derived by taking the difference of the value of other real estate minus the mortgage of the other real estate.

At Waves 2 and 3, re-interview respondents are not asked how many other residences they own. Instead, respondents are asked how many new residences they obtained since the last wave. At Waves 2 and 3, if the respondent reports the household did not obtain any new house in the past 2 years, CHARLS did not ask the respondent about the current value of other residence or the current value of other house mortgage. In this case, HHWARLES is assigned the value from previous wave. If the respondent reported that they obtained new residences the value of the newly obtained residences are added to the value reported from the previous wave. However, at Wave 3, HWARLES does not incorporate values of other real estate reported in previous waves unless they reported that they had no value of other real estate at the last wave. This change is due to the fact that the values reported at Waves 1 and 2 are for any real estate owned by any household members, not just for the respondent and the spouse, and starting at Wave 3 the value of other real estate is only asked for real estate owned by the respondent and the spouse. Due to this, there are many households at Wave 3 with missing information for HHWARLES and so these households have been assigned special missing .m.

Starting at Wave 4, re-interview respondents are asked the current value of all residences whether or not they obtained any residences in the past 2 years.

HHWARLFG indicates whether the value of HHWARLES is taken from Wave 1 solely, Wave 2 solely, or is based on values reported in both Wave 1 and Wave 2.

## Cross Wave Differences in CHARLS

At Wave 1, respondents are asked whether they and their household members own any other residences, excluding their current (primary) residence. If the respondent reports owning other residences, they are asked how many other residences the respondent and their household members currently own. For each residence, the respondent is asked to report the present market value of the house or the value of a similar house within the same neighborhood. The respondent may report the value of the house as total value or value per square meter. In addition, for each residence, the respondent is asked whether they or their household members obtained a bank loan to finance the purchase, construction, or decoration of the house. If the respondent reports obtaining a bank loan, they are then asked to report the total outstanding amount of that loan.

At Wave 2, re-interview respondents are asked whether they and their household members obtained any new residences since the last wave. If the respondent reports not obtaining any new residences since the last wave, CHARLS does not ask the respondent about the current value of other residences or the current outstanding amount of loans on other residences. If the respondent reports obtaining new residences since the last wave, for each residence, the respondent is asked to report the present market value of the house or the value of a similar house within the same neighborhood. The

respondent may report the value of the house as total value or value per square meter. In addition, for each residence, the respondent is asked whether they or their household members obtained a bank loan to finance the purchase, construction, or decoration of the house. If the respondent reports obtaining a bank loan, they are then asked to report the total outstanding amount of that loan.

At Wave 2, new respondents are asked whether they and their household members own any other residences, excluding their current (primary) residence. If the respondent reports owning other residences, they are asked how many other residences the respondent and their household members currently own. For each residence, the respondent is asked to report the present market value of the house or the value of a similar house within the same neighborhood. The respondent may report the value of the house as total value or value per square meter. In addition, for each residence, the respondent is asked whether they or their household members obtained a bank loan to finance the purchase, construction, or decoration of the house. If the respondent reports obtaining a bank loan, they are then asked to report the total outstanding amount of that loan.

At Wave 3, re-interview respondents are asked whether they and their spouse obtained any new residences since the last wave. If the respondent reports not obtaining any new residences since the last wave, CHARLS does not ask the respondent about the current value of other residences or the current outstanding amount of loans on other residences. If the respondent reports obtaining new residences since the last wave, for each residence, the respondent is asked to report the present market value of the house or the value of a similar house within the same neighborhood. The respondent may report the value of the house as total value or value per square meter.

At Wave 3, new respondents are asked whether they and their spouse own any other residences, excluding their current (primary) residence. If the respondent reports owning other residences, they are asked how many other residences the respondent and their spouse currently own. For each residence, the respondent is asked to report the present market value of the house or the value of a similar house within the same neighborhood. The respondent may report the value of the house as total value or value per square meter.

At Wave 4, re-interview respondents are asked to report the present market value of any other residences owned by the respondent and spouse at the last wave. In addition, re-interview respondents are asked whether they and their spouse own any other residences that have not been reported to CHARLS. For each residence, respondents are asked to report the present market value of the residence. The respondent may report the value of the residence as total value or value per square meter.

At Wave 4, new respondents are asked how many residences are in their and their spouse's name. For each residence, respondents are asked to report the present market value of the residence. The respondent may report the value of the residence as total value or value per square meter.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

## Differences with the RAND HRS/Harmonized HRS

Net value of other residential property in the CHARLS is measured in China's currency Yuan whereas the RAND HRS uses US dollar. Therefore, conversion into a common currency is necessary before comparison of these data.

In the HRS, respondents report the value of main home, second home, and other real estate. However, CHARLS does not distinguish the difference between the value of a second home and other real estate.

In the HRS, the respondent reports the other real estate including rental real estate, land, a partnership, or money owned to you on a land contract or mortgage. However, in the CHARLS, HHWARLES only includes other residential housing units.

## CHARLS Variables Used:

Wave 1:

HA027	OTHER RESIDENCES
HA031_1_S1	percent owned by non household members
HA031_1_S10	percent owned by non household members
HA031_1_S11	percent owned by non household members
HA031_1_S2	percent owned by non household members
HA031_1_S3	percent owned by non household members
HA031_1_S4	percent owned by non household members

HA031_1_S5	percent owned by non household members
HA031_1_S6	percent owned by non household members
HA031_1_S7	percent owned by non household members
HA031_1_S8	percent owned by non household members
HA031_1_S9	percent owned by non household members
HA034_1_1_	TOTAL PRICE
HA034_1_2_	TOTAL PRICE
HA034_1_3_	TOTAL PRICE
HA034_2_1_	UNIT PRICE
HA034_2_2_	UNIT PRICE
HA034_2_3_	UNIT PRICE
HA036_1_	TAKE OUT A BANK LOAN TO FINANCE
HA036_2_	TAKE OUT A BANK LOAN TO FINANCE
HA036_3_	TAKE OUT A BANK LOAN TO FINANCE
HA037_1_	THE OUTSTANDING AMOUNT OF THE LOANS
HA037_2_	THE OUTSTANDING AMOUNT OF THE LOANS
HA038_1_	THE MONTHLY MORTGAGE PAYMENT
HA038_2_	THE MONTHLY MORTGAGE PAYMENT
HA051_1_	THE CONSTRUCTION AREA
HA051_2_	THE CONSTRUCTION AREA
HA051_3_	THE CONSTRUCTION AREA
PROXY	interview done by proxy

## Wave 2:

HA027	Other Residential Properties
HA028	The Number of Other Properties
HA029_W2	Obtained New House
HA029_W2_1	The Number of New Houses
HA031_1_S1	Household Member [1] Owns The House
HA031_1_S10	Household Member [10] Owns The House
HA031_1_S11	Household Member [11] Owns The House
HA031_1_S2	Household Member [2] Owns The House
HA031_1_S3	Household Member [3] Owns The House
HA031_1_S4	Household Member [4] Owns The House
HA031_1_S5	Household Member [5] Owns The House
HA031_1_S6	Household Member [6] Owns The House
HA031_1_S7	Household Member [7] Owns The House
HA031_1_S8	Household Member [8] Owns The House
HA031_1_S9	Household Member [9] Owns The House
HA034_1_1_	The Present Market Value of House: Total Price
HA034_1_2_	The Present Market Value of House: Total Price
HA034_1_3_	The Present Market Value of House: Total Price
HA034_1_4_	The Present Market Value of House: Total Price
HA034_2_1_	The Present Market Value of House: Unit Price
HA034_2_2_	The Present Market Value of House: Unit Price
HA034_2_3_	The Present Market Value of House: Unit Price
HA034_2_4_	The Present Market Value of House: Unit Price
HA036_1_	Take Out A Bank Loan for House
HA036_2_	Take Out A Bank Loan for House
HA036_3_	Take Out A Bank Loan for House
HA036_4_	Take Out A Bank Loan for House
HA037_1_	The Outstanding Amount of The Loans for House
HA037_2_	The Outstanding Amount of The Loans for House
HA038_1_	The Monthly Mortgage Payment for House
HA038_2_	The Monthly Mortgage Payment for House
HA051_1_	Construction Area (M2)
HA051_2_	Construction Area (M2)
HA051_3_	Construction Area (M2)
HA051_4_	Construction Area (M2)
XRTYPE	R Interview Type

## Wave 3:

HA027	Other Residential Properties
HA028	The Number of Other Properties
HA029_W2_1	The Number of New Houses
HA031_1_S1	Household Member [1] Owns The House
HA031_1_S2	Household Member [2] Owns The House
HA031_2_S1	Household Member [1] Owns The House
HA031_2_S2	Household Member [2] Owns The House
HA034_1_1_	The Present Market Value of House: Total Price
HA034_2_1_	The Present Market Value of House: Unit Price

HA034_2_2_	The Present Market Value of House: Unit Price
HA034_2_3_	The Present Market Value of House: Unit Price
HA034_2_4_	The Present Market Value of House: Unit Price
HA051_1_	Construction Area (M2)
HA051_2_	Construction Area (M2)
HA051_3_	Construction Area (M2)
HA051_4_	Construction Area (M2)
Wave 4:	
HA000_w4_0	Number of Houses
HA004_w4_1_	Total Value or Unit Value for House[1]
HA004_w4_1_1_	Total Value for House[1]
HA004_w4_1_2_	Total Value for House[2]
HA004_w4_1_3_	Total Value for House[3]
HA004_w4_1_4_	Total Value for House[4]
HA004_w4_1_5_	Total Value for House[5]
HA004_w4_1_6_	Total Value for House[6]
HA004_w4_1_7_	Total Value for House[7]
HA004_w4_2_	Total Value or Unit Value for House[2]
HA004_w4_2_1_	Unit Value for House[1]
HA004_w4_2_2_	Unit Value for House[2]
HA004_w4_2_3_	Unit Value for House[3]
HA004_w4_2_4_	Unit Value for House[4]
HA004_w4_2_5_	Unit Value for House[5]
HA004_w4_3_	Total Value or Unit Value for House[3]
HA004_w4_4_	Total Value or Unit Value for House[4]
HA004_w4_5_	Total Value or Unit Value for House[5]
HA004_w4_6_	Total Value or Unit Value for House[6]
HA004_w4_7_	Total Value or Unit Value for House[7]
HA023_w4	The Number of Other/New Houses
HA035_w4_10_	House Size for House[10]
HA035_w4_11_	House Size for House[11]
HA035_w4_1_	House Size for House[1]
HA035_w4_2_	House Size for House[2]
HA035_w4_3_	House Size for House[3]
HA035_w4_4_	House Size for House[4]
HA035_w4_5_	House Size for House[5]
HA035_w4_6_	House Size for House[6]
HA035_w4_7_	House Size for House[7]
HA035_w4_8_	House Size for House[8]
HA035_w4_9_	House Size for House[9]
HA036_w4_10_	Total Value or Unit Value for House[10]
HA036_w4_11_	Total Value or Unit Value for House[11]
HA036_w4_1_	Total Value or Unit Value for House[1]
HA036_w4_1_10_	Total Value for House[10]
HA036_w4_1_11_	Total Value for House[11]
HA036_w4_1_1_	Total Value for House[1]
HA036_w4_1_2_	Total Value for House[2]
HA036_w4_1_3_	Total Value for House[3]
HA036_w4_1_4_	Total Value for House[4]
HA036_w4_1_5_	Total Value for House[5]
HA036_w4_1_6_	Total Value for House[6]
HA036_w4_1_7_	Total Value for House[7]
HA036_w4_1_8_	Total Value for House[8]
HA036_w4_1_9_	Total Value for House[9]
HA036_w4_2_	Total Value or Unit Value for House[2]
HA036_w4_2_1_	Unit Value for House[1]
HA036_w4_2_2_	Unit Value for House[2]
HA036_w4_2_3_	Unit Value for House[3]
HA036_w4_2_4_	Unit Value for House[4]
HA036_w4_2_5_	Unit Value for House[5]
HA036_w4_2_7_	Unit Value for House[7]
HA036_w4_3_	Total Value or Unit Value for House[3]
HA036_w4_4_	Total Value or Unit Value for House[4]
HA036_w4_5_	Total Value or Unit Value for House[5]
HA036_w4_6_	Total Value or Unit Value for House[6]
HA036_w4_7_	Total Value or Unit Value for House[7]
HA036_w4_8_	Total Value or Unit Value for House[8]
HA036_w4_9_	Total Value or Unit Value for House[9]
I000_w4	Which House You Reside

---

I000_W4_11	Usable House Size
I000_W4_12	House Size
I000_W4_15_1	Total Value for the House
I000_W4_15_2	Unit Value for the House
I000_W4_4_1	Percent Household Head and Spouse Own the House
ZHOUSENUM	Loaded House Number
ZSIZE_1_	House Size for Loaded House[1]
ZSIZE_2_	House Size for Loaded House[2]
ZSIZE_3_	House Size for Loaded House[3]
ZSIZE_4_	House Size for Loaded House[4]
ZSIZE_5_	House Size for Loaded House[5]
ZSIZE_6_	House Size for Loaded House[6]
ZSIZE_7_	House Size for Loaded House[7]

<b>Household value of primary residence</b>
---

Wave	Variable	Label	Type
1	HH1AHOUSA	hh1ahousa:w1 Asset: HHold primary residence regardless of ow	Cont
2	HH2AHOUSA	hh2ahousa:w2 Asset: HHold primary residence regardless of ow	Cont
3	HH3AHOUSA	hh3ahousa:w3 Asset: HHold primary residence regardless of ow	Cont
4	HH4AHOUSA	hh4ahousa:w4 Asset: HHold primary residence regardless of ow	Cont
1	HH1AFHOUSAR	hh1afhousar:w1 Asset: HHold imput flag for housing area	Categ
2	HH2AFHOUSAR	hh2afhousar:w2 Asset: HHold imput flag for housing area	Categ
1	HH1AHRTO	hh1ahrto:w1 Asset: HHold percent of ownership for primary re	Cont
2	HH2AHRTO	hh2ahrto:w2 Asset: HHold percent of ownership for primary re	Cont
3	HH3AHRTO	hh3ahrto:w3 Asset: HHold percent of ownership for primary re	Cont
1	HH1AHOUS	hh1ahous:w1 Asset: HHold primary residence with % of ownersh	Cont
2	HH2AHOUS	hh2ahous:w2 Asset: HHold primary residence with % of ownersh	Cont
3	HH3AHOUS	hh3ahous:w3 Asset: HHold primary residence with % of ownersh	Cont
4	H4AHRTO	h4ahrto:w4 Asset: r+s percent of ownership for primary resid	Cont
4	H4AHOUS	h4ahous:w4 Asset: r+s primary residence with % of ownership	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1AHOUSA	15672	191002.17	1591175.87	0.00	120000000.00
HH2AHOUSA	13632	334439.64	3327104.63	0.00	192000000.00
HH3AHOUSA	15960	243012.33	1796629.95	0.00	80000000.00
HH4AHOUSA	19037	516950.79	4543886.64	0.00	200000000.00
HH1AFHOUSAR	15672	0.00	0.09	0.00	2.00
HH2AFHOUSAR	13632	0.02	0.17	0.00	2.00
HH1AHRTO	17226	87.83	30.93	0.00	100.00
HH2AHRTO	16881	87.27	32.04	0.00	100.00
HH3AHRTO	18950	81.67	36.27	0.00	100.00
HH1AHOUS	15657	166082.90	1410131.93	0.00	120000000.00
HH2AHOUS	13601	300315.60	3267699.33	0.00	192000000.00
HH3AHOUS	15908	241449.22	1798473.89	0.00	80000000.00
H4AHRTO	19699	60.14	47.28	0.00	100.00
H4AHOUS	19037	435612.57	4277499.48	0.00	200000000.00

### Categorical Variable Codes

Value-----	HH1AFHOUSAR	HH2AFHOUSAR
0.not imputed	15637	13496
1.imputed using total land area	7	48
2.imputed using community average	28	88

### General Comments:

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

### How Constructed:

HHwAHOUSA indicates the value of the primary residence without percentage of ownership at the household level. At Waves 1 to 3, respondents are asked to report the present market value of their current (primary) residence or the value of a similar house within the same neighborhood. At Wave 4, respondents are asked to report the present market value of their primary residence. The respondent may report the value of the primary residence as total value or value per square meter.

In a few cases where the reported value of the primary residence was greater than or equal to 10,000, it was assumed the value given was reported in incorrect units and the reported value was divided by 10,000. Also in a few cases where the reported unit price of the primary residence was greater than or equal to 1,000, it was assumed the value given was reported in incorrect units and the reported value was divided by 1,000. Both of these unit adjustments were taken under direction from the CHARLS team.

At Waves 1 and 2, if the respondent does not report the total value of the primary residence, HHwAHOUSA is derived by multiplying the value per square meter by the residence size. If the respondent reports both total and per square meter values, the larger value is taken if the house is located in an urban area. If the house is located in a rural area, the larger value is taken if less than 1,000 yuan and the smaller value is taken if greater than 10,000 yuan.

At Waves 1 and 2, in cases where only the value per square meter is reported but the residence size is not reported, the residence size is imputed. If the respondent reports the property size but not the residence size, the residence size is imputed by multiplying the property size by the mean ratio of residence size to property size for all respondents who reported both residence and property size. If the respondent does not report either the property size or the residence size, the residence size is imputed using the mean residence size for the community as identified by communityID.

At Wave 3, HHwAHOUSA is the total reported value of the primary residence because CHARLS has not released the construction area of the primary residence in the Wave 3 data.

At Wave 4, if the respondent does not report the total value of the primary residence, HHwAHOUSA is derived by multiplying the value per square meter by the residence size.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAHOUSA is coded as blank missing (.) if the respondent did not respond to this wave.

HHwAFHOUSAR is a flag variable that indicates whether HHwAHOUSA is derived using an imputed residence size at Waves 1 and 2. HHwAFHOUSAR is assigned 0 if HHwAHOUSA is not derived using an imputed residence size. HHwAFHOUSAR is assigned 1 if HHwAHOUSA is derived by multiplying reported value per square meter by imputed residence size based on reported property size. HHwAFHOUSAR is assigned 2 if HHwAHOUSA is derived by multiplying reported value per square meter by imputed residence size based on the mean community residence size.

HHwAHRTO indicates the total percent of ownership of primary residence for all household members at Waves 1 to 3. Respondents are asked who owns their primary residence. If the respondents reports their primary residence is fully or partly owned by household members, they are asked what share of the house is owned by each household member. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAHRTO is coded as blank missing (.) if the respondent did not respond to this wave.

HHwAHOUS indicates the value of primary residence with the percentage of the ownership at the household level at Waves 1 to 3. HHwAHOUS is derived by multiplying HHwAHOUSA by HHwAHRTO. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAHOUS is coded as blank missing (.) if the respondent did not respond to this wave.

HwAHRTO indicates the total percent of ownership for primary residence for the respondent and spouse at Wave 4. Respondents are asked what share of their primary residence is owned by the respondent and spouse. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwAHRTO is coded as blank missing (.) if the respondent did not respond to this wave.

HwAHOUS indicates the value of primary residence with the percentage of the ownership at the couple level at Wave 4. HwAHOUS is derived by multiplying HHwAHOUSA by HwAHRTO. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwAHOUS is coded as blank missing (.) if the respondent did not respond to this wave.

## Cross Wave Differences in CHARLS

At Waves 1 to 3, respondents are asked to report the present market value of their current (primary) residence or the value of a similar house within the same neighborhood. The respondent may report the value of the primary residence as total value or value per square meter.

At Wave 4, respondents are asked to report the present market value of their primary residence. The respondent may report the value of the primary residence as total value or value per square meter.

In the current release of Wave 3 data, CHARLS has not released the construction area of the primary residence.

At Waves 1 to 3, respondents are asked who owns their primary residence. If the respondents reports their primary residence is fully or partly owned by household members, they are asked what share of the house is owned by each household member.

At Wave 4, respondents are asked what share of their primary residence is owned by the respondent and spouse.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

## Differences with the RAND HRS/Harmonized HRS

Value of primary residence in the CHARLS is measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The HRS asks respondents about the value of home or farm and the value of mobile home and site separately. These two measures are combined in the HRS as a value of primary residence. Unlike the RAND HRS, the CHARLS doesn't survey the value of mobile home and site.

## CHARLS Variables Used:

### Wave 1:

HA007	OWNSHIP OF CURRENT RESIDENCE
HA009_10_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_11_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_12_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_13_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_14_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_1_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_2_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_3_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_4_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_5_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_6_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_7_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_8_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_9_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA011_1	TOTAL PRICE
HA011_2	UNIT PRICE
I001	THE TYPE OF AREA OF THE BUILDING
I002	What is the total housing land area
PROXY	interview done by proxy
URBAN_NBS	Urban or Rural according to NBS

### Wave 2:



HA007	Ownship of Current Residence
HA009_10_	Percent Owned by Household Member [10]
HA009_11_	Percent Owned by Household Member [11]
HA009_12_	Percent Owned by Household Member [12]
HA009_13_	Percent Owned by Household Member [13]
HA009_14_	Percent Owned by Household Member [14]
HA009_1_	Percent Owned by Household Member [1]
HA009_2_	Percent Owned by Household Member [2]
HA009_3_	Percent Owned by Household Member [3]
HA009_4_	Percent Owned by Household Member [4]
HA009_5_	Percent Owned by Household Member [5]
HA009_6_	Percent Owned by Household Member [6]
HA009_7_	Percent Owned by Household Member [7]
HA009_8_	Percent Owned by Household Member [8]
HA009_9_	Percent Owned by Household Member [9]
HA011_1	The Present Market Value of House: Total Price
HA011_2	The Present Market Value of House: Unit Price
HA027	Other Residential Properties
HA028	The Number of Other Properties
I001	Construction area
I002	Total housing land area
URBAN_NBS	

## Wave 3:

HA007	Ownship of Current Residence
HA009_10_	Percent Owned by Household Member [10]
HA009_1_	Percent Owned by Household Member [1]
HA009_2_	Percent Owned by Household Member [2]
HA009_3_	Percent Owned by Household Member [3]
HA009_4_	Percent Owned by Household Member [4]
HA009_5_	Percent Owned by Household Member [5]
HA009_6_	Percent Owned by Household Member [6]
HA009_7_	Percent Owned by Household Member [7]
HA009_8_	Percent Owned by Household Member [8]
HA009_9_	Percent Owned by Household Member [9]
HA011_1	The Present Market Value of House: Total Price
HA011_2	The Present Market Value of House: Unit Price

## Wave 4:

HA000_W4_0	Number of Houses
HA000_W4_1_1_	Check Ownership Structure of House[1]
HA000_W4_1_2_	Check Ownership Structure of House[2]
HA000_W4_1_3_	Check Ownership Structure of House[3]
HA000_W4_1_4_	Check Ownership Structure of House[4]
HA000_W4_1_5_	Check Ownership Structure of House[5]
HA000_W4_1_6_	Check Ownership Structure of House[6]
HA000_W4_1_7_	Check Ownership Structure of House[7]
HA000_W4_2_1_1_	Percent Household Head and Spouse Own House[1]
HA000_W4_2_1_2_	Percent Household Head and Spouse Own House[2]
HA000_W4_2_1_3_	Percent Household Head and Spouse Own House[3]
HA000_W4_2_1_4_	Percent Household Head and Spouse Own House[4]
HA000_W4_2_1_5_	Percent Household Head and Spouse Own House[5]
HA000_W4_2_1_6_	Percent Household Head and Spouse Own House[6]
HA000_W4_2_1_7_	Percent Household Head and Spouse Own House[7]
HA000_W4_2_1__S1	Household Head and Spouse Own House[1]
HA000_W4_2_2__S1	Household Head and Spouse Own House[2]
HA000_W4_2_3__S1	Household Head and Spouse Own House[3]
HA000_W4_2_4__S1	Household Head and Spouse Own House[4]
HA000_W4_2_5__S1	Household Head and Spouse Own House[5]
HA000_W4_2_6__S1	Household Head and Spouse Own House[6]
HA001_W4_1_1_1_	Percent Household Head and Spouse Own House[1]
HA001_W4_1_1_2_	Percent Household Head and Spouse Own House[2]
HA001_W4_1_1_3_	Percent Household Head and Spouse Own House[3]
HA001_W4_1_1_4_	Percent Household Head and Spouse Own House[4]
HA001_W4_1_1_5_	Percent Household Head and Spouse Own House[5]
HA001_W4_1_1_6_	Percent Household Head and Spouse Own House[6]
HA001_W4_1_1__S1	Household Head and Spouse Own House[1]
HA001_W4_1_2__S1	Household Head and Spouse Own House[2]
HA001_W4_1_3__S1	Household Head and Spouse Own House[3]
HA001_W4_1_4__S1	Household Head and Spouse Own House[4]
HA001_W4_1_5__S1	Household Head and Spouse Own House[5]

HA001_W4_1_6__S1	Household Head and Spouse Own House[6]
HA004_W4_1_	Total Value or Unit Value for House[1]
HA004_W4_1_1_	Total Value for House[1]
HA004_W4_1_2_	Total Value for House[2]
HA004_W4_1_3_	Total Value for House[3]
HA004_W4_1_4_	Total Value for House[4]
HA004_W4_1_5_	Total Value for House[5]
HA004_W4_1_6_	Total Value for House[6]
HA004_W4_1_7_	Total Value for House[7]
HA004_W4_2_	Total Value or Unit Value for House[2]
HA004_W4_2_1_	Unit Value for House[1]
HA004_W4_2_2_	Unit Value for House[2]
HA004_W4_2_3_	Unit Value for House[3]
HA004_W4_2_4_	Unit Value for House[4]
HA004_W4_2_5_	Unit Value for House[5]
HA004_W4_3_	Total Value or Unit Value for House[3]
HA004_W4_4_	Total Value or Unit Value for House[4]
HA004_W4_5_	Total Value or Unit Value for House[5]
HA004_W4_6_	Total Value or Unit Value for House[6]
HA004_W4_7_	Total Value or Unit Value for House[7]
HA023_W4	The Number of Other/New Houses
HA027_W4_1_	Household Head and Spouse Have All Ownership for House[1]
HA027_W4_2_	Household Head and Spouse Have All Ownership for House[2]
HA027_W4_3_	Household Head and Spouse Have All Ownership for House[3]
HA027_W4_4_	Household Head and Spouse Have All Ownership for House[4]
HA027_W4_5_	Household Head and Spouse Have All Ownership for House[5]
HA027_W4_6_	Household Head and Spouse Have All Ownership for House[6]
HA027_W4_7_	Household Head and Spouse Have All Ownership for House[7]
HA028_W4_1_1_	Percent Household Head and Spouse Own House[1]
HA028_W4_1_2_	Percent Household Head and Spouse Own House[2]
HA028_W4_1_3_	Percent Household Head and Spouse Own House[3]
HA028_W4_1__S1	Household Head and Spouse Own House[1]
HA028_W4_2__S1	Household Head and Spouse Own House[2]
HA028_W4_3__S1	Household Head and Spouse Own House[3]
HA035_W4_10_	House Size for House[10]
HA035_W4_11_	House Size for House[11]
HA035_W4_1_	House Size for House[1]
HA035_W4_2_	House Size for House[2]
HA035_W4_3_	House Size for House[3]
HA035_W4_4_	House Size for House[4]
HA035_W4_5_	House Size for House[5]
HA035_W4_6_	House Size for House[6]
HA035_W4_7_	House Size for House[7]
HA035_W4_8_	House Size for House[8]
HA035_W4_9_	House Size for House[9]
HA036_W4_10_	Total Value or Unit Value for House[10]
HA036_W4_11_	Total Value or Unit Value for House[11]
HA036_W4_1_	Total Value or Unit Value for House[1]
HA036_W4_1_10_	Total Value for House[10]
HA036_W4_1_11_	Total Value for House[11]
HA036_W4_1_1_	Total Value for House[1]
HA036_W4_1_2_	Total Value for House[2]
HA036_W4_1_3_	Total Value for House[3]
HA036_W4_1_4_	Total Value for House[4]
HA036_W4_1_5_	Total Value for House[5]
HA036_W4_1_6_	Total Value for House[6]
HA036_W4_1_7_	Total Value for House[7]
HA036_W4_1_8_	Total Value for House[8]
HA036_W4_1_9_	Total Value for House[9]
HA036_W4_2_	Total Value or Unit Value for House[2]
HA036_W4_2_1_	Unit Value for House[1]
HA036_W4_2_2_	Unit Value for House[2]
HA036_W4_2_3_	Unit Value for House[3]
HA036_W4_2_4_	Unit Value for House[4]
HA036_W4_2_5_	Unit Value for House[5]
HA036_W4_2_7_	Unit Value for House[7]
HA036_W4_3_	Total Value or Unit Value for House[3]
HA036_W4_4_	Total Value or Unit Value for House[4]
HA036_W4_5_	Total Value or Unit Value for House[5]

---

HA036_W4_6_	Total Value or Unit Value for House[6]
HA036_W4_7_	Total Value or Unit Value for House[7]
HA036_W4_8_	Total Value or Unit Value for House[8]
HA036_W4_9_	Total Value or Unit Value for House[9]
I000_W4	Which House You Reside
I000_W4_11	Usable House Size
I000_W4_12	House Size
I000_W4_15_1	Total Value for the House
I000_W4_15_2	Unit Value for the House
I000_W4_4_1	Percent Household Head and Spouse Own the House
I000_W4_4_S1	Household Head and Spouse Own the House
ZHOUSENUM	Loaded House Number
ZSIZE_1_	House Size for Loaded House[1]
ZSIZE_2_	House Size for Loaded House[2]
ZSIZE_3_	House Size for Loaded House[3]
ZSIZE_4_	House Size for Loaded House[4]
ZSIZE_5_	House Size for Loaded House[5]
ZSIZE_6_	House Size for Loaded House[6]
ZSIZE_7_	House Size for Loaded House[7]

**Household value of all mortgages for primary residence**

Wave	Variable	Label	Type
1	HH1AMORT	hhlamort:w1 Asset: HHold total mortgage for primary residenc	Cont
2	HH2AMORT	hh2amort:w2 Asset: HHold total mortgage for primary residenc	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1AMORT	17387	1326.62	14780.35	0.00	600000.00
HH2AMORT	17524	1758.65	23935.29	0.00	1060000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwAMORT indicates the value of the household's mortgage (primary residence) at the household level at Waves 1 and 2. Starting at Wave 3, HwAMORT is not available because the value of mortgages for primary and secondary residences are asked in the same question and cannot be separated out. The total value of mortgages for primary and secondary residences is included as part of HwADEBT. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAMORT is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Waves 1 and 2, respondents are asked who owns their current (primary) residence. If the respondent reports the primary residence is fully owned by household members, they are asked whether the respondent or other household members obtained a bank loan to finance the purchase, construction, or decoration of the house. If the respondent reports obtaining a bank loan, they are then asked to report the outstanding amount of the loan.

Starting at Wave 3, respondents are asked whether they or other household members obtained any bank loans to finance the purchase of any houses that are currently owned by respondent and spouse. If the respondent reports obtaining any bank loans, they are then asked to report the total outstanding amount of those loans. Starting at Wave 3, it is not possible to determine the value of loan taken out the primary residence by itself.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2 Household Income file.

**Differences with the RAND HRS/Harmonized HRS**

Value of all mortgages (primary residence) in the CHARLS is measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The HRS respondents are asked how much they still owe on a mortgage, land contract, second mortgage or any other loan that uses property as collateral. HRS respondents are also asked to not include the value of any home equity lines of credit. Unlike the HRS, CHARLS only asks respondents the outstanding amount of the loan.

**CHARLS Variables Used:**

## Wave 1:

HA007	OWNSHIP OF CURRENT RESIDENCE
HA013	TAKE OUT A BANK LOAN TO FINANCE
HA014	WHAT IS THE OUTSTANDING AMOUNT OF THE LOANS
PROXY	interview done by proxy

## Wave 2:

HA007	Ownship of Current Residence
HA013	Take Out A Bank Loan
HA014	The Outstanding Amount of The Loans
HD012	Receive Assistance in Answering

**Household net value of primary residence**

Wave	Variable	Label	Type
1	HH1ATOTH	hhlatoth:w1 Asset: HHold net value of primary residence	Cont
2	HH2ATOTH	hh2atoth:w2 Asset: HHold net value of primary residence	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATOTH	15639	164646.25	1410748.55	-345000.00	120000000.00
HH2ATOTH	13547	296814.21	3273302.90	-320000.00	192000000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwATOTH indicates the net value of the primary residence at the household level at Waves 1 and 2. HHwATOTH is derived by subtracting HHwAMORT from HHwAHOUS (HHwATOTH = HHwAHOUS - HHwAMORT). Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwATOTH is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

**Differences with the RAND HRS/Harmonized HRS**

Net value of primary residence in CHARLS is measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS/Harmonized HRS" section of each component to identify differences with the RAND HRS variable of the same name.

**CHARLS Variables Used:**

Wave 1:

HA007	OWNSHIP OF CURRENT RESIDENCE
HA009_10_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_11_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_12_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_13_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_14_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_1_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_2_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_3_	PERCENT OWNED BY HOUSEHOLD MEMBER

HA009_4_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_5_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_6_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_7_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_8_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_9_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA011_1	TOTAL PRICE
HA011_2	UNIT PRICE
HA013	TAKE OUT A BANK LOAN TO FINANCE
HA014	WHAT IS THE OUTSTANDING AMOUNT OF THE LOANS
I001	THE TYPE OF AREA OF THE BUILDING
I002	What is the total housing land area
PROXY	interview done by proxy
URBAN_NBS	Urban or Rural according to NBS
Wave 2:	
HA007	Ownship of Current Residence
HA009_10_	Percent Owned by Household Member [10]
HA009_11_	Percent Owned by Household Member [11]
HA009_12_	Percent Owned by Household Member [12]
HA009_13_	Percent Owned by Household Member [13]
HA009_14_	Percent Owned by Household Member [14]
HA009_1_	Percent Owned by Household Member [1]
HA009_2_	Percent Owned by Household Member [2]
HA009_3_	Percent Owned by Household Member [3]
HA009_4_	Percent Owned by Household Member [4]
HA009_5_	Percent Owned by Household Member [5]
HA009_6_	Percent Owned by Household Member [6]
HA009_7_	Percent Owned by Household Member [7]
HA009_8_	Percent Owned by Household Member [8]
HA009_9_	Percent Owned by Household Member [9]
HA011_1	The Present Market Value of House: Total Price
HA011_2	The Present Market Value of House: Unit Price
HA013	Take Out A Bank Loan
HA014	The Outstanding Amount of The Loans
HA027	Other Residential Properties
HA028	The Number of Other Properties
HD012	Receive Assistance in Answering
I001	Construction area
I002	Total housing land area
URBAN_NBS	Urban or Rural according to NBS

**Household value of vehicles**

Wave	Variable	Label	Type
1	HH1ATRAN	hhlatran:w1 Asset: HHold value of transportation	Cont
2	HH2ATRAN	hh2atran:w2 Asset: HHold value of transportation	Cont
3	H3ATRAN	h3atran:w3 Asset: r+s value of transportation	Cont
4	H4ATRAN	h4atran:w4 Asset: r+s value of transportation	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATRAN	17385	5367.12	34323.16	0.00	2001000.00
HH2ATRAN	17719	9102.55	39997.22	0.00	1003000.00
H3ATRAN	20338	9561.01	52945.53	0.00	2716700.00
H4ATRAN	19690	9941.20	65118.72	0.00	5000000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwATRAN indicates the total value of transportation vehicles at the household level at Waves 1 and 2.

HwATRAN indicates the total value of transportation vehicles at the couple level starting at Wave 3.

Transportation vehicles include automobiles, electric bicycles, and motorcycles. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwATRAN and HwATRAN are coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Wave 1 and 2, respondents are asked to report the value of automobiles, electric bicycles, and motorcycles owned by any member of the household.

Starting at Wave 3, respondents are asked to report the value of automobiles, electric bicycles, and motorcycles owned by the respondent and spouse.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

**Differences with the RAND HRS/Harmonized HRS**

Value of vehicles in CHARLS is measured in China's currency Yuan whereas the equivalent measure in



RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the CHARLS, this measure not only includes the value of automobiles, but also the value of electric bicycles and motorcycles.

### CHARLS Variables Used:

#### Wave 1:

HA065S1	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S2	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S3	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065_1_1_	THE ASSET?
HA065_1_2_	THE ASSET?
HA065_1_3_	THE ASSET?

#### Wave 2:

HA065S1	Own Assets: Automobile
HA065S2	Own Assets: Electric Bicycle
HA065S3	Own Assets: Motorcycle
HA065_1_1_	Current Value of Asset: Automobile
HA065_1_2_	Current Value of Asset: Electric Bicycle
HA065_1_3_	Current Value of Asset: Motorcycle

#### Wave 3:

HA065S1	Own Assets: Automobile
HA065S2	Own Assets: Electric Bicycle
HA065S3	Own Assets: Motorcycle
HA065_1_1_	Current Value of Asset: Automobile
HA065_1_2_	Current Value of Asset: Electric Bicycle
HA065_1_3_	Current Value of Asset: Motorcycle

#### Wave 4:

HA065_1	Automobile Value
HA065_2	Electric Bicycle Value
HA065_3	Motorcycle Value
HA065_S1	Automobile
HA065_S2	Electric Bicycle
HA065_S3	Motorcycle

<b>Household value of non-financial asset (consumer durable asset)</b>
--

Wave	Variable	Label	Type
1	HH1ADURBL	hhladurbl:w1 Assets: HHold consumer durable assets	Cont
2	HH2ADURBL	hh2adurbl:w2 Assets: HHold consumer durable assets	Cont
3	H3ADURBL	h3adurbl:w3 Assets: r+s consumer durable assets	Cont
4	H4ADURBL	h4adurbl:w4 Assets: r+s consumer durable assets	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ADURBL	17385	3302.07	7708.61	0.00	418000.00
HH2ADURBL	17719	4628.15	11610.02	0.00	583600.00
H3ADURBL	20338	5538.14	17201.12	0.00	739500.00
H4ADURBL	19690	6910.59	110004.46	0.00	10021500.00

### General Comments:

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

### How Constructed:

HHwADURBL indicates the total value of non-financial assets at the household level at Waves 1 and 2.

HwADURBL indicates the value of non-financial assets at the couple level starting at Wave 3.

At Waves 1 to 3, non-financial assets include refrigerators; washing machines; TVs; computers; stereo systems; video cameras; cameras; air conditioners; mobile phones; furniture; music instruments; valuable decorations, ornaments, and vases; treasures and precious metal (such as gold); and antiques, value paintings and calligraphic work and other artistic work.

At Wave 4, non-financial assets also includes air purifiers.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwADURBL and HwADURBL are coded as blank missing (.) if the respondent did not respond to this wave.

### Cross Wave Differences in CHARLS

At Wave 1 and 2, respondents are asked to report the value of non-financial assets owned by any member of the household.

Starting at Wave 3, respondents are asked to report the value of non-financial assets owned by the respondent and spouse.

At Waves 1 to 3, non-financial assets include refrigerators; washing machines; TVs; computers; stereo systems; video cameras; cameras; air conditioners; mobile phones; furniture; music

instruments; valuable decorations, ornaments, and vases; treasures and precious metal (such as gold); and antiques, value paintings and calligraphic work and other artistic work.

At Wave 4, non-financial assets also includes air purifiers.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

### Differences with the RAND HRS/Harmonized HRS

This variable not available in RAND HRS.

### CHARLS Variables Used:

#### Wave 1:

HA065S10	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S11	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S12	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S13	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S14	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S15	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S16	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S17	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S4	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S5	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S6	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S7	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S8	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S9	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065_1_10_	THE ASSET?
HA065_1_11_	THE ASSET?
HA065_1_12_	THE ASSET?
HA065_1_13_	THE ASSET?
HA065_1_14_	THE ASSET?
HA065_1_15_	THE ASSET?
HA065_1_16_	THE ASSET?
HA065_1_17_	THE ASSET?
HA065_1_4_	THE ASSET?
HA065_1_5_	THE ASSET?
HA065_1_6_	THE ASSET?
HA065_1_7_	THE ASSET?
HA065_1_8_	THE ASSET?
HA065_1_9_	THE ASSET?

#### Wave 2:

HA065S10	Own Assets: Camera
HA065S11	Own Assets: Air Conditioner
HA065S12	Own Assets: Mobile Phone
HA065S13	Own Assets: Furniture
HA065S14	Own Assets: Music Instrument
HA065S15	Own Assets: Valuable Decorations, Ornaments
HA065S16	Own Assets: Treasure and Precious Metal
HA065S17	Own Assets: Antique, Paintings and Artistic Work
HA065S4	Own Assets: Refrigerator
HA065S5	Own Assets: Washing Machine
HA065S6	Own Assets: TV
HA065S7	Own Assets: Computer
HA065S8	Own Assets: Stereo System
HA065S9	Own Assets: Video Camera
HA065_1_10_	Current Value of Asset: Camera
HA065_1_11_	Current Value of Asset: Air Conditioner
HA065_1_12_	Current Value of Asset: Mobile Phone
HA065_1_13_	Current Value of Asset: Furniture
HA065_1_14_	Current Value of Asset: Music Instrument
HA065_1_15_	Current Value of Asset: Valuable Decorations, Ornaments
HA065_1_16_	Current Value of Asset: Treasure and Precious Metal
HA065_1_17_	Current Value of Asset: Antique, Paintings and Artistic Work
HA065_1_4_	Current Value of Asset: Refrigerator
HA065_1_5_	Current Value of Asset: Washing Machine

HA065_1_6_	Current Value of Asset: TV
HA065_1_7_	Current Value of Asset: Computer
HA065_1_8_	Current Value of Asset: Stereo System
HA065_1_9_	Current Value of Asset: Video Camera

## Wave 3:

HA065S10	Own Assets: Camera
HA065S11	Own Assets: Air Conditioner
HA065S12	Own Assets: Mobile Phone
HA065S13	Own Assets: Furniture
HA065S14	Own Assets: Music Instrument
HA065S15	Own Assets: Valuable Decorations, Ornaments
HA065S16	Own Assets: Treasure and Precious Metal
HA065S17	Own Assets: Antique, Paintings and Artistic Work
HA065S4	Own Assets: Refrigerator
HA065S5	Own Assets: Washing Machine
HA065S6	Own Assets: TV
HA065S7	Own Assets: Computer
HA065S8	Own Assets: Stereo System
HA065S9	Own Assets: Video Camera
HA065_1_10_	Current Value of Asset: Camera
HA065_1_11_	Current Value of Asset: Air Conditioner
HA065_1_12_	Current Value of Asset: Mobile Phone
HA065_1_13_	Current Value of Asset: Furniture
HA065_1_14_	Current Value of Asset: Music Instrument
HA065_1_15_	Current Value of Asset: Valuable Decorations, Ornaments
HA065_1_16_	Current Value of Asset: Treasure and Precious Metal
HA065_1_17_	Current Value of Asset: Antique, Paintings and Artistic Work
HA065_1_4_	Current Value of Asset: Refrigerator
HA065_1_5_	Current Value of Asset: Washing Machine
HA065_1_6_	Current Value of Asset: TV
HA065_1_7_	Current Value of Asset: Computer
HA065_1_8_	Current Value of Asset: Stereo System
HA065_1_9_	Current Value of Asset: Video Camera

## Wave 4:

HA065_10	Camera Value
HA065_11	Air Conditioner Value
HA065_12	Mobile Phone Value
HA065_13	Furniture Value
HA065_14	Music Instrument Value
HA065_15	Valuable Decorations, Ornaments Value
HA065_16	Treasures and Precious Metal Value
HA065_17	Artistic Work Value
HA065_18	Air Purifier Value
HA065_4	Refrigerator Value
HA065_5	Washing Machine Value
HA065_6	TV Value
HA065_7	Computer Value
HA065_8	Stereo System Value
HA065_9	Video Camera Value
HA065_S10	Camera
HA065_S11	Air Conditioner
HA065_S12	Mobile Phone
HA065_S13	Furniture
HA065_S14	Music Instrument
HA065_S15	Valuable Decorations, Ornaments
HA065_S16	Treasures and Precious Metal
HA065_S17	Artistic Work
HA065_S18	Air Purifier
HA065_S4	Refrigerator
HA065_S5	Washing Machine
HA065_S6	TV
HA065_S7	Computer
HA065_S8	Stereo System
HA065_S9	Video Camera

**Household value of fixed capital assets**

Wave	Variable	Label	Type
1	HH1AFIXC	hh1afixc:w1 Asset: HHold fixed capital assets	Cont
2	HH2AFIXC	hh2afixc:w2 Asset: HHold fixed capital assets	Cont
3	H3AFIXC	h3afixc:w3 Asset: r+s fixed capital assets	Cont
4	H4AFIXC	h4afixc:w4 Asset: r+s fixed capital assets	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1AFIXC	17221	5213.12	63754.20	0.00	4000000.00
HH2AFIXC	17445	7139.78	85319.59	0.00	5000000.00
H3AFIXC	20103	18226.32	806379.35	0.00	80010496.00
H4AFIXC	19485	19460.12	355732.76	0.00	21212000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwAFIXC indicates the total value of fixed capital assets at the household level at Waves 1 and 2.

HwAFIXC indicates the value of fixed capital assets at the couple level starting at Wave 3.

At Waves 1 to 3, fixed capital assets include tractors, threshers, tractor tools, water pumps, processing equipment, fixed capital used in household production or self-employment activities, and other durable or fixed capital assets worth 500 yuan and more.

At Wave 4, fixed capital assets also includes harvesters, seeders, and agricultural aircraft, but does not include tractor tools.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAFIXC and HwAFIXC are coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Wave 1 and 2, respondents are asked to report the value of fixed capital assets owned by any member of the household.

Starting at Wave 3, respondents are asked to report the value of fixed capital assets owned by the respondent and spouse.

At Waves 1 to 3, fixed capital assets include tractors, threshers, tractor tools, water pumps, processing equipment, fixed capital used in household production or self-employment activities, and other durable or fixed capital assets worth 500 yuan and more.

At Wave 4, fixed capital assets also includes harvesters, seeders, and agricultural aircraft, but does not include tractor tools.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

## Differences with the RAND HRS/Harmonized HRS

This variable not available in RAND HRS.

### CHARLS Variables Used:

#### Wave 1:

HA066_1_1_	THE ASSET'S CURRENT VALUE
HA066_1_2_	THE ASSET'S CURRENT VALUE
HA066_1_3_	THE ASSET'S CURRENT VALUE
HA066_1_4_	THE ASSET'S CURRENT VALUE
HA066_1_5_	THE ASSET'S CURRENT VALUE
HA067	THE CURRENT VALUE OF OTHER FIXED CAPITAL ASSETS
HA068_1	WORTH

#### Wave 2:

HA066S1	Own Fixed Assets: Tractor
HA066S2	Own Fixed Assets: Thresher
HA066S3	Own Fixed Assets: Tractor Tools
HA066S4	Own Fixed Assets: Water Pump
HA066S5	Own Fixed Assets: Processing Equipment
HA066S6	Own Fixed Assets: None
HA066_1_1_	Current Value of Fixed Asset: Tractor
HA066_1_2_	Current Value of Fixed Asset: Thresher
HA066_1_3_	Current Value of Fixed Asset: Tractor Tools
HA066_1_4_	Current Value of Fixed Asset: Water Pump
HA066_1_5_	Current Value of Fixed Asset: Processing Equipment
HA067	Current Value of Other Fixed Assets
HA068	Other Durable or Fixed Assets

#### Wave 3:

HA066S1	Own Fixed Assets: Tractor
HA066S2	Own Fixed Assets: Thresher
HA066S3	Own Fixed Assets: Tractor Tools
HA066S4	Own Fixed Assets: Water Pump
HA066S5	Own Fixed Assets: Processing Equipment
HA066S6	Own Fixed Assets: None
HA066_1_1_	Current Value of Fixed Asset: Tractor
HA066_1_2_	Current Value of Fixed Asset: Thresher
HA066_1_3_	Current Value of Fixed Asset: Tractor Tools
HA066_1_4_	Current Value of Fixed Asset: Water Pump
HA066_1_5_	Current Value of Fixed Asset: Processing Equipment
HA067	Current Value of Other Fixed Assets
HA067	Current Value of Other Fixed Assets
HA068	Other Durable or Fixed Assets
HA068_1	Current Value of Other Durable or Fixed Assets

#### Wave 4:

HA066_W4_1	Tractor Value
HA066_W4_2	Thresher Value
HA066_W4_3	Harvester Value
HA066_W4_4	Water Pump Value
HA066_W4_5	Processing Equipment Value
HA066_W4_6	Seeder Value
HA066_W4_7	Agricultural Aircraft Value
HA066_W4_S1	Tractor
HA066_W4_S2	Thresher
HA066_W4_S3	Harvester
HA066_W4_S4	Water Pump
HA066_W4_S5	Processing Equipment
HA066_W4_S6	Seeder
HA066_W4_S7	Agricultural Aircraft
HA066_W4_S8	None of the Above
HA067_W4	Other Fixed Capital Assets
HA068	Other Durable or Fixed Asset Worth 500 Yuan or More

**Household value of irrigable land**

Wave	Variable	Label	Type
1	HH1ALAND	hh1aland:w1 Asset: HHold value of irrigable land	Cont
2	HH2ALAND	hh2aland:w2 Asset: HHold value of irrigable land	Cont
3	H3ALAND	h3aland:w3 Asset: r+s value of irrigable land	Cont
4	H4ALAND	h4aland:w4 Asset: r+s value of irrigable land	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ALAND	17423	1626.13	24326.84	0.00	3000050.00
HH2ALAND	17703	3013.19	76308.68	0.00	6400000.00
H3ALAND	20328	2300.01	43720.21	0.00	4080000.00
H4ALAND	19691	4478.71	201425.53	0.00	19200000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwALAND indicates the total value of irrigable land at the household level at Waves 1 and 2.

HwALAND indicates the total value of irrigable land at the couple level starting at Wave 3.

At Waves 1 and 2, respondents are asked to report whether their household owns cultivated land, forest land, pastures, and ponds. If the respondent reports their household owns a type of land, they are asked to report the amount of mu their household owns. They are then asked to report the value of annual rent per mu their household would get if they rented out that land.

Starting at Wave 3, respondents are asked to report whether the respondent and spouse owns cultivated land, forest land, pastures, and ponds. If the respondent reports they and their spouse own a type of land, the respondent is asked to report the amount of mu they and their spouse own. The respondent is then then asked to report the value of annual rent per mu they and their spouse would get if they rented out that land.

HHwALAND and HwALAND are derived from the summary of the possible value of each type of irrigable land (annual rent per mu) multiplied by the area of land owned. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwALAND and HwALAND are coded as blank missing (.) if the respondent did not respond to this wave.

In China, the government has ownership of land, and people only have the rights to use the land. As a result, HHwALAND and HwALAND are calculated based on what the value of the land would be if the household/respondent and spouse rented it out and not the actual value of the land.

**Cross Wave Differences in CHARLS**

At Waves 1 and 2, respondents are asked to report whether their household owns cultivated land, forest land, pastures, and ponds. If the respondent reports their household owns a type of land, they are asked to report the amount of mu their household owns. They are then asked to report the value of annual rent per mu their household would get if they rented out that land.

Starting at Wave 3, respondents are asked to report whether the respondent and spouse owns cultivated land, forest land, pastures, and ponds. If the respondent reports they and their spouse own a type of land, the respondent is asked to report the amount of mu they and their spouse own. The respondent is then then asked to report the value of annual rent per mu they and their spouse would get if they rented out that land.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

### Differences with the RAND HRS/Harmonized HRS

The HRS does not differentiate irrigable land. All land is included as a part of real estate and asked about its value.

Mu is a Chinese unit of area. The conversion between mu to square feet is 1 to 7175.94.

### CHARLS Variables Used:

#### Wave 1:

HA054S1	CULTIVATED LAND
HA054S2	CULTIVATED LAND
HA054S3	CULTIVATED LAND
HA054S4	CULTIVATED LAND
HA054S5	CULTIVATED LAND
HA055_1_	THE NUMBER OF CULTIVATED LAND
HA055_2_	THE NUMBER OF CULTIVATED LAND
HA055_3_	THE NUMBER OF CULTIVATED LAND
HA055_4_	THE NUMBER OF CULTIVATED LAND
HA057_1_	RENT
HA057_2_	RENT
HA057_3_	RENT
HA057_4_	RENT

#### Wave 2:

HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA055_1_	Area (Mu)
HA055_2_	Area (Mu)
HA055_3_	Area (Mu)
HA055_4_	Area (Mu)
HA057_1_	Rent Per Mu Per Year
HA057_2_	Rent Per Mu Per Year
HA057_3_	Rent Per Mu Per Year
HA057_4_	Rent Per Mu Per Year

#### Wave 3:

HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA055_1_	Area (Mu)
HA055_2_	Area (Mu)
HA055_3_	Area (Mu)
HA055_4_	Area (Mu)
HA057_1_	Rent Per Mu Per Year
HA057_2_	Rent Per Mu Per Year
HA057_3_	Rent Per Mu Per Year
HA057_4_	Rent Per Mu Per Year

#### Wave 4:

HA054_S1	Cultivated Land
HA054_S2	Forest Land



---

HA054_S3	Pasture
HA054_S4	Pond
HA054_S5	None of the Above
HA055_1_	Land Size for Land[1]
HA055_2_	Land Size for Land[2]
HA055_3_	Land Size for Land[3]
HA055_4_	Land Size for Land[4]
HA057_1_	Rent Per Mu for Land[1]
HA057_2_	Rent Per Mu for Land[2]
HA057_3_	Rent Per Mu for Land[3]
HA057_4_	Rent Per Mu for Land[4]

**Household value of livestock & fisheries**

Wave	Variable	Label	Type
1	HH1AAGRI	hh1aagri:w1 Asset: HHold livestock & fisheries	Cont
2	HH2AAGRI	hh2aagri:w2 Asset: HHold livestock & fisheries	Cont
3	HH3AAGRI	hh3aagri:w3 Asset: HHold livestock & fisheries	Cont
4	HH4AAGRI	hh4aagri:w4 Asset: HHold livestock & fisheries	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1AAGRI	17358	2367.61	19756.15	0.00	700000.00
HH2AAGRI	17572	1668.32	21160.55	0.00	1000000.00
HH3AAGRI	20205	1553.02	21633.65	0.00	1000000.00
HH4AAGRI	19415	3255.73	47553.48	0.00	3000000.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwAAGRI indicates the total value of all livestock (e.g. chicken, duck, cattle, pig, sheep) and aquatic life at the household level. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAAGRI is coded as blank missing (.) if the respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Waves 1 to 3, respondents are asked whether their household engaged in agricultural work (including cropping, forestry, livestock, and fish) in the past year. If the respondent reports their household engaged in agricultural activities, they are asked whether their household grew any livestock or aquatic life in the past year. If the respondent reports their household grew livestock or aquatic life, they are asked to report the current value of all livestock (including chicken, duck, cattle, pig, sheep, etc.) and aquatic life.

At Wave 4, respondents are asked whether their household engaged in agricultural activities (including cropping, forestry, livestock, and fish) or selling agricultural products they produced at market in the past year. If the respondent reports their household engaged in agricultural activities, they are asked whether their household raised any livestock (including chicken, duck, cattle, pig, sheep, etc.) or fish in the past year? If the respondent reports their household raised livestock or fish, they are asked to report the current value of all livestock (including chicken, duck, cattle, pig, sheep, etc.) and aquatic life.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2, Wave 3, and Wave 4 Household Income files.

**Differences with the RAND HRS/Harmonized HRS**

This variable is not available in RAND HRS.

**CHARLS Variables Used:**

## Wave 1:

GB001	Did Your Household Engage in Agricultural Work
GB007	Did Your Household Grow Any Livestock or Fish Last Year
GB008	Value of All Livestock

## Wave 2:

GB001	Other Household Members Engage in Agricultural Work
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life

## Wave 3:

GB001	Other Household Members Engage in Agricultural Work
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life

## Wave 4:

GB001_W4	Engage in Agricultural Work
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of All Livestock or Aquatic Life

<b>Household value of personal loans</b>
--

Wave	Variable	Label	Type
1	HH1ALEND	hh1alend:w1 Asset: HHold total amount of personal loans lent	Cont
2	HH2ALEND	hh2alend:w2 Asset: HHold total amount of personal loans lent	Cont
1	HH1ABORR	hh1aborr:w1 Asset: HHold total amount of personal loans owed	Cont
2	HH2ABORR	hh2aborr:w2 Asset: HHold total amount of personal loans owed	Cont
1	HH1APLOAN	hh1aploan:w1 Asset: HHold net value of personal loan	Cont
2	HH2APLOAN	hh2aploan:w2 Asset: HHold net value of personal loan	Cont
3	H3ALEND	h3alend:w3 Asset: r+s total amount of personal loans lent	Cont
4	H4ALEND	h4alend:w4 Asset: r+s total amount of personal loans lent	Cont
2	H2ABORR	h2aborr:w2 Asset: r+s total amount of personal loans owed	Cont
3	H3ABORR	h3aborr:w3 Asset: r+s total amount of personal loans owed	Cont
4	H4ABORR	h4aborr:w4 Asset: r+s total amount of personal loans owed	Cont
3	H3APLOAN	h3aploan:w3 Asset: r+s net value of personal loan	Cont
4	H4APLOAN	h4aploan:w4 Asset: r+s net value of personal loan	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ALEND	17343	2710.99	79701.44	0.00	10000000.00
HH2ALEND	17559	10523.07	497276.45	0.00	46000000.00
HH1ABORR	17335	8599.23	35956.14	0.00	1500000.00
HH2ABORR	17591	9971.80	68455.94	0.00	5000000.00
HH1APLOAN	17271	-5853.86	84707.34	-1500000.00	9900000.00
HH2APLOAN	17450	652.32	496001.73	-1850000.00	45940000.00
H3ALEND	17965	9123.21	99417.86	0.00	5000000.00
H4ALEND	19115	14193.96	195678.35	0.00	11000000.00
H2ABORR	14883	12354.86	72782.85	0.00	5000000.00
H3ABORR	17972	21646.77	1046783.97	0.00	14000000.00
H4ABORR	19149	15090.31	122917.58	0.00	8000000.00
H3APLOAN	17848	-12846.94	1052587.74	-139980000.00	5000000.00
H4APLOAN	19043	-1171.55	178757.13	-5500000.00	8000000.00

### General Comments:

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

### How Constructed:

HHwALEND indicates the amount of money that the household has lent to other families or individuals and has not been repaid. HHwALEND is available at Waves 1 and 2.

HwALEND indicates the amount of money that the respondent and spouse have lent to other families or individuals have not been repaid. HwALEND is available starting at Wave 3.

HHwABORR indicates the amount of money is the household owes to other families, individuals, or employers. HHwABORR is available at Waves 1 and 2.

HwABORR indicates the amount of money is the respondent and spouse owe to other families, individuals, or employers. HwABORR is available starting at Wave 2.

HHwAPLOAN indicates the net value of monetary assets at the household level at Waves 1 and 2.

HHwAPLOAN = HHwALEND - HHwABORR

HwAPLOAN indicates the net value of monetary assets at the couple level starting at Wave 3.

HwAPLOAN = HwALEND - HwABORR

HwALEND, HwABORR, and HwAPLOAN are assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwALEND, HwALEND, HHwABORR, HwABORR, HHwAPLOAN, and HwAPLOAN are coded as blank missing (.) if the respondent did not respond to this wave.

## Cross Wave Differences in CHARLS

At Waves 1 and 2, respondents are asked whether their household has lent money to other families or individuals and has not been repaid. If the respondent reports their household has lent money to others and has not been repaid, they are asked to report the amount of money that has not been repaid.

Starting at Wave 3, respondents are asked whether they have lent money to other families or individuals and have not been repaid. If the respondent reports they have lent money to others and have not been repaid, they are asked to report the amount of money that has not been repaid.

At Waves 1 and 2, respondents are asked to report the amount of money their household owes to other families, individuals, or employers (not including mortgage loans).

At Wave 2, respondents are asked to report the total amount of personal loans that remain unpaid.

Starting at Wave 3, respondents are asked to report the amount of money they owe to other families, individuals, or employers.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2 Household Income file.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files.

## Differences with the RAND HRS/Harmonized HRS

This variable is not included in RAND HRS.

### CHARLS Variables Used:

Wave 1:

HA069	HAVE YOU LENT TO ANYONE AND NOT BEEN REPAID
HA070	WHAT IS THE TOTAL AMOUNT OF THE LOANS
HA072	amount of loans still owed to family or work

Wave 2:

HA069	Lent Out Unpaid
HA070	Amount of The Loans
HA072	Amount of Debt

Wave 3:

HC039_W3	Amount of Funds Remaining That Are Obligated Pay to Rotating Sa
HC040_W3	Amount of Funds Remaining That Are Obligated Pay to Rotating Sa
HD004_W3	Credit Card Balance

Wave 4:

HC039_W3	Lend Money to Others
HC040_W3	Money Lent to Others
HD004_W3	Other Borrowing

<b>Other HH members' financial asset and debts</b>
--

Wave	Variable	Label	Type
1	HH1AFSST	hh1afsst:w1 Asset: value of other HH members financial asset	Cont
2	HH2AFSST	hh2afsst:w2 Asset: value of other HH members financial asset	Cont
1	HH1AFLOA	hh1afloa:w1 Asset: value of other HH members financial debt	Cont
2	HH2AFLOA	hh2afloa:w2 Asset: value of other HH members financial debt	Cont
1	HH1AFHHM	hh1afhmm:w1 Asset: net value of other HH members financial a	Cont
2	HH2AFHHM	hh2afhmm:w2 Asset: net value of other HH members financial a	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1AFSST	15721	3080.86	18973.72	0.00	1000000.00
HH2AFSST	17202	4047.40	27759.54	0.00	1000000.00
HH1AFLOA	17191	1914.72	17235.69	0.00	500000.00
HH2AFLOA	17951	2822.84	32930.47	0.00	2000000.00
HH1AFHHM	15641	1312.37	23692.52	-500000.00	850000.00
HH2AFHHM	17182	1290.30	42763.22	-2000000.00	1000000.00

### General Comments:

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

### How Constructed:

HHwAFSST indicates the value of financial assets (e.g. cash, deposits, stocks, mutual funds) of other household members (not including respondent and spouse) at Waves 1 and 2.

HHwAFLOA indicates the value of unpaid loans (not including mortgages) of other household members (not including respondent and spouse) at Waves 1 and 2.

HwATOTFA indicates the net value of financial assets of other household members (not including the respondent and spouse) at Waves 1 and 2. HwATOTFA is derived by subtracting value of unpaid loans from value of financial assets of other household members.

HHwAFHHM = HHwAFSST - HHwAFLOA

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwAFSST and HHwAFLOA are coded as blank missing (.) if the respondent did not respond to this wave.

### Cross Wave Differences in CHARLS

Starting at Wave 3, the questions about the value of financial assets and debts for other household members are not asked in the CHARLS survey.

In the current release of the CHARLS data there is a high number of households with completely missing information in the Wave 2 Household Income file.

## Differences with the RAND HRS/Harmonized HRS

This variable is not available in RAND HRS.

### CHARLS Variables Used:

#### Wave 1:

HA074_10_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_11_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_12_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_13_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_14_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_15_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_16_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_1_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_2_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_3_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_4_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_5_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_6_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_7_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_8_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_9_	THE VALUE OF ALL FINANCIAL ASSETS
HA075_10_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_11_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_12_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_13_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_14_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_15_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_16_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_1_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_2_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_3_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_4_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_5_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_6_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_7_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_8_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_9_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS

#### Wave 2:

HA074_10_	Value of Financial Assets of Household Member [10]
HA074_11_	Value of Financial Assets of Household Member [11]
HA074_12_	Value of Financial Assets of Household Member [12]
HA074_13_	Value of Financial Assets of Household Member [13]
HA074_14_	Value of Financial Assets of Household Member [14]
HA074_15_	Value of Financial Assets of Household Member [15]
HA074_16_	Value of Financial Assets of Household Member [16]
HA074_1_	Value of Financial Assets of Household Member [1]
HA074_2_	Value of Financial Assets of Household Member [2]
HA074_3_	Value of Financial Assets of Household Member [3]
HA074_4_	Value of Financial Assets of Household Member [4]
HA074_5_	Value of Financial Assets of Household Member [5]
HA074_6_	Value of Financial Assets of Household Member [6]
HA074_7_	Value of Financial Assets of Household Member [7]
HA074_8_	Value of Financial Assets of Household Member [8]
HA074_9_	Value of Financial Assets of Household Member [9]
HA075_10_	Value of Unpaid Loans of Household Member [10]
HA075_11_	Value of Unpaid Loans of Household Member [11]
HA075_12_	Value of Unpaid Loans of Household Member [12]
HA075_13_	Value of Unpaid Loans of Household Member [13]
HA075_14_	Value of Unpaid Loans of Household Member [14]
HA075_15_	Value of Unpaid Loans of Household Member [15]
HA075_16_	Value of Unpaid Loans of Household Member [16]
HA075_1_	Value of Unpaid Loans of Household Member [1]
HA075_2_	Value of Unpaid Loans of Household Member [2]



---

HA075_3_	Value of Unpaid Loans of Household Member [3]
HA075_4_	Value of Unpaid Loans of Household Member [4]
HA075_5_	Value of Unpaid Loans of Household Member [5]
HA075_6_	Value of Unpaid Loans of Household Member [6]
HA075_7_	Value of Unpaid Loans of Household Member [7]
HA075_8_	Value of Unpaid Loans of Household Member [8]
HA075_9_	Value of Unpaid Loans of Household Member [9]

<b>Net value of non-housing financial wealth</b>
--

Wave	Variable	Label	Type
1	HH1ATOTF	hh1atotf:w1 Asset: HHold net value of non-housing financial	Cont
2	HH2ATOTF	hh2atotf:w2 Asset: HHold net value of non-housing financial	Cont
3	H3ATOTF	h3atotf:w3 Asset: r+s net value of non-housing financial wea	Cont
4	H4ATOTF	h4atotf:w4 Asset: r+s net value of non-housing financial wea	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATOTF	13690	781.05	118950.46	-1975000.00	5130000.00
HH2ATOTF	11169	7245.25	639872.76	-4999250.00	46007500.00
H3ATOTF	15151	7645.38	266800.15	-8099000.00	9902500.00
H4ATOTF	16075	33187.09	1268895.11	-10997501.00	110048000.00

### General Comments:

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

### How Constructed:

HHwATOTF indicates the net value of non-housing financial wealth at household level at Waves 1 and 2.

HHwATOTF is derived by adding the following items:

1. HwATOTFA is the total individual financial assets at the couple level
2. HHwAFHHM is the net value of financial assets of other household members
3. HHwAPLOAN is the net value of monetary assets at the household level

$$\text{HHwATOTF} = \text{HwATOTFA} + \text{HHwAFHHM} + \text{HHwAPLOAN}$$

HwATOTF indicates the net value of non-housing financial wealth at the couple level starting at Wave 3.

HwATOTF is derived by adding the following items:

1. HwATOTFA is the total individual financial assets at the couple level
2. HwAPLOAN is the net value of monetary assets at the couple level

$$\text{HwATOTF} = \text{HwATOTFA} + \text{HwAPLOAN}$$

Note, the total for HHwATOTF does not include the value of any real estate or vehicles. The total for HwATOTF does include the value of mortgages for real estate (primary and secondary residences) but not the value of primary residence, real estate, or vehicles.

HHwATOTF and HwATOTF are assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwATOTF and HwATOTF are coded as blank missing (.) if the respondent did not respond to this wave.

## Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

## Differences with the RAND HRS/Harmonized HRS

These values in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

## CHARLS Variables Used:

Wave 1:

BE001	marital status
HA069	HAVE YOU LENT TO ANYONE AND NOT BEEN REPAID
HA070	WHAT IS THE TOTAL AMOUNT OF THE LOANS
HA072	amount of loans still owed to family or work
HA074_10_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_11_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_12_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_13_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_14_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_15_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_16_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_1_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_2_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_3_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_4_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_5_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_6_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_7_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_8_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_9_	THE VALUE OF ALL FINANCIAL ASSETS
HA075_10_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_11_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_12_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_13_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_14_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_15_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_16_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_1_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_2_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_3_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_4_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_5_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_6_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_7_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_8_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_9_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HC001	HOW MUCH CASH ARE YOU HOLDING
HC003_1	AMOUNT
HC003_2	PERCENT
HC004	ARE YOU CURRENTLY HOLDING ANY DEPOSIT
HC005	WHAT IS THE TOTAL AMOUNT OF DEPOSITS
HC007	DO YOU HAVE ANY GOVERNMENT BONDS
HC008	WHAT IS THE TOTAL FACE VALUE OF GOVERNMENT BONDS
HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
HC013	WHAT IS THE PRESENT MARKET VALUE OF YOUR STOCKS

HC018	WHAT IS THE PRESENT MARKET VALUE OF YOUR FUNDS
HC021	other deposits
HC022	What is the value of such assets? (yuan)
HC027	DO YOU HAVE PUBLIC HOUSING FUND
HC028	WHAT IS THE TOTAL AMOUNT OF MONEY IN PUBLIC HOUSING FUND
HC030	DO YOU HAVE JIZIKUAN ARE STILL HOLDING
HC031	WHAT IS THE AMOUNT OF YOUR JIZIKUAN
HC033	DO YOU HAVE ANY UNPAID SALARY
HC034	WHAT IS THE AMOUNT OF YOUR UNPAID SALARY
HD001	total of loans not repaid yet
HD003	CREDIT CARD BALANCE
PROXY	interview done by proxy
Wave 2:	
BE001	Marital Status
HA069	Lent Out Unpaid
HA070	Amount of The Loans
HA072	Amount of Debt
HA074_10_	Value of Financial Assets of Household Member [10]
HA074_11_	Value of Financial Assets of Household Member [11]
HA074_12_	Value of Financial Assets of Household Member [12]
HA074_13_	Value of Financial Assets of Household Member [13]
HA074_14_	Value of Financial Assets of Household Member [14]
HA074_15_	Value of Financial Assets of Household Member [15]
HA074_16_	Value of Financial Assets of Household Member [16]
HA074_1_	Value of Financial Assets of Household Member [1]
HA074_2_	Value of Financial Assets of Household Member [2]
HA074_3_	Value of Financial Assets of Household Member [3]
HA074_4_	Value of Financial Assets of Household Member [4]
HA074_5_	Value of Financial Assets of Household Member [5]
HA074_6_	Value of Financial Assets of Household Member [6]
HA074_7_	Value of Financial Assets of Household Member [7]
HA074_8_	Value of Financial Assets of Household Member [8]
HA074_9_	Value of Financial Assets of Household Member [9]
HA075_10_	Value of Unpaid Loans of Household Member [10]
HA075_11_	Value of Unpaid Loans of Household Member [11]
HA075_12_	Value of Unpaid Loans of Household Member [12]
HA075_13_	Value of Unpaid Loans of Household Member [13]
HA075_14_	Value of Unpaid Loans of Household Member [14]
HA075_15_	Value of Unpaid Loans of Household Member [15]
HA075_16_	Value of Unpaid Loans of Household Member [16]
HA075_1_	Value of Unpaid Loans of Household Member [1]
HA075_2_	Value of Unpaid Loans of Household Member [2]
HA075_3_	Value of Unpaid Loans of Household Member [3]
HA075_4_	Value of Unpaid Loans of Household Member [4]
HA075_5_	Value of Unpaid Loans of Household Member [5]
HA075_6_	Value of Unpaid Loans of Household Member [6]
HA075_7_	Value of Unpaid Loans of Household Member [7]
HA075_8_	Value of Unpaid Loans of Household Member [8]
HA075_9_	Value of Unpaid Loans of Household Member [9]
HC001	Amount of Cash
HC003_1	Ownership of Cash: Yuan
HC003_2	Ownership of Cash: Percent
HC005	Amount of Deposit
HC007	Government Bonds
HC008	Face Value of Government Bonds
HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HC021	Other Assets Not under Name
HC022	Value of Other Assets
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary
HD001	Amount of Unpaid Loan
HD002_W2_1	Amount of Personal Borrowing

HD003	Credit Card Balance
HD012	Receive Assistance in Answering
HD012	Receive Assistance in Answering
Wave 3:	
BE001	Marital Status
HA054_W3	The Bank Loan to Finance The Purchase Houses
HA055_W3	The Outstanding Amount of The Loans
HC001	Amount of Cash
HC005	Amount of Deposit
HC007	Government Bonds
HC008	Face Value of Government Bonds
HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HC021	Other Assets Not under Name
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary
HC039_W3	Amount of Funds Remaining That Are Obligated Pay to Rotating Sa
HC040_W3	Amount of Funds Remaining That Are Obligated Pay to Rotating Sa
HD001	Amount of Unpaid Loan
HD003	Credit Card Balance
HD004_W3	Credit Card Balance
Wave 4:	
HA054_W3	Bank Load to Purchase Houses
HA055_W3	Amount of Bank Load
HC001	Cash at Home
HC003_W4	Electronic Money
HC005	Deposit
HC007	Own Bond
HC008	Bond
HC010	Own Stock
HC013	Stock
HC015	Own Mutual Fund
HC016_W4	Own Other Financial Products
HC017_W4	Other Financial Products
HC018	Mutual Fund
HC021	Any Financial Products Under Other Person's Name
HC022	Value of Financial Products Under Other Person's Name
HC027	Own Public Housing Funding
HC028	Public Housing Funding
HC030	Own Jizikuan
HC031	Jizikuan
HC033	Have Unpaid Salary
HC034	Unpaid Salary
HC039_W3	Lend Money to Others
HC040_W3	Money Lent to Others
HD001	Loan
HD003	Credit Card Balance
HD004_W3	Other Borrowing

**Total Wealth**

Wave	Variable	Label	Type
1	HH1ATOTB	hh1latotb:w1 Asset: HHold total wealth	Cont
2	HH2ATOTB	hh2atotb:w2 Asset: HHold total wealth	Cont
3	H3ATOTB	h3atotb:w3 Asset: r+s total wealth	Cont
4	H4ATOTB	h4atotb:w4 Asset: r+s total wealth	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATOTB	12486	163917.49	971987.89	-1072080.00	40754800.00
HH2ATOTB	8081	302215.67	2746326.36	-4247550.00	108004064.00
H3ATOTB	12079	286199.44	1966250.02	-3512000.00	80024704.00
H4ATOTB	15211	870310.20	6673225.09	-7098850.00	270221792.00

**General Comments:**

In the CHARLS survey, assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

**How Constructed:**

HHwATOTB indicates the net value of all financial assets at the household level at Waves 1 and 2.

HHwATOTB is derived by adding the following items:

1. HwACHCK is the total value of cash and deposits in financial institutions at the couple level
2. HwASTCK is the total value of stocks and mutual funds at the couple level
3. HwABOND is the total value of government bonds at the couple level
4. HwAOTHR is the total value of all other savings at the couple level
5. HHwARLES is the net value of other real estate at the household level
6. HHwAHOUS is the value of primary residence with the percentage of ownership at the household level
7. HHwATRAN is the total value of transportation vehicles at the household level
8. HHwADURBL is the total value of non-financial assets at the household level
9. HHwAFIXC is the total value of fixed capital assets at the household level
10. HHwALAND is the total value of irrigable land at the household level
11. HHwAAGRI is the total value of all livestock and aquatic life at the household level

12. HHwAPLOAN is the net value of monetary assets at the household level

13. HHwAFHHM is the net value of financial assets of other household members

And subtracting:

1. HwADEBT is the total value of debt at the couple level

2. HHwAMORT is the value of the household's mortgage of primary residence

$$\text{HHwATOTB} = \text{HwACHCK} + \text{HwASTCK} + \text{HwABOND} + \text{HwAOTHR} + \text{HHwARLES} + \text{HHwAHOUS} + \text{HHwATRAN} + \text{HHwADURBL} + \text{HHwAFIXC} + \text{HHwALAND} + \text{HHwAAGRI} + \text{HHwAPLOAN} + \text{HHwAFHHM} - \text{HwADEBT} - \text{HHwAMORT}$$

HwATOTB indicates the net value of all financial assets at couple level at Waves 3 and 4.

At Wave 3, HwATOTB is derived by adding the following items:

1. HwACHCK is the total value of cash and deposits in financial institutions at the couple level

2. HwASTCK is the total value of stocks and mutual funds at the couple level

3. HwABOND is the total value of government bonds at the couple level

4. HwAOTHR is the total value of all other savings at the couple level

5. HwARLES is the net value of other real estate at the couple level

6. HHwAHOUS is the value of primary residence with the percentage of ownership at the household level

7. HwATRAN is the total value of transportation vehicles at the couple level

8. HwADURBL is the total value of non-financial assets at the couple level

9. HwAFIXC is the total value of fixed capital assets at the couple level

10. HwALAND is the total value of irrigable land at the couple level

11. HHwAAGRI is the total value of all livestock and aquatic life at the household level

12. HwAPLOAN is the net value of monetary assets at the couple level

And subtracting:

1. HwADEBT is the total value of debt at the couple level

$$\text{HwATOTB} = \text{HwACHCK} + \text{HwASTCK} + \text{HwABOND} + \text{HwAOTHR} + \text{HwARLES} + \text{HHwAHOUS} + \text{HwATRAN} + \text{HwADURBL} + \text{HwAFIXC} + \text{HwALAND} + \text{HHwAAGRI} + \text{HwAPLOAN} - \text{HwADEBT}$$

At Wave 3, even though all other components of HwATOTB are couple level, HwATOTB does include the Household value of agricultural assets (livestock and fisheries) and Value of primary residence with percentage of ownership at the household level because CHARLS continued to ask these questions at the household level at Wave 3.

At Wave 4, HwATOTB is derived by adding the following items:

1. HwACHCK is the total value of cash and deposits in financial institutions at the couple level

2. HwASTCK is the total value of stocks and mutual funds at the couple level

3. HwABOND is the total value of government bonds at the couple level

4. HwAOTHR is the total value of all other savings at the couple level

5. HwARLES is the net value of other real estate at the couple level

6. HwAHOUS is the value of primary residence with the percentage of ownership at the couple level
7. HwATRAN is the total value of transportation vehicles at the couple level
8. HwADURBL is the total value of non-financial assets at the couple level
9. HwAFIXC is the total value of fixed capital assets at the couple level
10. HwALAND is the total value of irrigable land at the couple level
11. HHwAAGRI is the total value of all livestock and aquatic life at the household level
12. HwAPLOAN is the net value of monetary assets at the couple level

And subtracting:

1. HwADEBT is the total value of debt at the couple level

$HwATOTB = HwACHCK + HwASTCK + HwABOND + HwAOTHR + HwARLES + HwAHOUS + HwATRAN + HwADURBL + HwAFIXC + HwALAND + HHwAAGRI + HwAPLOAN - HwADEBT$

At Wave 4, even though all other components of HwATOTB are couple level, HwATOTB does include the Household value of agricultural assets (livestock and fisheries) because CHARLS continued to ask this question at the household level at Wave 4.

HHwATOTB and HwATOTB are assigned special missing value (.b) if the respondent's spouse is absent. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HHwATOTB and HwATOTB are coded as blank missing (.) if the respondent did not respond to this wave.

## Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

At Waves 1 and 2, HHwATOTB is constructed at the household level.

Starting at Wave 3, HwATOTB is constructed at the couple level.

At Wave 3, even though all other components of HwATOTB are couple level, HwATOTB does include the Household value of agricultural assets (livestock and fisheries) and Value of primary residence with percentage of ownership at the household level because CHARLS continued to ask these questions at the household level at Wave 3.

At Wave 4, even though all other components of HwATOTB are couple level, HwATOTB does include the Household value of agricultural assets (livestock and fisheries) because CHARLS continued to ask this question at the household level at Wave 4.

## Differences with the RAND HRS/Harmonized HRS

These values in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

## CHARLS Variables Used:

Wave 1:

BE001	marital status
GB001	Did Your Household Engage in Agricultural Work
GB007	Did Your Household Grow Any Livestock or Fish Last Year
GB008	Value of All Livestock
HA007	OWNSHIP OF CURRENT RESIDENCE
HA009_10_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_11_	PERCENT OWNED BY HOUSEHOLD MEMBER



HA009_12_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_13_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_14_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_1_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_2_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_3_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_4_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_5_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_6_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_7_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_8_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA009_9_	PERCENT OWNED BY HOUSEHOLD MEMBER
HA011_1	TOTAL PRICE
HA011_2	UNIT PRICE
HA013	TAKE OUT A BANK LOAN TO FINANCE
HA014	WHAT IS THE OUTSTANDING AMOUNT OF THE LOANS
HA027	OTHER RESIDENCES
HA031_1_S1	percent owned by non household members
HA031_1_S10	percent owned by non household members
HA031_1_S11	percent owned by non household members
HA031_1_S2	percent owned by non household members
HA031_1_S3	percent owned by non household members
HA031_1_S4	percent owned by non household members
HA031_1_S5	percent owned by non household members
HA031_1_S6	percent owned by non household members
HA031_1_S7	percent owned by non household members
HA031_1_S8	percent owned by non household members
HA031_1_S9	percent owned by non household members
HA034_1_1_	TOTAL PRICE
HA034_1_2_	TOTAL PRICE
HA034_1_3_	TOTAL PRICE
HA034_2_1_	UNIT PRICE
HA034_2_2_	UNIT PRICE
HA034_2_3_	UNIT PRICE
HA036_1_	TAKE OUT A BANK LOAN TO FINANCE
HA036_2_	TAKE OUT A BANK LOAN TO FINANCE
HA036_3_	TAKE OUT A BANK LOAN TO FINANCE
HA037_1_	THE OUTSTANDING AMOUNT OF THE LOANS
HA037_2_	THE OUTSTANDING AMOUNT OF THE LOANS
HA038_1_	THE MONTHLY MORTGAGE PAYMENT
HA038_2_	THE MONTHLY MORTGAGE PAYMENT
HA051_1_	THE CONSTRUCTION AREA
HA051_2_	THE CONSTRUCTION AREA
HA051_3_	THE CONSTRUCTION AREA
HA054S1	CULTIVATED LAND
HA054S2	CULTIVATED LAND
HA054S3	CULTIVATED LAND
HA054S4	CULTIVATED LAND
HA054S5	CULTIVATED LAND
HA055_1_	THE NUMBER OF CULTIVATED LAND
HA055_2_	THE NUMBER OF CULTIVATED LAND
HA055_3_	THE NUMBER OF CULTIVATED LAND
HA055_4_	THE NUMBER OF CULTIVATED LAND
HA057_1_	RENT
HA057_2_	RENT
HA057_3_	RENT
HA057_4_	RENT
HA065S1	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S10	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S11	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S12	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S13	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S14	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S15	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S16	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S17	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S2	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S3	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S4	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.

HA065S5	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S6	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S7	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S8	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065S9	HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES.
HA065_1_10_	THE ASSET?
HA065_1_11_	THE ASSET?
HA065_1_12_	THE ASSET?
HA065_1_13_	THE ASSET?
HA065_1_14_	THE ASSET?
HA065_1_15_	THE ASSET?
HA065_1_16_	THE ASSET?
HA065_1_17_	THE ASSET?
HA065_1_1_	THE ASSET?
HA065_1_2_	THE ASSET?
HA065_1_3_	THE ASSET?
HA065_1_4_	THE ASSET?
HA065_1_5_	THE ASSET?
HA065_1_6_	THE ASSET?
HA065_1_7_	THE ASSET?
HA065_1_8_	THE ASSET?
HA065_1_9_	THE ASSET?
HA066_1_1_	THE ASSET'S CURRENT VALUE
HA066_1_2_	THE ASSET'S CURRENT VALUE
HA066_1_3_	THE ASSET'S CURRENT VALUE
HA066_1_4_	THE ASSET'S CURRENT VALUE
HA066_1_5_	THE ASSET'S CURRENT VALUE
HA067	THE CURRENT VALUE OF OTHER FIXED CAPITAL ASSETS
HA068_1	WORTH
HA074_10_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_11_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_12_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_13_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_14_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_15_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_16_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_1_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_2_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_3_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_4_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_5_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_6_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_7_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_8_	THE VALUE OF ALL FINANCIAL ASSETS
HA074_9_	THE VALUE OF ALL FINANCIAL ASSETS
HA075_10_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_11_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_12_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_13_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_14_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_15_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_16_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_1_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_2_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_3_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_4_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_5_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_6_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_7_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_8_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HA075_9_	THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
HC001	HOW MUCH CASH ARE YOU HOLDING
HC003_1	AMOUNT
HC003_2	PERCENT
HC004	ARE YOU CURRENTLY HOLDING ANY DEPOSIT
HC005	WHAT IS THE TOTAL AMOUNT OF DEPOSITS
HC007	DO YOU HAVE ANY GOVERNMENT BONDS
HC008	WHAT IS THE TOTAL FACE VALUE OF GOVERNMENT BONDS
HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR

HC013 WHAT IS THE PRESENT MARKET VALUE OF YOUR STOCKS  
 HC015 HAVE YOU HELD ANY FUNDS IN THE PAST YEAR  
 HC018 WHAT IS THE PRESENT MARKET VALUE OF YOUR FUNDS  
 HC021 other deposits  
 HC022 What is the value of such assets? (yuan)  
 HC027 DO YOU HAVE PUBLIC HOUSING FUND  
 HC028 WHAT IS THE TOTAL AMOUNT OF MONEY IN PUBLIC HOUSING FUND  
 HC030 DO YOU HAVE JIZIKUAN ARE STILL HOLDING  
 HC031 WHAT IS THE AMOUNT OF YOUR JIZIKUAN  
 HC033 DO YOU HAVE ANY UNPAID SALARY  
 HC034 WHAT IS THE AMOUNT OF YOUR UNPAID SALARY  
 HD001 total of loans not repaid yet  
 HD003 CREDIT CARD BALANCE  
 I001 THE TYPE OF AREA OF THE BUILDING  
 I002 What is the total housing land area  
 PROXY interview done by proxy  
 URBAN\_NBS Urban or Rural according to NBS

## Wave 2:

BE001 Martial Status  
 GB001 Other Household Members Engage in Agricultural Work  
 GB007 Grow Livestock or Aquatic Life  
 GB008 Current Value of Livestock and Aquatic Life  
 HA007 Ownship of Current Residence  
 HA009\_10\_ Percent Owned by Household Member [10]  
 HA009\_11\_ Percent Owned by Household Member [11]  
 HA009\_12\_ Percent Owned by Household Member [12]  
 HA009\_13\_ Percent Owned by Household Member [13]  
 HA009\_14\_ Percent Owned by Household Member [14]  
 HA009\_1\_ Percent Owned by Household Member [1]  
 HA009\_2\_ Percent Owned by Household Member [2]  
 HA009\_3\_ Percent Owned by Household Member [3]  
 HA009\_4\_ Percent Owned by Household Member [4]  
 HA009\_5\_ Percent Owned by Household Member [5]  
 HA009\_6\_ Percent Owned by Household Member [6]  
 HA009\_7\_ Percent Owned by Household Member [7]  
 HA009\_8\_ Percent Owned by Household Member [8]  
 HA009\_9\_ Percent Owned by Household Member [9]  
 HA011\_1 The Present Market Value of House: Total Price  
 HA011\_2 The Present Market Value of House: Unit Price  
 HA013 Take Out A Bank Loan  
 HA014 The Outstanding Amount of The Loans  
 HA027 Other Residential Properties  
 HA028 The Number of Other Properties  
 HA029\_W2 Obtained New House  
 HA029\_W2\_1 The Number of New Houses  
 HA031\_1\_S1 Household Member [1] Owns The House  
 HA031\_1\_S10 Household Member [10] Owns The House  
 HA031\_1\_S11 Household Member [11] Owns The House  
 HA031\_1\_S2 Household Member [2] Owns The House  
 HA031\_1\_S3 Household Member [3] Owns The House  
 HA031\_1\_S4 Household Member [4] Owns The House  
 HA031\_1\_S5 Household Member [5] Owns The House  
 HA031\_1\_S6 Household Member [6] Owns The House  
 HA031\_1\_S7 Household Member [7] Owns The House  
 HA031\_1\_S8 Household Member [8] Owns The House  
 HA031\_1\_S9 Household Member [9] Owns The House  
 HA034\_1\_1\_ The Present Market Value of House: Total Price  
 HA034\_1\_2\_ The Present Market Value of House: Total Price  
 HA034\_1\_3\_ The Present Market Value of House: Total Price  
 HA034\_1\_4\_ The Present Market Value of House: Total Price  
 HA034\_2\_1\_ The Present Market Value of House: Unit Price  
 HA034\_2\_2\_ The Present Market Value of House: Unit Price  
 HA034\_2\_3\_ The Present Market Value of House: Unit Price  
 HA034\_2\_4\_ The Present Market Value of House: Unit Price  
 HA036\_1\_ Take Out A Bank Loan for House  
 HA036\_2\_ Take Out A Bank Loan for House  
 HA036\_3\_ Take Out A Bank Loan for House  
 HA036\_4\_ Take Out A Bank Loan for House  
 HA037\_1\_ The Outstanding Amount of The Loans for House

HA037_2_	The Outstanding Amount of The Loans for House
HA038_1_	The Monthly Mortgage Payment for House
HA038_2_	The Monthly Mortgage Payment for House
HA051_1_	Construction Area (M2)
HA051_2_	Construction Area (M2)
HA051_3_	Construction Area (M2)
HA051_4_	Construction Area (M2)
HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA055_1_	Area (Mu)
HA055_2_	Area (Mu)
HA055_3_	Area (Mu)
HA055_4_	Area (Mu)
HA057_1_	Rent Per Mu Per Year
HA057_2_	Rent Per Mu Per Year
HA057_3_	Rent Per Mu Per Year
HA057_4_	Rent Per Mu Per Year
HA065S1	Own Assets: Automobile
HA065S10	Own Assets: Camera
HA065S11	Own Assets: Air Conditioner
HA065S12	Own Assets: Mobile Phone
HA065S13	Own Assets: Furniture
HA065S14	Own Assets: Music Instrument
HA065S15	Own Assets: Valuable Decorations, Ornaments
HA065S16	Own Assets: Treasure and Precious Metal
HA065S17	Own Assets: Antique, Paintings and Artistic Work
HA065S2	Own Assets: Electric Bicycle
HA065S3	Own Assets: Motorcycle
HA065S4	Own Assets: Refrigerator
HA065S5	Own Assets: Washing Machine
HA065S6	Own Assets: TV
HA065S7	Own Assets: Computer
HA065S8	Own Assets: Stereo System
HA065S9	Own Assets: Video Camera
HA065_1_10_	Current Value of Asset: Camera
HA065_1_11_	Current Value of Asset: Air Conditioner
HA065_1_12_	Current Value of Asset: Mobile Phone
HA065_1_13_	Current Value of Asset: Furniture
HA065_1_14_	Current Value of Asset: Music Instrument
HA065_1_15_	Current Value of Asset: Valuable Decorations, Ornaments
HA065_1_16_	Current Value of Asset: Treasure and Precious Metal
HA065_1_17_	Current Value of Asset: Antique, Paintings and Artistic Work
HA065_1_1_	Current Value of Asset: Automobile
HA065_1_2_	Current Value of Asset: Electric Bicycle
HA065_1_3_	Current Value of Asset: Motorcycle
HA065_1_4_	Current Value of Asset: Refrigerator
HA065_1_5_	Current Value of Asset: Washing Machine
HA065_1_6_	Current Value of Asset: TV
HA065_1_7_	Current Value of Asset: Computer
HA065_1_8_	Current Value of Asset: Stereo System
HA065_1_9_	Current Value of Asset: Video Camera
HA066S1	Own Fixed Assets: Tractor
HA066S2	Own Fixed Assets: Thresher
HA066S3	Own Fixed Assets: Tractor Tools
HA066S4	Own Fixed Assets: Water Pump
HA066S5	Own Fixed Assets: Processing Equipment
HA066S6	Own Fixed Assets: None
HA066_1_1_	Current Value of Fixed Asset: Tractor
HA066_1_2_	Current Value of Fixed Asset: Thresher
HA066_1_3_	Current Value of Fixed Asset: Tractor Tools
HA066_1_4_	Current Value of Fixed Asset: Water Pump
HA066_1_5_	Current Value of Fixed Asset: Processing Equipment
HA067	Current Value of Other Fixed Assets
HA068	Other Durable or Fixed Assets
HA074_10_	Value of Financial Assets of Household Member [10]
HA074_11_	Value of Financial Assets of Household Member [11]

HA074_12_	Value of Financial Assets of Household Member [12]
HA074_13_	Value of Financial Assets of Household Member [13]
HA074_14_	Value of Financial Assets of Household Member [14]
HA074_15_	Value of Financial Assets of Household Member [15]
HA074_16_	Value of Financial Assets of Household Member [16]
HA074_1_	Value of Financial Assets of Household Member [1]
HA074_2_	Value of Financial Assets of Household Member [2]
HA074_3_	Value of Financial Assets of Household Member [3]
HA074_4_	Value of Financial Assets of Household Member [4]
HA074_5_	Value of Financial Assets of Household Member [5]
HA074_6_	Value of Financial Assets of Household Member [6]
HA074_7_	Value of Financial Assets of Household Member [7]
HA074_8_	Value of Financial Assets of Household Member [8]
HA074_9_	Value of Financial Assets of Household Member [9]
HA075_10_	Value of Unpaid Loans of Household Member [10]
HA075_11_	Value of Unpaid Loans of Household Member [11]
HA075_12_	Value of Unpaid Loans of Household Member [12]
HA075_13_	Value of Unpaid Loans of Household Member [13]
HA075_14_	Value of Unpaid Loans of Household Member [14]
HA075_15_	Value of Unpaid Loans of Household Member [15]
HA075_16_	Value of Unpaid Loans of Household Member [16]
HA075_1_	Value of Unpaid Loans of Household Member [1]
HA075_2_	Value of Unpaid Loans of Household Member [2]
HA075_3_	Value of Unpaid Loans of Household Member [3]
HA075_4_	Value of Unpaid Loans of Household Member [4]
HA075_5_	Value of Unpaid Loans of Household Member [5]
HA075_6_	Value of Unpaid Loans of Household Member [6]
HA075_7_	Value of Unpaid Loans of Household Member [7]
HA075_8_	Value of Unpaid Loans of Household Member [8]
HA075_9_	Value of Unpaid Loans of Household Member [9]
HC001	Amount of Cash
HC003_1	Ownership of Cash: Yuan
HC003_2	Ownership of Cash: Percent
HC005	Amount of Deposit
HC007	Government Bonds
HC008	Face Value of Government Bonds
HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HC021	Other Assets Not under Name
HC022	Value of Other Assets
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary
HD001	Amount of Unpaid Loan
HD002_W2_1	Amount of Personal Borrowing
HD003	Credit Card Balance
HD012	Receive Assistance in Answering
HD012	Receive Assistance in Answering
I001	Construction area
I002	Total housing land area
URBAN_NBS	Urban or Rural according to NBS
XRTYPE	R Interview Type
Wave 3:	
BE001	Marital Status
GB001	Other Household Members Engage in Agricultural Work
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life
HA007	Ownship of Current Residence
HA009_10_	Percent Owned by Household Member [10]
HA009_1_	Percent Owned by Household Member [1]
HA009_2_	Percent Owned by Household Member [2]
HA009_3_	Percent Owned by Household Member [3]
HA009_4_	Percent Owned by Household Member [4]
HA009_5_	Percent Owned by Household Member [5]

HA009_6_	Percent Owned by Household Member [6]
HA009_7_	Percent Owned by Household Member [7]
HA009_8_	Percent Owned by Household Member [8]
HA009_9_	Percent Owned by Household Member [9]
HA011_1	The Present Market Value of House: Total Price
HA011_2	The Present Market Value of House: Unit Price
HA027	Other Residential Properties
HA028	The Number of Other Properties
HA029_W2_1	The Number of New Houses
HA031_1_S1	Household Member [1] Owns The House
HA031_1_S2	Household Member [2] Owns The House
HA031_2_S1	Household Member [1] Owns The House
HA031_2_S2	Household Member [2] Owns The House
HA034_1_1_	The Present Market Value of House: Total Price
HA034_2_1_	The Present Market Value of House: Unit Price
HA034_2_2_	The Present Market Value of House: Unit Price
HA034_2_3_	The Present Market Value of House: Unit Price
HA034_2_4_	The Present Market Value of House: Unit Price
HA051_1_	Construction Area (M2)
HA051_2_	Construction Area (M2)
HA051_3_	Construction Area (M2)
HA051_4_	Construction Area (M2)
HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA054_W3	The Bank Loan to Finance The Purchase Houses
HA055_1_	Area (Mu)
HA055_2_	Area (Mu)
HA055_3_	Area (Mu)
HA055_4_	Area (Mu)
HA055_W3	The Outstanding Amount of The Loans
HA057_1_	Rent Per Mu Per Year
HA057_2_	Rent Per Mu Per Year
HA057_3_	Rent Per Mu Per Year
HA057_4_	Rent Per Mu Per Year
HA065S1	Own Assets: Automobile
HA065S10	Own Assets: Camera
HA065S11	Own Assets: Air Conditioner
HA065S12	Own Assets: Mobile Phone
HA065S13	Own Assets: Furniture
HA065S14	Own Assets: Music Instrument
HA065S15	Own Assets: Valuable Decorations, Ornaments
HA065S16	Own Assets: Treasure and Precious Metal
HA065S17	Own Assets: Antique, Paintings and Artistic Work
HA065S18	Own Assets: None
HA065S2	Own Assets: Electric Bicycle
HA065S3	Own Assets: Motorcycle
HA065S4	Own Assets: Refrigerator
HA065S5	Own Assets: Washing Machine
HA065S6	Own Assets: TV
HA065S7	Own Assets: Computer
HA065S8	Own Assets: Stereo System
HA065S9	Own Assets: Video Camera
HA065_1_10_	Current Value of Asset: Camera
HA065_1_11_	Current Value of Asset: Air Conditioner
HA065_1_12_	Current Value of Asset: Mobile Phone
HA065_1_13_	Current Value of Asset: Furniture
HA065_1_14_	Current Value of Asset: Music Instrument
HA065_1_15_	Current Value of Asset: Valuable Decorations, Ornaments
HA065_1_16_	Current Value of Asset: Treasure and Precious Metal
HA065_1_17_	Current Value of Asset: Antique, Paintings and Artistic Work
HA065_1_1_	Current Value of Asset: Automobile
HA065_1_2_	Current Value of Asset: Electric Bicycle
HA065_1_3_	Current Value of Asset: Motorcycle
HA065_1_4_	Current Value of Asset: Refrigerator
HA065_1_5_	Current Value of Asset: Washing Machine
HA065_1_6_	Current Value of Asset: TV

HA065_1_7_	Current Value of Asset: Computer
HA065_1_8_	Current Value of Asset: Stereo System
HA065_1_9_	Current Value of Asset: Video Camera
HA066S1	Own Fixed Assets: Tractor
HA066S2	Own Fixed Assets: Thresher
HA066S3	Own Fixed Assets: Tractor Tools
HA066S4	Own Fixed Assets: Water Pump
HA066S5	Own Fixed Assets: Processing Equipment
HA066S6	Own Fixed Assets: None
HA066_1_1_	Current Value of Fixed Asset: Tractor
HA066_1_2_	Current Value of Fixed Asset: Thresher
HA066_1_3_	Current Value of Fixed Asset: Tractor Tools
HA066_1_4_	Current Value of Fixed Asset: Water Pump
HA066_1_5_	Current Value of Fixed Asset: Processing Equipment
HA067	Current Value of Other Fixed Assets
HA068	Other Durable or Fixed Assets
HA068_1	Current Value of Other Durable of Fixed Assets
HC001	Amount of Cash
HC005	Amount of Deposit
HC007	Government Bonds
HC008	Face Value of Government Bonds
HC010	Stocks
HC013	Market Value of Stocks
HC015	Funds
HC018	Market Value of Funds
HC021	Other Assets Not under Name
HC027	Public Housing Fund
HC028	Amount of Public Housing Fund
HC030	Jizikuan
HC031	Amount of Jizikuan
HC033	Unpaid Salary
HC034	Amount of Unpaid Salary
HC039_W3	Amount of Funds Remaining That Are Obligated Pay to Rotating Sa
HC040_W3	Amount of Funds Remaining That Are Obligated Pay to Rotating Sa
HD001	Amount of Unpaid Loan
HD003	Credit Card Balance
HD004_W3	Credit Card Balance
Wave 4:	
GB001_W4	Engage in Agricultural Work
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of All Livestock or Aquatic Life
HA000_W4_0	Number of Houses
HA000_W4_1_1_	Check Ownership Structure of House[1]
HA000_W4_1_2_	Check Ownership Structure of House[2]
HA000_W4_1_3_	Check Ownership Structure of House[3]
HA000_W4_1_4_	Check Ownership Structure of House[4]
HA000_W4_1_5_	Check Ownership Structure of House[5]
HA000_W4_1_6_	Check Ownership Structure of House[6]
HA000_W4_1_7_	Check Ownership Structure of House[7]
HA000_W4_2_1_1_	Percent Household Head and Spouse Own House[1]
HA000_W4_2_1_2_	Percent Household Head and Spouse Own House[2]
HA000_W4_2_1_3_	Percent Household Head and Spouse Own House[3]
HA000_W4_2_1_4_	Percent Household Head and Spouse Own House[4]
HA000_W4_2_1_5_	Percent Household Head and Spouse Own House[5]
HA000_W4_2_1_6_	Percent Household Head and Spouse Own House[6]
HA000_W4_2_1_7_	Percent Household Head and Spouse Own House[7]
HA000_W4_2_1__S1	Household Head and Spouse Own House[1]
HA000_W4_2_2__S1	Household Head and Spouse Own House[2]
HA000_W4_2_3__S1	Household Head and Spouse Own House[3]
HA000_W4_2_4__S1	Household Head and Spouse Own House[4]
HA000_W4_2_5__S1	Household Head and Spouse Own House[5]
HA000_W4_2_6__S1	Household Head and Spouse Own House[6]
HA001_W4_1_1_1_	Percent Household Head and Spouse Own House[1]
HA001_W4_1_1_2_	Percent Household Head and Spouse Own House[2]
HA001_W4_1_1_3_	Percent Household Head and Spouse Own House[3]
HA001_W4_1_1_4_	Percent Household Head and Spouse Own House[4]
HA001_W4_1_1_5_	Percent Household Head and Spouse Own House[5]
HA001_W4_1_1_6_	Percent Household Head and Spouse Own House[6]
HA001_W4_1_1__S1	Household Head and Spouse Own House[1]

HA001_W4_1_2__S1	Household Head and Spouse Own House[2]
HA001_W4_1_3__S1	Household Head and Spouse Own House[3]
HA001_W4_1_4__S1	Household Head and Spouse Own House[4]
HA001_W4_1_5__S1	Household Head and Spouse Own House[5]
HA001_W4_1_6__S1	Household Head and Spouse Own House[6]
HA004_W4_1_	Total Value or Unit Value for House[1]
HA004_W4_1_1_	Total Value for House[1]
HA004_W4_1_2_	Total Value for House[2]
HA004_W4_1_3_	Total Value for House[3]
HA004_W4_1_4_	Total Value for House[4]
HA004_W4_1_5_	Total Value for House[5]
HA004_W4_1_6_	Total Value for House[6]
HA004_W4_1_7_	Total Value for House[7]
HA004_W4_2_	Total Value or Unit Value for House[2]
HA004_W4_2_1_	Unit Value for House[1]
HA004_W4_2_2_	Unit Value for House[2]
HA004_W4_2_3_	Unit Value for House[3]
HA004_W4_2_4_	Unit Value for House[4]
HA004_W4_2_5_	Unit Value for House[5]
HA004_W4_3_	Total Value or Unit Value for House[3]
HA004_W4_4_	Total Value or Unit Value for House[4]
HA004_W4_5_	Total Value or Unit Value for House[5]
HA004_W4_6_	Total Value or Unit Value for House[6]
HA004_W4_7_	Total Value or Unit Value for House[7]
HA023_W4	The Number of Other/New Houses
HA027_W4_1_	Household Head and Spouse Have All Ownership for House[1]
HA027_W4_2_	Household Head and Spouse Have All Ownership for House[2]
HA027_W4_3_	Household Head and Spouse Have All Ownership for House[3]
HA027_W4_4_	Household Head and Spouse Have All Ownership for House[4]
HA027_W4_5_	Household Head and Spouse Have All Ownership for House[5]
HA027_W4_6_	Household Head and Spouse Have All Ownership for House[6]
HA027_W4_7_	Household Head and Spouse Have All Ownership for House[7]
HA028_W4_1_1_	Percent Household Head and Spouse Own House[1]
HA028_W4_1_2_	Percent Household Head and Spouse Own House[2]
HA028_W4_1_3_	Percent Household Head and Spouse Own House[3]
HA028_W4_1__S1	Household Head and Spouse Own House[1]
HA028_W4_2__S1	Household Head and Spouse Own House[2]
HA028_W4_3__S1	Household Head and Spouse Own House[3]
HA035_W4_10_	House Size for House[10]
HA035_W4_11_	House Size for House[11]
HA035_W4_1_	House Size for House[1]
HA035_W4_2_	House Size for House[2]
HA035_W4_3_	House Size for House[3]
HA035_W4_4_	House Size for House[4]
HA035_W4_5_	House Size for House[5]
HA035_W4_6_	House Size for House[6]
HA035_W4_7_	House Size for House[7]
HA035_W4_8_	House Size for House[8]
HA035_W4_9_	House Size for House[9]
HA036_W4_10_	Total Value or Unit Value for House[10]
HA036_W4_11_	Total Value or Unit Value for House[11]
HA036_W4_1_	Total Value or Unit Value for House[1]
HA036_W4_1_10_	Total Value for House[10]
HA036_W4_1_11_	Total Value for House[11]
HA036_W4_1_1_	Total Value for House[1]
HA036_W4_1_2_	Total Value for House[2]
HA036_W4_1_3_	Total Value for House[3]
HA036_W4_1_4_	Total Value for House[4]
HA036_W4_1_5_	Total Value for House[5]
HA036_W4_1_6_	Total Value for House[6]
HA036_W4_1_7_	Total Value for House[7]
HA036_W4_1_8_	Total Value for House[8]
HA036_W4_1_9_	Total Value for House[9]
HA036_W4_2_	Total Value or Unit Value for House[2]
HA036_W4_2_1_	Unit Value for House[1]
HA036_W4_2_2_	Unit Value for House[2]
HA036_W4_2_3_	Unit Value for House[3]
HA036_W4_2_4_	Unit Value for House[4]
HA036_W4_2_5_	Unit Value for House[5]



HA036_W4_2_7_	Unit Value for House[7]
HA036_W4_3_	Total Value or Unit Value for House[3]
HA036_W4_4_	Total Value or Unit Value for House[4]
HA036_W4_5_	Total Value or Unit Value for House[5]
HA036_W4_6_	Total Value or Unit Value for House[6]
HA036_W4_7_	Total Value or Unit Value for House[7]
HA036_W4_8_	Total Value or Unit Value for House[8]
HA036_W4_9_	Total Value or Unit Value for House[9]
HA054_S1	Cultivated Land
HA054_S2	Forest Land
HA054_S3	Pasture
HA054_S4	Pond
HA054_S5	None of the Above
HA054_W3	Bank Load to Purchase Houses
HA055_1_	Land Size for Land[1]
HA055_2_	Land Size for Land[2]
HA055_3_	Land Size for Land[3]
HA055_4_	Land Size for Land[4]
HA055_W3	Amount of Bank Load
HA057_1_	Rent Per Mu for Land[1]
HA057_2_	Rent Per Mu for Land[2]
HA057_3_	Rent Per Mu for Land[3]
HA057_4_	Rent Per Mu for Land[4]
HA065_1	Automobile Value
HA065_10	Camera Value
HA065_11	Air Conditioner Value
HA065_12	Mobile Phone Value
HA065_13	Furniture Value
HA065_14	Music Instrument Value
HA065_15	Valuable Decorations, Ornaments Value
HA065_16	Treasures and Precious Metal Value
HA065_17	Artistic Work Value
HA065_18	Air Purifier Value
HA065_2	Electric Bicycle Value
HA065_3	Motorcycle Value
HA065_4	Refrigerator Value
HA065_5	Washing Machine Value
HA065_6	TV Value
HA065_7	Computer Value
HA065_8	Stereo System Value
HA065_9	Video Camera Value
HA065_S1	Automobile
HA065_S10	Camera
HA065_S11	Air Conditioner
HA065_S12	Mobile Phone
HA065_S13	Furniture
HA065_S14	Music Instrument
HA065_S15	Valuable Decorations, Ornaments
HA065_S16	Treasures and Precious Metal
HA065_S17	Artistic Work
HA065_S18	Air Purifier
HA065_S2	Electric Bicycle
HA065_S3	Motorcycle
HA065_S4	Refrigerator
HA065_S5	Washing Machine
HA065_S6	TV
HA065_S7	Computer
HA065_S8	Stereo System
HA065_S9	Video Camera
HA066_W4_1	Tractor Value
HA066_W4_2	Thresher Value
HA066_W4_3	Harvester Value
HA066_W4_4	Water Pump Value
HA066_W4_5	Processing Equipment Value
HA066_W4_6	Seeder Value
HA066_W4_7	Agricultural Aircraft Value
HA066_W4_S1	Tractor
HA066_W4_S2	Thresher
HA066_W4_S3	Harvester

HA066_W4_S4	Water Pump
HA066_W4_S5	Processing Equipment
HA066_W4_S6	Seeder
HA066_W4_S7	Agricultural Aircraft
HA066_W4_S8	None of the Above
HA067_W4	Other Fixed Capital Assets
HA068	Other Durable or Fixed Asset Worth 500 Yuan or More
HC001	Cash at Home
HC003_W4	Electronic Money
HC005	Deposit
HC007	Own Bond
HC008	Bond
HC010	Own Stock
HC013	Stock
HC015	Own Mutual Fund
HC016_W4	Own Other Financial Products
HC017_W4	Other Financial Products
HC018	Mutual Fund
HC021	Any Financial Products Under Other Person's Name
HC022	Value of Financial Products Under Other Person's Name
HC027	Own Public Housing Funding
HC028	Public Housing Funding
HC030	Own Jizikuan
HC031	Jizikuan
HC033	Have Unpaid Salary
HC034	Unpaid Salary
HC039_W3	Lend Money to Others
HC040_W3	Money Lent to Others
HD001	Loan
HD003	Credit Card Balance
HD004_W3	Other Borrowing
I000_W4	Which House You Reside
I000_W4_11	Usable House Size
I000_W4_12	House Size
I000_W4_15_1	Total Value for the House
I000_W4_15_2	Unit Value for the House
I000_W4_4_1	Percent Household Head and Spouse Own the House
I000_W4_4_S1	Household Head and Spouse Own the House
ZHOUSENUM	Loaded House Number
ZSIZE_1_	House Size for Loaded House[1]
ZSIZE_2_	House Size for Loaded House[2]
ZSIZE_3_	House Size for Loaded House[3]
ZSIZE_4_	House Size for Loaded House[4]
ZSIZE_5_	House Size for Loaded House[5]
ZSIZE_6_	House Size for Loaded House[6]
ZSIZE_7_	House Size for Loaded House[7]

## **Section F: Income and Consumption**

<b>Earned Income</b>
----------------------

Wave	Variable	Label	Type
1	R1ITEARN	r1itearn:w1 income: r earnings after tax	Cont
2	R2ITEARN	r2itearn:w2 income: r earnings after tax	Cont
3	R3ITEARN	r3itearn:w3 income: r earnings after tax	Cont
4	R4ITEARN	r4itearn:w4 income: r earnings after tax	Cont
1	S1ITEARN	slitearn:w1 income: s earnings after tax	Cont
2	S2ITEARN	s2itearn:w2 income: s earnings after tax	Cont
3	S3ITEARN	s3itearn:w3 income: s earnings after tax	Cont
4	S4ITEARN	s4itearn:w4 income: s earnings after tax	Cont
1	R1ISFTEARN	r1isftearn:w1 income: source flag: earnings	Categ
2	R2ISFTEARN	r2isftearn:w2 income: source flag: earnings	Categ
1	S1ISFTEARN	s1isftearn:w1 income: source flag: earnings	Categ
2	S2ISFTEARN	s2isftearn:w2 income: source flag: earnings	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ITEARN	17488	4416.90	21000.18	0.00	2160000.00
R2ITEARN	18189	5213.49	16281.40	0.00	720000.00
R3ITEARN	19419	5222.89	15031.38	-47000.00	500000.00
R4ITEARN	19644	6879.90	47465.87	-20000.00	6000000.00
S1ITEARN	14811	4814.37	22425.72	0.00	2160000.00
S2ITEARN	15317	5652.63	17063.74	0.00	720000.00
S3ITEARN	16559	5578.04	15608.43	-47000.00	500000.00
S4ITEARN	16258	7650.85	51707.27	-20000.00	6000000.00
R1ISFTEARN	17488	0.36	0.71	0.00	2.00
R2ISFTEARN	18189	0.37	0.71	0.00	2.00
S1ISFTEARN	14811	0.39	0.73	0.00	2.00
S2ISFTEARN	15317	0.40	0.73	0.00	2.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

At Waves 1 and 2, respondents are asked to report their past year wages and bonus income in both the income module and the work module. Starting at Wave 3, respondents are only asked to report their past wages in the income module.

In the work module, respondents were asked to report their past year wages from agricultural work, non-agricultural work, side job, and all other bonuses. Earnings from agricultural work is asked as the average monthly wage. Earnings from side jobs is asked as the average monthly income but CHARLS does not include a question asking how many months the respondent worked in the past year at side jobs. Yearly earnings from side jobs is calculated using the number of months the respondent reported working at their main job in the last year. Respondents are not asked to exclude taxes or fees when reporting their agricultural income, side job income or all other bonuses. Respondents can report their non-agricultural income in seven ways: annually, monthly, weekly, daily, hourly, contract-based and performance-based. Respondents who report their wage is contract-based or performance-based are then asked to report the amount they were paid in the previous month. Respondents are not asked to exclude taxes or fees when reporting their weekly, daily or hourly wage from non-agricultural work.

At Waves 1 and 2, there are three conditions for the respondent to be assigned a value of zero:

1. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months.

2. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not receiving salary from the job, not expecting to go back to the job in the future or within 6 months but have worked for at least three months during lifetime.

3. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not working for at least one hour last week in wage or self-employed work or unpaid family business and not expecting to go back to the job in the future or within 6 months.

In the income module, respondents are asked to report their wages and bonus income in the past year. Respondents can report wages and bonus income in two ways: annually or monthly at Waves 1 to 2, and just annually starting at Wave 3. The amount of income is derived from first using the reported annual amount. If the annual amount is missing, then the amount is based on the monthly amount times 12. Starting at Wave 2, respondents who report wages and bonus income are then asked whether those wages exclude insurance, income tax, public housing funds and other fees. If their reported wages do not exclude insurance, income tax, etc., respondents are asked to report this amount. Respondents can report amount of insurance, income tax, etc. in three ways: per year, per month or percentage of wage. The amount of income in the past year is derived from subtracting the amount of insurance, income tax, etc. from the amount of wages and bonus income. Note: the amount of income in the past year may be negative if the amount of insurance, income tax, etc. is greater than the amount of wages and bonus income. Respondents who indicate that they do not receive any wages or bonus income in the past year were not asked the value of income question and are assigned a value of 0.

At Waves 1 and 2, if earnings income is asked both in the income module and the work module, in order not to double count the after tax earning income that the respondent received in the past year, RWRITEARN is the maximum value of a respondent's earnings from either income module or work module. Starting at Wave 3, earnings income is only asked in the income module and RWRITEARN is this value.

Don't know, refused, or other missing responses of RWRITEARN is assigned special missing codes .d, .r, .m respectively. RWRITEARN is set to plain missing (.) for respondents who did not respond to this wave.

SWITEARN is taken directly from the spouse's value to RWRITEARN. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWISFTEARN is a flag variable indicating whether the value of RWRITEARN is derived from the income or work module. A value of 0 indicates the respondent had no earnings income. A value of 1 indicates the value of RWRITEARN came from the income module. A value of 2 indicates the value of RWRITEARN came from the work module. Starting at Wave 3, respondents are only asked to report their past wages in the income module. Therefore, RWISFTEARN is not available starting at Wave 3.

SWISFTEARN is a flag variable indicating whether the value of SWITEARN is derived from the income or work module. It is taken directly from the respondent's spouse's value of RWISFTEARN. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 3, respondents are only asked to report their past wages in the income module.

Starting at Wave 3, respondents are no longer able to report a monthly amount of wages and bonus income in the past year.

Starting at Wave 2, respondents are asked in the income module if their reported wages and bonus income in the past year excludes insurance, income tax, etc. If their reported wages and bonus income do not exclude insurance, income tax, etc. respondents are asked to report this amount.

In the current release of the CHARLS data there is a high number of individuals with missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files.

### Differences with the RAND HRS/Harmonized HRS

Earnings income in CHARLS is measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Unlike the RAND HRS, RWRITEARN in Waves 1 and 2 of CHARLS only includes wages and bonus income and taking the maximum value of the wage income from either income module or work module. In RAND HRS, RWRITEARN also includes 2nd job, overtime pay/commissions/tips, and professional practice or trade income.

### CHARLS Variables Used:

#### Wave 1:

FC001	Did you work for other famers in wage for at least ten days in
FC004	How many months did you work on [j] in wage for other famers i
FC007	What is the average monthly wage did you get in the last month?
FC019	DO YOU CURRENTLY HAVE MORE THAN ONE JOB
FE001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FE002	HOW MANY DAYS A WEEK DO YOU USUALLY WORK
FE003	HOW MANY HOURS DO YOU USUALLY WORK PER DAY
FF001	HOW IS YOUR WAGE PAID MAINLY
FF002	THE AFTER TAX ANNUAL SALARY
FF004	THE AFTER TAX AVERAGE MONTHLY SALARY
FF006	THE USUAL WEEKLY WAGE
FF008	THE USUAL DAILY WAGE
FF010	YOUR HOURLY WAGE
FF012	HOW MUCH IN AVERAGE DO YOU RECEIVE PER MONTH AFTER TAX
FF014	the value of all other bonuses
FG002_10_	THE VALUE OF THE SUBSIDY
FG002_1_	THE VALUE OF THE SUBSIDY
FG002_2_	THE VALUE OF THE SUBSIDY
FG002_3_	THE VALUE OF THE SUBSIDY
FG002_4_	THE VALUE OF THE SUBSIDY
FG002_5_	THE VALUE OF THE SUBSIDY
FG002_6_	THE VALUE OF THE SUBSIDY
FG002_7_	THE VALUE OF THE SUBSIDY
FG002_8_	THE VALUE OF THE SUBSIDY
FG002_9_	THE VALUE OF THE SUBSIDY
FH001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FH010	ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE LAST YE
FJ003	THE AVERAGE MONTHLY INCOME
GA001	Did you receive any wage and bonus income in the past year?
GA002	How much did you receive last year?(yuan/year)
GA002_1	or yuan/month

#### Wave 2:

FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC001	Any Work for Other Farmers in Wage
FC004	How Many Months Did You Work for Other Farmers
FC007	Average Monthly Income
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in the Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FF001	Pattern of Wage Payment
FF002_1	After-tax Salary of Last Year(Yuan)
FF004_1	After-tax Salary of Last Month(Yuan)

FF006	After-tax Salary of Last Week
FF008	Daily Wage
FF010	Hourly Wage
FF012_1	How Much Do You Receive Last Month(Yuan)
FF014	All Other Bonus in the Past Year
FH009	Do Any Other Household Member Work in This Activity
FH010	Net Income from This Activity
FJ003	Monthly Income of Side Jobs
XF1	Preload Work Variable
XRTYPE	R Interview Type
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 3:	
GA001	Received Wage Last Year
GA002	Received Amount of Income
Wave 4:	
GA001	Receive Wage and Bonus Income
GA002	How Much Receive
GA002_W2_1	Exclude Insurance and Some Others
GA002_W2_2	Total Excluded Amount
GA002_W2_2A	Yuan/Year
GA002_W2_2B	Yuan/Month
GA002_W2_2C	Percent of Wage

<b>Total Capital Income</b>
-----------------------------

Wave	Variable	Label	Type
1	R1ITSEMP	r1itsemp:w1 income: r self-employment after tax	Cont
2	R2ITSEMP	r2itsemp:w2 income: r self-employment after tax	Cont
3	R3ITSEMP	r3itsemp:w3 income: r self-employment after tax	Cont
1	S1ITSEMP	slitsemp:w1 income: s self-employment after tax	Cont
2	S2ITSEMP	s2itsemp:w2 income: s self-employment after tax	Cont
3	S3ITSEMP	s3itsemp:w3 income: s self-employment after tax	Cont
1	HH1ITSEMP	hh1itsemp:w1 income: HHold self-employed income after tax	Cont
2	HH2ITSEMP	hh2itsemp:w2 income: HHold self-employed income after tax	Cont
3	HH3ITSEMP	hh3itsemp:w3 income: HHold self-employed income after tax	Cont
4	HH4ITSEMP	hh4itsemp:w4 income: HHold self-employed income after tax	Cont
1	R1ITREST	r1itrest:w1 income: r financial assets income before tax	Cont
2	R2ITREST	r2itrest:w2 income: r financial assets income before tax	Cont
1	S1ITREST	s1itrest:w1 income: s financial assets income before tax	Cont
2	S2ITREST	s2itrest:w2 income: s financial assets income before tax	Cont
1	HH1ITREST	hh1itrest:w1 income: HHold interest and financial assets inc	Cont
2	HH2ITREST	hh2itrest:w2 income: HHold interest and financial assets inc	Cont
1	HH1IRENT	hh1irent:w1 income: HHold rental income before tax	Cont
2	HH2IRENT	hh2irent:w2 income: HHold rental income before tax	Cont
3	HH3IRENT	hh3irent:w3 income: HHold rental income before tax	Cont
4	HH4IRENT	hh4irent:w4 income: HHold rental income before tax	Cont
1	HH1ICAP	hh1icap:w1 income: HHold total capital income	Cont
2	HH2ICAP	hh2icap:w2 income: HHold total capital income	Cont
3	HH3ICAP	hh3icap:w3 income: HHold total capital income	Cont
4	HH4ICAP	hh4icap:w4 income: HHold total capital income	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ITSEMP	14196	988.85	12147.46	0.00	1000000.00
R2ITSEMP	14925	1086.51	13402.20	-600000.00	1000000.00
R3ITSEMP	15897	1789.30	19969.19	-170000.00	1450000.00
S1ITSEMP	11848	1028.85	12660.04	0.00	1000000.00
S2ITSEMP	12404	1221.68	14207.82	-600000.00	1000000.00
S3ITSEMP	13167	2013.32	21570.21	-170000.00	1450000.00
HH1ITSEMP	16738	4181.99	17769.53	-540000.00	600000.00
HH2ITSEMP	16776	3361.67	43651.40	-2997300.00	1340000.00
HH3ITSEMP	19514	3166.95	44030.45	-2000000.00	3000000.00
HH4ITSEMP	18176	7069.90	81265.95	-2980000.00	5000000.00
R1ITREST	17335	-222.94	16914.64	-2000000.00	450000.00
R2ITREST	16688	167.96	4638.94	0.00	450000.00
S1ITREST	14715	-231.49	18161.63	-2000000.00	450000.00
S2ITREST	14144	184.44	4946.59	0.00	450000.00
HH1ITREST	17397	44.40	2510.76	0.00	300000.00
HH2ITREST	17679	118.93	3358.71	0.00	200000.00
HH1IRENT	17362	294.37	3294.13	0.00	300050.00
HH2IRENT	17590	669.61	5762.74	0.00	372000.00
HH3IRENT	20220	933.57	6714.34	0.00	240000.00
HH4IRENT	17522	1389.93	10410.63	0.00	420000.00



HH1ICAP	11225	6424.53	27266.36	-540000.00	1015000.00
HH2ICAP	10172	6422.03	59946.22	-2997300.00	1641000.00
HH3ICAP	11846	6837.63	43587.59	-1785000.00	1210000.00
HH4ICAP	16193	8403.21	86668.77	-2979300.00	5000000.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

RwITSEMP is the respondent's after tax net income earned from self-employed activity in the last year and is available at Waves 1 to 3. It is the earned income minus the cost of: energy, housing or equipment rental, raw materials, transportation, marketing, wages, taxes, and other fees. If the respondent is a single operator and self-employed, then the amount is reported. Respondents who indicate that they do not engage in self-employment are assigned a value of zero. Respondents who report that they do engage in self-employment but that other household members are engaged in the same self-employed activity are not asked self-employed earnings here but instead report these earnings in the household income module. For these cases, RwITSEMP is assigned a value of zero. There are four conditions for the respondent to be considered not engaged in self-employment:

1. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months.

2. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not receiving salary from the job, not expecting to go back to the job in the future or within 6 months but have worked for at least three months during lifetime.

3. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not working for at least one hour last week in wage or self-employed work or unpaid family.

4. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months but having a non-agricultural job that is not self-employed or unpaid family business.

Don't know, refused, or other missing responses of RwITSEMP is assigned special missing codes .d, .r, .m respectively. RwITSEMP is set to plain missing (.) for respondents who did not respond to this wave. Starting at Wave 4, CHARLS no longer asks respondents about self-employment income.

SwITSEMP is taken directly from the spouse's measures in RwITSEMP. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HHwITSEMP is the total value of household after tax income from self-employed activities and is available at all waves. This includes the whole household's after tax net income earned from self-employed activity, and after tax net income from agricultural and non-agricultural self-employed activities from the entire household, as reported by the financial respondent. Entire household self-employed income from agricultural activities consists of 7 different components:

1. Value of all crop and forestry product produced last year
2. Value of livestock and aquatic life that were sold and consumed in the last year
3. Value of all livestock products produced (including the self-consumption value) in the past year, including milk, wool (including cashmere sheep or goat skin) and eggs

4. Cost of producing crop and forestry products including Seeds (including home-used seeds), fertilizer, organic fertilizer, pesticide, plastic sheets, hiring labor (including with machine or animals), land rents, rents (excluding land rents), irrigation, fuel, transportation, processing, marketing (including packaging, management fee))

5. Cost of purchasing the livestock and aquatic life

6. Cost of producing livestock and aquatic life in the past year (including feed, medicine, pasture fees, animal pens, wages, etc.)

7. The difference of current value of all livestock and last year value of all livestock. Livestock here includes chickens, ducks, cattle, pigs, sheep, etc.

Entire household self-employed income from non-agricultural activities includes:

1. Service, such as cooking, sewing, private clinic etc.

2. Transportation

3. Construction

4. Mining

5. Processing production

6. Business

7. Others

Please note, HHWITSEMP does not include other household members' after tax net income earned from self-employed activity in the last year because CHARLS does not ask this question in the questionnaire. In addition to the special missing values of RwiTSEMP and SwiTSEMP, special missing value .b is assigned if the respondent's spouse is absent. HHWITSEMP is set to plain missing (.) for respondents who did not respond to this wave.

RwiTREST is the respondent's financial asset income before tax and is only available at Wave 1 and 2. At Wave 1, respondents can report financial income in any of the following ways:

1. Income earned from stock. Respondents who own any stocks are asked about how much they have earned or lost in the past year. The net value of stock income is derived by taking the amount earned minus the amount lost.

2. Income earned from mutual funds. Respondents who own any mutual funds are asked about how much they have earned or lost in the past year. Net value of mutual funds income is derived by taking the amount earned minus the amount lost.

3. Income from other investments. Respondents who own other investments are asked about how much they received income from other investments.

Starting at Wave 2, respondents are only asked to report one financial asset income question which is "How much did you receive altogether from other investments in the past year?" Starting in Wave 3, financial asset interest income is no longer asked as part of the CHARLS survey.

Respondents who indicate that they have not received any financial income in the past year are not asked the value of financial income question and are assigned a value of 0 for RwiTREST. Don't know, refused, or other missing responses of RwiTREST are assigned special missing codes .d, .r, .m respectively. RwiTREST is set to plain missing (.) for respondents who did not respond to this wave.

SwiTREST is taken directly from the spouse's value to RwiTREST. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note, CHARLS does not ask other household member's respondent's financial asset income before tax question in the questionnaire. In addition to the special missing values of RwiTREST and SwiTREST, special missing value .b is assigned if the respondent's spouse is absent.

HHwITREST is financial asset income at the household level, the interest that are received from the money that was lent to others in the household level. HHwITREST is only available at Wave 1 and 2. HHwITREST is set to plain missing (.) for respondents who did not respond to this wave. Starting at Wave 3, CHARLS no longer asks respondents about household financial asset income.

HHwIRENT is the household rental income from non-financial assets and is available at all waves. This variable is reported by a financial respondent in the household income section.

The financial respondent reports total household income in the following ways:

1. Annual rental income for all rooms or houses that are currently leased. The rental income is reported monthly. Annual rental income is calculated by taking the monthly amount times 12.
2. Annual rental income for all leased rooms or houses that are received by the other household members.
3. Rental income from cultivated land, forest land, pasture and pond.
4. Rental income from other household assets other than housing or land, such as fixed capital, durables or livestock.

If the financial respondent indicates that the household has not received any rental income in the past year, the value of rental income is not asked and HHwIRENT is assigned a value of 0. Don't know, refused, or other missing responses of HHwIRENT are assigned special missing codes .d, .r, .m respectively. HHwIRENT is set to plain missing (.) for respondents who did not respond to this wave.

HHwICAP is the summary of the total household capital income that includes the household self-employment income, the household financial assets income and the household rental income from non-financial assets. Starting at Wave 3, total household capital income no longer includes respondent, spouse, or household financial asset income. Starting at Wave 4, total household capital income no longer includes respondent or spouse self-employment income.

HHwICAP = RwitSEMP + SwitSEMP + HHwITSEMP + RwitREST + SwitREST + HHwITREST + HHwIRENT at Waves 1 and 2.

HHwICAP = RwitSEMP + SwitSEMP + HHwITSEMP + HHwIRENT at Wave 3.

HHwICAP = HHwITSEMP + HHwIRENT at Wave 4.

HHwICAP is set to plain missing (.) for respondents who did not respond to this wave.

## Cross Wave Differences in CHARLS

Income earned from stock and mutual fund are not asked after Wave 1 in the CHARLS questionnaire.

At Wave 1, respondents can report interest and financial asset income in any of the following ways:

1. Income earned from stock. Respondents who own any stocks are asked about how much they have earned or lost in the past year. The net value of stock income is derived by taking the amount earned minus the amount lost.
2. Income earned from mutual funds. Respondents who own any mutual funds are asked about how much they have earned or lost in the past year. Net value of mutual funds income is derived by taking the amount earned minus the amount lost.
3. Income from other investments. Respondents who own other investments are asked about how much they received income from other investments.

Starting at Wave 2, respondents are only asked to report financial assets in the individual income section once with the following question:

1. How much did you receive altogether from other investments in the past year?

Starting at Wave 3, CHARLS no longer asks questions about financial asset income. Due to this RwitREST, SwitREST are not created after Wave 2. Also starting at Wave 3, CHARLS no longer asks questions about interest on loans lent out the household. Due to this HHwITREST is not created after Wave 2. Also because of this change in the survey, users should make note that starting at

Wave 3, total household capital income does not account for financial asset income or interest on loans lent out by the household, whereas it did in previous waves.

Starting at Wave 4, CHARLS no longer asks respondents about self-employment income.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 and Wave 3 Individual Income and the Wave 2 and Wave 3 Household Income files.

### Differences with the RAND HRS/Harmonized HRS

Variables related to the capital income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The components in this measure are different from the corollary measure in the RAND HRS. In the RAND HRS, capital income contains income from business, rental, stock and mutual funds, bonds, CDs and treasury bills, checking and saving accounts, dividend and interest, and trust fund or royalties. There are no questions asking about trust fund or royalties in CHARLS.

### CHARLS Variables Used:

Wave 1:

FC001	Did you work for other famers in wage for at least ten days in
FC004	How many months did you work on [j] in wage for other famers i
FC007	What is the average monthly wage did you get in the last month?
FC019	DO YOU CURRENTLY HAVE MORE THAN ONE JOB
FE001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FE002	HOW MANY DAYS A WEEK DO YOU USUALLY WORK
FE003	HOW MANY HOURS DO YOU USUALLY WORK PER DAY
FF001	HOW IS YOUR WAGE PAID MAINLY
FF002	THE AFTER TAX ANNUAL SALARY
FF004	THE AFTER TAX AVERAGE MONTHLY SALARY
FF006	THE USUAL WEEKLY WAGE
FF008	THE USUAL DAILY WAGE
FF010	YOUR HOURLY WAGE
FF012	HOW MUCH IN AVERAGE DO YOU RECEIVE PER MONTH AFTER TAX
FF014	the value of all other bonuses
FH009	DID ANY OTHER HOUSEHOLD MEMBERS WORK IN THE SAME SELF-EMPLOYED
FH010	ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE LAST YE
FJ003	THE AVERAGE MONTHLY INCOME
GB001	Did Your Household Engage in Agricultural Work
GB002_10_	Did This Household Member Engage in Agricultural Work
GB002_11_	Did This Household Member Engage in Agricultural Work
GB002_12_	Did This Household Member Engage in Agricultural Work
GB002_13_	Did This Household Member Engage in Agricultural Work
GB002_14_	Did This Household Member Engage in Agricultural Work
GB002_15_	Did This Household Member Engage in Agricultural Work
GB002_16_	Did This Household Member Engage in Agricultural Work
GB002_1_	Did This Household Member Engage in Agricultural Work
GB002_2_	Did This Household Member Engage in Agricultural Work
GB002_3_	Did This Household Member Engage in Agricultural Work
GB002_4_	Did This Household Member Engage in Agricultural Work
GB002_5_	Did This Household Member Engage in Agricultural Work
GB002_6_	Did This Household Member Engage in Agricultural Work
GB002_7_	Did This Household Member Engage in Agricultural Work
GB002_8_	Did This Household Member Engage in Agricultural Work
GB002_9_	Did This Household Member Engage in Agricultural Work
GB003	Did Your Household Engage in Cropping or Forestry Last Year
GB005	Value of All Crops and Forestry Products
GB006	Total Cost of Producing Crops
GB007	Did Your Household Grow Any Livestock or Fish Last Year
GB008	Value of All Livestock
GB009	Value of All Livestock and Aquatic Life at the Same Time of Las
GB010	HOW MUCH DID YOU SPEND PURCHASING NEW LIVESTOCK AND AQUATIC LIF
GB011	THE VALUE OF ALL LIVESTOCK AND AQUATIC LIFE THAT WERE SOLD OR C
GB012	THE VALUE OF ALL LIVESTOCK PRODUCTS PRODUCED
GB013	THE COST OF PRODUCING LIVESTOCK AND AQUATIC LIFE LAST YEAR

GC001	ENGAGE IN SELF-EMPLOYED ACTIVITIES
GC005_1_	NET INCOME FROM THE ACTIVITY
GC005_2_	NET INCOME FROM THE ACTIVITY
GC005_3_	NET INCOME FROM THE ACTIVITY
HA027	OTHER RESIDENCES
HA052	THE MONTHLY RENTAL INCOME FOR ALL ROOM OR HOUSES OWNED BY YOU
HA052_1	rent
HA053	rent
HA053_1	rent
HA054S1	CULTIVATED LAND
HA054S2	CULTIVATED LAND
HA054S3	CULTIVATED LAND
HA054S4	CULTIVATED LAND
HA054S5	CULTIVATED LAND
HA058_1_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA058_2_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA058_3_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA058_4_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA060_1_	RENTAL INCOME
HA060_2_	RENTAL INCOME
HA060_3_	RENTAL INCOME
HA060_4_	RENTAL INCOME
HA064	RENT
HA064_1	RENT
HA069	HAVE YOU LENT TO ANYONE AND NOT BEEN REPAID
HA071	HOW MUCH INTEREST INCOME IN PAST YEAR
HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
HC011	DID YOU EARN MONEY OR LOSE MONEY FROM STOCK
HC012	HOW MUCH DID YOU EARN OR LOSE
HC012_2	HOW MUCH DID YOU EARN OR LOSE
HC015	HAVE YOU HELD ANY FUNDS IN THE PAST YEAR
HC016	DID YOU EARN MONEY OR LOSE MONEY FROM HOLDING FUNDS
HC017	HOW MUCH DID YOU EARN OR LOSE
HC023	DID YOU RECEIVE ANY OTHER INCOME IN PAST YEAR
HC024	HOW MUCH DID YOU RECEIVE ALTOGETHER
Wave 2:	
A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
FC001	Any Work for Other Farmers in Wage
FC004	How Many Months Did You Work for Other Farmers
FC007	Average Monthly Income
FC019	More than One Non-Agricultural Job
FE001	How Many Months Did You Work in the Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FF001	Pattern of Wage Payment
FF002_1	After-tax Salary of Last Year(Yuan)
FF004_1	After-tax Salary of Last Month(Yuan)

FF006	After-tax Salary of Last Week
FF008	Daily Wage
FF010	Hourly Wage
FF012_1	How Much Do You Receive Last Month(Yuan)
FF012_2	How Much Do You Receive Last Month(Bonus)
FF014	All Other Bonus in the Past Year
FH009	Do Any Other Household Member Work in This Activity
FH010	Net Income from This Activity
FJ003	Monthly Income of Side Jobs
GB001	Other Household Members Engage in Agricultural Work
GB002S1	Household Member [1] Engaged in Agricultural
GB002S10	Household Member [10] Engaged in Agricultural
GB002S11	Household Member [11] Engaged in Agricultural
GB002S12	Household Member [12] Engaged in Agricultural
GB002S13	Household Member [13] Engaged in Agricultural
GB002S14	Household Member [14] Engaged in Agricultural
GB002S2	Household Member [2] Engaged in Agricultural
GB002S3	Household Member [3] Engaged in Agricultural
GB002S4	Household Member [4] Engaged in Agricultural
GB002S5	Household Member [5] Engaged in Agricultural
GB002S6	Household Member [6] Engaged in Agricultural
GB002S7	Household Member [7] Engaged in Agricultural
GB002S8	Household Member [8] Engaged in Agricultural
GB002S9	Household Member [9] Engaged in Agricultural
GB003	Engage in Cropping or Forestry
GB005_1	Total Value of Crops and Forestry
GB006	Cost of Crops and Forestry
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life
GB009	Value of Livestock and Aquatic Life of Last Year
GB010	Cost of Purchasing New Livestock and Aquatic Life
GB011_1	Value of Livestock and Aquatic Life, Sold or Consumed
GB012_1	Value of Livestock Products Produced, Sold or Consumed
GB013	Cost of Producing Livestock and Aquatic Life
GC001	Household Members Engage in Self-Employed Business
GC002	Number of Participated Small Businesses
GC005_1_	Income of The 1St Self-Employed Business
GC005_2_	Income of The 2Nd Self-Employed Business
GC005_3_	Income of The 3Rd Self-Employed Business
GC005_4_	Income of The 4Th Self-Employed Business
HA027	Other Residential Properties
HA052	Rental Income (Respondent or Spouse)
HA052_1	Rent (Yuan/Month)
HA053	Rental Income (Other Household Member)
HA053_1	Rent (Yuan/Month)
HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA058_1_	Rent Out Land
HA058_2_	Rent Out Land
HA058_3_	Rent Out Land
HA058_4_	Rent Out Land
HA060_1_	Income on Renting Out
HA060_2_	Income on Renting Out
HA060_3_	Income on Renting Out
HA060_4_	Income on Renting Out
HA064	Income for Renting Out Other Assets
HA064_1	Rent (Yuan)
HA069	Lent Out Unpaid
HA071	Interest Income
HC010	Stocks
HC015	Funds
HC023	Other Investments Income
HC024	Amount of Investment Income
HD012	Receive Assistance in Answering
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member

ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You

## Wave 3:

FH009	Do Any Other Household Member Work in This Activity
FH010	Net Income from This Activity
GB001	Other Household Members Engage in Agricultural Work
GB003	Engage in Cropping or Forestry
GB005_1	Total Value of Crops and Forestry
GB006	Cost of Crops and Forestry
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life
GB009	Value of Livestock and Aquatic Life of Last Year
GB010	Cost of Purchasing New Livestock and Aquatic Life
GB011_1	Value of Livestock and Aquatic Life, Sold or Consumed
GB012_1	Value of Livestock Products Produced, Sold or Consumed
GB013	Cost of Producing Livestock and Aquatic Life
GC001	Household Members Engage in Self-Employed Businesses
GC002	Number of Participated Small Businesses
GC005_1_	Income of The 1st Self-Employed Business
GC005_2_	Income of The 2nd Self-Employed Business
GC005_3_	Income of The 3rd Self-Employed Business
HA027	Other Residential Properties
HA052	Rental Income (Respondent or Spouse)
HA052_1	Rent (Yuan/Month)
HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA058_1_	Rent Out Land
HA058_2_	Rent Out Land
HA058_3_	Rent Out Land
HA058_4_	Rent Out Land
HA060_1_	Income on Renting Out
HA060_2_	Income on Renting Out
HA060_3_	Income on Renting Out
HA060_4_	Income on Renting Out
HA064	Income for Renting Out Other Assets
HA064_1	Rent (Yuan)

## Wave 4:

GB001_W4	Engage in Agricultural Work
GB003	Engage in Cropping or Forestry
GB005_1	Total Value of All Crops and Forestry
GB006	Total Cost of Producing Crops and Forestry
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of All Livestock or Aquatic Life
GB009	Last Year Value of All Livestock or Aquatic Life
GB010	Cost of New Livestock and Aquatic Life in the Past Year
GB011_1	Value of All Livestock and Aquatic Life Sold or Consumed
GB012_1	Value of All Livestock Products Produced
GB013	Cost of Producing Livestock and Aquatic Life

GC001	Engage in Self-employed Activities
GC002	Number of Self-employed Activities
GC005_1_	Net Income from Activity[1]
GC005_2_	Net Income from Activity[2]
GC005_3_	Net Income from Activity[3]
GC005_4_	Net Income from Activity[4]
HA000_W4_0	Number of Houses
HA005_W4_1_	House[1] Rent Out
HA005_W4_2_	House[2] Rent Out
HA005_W4_3_	House[3] Rent Out
HA005_W4_4_	House[4] Rent Out
HA005_W4_5_	House[5] Rent Out
HA005_W4_6_	House[6] Rent Out
HA005_W4_7_	House[7] Rent Out
HA006_W4_1_	House[1]'s Rent
HA006_W4_2_	House[2]'s Rent
HA006_W4_3_	House[3]'s Rent
HA006_W4_4_	House[4]'s Rent
HA006_W4_5_	House[5]'s Rent
HA006_W4_7_	House[7]'s Rent
HA023_W4	The Number of Other/New Houses
HA039_W4_10_	House[10] Rent Out
HA039_W4_11_	House[11] Rent Out
HA039_W4_1_	House[1] Rent Out
HA039_W4_2_	House[2] Rent Out
HA039_W4_3_	House[3] Rent Out
HA039_W4_4_	House[4] Rent Out
HA039_W4_5_	House[5] Rent Out
HA039_W4_6_	House[6] Rent Out
HA039_W4_7_	House[7] Rent Out
HA039_W4_8_	House[8] Rent Out
HA039_W4_9_	House[9] Rent Out
HA040_W4_10_	House[10]'s Rent
HA040_W4_1_	House[1]'s Rent
HA040_W4_2_	House[2]'s Rent
HA040_W4_3_	House[3]'s Rent
HA040_W4_4_	House[4]'s Rent
HA040_W4_9_	House[9]'s Rent
HA054_S1	Cultivated Land
HA054_S2	Forest Land
HA054_S3	Pasture
HA054_S4	Pond
HA054_S5	None of the Above
HA058_1_	Rent Out for Land[1]
HA058_2_	Rent Out for Land[2]
HA058_3_	Rent Out for Land[3]
HA058_4_	Rent Out for Land[4]
HA060_1_	Rent Earned for Land[1]
HA060_2_	Rent Earned for Land[2]
HA060_3_	Rent Earned for Land[3]
HA060_4_	Rent Earned for Land[4]
HA064	Rental Income from Other Household Assets
HA064_1	Rental Income You Earn



<b>Pension Income</b>
-----------------------

Wave	Variable	Label	Type
1	R1IPENI	r1ipeni:w1 income: r pension from income module	Cont
2	R2IPENI	r2ipeni:w2 income: r pension from income module	Cont
1	S1IPENI	s1ipeni:w1 income: s pension from income module	Cont
2	S2IPENI	s2ipeni:w2 income: s pension from income module	Cont
1	R1IPENA	r1ipena:w1 income: r private pension from work module before	Cont
2	R2IPENA	r2ipena:w2 income: r private pension from work module before	Cont
3	R3IPENA	r3ipena:w3 income: r private pension from work module before	Cont
4	R4IPENA	r4ipena:w4 income: r private pension from work module before	Cont
1	S1IPENA	s1ipena:w1 income: s private pension from work module before	Cont
2	S2IPENA	s2ipena:w2 income: s private pension from work module before	Cont
3	S3IPENA	s3ipena:w3 income: s private pension from work module before	Cont
4	S4IPENA	s4ipena:w4 income: s private pension from work module before	Cont
1	R1IPUBPEN	r1ipubpen:w1 income: r public pension from work module	Cont
2	R2IPUBPEN	r2ipubpen:w2 income: r public pension from work module	Cont
3	R3IPUBPEN	r3ipubpen:w3 income: r public pension from work module	Cont
4	R4IPUBPEN	r4ipubpen:w4 income: r public pension from work module	Cont
1	S1IPUBPEN	s1ipubpen:w1 income: s public pension from work module	Cont
2	S2IPUBPEN	s2ipubpen:w2 income: s public pension from work module	Cont
3	S3IPUBPEN	s3ipubpen:w3 income: s public pension from work module	Cont
4	S4IPUBPEN	s4ipubpen:w4 income: s public pension from work module	Cont
1	R1IPEN	r1ipen:w1 income: r total pension income	Cont
2	R2IPEN	r2ipen:w2 income: r total pension income	Cont
3	R3IPEN	r3ipen:w3 income: r total pension income	Cont
4	R4IPEN	r4ipen:w4 income: r total pension income	Cont
1	S1IPEN	s1ipen:w1 income: s total pension income	Cont
2	S2IPEN	s2ipen:w2 income: s total pension income	Cont
3	S3IPEN	s3ipen:w3 income: s total pension income	Cont
4	S4IPEN	s4ipen:w4 income: s total pension income	Cont
1	R1ISFPEN	r1isfpen:w1 r income: source flag: total pension	Categ
2	R2ISFPEN	r2isfpen:w2 r income: source flag: total pension	Categ
1	S1ISFPEN	s1isfpen:w1 s income: source flag: total pension	Categ
2	S2ISFPEN	s2isfpen:w2 s income: source flag: total pension	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IPENI	17367	2256.07	7229.54	0.00	172800.00
R2IPENI	16647	3356.75	9123.28	0.00	276000.00
S1IPENI	14744	2171.84	7112.81	0.00	172800.00
S2IPENI	14116	3322.03	9182.67	0.00	276000.00
R1IPENA	16973	2393.88	7670.67	0.00	92160.00
R2IPENA	18133	2764.52	8763.06	0.00	96000.00
R3IPENA	19964	2263.94	9893.54	0.00	614400.00
R4IPENA	19396	4568.57	23272.30	0.00	2666400.00
S1IPENA	14419	2305.02	7553.80	0.00	84000.00
S2IPENA	15314	2780.76	8800.33	0.00	96000.00
S3IPENA	16943	2292.35	10166.78	0.00	614400.00
S4IPENA	16060	4540.68	24903.98	0.00	2666400.00
R1IPUBPEN	17186	467.68	2739.40	0.00	55000.00

R2IPUBPEN	17772	512.30	2343.19	0.00	108660.00
R3IPUBPEN	19151	644.27	2865.39	0.00	81600.00
R4IPUBPEN	19410	1037.63	3602.11	0.00	132000.00
S1IPUBPEN	14575	432.11	2597.74	0.00	55000.00
S2IPUBPEN	15103	478.79	2348.78	0.00	108660.00
S3IPUBPEN	16490	593.67	2760.69	0.00	81600.00
S4IPUBPEN	16145	988.60	3431.11	0.00	132000.00
R1IPEN	17486	2957.07	9001.64	0.00	172800.00
R2IPEN	18201	3664.67	9669.68	0.00	276000.00
R3IPEN	18388	3029.74	10514.31	0.00	614400.00
R4IPEN	19094	5692.49	23545.65	0.00	2666400.00
S1IPEN	14820	2839.19	8835.15	0.00	172800.00
S2IPEN	15378	3637.93	9771.14	0.00	276000.00
S3IPEN	15869	2978.07	10708.13	0.00	614400.00
S4IPEN	15865	5600.02	25131.71	0.00	2666400.00
R1ISFPEN	17486	0.43	0.79	0.00	2.00
R2ISFPEN	18201	0.80	0.94	0.00	2.00
S1ISFPEN	14820	0.40	0.77	0.00	2.00
S2ISFPEN	15378	0.74	0.93	0.00	2.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

At Waves 1 and 2, respondents are asked to report their past year pension income in both income module and work module. At Wave 3, respondents are only asked to report their past year pension income in the work module. Starting in Wave 4, respondents are only asked to report their past year pension income in the pension module. These questions are asked to all respondents.

In the income module at Waves 1 and 2, respondents were asked to report their total pension income in an aggregate value. A respondent reports whether receiving any pension incomes from the following:

1. Wages from government institutions and firms
2. Supplemental pension of the firms and income from such programs as rural pension insurance
3. Urban residents' pension and commercial pension insurance
4. Pension subsidy for the old People

Respondents who indicate not receiving any pension income in the past year are assigned a value of 0 for R<sub>w</sub>IPENI. Respondents can report pension income in two ways: annually or monthly. R<sub>w</sub>IPENI is derived first using the reported annual amount. If the annual amount is missing, R<sub>w</sub>IPENI is based on the monthly amount times 12.

S<sub>w</sub>IPENI is taken directly from the spouse's value to R<sub>w</sub>IPENI. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

R<sub>w</sub>IPENA is the amount of before tax private pension income from the work module. The respondents who were asked to report the value of the private pension they have received have to be either one of the following status: 1) normal retirement, 2) early retirement or 3) internal retirement first but then regular retirement. R<sub>w</sub>IPENA consists of 3 different components:

1. Occupational pension through either government, work unit, social insurance agency, commercial insurance company, or other
2. Supplemental pension insurance of the firm

### 3. Commercial pension

Starting at Wave 2, the annual pension amounts are derived by multiplying the monthly amount by the number of months the respondent received the pension in the last year as reported from the question about when started to receive the pension. Respondents who indicate not receiving any of the pension types in the last year are assigned a value of 0. In Wave 4, information for the month started to receive occupational pension is not available, so past year amount of pension income is not able to be generated and is coded as .m missing. Don't know, refused, or other missing responses of RwiPENa is assigned special missing codes .d, .r, .m respectively. RwiPENa is set to plain missing (.) for respondents who did not respond to this wave.

SwIPENa is taken directly from the spouse's value to RwiPENa. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwiPUBPEN is the amount of public pension that respondents received in the past year. These are the pension questions that asked in the work module. In Wave 1, respondents are asked to report whether they received a pension from the following sources:

1. Rural pension
2. Resident's pension
3. Urban resident's pension
4. Pension subsidy to the oldest old

At Wave 2, respondents are asked to report whether they received a pension from the following sources:

1. Rural pension
2. Residents' pension
3. Urban residents' pension
4. New rural social pension insurance
5. Land expropriation pension insurance
6. Old age pension allowance
7. Other unnamed pension

At Wave 3, respondents are asked to report whether they received a pension from the following sources:

1. New rural social pension insurance
2. Residents' pension
3. Urban residents' pension
4. Land expropriation pension insurance
5. Old age pension allowance
6. Other unnamed pension

Starting at Wave 4, respondents are asked to report whether they received a pension from the following sources:

1. New rural resident pension
2. Urban and rural resident pension
3. Urban resident pension

4. Pension for land-expropriated farmers

5. Other unnamed pension

Respondents are then asked the month and the year they started to receive each pension they reported receiving and the monthly benefit amount.

At Wave 1, the annual pension amounts are derived by multiplying the monthly amount by the number of months the respondent received the pension in the last year as reported either from the question about when started to receive the pension or when processed formal retirement. Respondents who indicate not being retired or not receiving any pensions in the last year are assigned a value of 0.

Starting at Wave 2, the annual pension amounts are derived by multiplying the monthly amount by the number of months the respondent received the pension in the last year as reported from the question about when started to receive the pension. There are a number of Wave 2 respondents with missing information for the month and year started to receive rural social pension insurance. These respondents are assumed to have received the reported monthly pension benefit amount for 12 months in the last year. Respondents who indicate not receiving any of the pension types in the last year are assigned a value of 0. Don't know, refused, or other missing responses of RWPUBPEN is assigned special missing codes .d, .r, .m respectively. RWPUBPEN is set to plain missing (.) for respondents who did not respond to this wave.

SWPUBPEN is taken directly from the spouse's value to RWPUBPEN. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

At Waves 1 and 2, RWIPEN is the maximum pension income from either income or work module at the respondent level. In the income module, the amount of pension income is asked in one aggregate question that is "Did you receive any of the following types of individual income in the past year? Pensions (including wages from government institutions and firms, supplemental pension of the firms, and income from such programs as rural pension insurance, Urban residents' pension and commercial pension insurance, new rural social pension insurance and pension subsidy for the oldest old." On the other hand, in the work module, respondents reported the amount of each pension individually. In this case, to avoid double counting that the amount of the respondent's pension income in the previous year, taking the maximum value of the two modules is a strategy we used. Starting in Wave 3, RWIPEN income is equal to the total amount of pension income from the work module at the respondent level, which includes private and public pensions. In addition to the special missing values of that were used, special missing value .b is assigned if the respondent's spouse is absent.

At Wave 3, total pension income is equal to the total amount of pension income from the work module at the respondent level, which includes private and public pensions.

Starting at Wave 4, total pension income is equal to the total amount of pension income from the pension module at the respondent level, which includes private and public pensions.

SWIPEN is taken directly from the spouse's value to RWIPEN. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWISFPEN is a flag variable indicating whether the value of RWIPEN is derived from the income or work module. A value of 0 indicates the respondent had no pension income. A value of 1 indicates the value of RWIPEN came from the income module. A value of 2 indicates the value of RWIPEN came from the work module.

SWISFPEN is a flag variable indicating whether the value of SWIPEN is derived from the income or work module. It is taken directly from the respondent's spouse's value of RWISFPEN. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 and 2, respondents are asked to report their past year pension income in both income module and work module. There are a number of Wave 2 respondents with missing information for the month and year started to receive rural social pension insurance

Starting at Wave 3, questions about pension income are no longer included in the income module. At Wave 3, questions about pension income are included in the work module.

Starting at Wave 4, questions about pension income are included in the pension module.

Starting at Wave 3, rural pension income is no longer specifically asked about but might still be reported under the other unnamed pension.

Starting at Wave 4, old age pension allowance is no longer specifically asked about but might still be reported under the other unnamed pension.

In the current release of the CHARLS data there is a high number of individuals who do not report when they started to receive their public pension in the pension module.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file.

### Differences with the RAND HRS/Harmonized HRS

Variables related to pension income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

### CHARLS Variables Used:

#### Wave 1:

FB011	PROCESSED RETIREMENT
FM018_1	year
FM018_2	month
FM022	WHAT IS YOUR MONTHLY PENSION
FM030_1	year
FM030_2	month
FM034	What is your monthly pension?
FN001	ARE YOU RECEIVING PENSION
FN003_1	year
FN003_2	month
FN004	WHAT IS YOUR MONTHLY BENEFITS
FN006_1	year
FN006_2	month
FN007	WHAT IS YOUR MONTHLY BENEFITS
FN012_1	year
FN012_2	month
FN013	HOW MUCH DO YOU RECEIVE NOW
FN017_1	year
FN017_2	month
FN018	How much do you receive now?(per month)
FN021_1	yaer
FN021_2	month
FN078_1	Year
FN078_2	Month
FN079	How much do you receive every month? \$Answer\$ Yuan/ month
GA003S1	Show Card31 Did you receive any of the following types of indi
GA003S2	Show Card31 Did you receive any of the following types of indi
GA003S3	Show Card31 Did you receive any of the following types of indi
GA003S4	Show Card31 Did you receive any of the following types of indi
GA003S5	Show Card31 Did you receive any of the following types of indi
GA003S6	Show Card31 Did you receive any of the following types of indi
GA003S7	Show Card31 Did you receive any of the following types of indi
GA003S8	Show Card31 Did you receive any of the following types of indi
GA003S9	Show Card31 Did you receive any of the following types of indi
GA004_1_1_	Yuan/Year
GA004_2_1_	Yuan/Month

#### Wave 2:

FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove

FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN002_W2S4	Are You Currently Receiving Following Pension?
FN003_W2_1_1_	When Did You Start Receiving Pension Benefits(Year) Correspon
FN003_W2_1_2_	When Did You Start Receiving Pension Benefits(Year) Correspon
FN003_W2_1_3_	When Did You Start Receiving Pension Benefits(Year) Correspon
FN003_W2_2_1_	When Did You Start Receiving Pension Benefits(Month) Correspon
FN003_W2_2_2_	When Did You Start Receiving Pension Benefits(Month) Correspon
FN003_W2_2_3_	When Did You Start Receiving Pension Benefits(Month) Correspon
GA003S1	Receives Pension
GA003S10	None of The above
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers' Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_1_1_	Amount by Year: Pension
GA004_2_1_	Amount by Month: Pension
HD012	Receive Assistance in Answering
Wave 3:	
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN003_W2_1_1_	When Did You Start Receiving Governments' Pension Benefits(Year)
FN003_W2_1_2_	When Did You Start Receiving Government Affiliated Institutions
FN003_W2_1_3_	When Did You Start Receiving Firms' Pension Benefits(Year)
FN003_W2_2_1_	When Did You Start Receiving Governments' Pension Benefits(Mont
FN003_W2_2_2_	When Did You Start Receiving Government Affiliated Institutions
FN003_W2_2_3_	When Did You Start Receiving Firms' Pension Benefits(Month)
FN005_W2_1_	Current Monthly Pension Corresponding to FN002_w2 Option 1
FN005_W2_2_	Current Monthly Pension Corresponding to FN002_w2 Option 2
FN005_W2_3_	Current Monthly Pension Corresponding to FN002_w2 Option 3
FN030_W2	Are You Currently Participating/Receiving Supplement Pension
FN041_W2_1	When Did You Start to Receive Supplement Pension Benefits(Year)
FN041_W2_2	When Did You Start to Receive Supplement Pension Benefits(Month
FN042_W2	Monthly Benefits
FN043_W2	Are You Currently Participating/Receiving Commercial Pension In
FN055_W2_1	When Did You Start to Receive Benefits(Year)
FN055_W2_2	When Did You Start to Receive Benefits(Month)
FN056_W2	Monthly Benefits
FN057_W3S1	Have New Rural Socail Pension Insurance?
FN057_W3S2	Have Residents' Pension?
FN057_W3S3	Have Urban Residents' Pension?
FN057_W3S4	Have Any Pension Insurance above?
FN067_W2_1_1_	When Did You Start to Receive This Pension Benefits(Year)(New R
FN067_W2_1_2_	When Did You Start to Receive This Pension Benefits(Year)(Resid
FN067_W2_1_3_	When Did You Start to Receive This Pension Benefits(Year)(Urban
FN067_W2_2_1_	When Did You Start to Receive This Pension Benefits(Month)(New
FN067_W2_2_2_	When Did You Start to Receive This Pension Benefits(Month)(Resi
FN067_W2_2_3_	When Did You Start to Receive This Pension Benefits(Month)(Urba
FN068_W2_1_	How Much Do You Receive Now(New Rural Pension)
FN068_W2_2_	How Much Do You Receive Now(Residents' Pension)
FN068_W2_3_	How Much Do You Receive Now(Urban Residents' Pension)
FN079_W2_1	Have Your Land Ever Been Requisitioned
FN079_W2_10_1	When Did You Start to Receive The Benefits(Year)
FN079_W2_10_2	When Did You Start to Receive The Benefits(Month)
FN079_W2_11	How Much Do You Receive Now
FN080_W2	Are You Receiving The Pension Subsidy for The Oldest Old
FN081_W2_1	When Did You Start to Receive The Benefits(Year)
FN081_W2_2	When Did You Start to Receive The Benefits(Month)
FN082_W2	How Much Do You Receive Now
FN083_W2	Are You Currently Participatin Or Receiving Other Pension
FN095_W2_1	When Did You Start to Receive This Pension Benefits(Year)
FN095_W2_2	When Did You Start to Receive This Pension Benefits(Month)
FN096_W2	How Much Do You Receive Now

## Wave 4:

FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FN002_W4	Receive/Participate Government/Institutions/Firm Pension
FN002_W4_A_S1	Government Pension
FN002_W4_A_S2	Institutions Pension
FN002_W4_A_S3	Firm Pension
FN002_W4_A_S4	Don't Know the Type
FN002_W4_B_1_	Receive Government Pension
FN002_W4_B_2_	Receive Institutions Pension
FN002_W4_B_3_	Receive Firm Pension
FN002_W4_B_4_	Receive Government/Institutions/Firm Pension
FN003_W2_1_1_	Year of Receive Government Pension
FN003_W2_1_2_	Year of Receive Institutions Pension
FN003_W2_1_3_	Year of Receive Firm Pension
FN005_W2_1_	Monthly Pension of Government Pension
FN005_W2_2_	Monthly Pension of Institutions Pension
FN005_W2_3_	Monthly Pension of Firm Pension
FN005_W2_4_	Monthly Pension of Government/Institutions/Firm Pension
FN030_W4	Receive/Particate Supplemental Pension
FN031_W4	Currently Receiving the Supplemental Pension
FN041_W2_1	Year of Receive Pension
FN041_W2_2	Month of Receive Pension
FN042_W2	Monthly Benefits
FN043_W4	Receive/Particate in Commercial Pension
FN055_W2_1	The Year of You Started to Receive Pension
FN055_W2_2	The Month of You Started to Receive Pension
FN056_W2	Monthly Benefit
FN058_W4	Residents/Newrural/Urban Residents Pension
FN058_W4_A	Which Pension
FN058_W4_B	Currently Receiving the Pension
FN067_W2_1	Year of Receive Pension
FN067_W2_2	Month of Receive Pension
FN068_W2	Monthly Pension
FN079_W2_10_1	Year of Receive Pension
FN079_W2_10_2	Month of Receive Pension
FN079_W2_11	Monthly Pension
FN079_W2_3	Particate in Land Expropriation Pension Insurance
FN083_W2	Other Pension Program
FN084_W4	Receive Pension
FN095_W2_1	The Year of Receive Pension
FN095_W2_2	The Month of Receive Pension
FN096_W2	Monthly Pension
IMONTH	Interview Month

<b>Government/Public Transfer Income</b>
--

Wave	Variable	Label	Type
1	HH1IGXFRI	hh1igxfri:w1 income: HHold government transfer income	Cont
2	HH2IGXFRI	hh2igxfri:w2 income: HHold government transfer income	Cont
3	HH3IGXFRI	hh3igxfri:w3 income: HHold government transfer income	Cont
4	HH4IGXFRI	hh4igxfri:w4 income: HHold government transfer income	Cont
1	HH1IGXFRH	hh1igxfrh:w1 income: HHold other government transfer income	Cont
2	HH2IGXFRH	hh2igxfrh:w2 income: HHold other government transfer income	Cont
3	HH3IGXFRH	hh3igxfrh:w3 income: HHold other government transfer income	Cont
4	HH4IGXFRH	hh4igxfrh:w4 income: HHold other government transfer income	Cont
1	HH1IGXFRT	hh1igxfrt:w1 income: HHold other public transfer income	Cont
2	HH2IGXFRT	hh2igxfrt:w2 income: HHold other public transfer income	Cont
3	HH3IGXFRT	hh3igxfrt:w3 income: HHold other public transfer income	Cont
4	HH4IGXFRT	hh4igxfrt:w4 income: HHold other public transfer income	Cont
1	HH1IGXFR	hh1igxfr:w1 income: HHold government/public transfer income	Cont
2	HH2IGXFR	hh2igxfr:w2 income: HHold government/public transfer income	Cont
3	HH3IGXFR	hh3igxfr:w3 income: HHold government/public transfer income	Cont
4	HH4IGXFR	hh4igxfr:w4 income: HHold government/public transfer income	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1IGXFRI	16615	156.37	862.01	0.00	24000.00
HH2IGXFRI	14832	232.40	1386.44	0.00	40920.00
HH3IGXFRI	16481	252.93	1425.10	0.00	60000.00
HH4IGXFRI	19134	624.72	3540.14	0.00	170812.00
HH1IGXFRH	17139	473.03	1025.17	0.00	20000.00
HH2IGXFRH	17142	566.61	1329.82	0.00	32000.00
HH3IGXFRH	19729	664.54	10249.15	0.00	1000000.00
HH4IGXFRH	19132	3087.81	282124.44	0.00	39012280.00
HH1IGXFRT	17401	543.64	9590.86	0.00	600000.00
HH2IGXFRT	17664	868.58	19521.04	0.00	1600000.00
HH3IGXFRT	20276	2287.85	53901.87	0.00	4000000.00
HH4IGXFRT	19668	2992.23	67226.59	0.00	5100000.00
HH1IGXFR	16306	1183.01	9936.46	0.00	600000.00
HH2IGXFR	14317	1804.57	21667.16	0.00	1600000.00
HH3IGXFR	16022	3020.52	53334.41	0.00	4000000.00
HH4IGXFR	18562	6827.28	294917.94	0.00	39053540.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

HHwIGXFRI is the household summary of government transfer income. CHARLS asks the questions related to government transfer income to respondent, the spouse and all other household members, separately. At Waves 1 to 3, the financial respondents report whether him/herself, their spouse, or all other household members receive any government transfer income from the following subsidies:

1. Unemployment compensation
2. Pension subsidy



3. Worker's compensation from industrial accident compensation insurance includes wage-replacement benefits, disability benefit and survivor benefit

4. Elderly family planning subsidies
5. Medical aid
6. Other government subsidies
7. Social assistance

At Wave 4, the financial respondents report whether him/herself, their spouse, or all other household members receive any government transfer income from the following subsidies:

1. Unemployment compensation
2. Pension voucher
3. Pension subsidy for the oldest old

4. Worker's compensation from industrial accident compensation insurance includes wage-replacement benefits, disability benefit and survivor benefit

5. Elderly family planning subsidies
6. Medical aid
7. Other government subsidies

The financial respondent who indicates that him/herself, their spouse, or other household member do not receive any government transfer income in the past year is not asked the value of government transfer, in these cases a value of zero is assumed. Respondents report government transfer income in annual amounts. Don't know, refused, or other missing responses of HHwIGXFRI are assigned special missing codes .d, .r, .m respectively. Special missing value .b is assigned to HHwIGXFRI if the respondent's spouse is absent. HHwIGXFRI is set to plain missing (.) for respondents who did not respond to this wave.

HHwIGXFRH is the value of the other government transfer income at the household level. The other public transfer income questions are only asked in the household income section. At Waves 1 to 3, a financial respondent reports other government transfer income for the household from the following subsidies:

1. Dibao
2. Subsidy from reforestation
3. Agricultural subsidies
4. Wubaohu
5. Tekunhu
6. Work injury subsidies to the immediate family members
7. Emergency or disaster relief (jiujikuan, jiuzaikuan)
8. Other subsidies

At Wave 4, a financial respondent reports other government transfer income for the household from the following subsidies:

1. Dibao
2. Subsidy from reforestation
3. Agricultural subsidies
4. Wubaohu

5. Pinkunhu subsidy, including registered Pinkunhu and non-registered Pinkunhu
6. Work injury subsidies to the immediate family members
7. Emergency or disaster relief (jiujikuan, jiuzaikuan)
8. Other subsidies

If the financial respondent indicates that the household has not received any household other government transfer income in the past year, the household value of other government transfer is not asked and HHwIGXFRH is assigned a value of 0. Don't know, refused, or other missing responses of HHwIGXFRH are assigned special missing codes .d, .r, .m respectively. HHwIGXFRH is set to plain missing (.) for respondents who did not respond to this wave.

HHwIGXFRT is the total value of other public transfer income at the household level in the past year. This variable includes not only the respondent and/or spouse's other public transfer incomes, but also includes other household members' other public transfer income. The value of household other public transfer income questions are reported by a financial respondent in the household income section. The financial respondent reports total household other public transfer income from the following sources:

1. Donation from the society, including cash, and items like food, clothing, etc.
2. Compensation for land seizure
3. Compensation to pulling down the house or apartment

If the financial respondent indicates that the household has not received any other public transfer income in the past year, the value of other public transfer is not asked and HHwIGXFRT is assigned a value of 0. At Waves 1 and 2 respondents can report other public transfer income in two ways: annually or monthly. Starting at Wave 3, all respondents report public transfer income annually. HHwIGXFRT is derived first using the reported annual amount. If the annual amount is missing, HHwIGXFRT is based on the monthly amount times 12. Don't know, refused, or other missing responses of HHwIGXFRT are assigned special missing codes .d, .r, .m respectively. HHwIGXFRT is set to plain missing (.) for respondents who did not respond to this wave.

HHwIGXFR is the summary of the total household government/public transfer that includes household government transfer income, household other government transfer income and household other public transfer income.

HHwIGXFR = HHwIGXFRI + HHwIGXFRH + HHwIGXFRT

HHwIGXFR is set to plain missing (.) for respondents who did not respond to this wave. Special missing value .b is assigned to HHwIGXFR if the respondent's spouse is absent.

## Cross Wave Differences in CHARLS

In the current release of the Wave 3 CHARLS data there is a high number of households with missing information as to whether all other household members receive government transfer income. From the Wave 3 survey questionnaire it appears that all household members who are not the respondent or spouse are supposed to be asked about in this section, but there is a particularly high number of children of the main respondent for whom no information is provided as whether they do or not receive these income types.

Starting at Wave 4, pension subsidy and social assistance is no longer specifically asked about but might still be reported under the other government subsidies.

Starting at Wave 4, respondents are asked about receiving pension voucher and pension subsidy for the oldest old.

Starting at Wave 4, household government transfer income from to Tekunhu is no longer specifically asked about but might still be reported under the other subsidies.

Starting at Wave 4, respondents are asked about receiving government transfer income from Pinkunhu subsidy.

Starting at Wave 3, respondents only report public transfer income annually.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files. These missings affect HHWIGXFRI.

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Public Transfer Income section in the Wave 2, Wave 3, and Wave 4 Household Income files.

### Differences with the RAND HRS/Harmonized HRS

Variables related to government transfer income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The information contained in this variable corresponds to the aggregate of the information contained in the RAND-HRS variables related to income from Social Security DI or SSI, income from unemployment or workers compensation and individual income from other government transfer. However, components included in Harmonized CHARLS and RAND HRS are different for this variable, representing different institutional arrangements in each country.

### CHARLS Variables Used:

Wave 1:

GA003S1	Show Card31	Did you receive any of the following types of indi
GA003S2	Show Card31	Did you receive any of the following types of indi
GA003S3	Show Card31	Did you receive any of the following types of indi
GA003S4	Show Card31	Did you receive any of the following types of indi
GA003S5	Show Card31	Did you receive any of the following types of indi
GA003S6	Show Card31	Did you receive any of the following types of indi
GA003S7	Show Card31	Did you receive any of the following types of indi
GA003S8	Show Card31	Did you receive any of the following types of indi
GA004_1_2_	Yuan/Year	
GA004_1_3_	Yuan/Year	
GA004_1_4_	Yuan/Year	
GA004_1_5_	Yuan/Year	
GA004_1_6_	Yuan/Year	
GA004_1_7_	Yuan/Year	
GA004_1_8_	Yuan/Year	
GA004_2_2_	Yuan/Month	
GA004_2_3_	Yuan/Month	
GA004_2_4_	Yuan/Month	
GA004_2_5_	Yuan/Month	
GA004_2_6_	Yuan/Month	
GA004_2_7_	Yuan/Month	
GA004_2_8_	Yuan/Month	
GA008_2_A_3_	Yuan/Year of Unemployment Compensation	
GA008_2_A_4_	Yuan/Year of Unemployment Compensation	
GA008_2_B_3_	Yuan/Month of Unemployment Compensation	
GA008_2_B_4_	Yuan/Month of Unemployment Compensation	
GA008_3_A_11_	Yuan/Year of Pension Subsidy	
GA008_3_A_1_	Yuan/Year of Pension Subsidy	
GA008_3_A_2_	Yuan/Year of Pension Subsidy	
GA008_3_A_3_	Yuan/Year of Pension Subsidy	
GA008_3_A_4_	Yuan/Year of Pension Subsidy	
GA008_3_A_6_	Yuan/Year of Pension Subsidy	
GA008_3_A_7_	Yuan/Year of Pension Subsidy	
GA008_3_A_9_	Yuan/Year of Pension Subsidy	
GA008_3_B_11_	Yuan/Month of Pension Subsidy	
GA008_3_B_1_	Yuan/Month of Pension Subsidy	
GA008_3_B_2_	Yuan/Month of Pension Subsidy	
GA008_3_B_3_	Yuan/Month of Pension Subsidy	
GA008_3_B_4_	Yuan/Month of Pension Subsidy	
GA008_3_B_6_	Yuan/Month of Pension Subsidy	
GA008_3_B_7_	Yuan/Month of Pension Subsidy	
GA008_3_B_9_	Yuan/Month of Pension Subsidy	
GA008_4_A_1_	Yuan/Year of Worker's Compensation	
GA008_4_A_2_	Yuan/Year of Worker's Compensation	
GA008_4_A_3_	Yuan/Year of Worker's Compensation	

GA008_4_A_4_	Yuan/Year of Worker's Compensation
GA008_4_A_6_	Yuan/Year of Worker's Compensation
GA008_4_B_1_	Yuan/Month of Worker's Compensation
GA008_4_B_2_	Yuan/Month of Worker's Compensation
GA008_4_B_3_	Yuan/Month of Worker's Compensation
GA008_4_B_4_	Yuan/Month of Worker's Compensation
GA008_4_B_6_	Yuan/Month of Worker's Compensation
GA008_5_A_1_	Yuan/Year of Family Planning Subsidy
GA008_5_A_2_	Yuan/Year of Family Planning Subsidy
GA008_5_A_3_	Yuan/Year of Family Planning Subsidy
GA008_5_A_4_	Yuan/Year of Family Planning Subsidy
GA008_5_A_5_	Yuan/Year of Family Planning Subsidy
GA008_5_A_6_	Yuan/Year of Family Planning Subsidy
GA008_5_A_7_	Yuan/Year of Family Planning Subsidy
GA008_5_B_1_	Yuan/Month of Family Planning Subsidy
GA008_5_B_2_	Yuan/Month of Family Planning Subsidy
GA008_5_B_3_	Yuan/Month of Family Planning Subsidy
GA008_5_B_4_	Yuan/Month of Family Planning Subsidy
GA008_5_B_5_	Yuan/Month of Family Planning Subsidy
GA008_5_B_6_	Yuan/Month of Family Planning Subsidy
GA008_5_B_7_	Yuan/Month of Family Planning Subsidy
GA008_6_A_1_	Yuan/Year of Medical Aid
GA008_6_A_26_	Yuan/Year of Medical Aid
GA008_6_A_2_	Yuan/Year of Medical Aid
GA008_6_A_3_	Yuan/Year of Medical Aid
GA008_6_A_4_	Yuan/Year of Medical Aid
GA008_6_A_5_	Yuan/Year of Medical Aid
GA008_6_A_6_	Yuan/Year of Medical Aid
GA008_6_A_7_	Yuan/Year of Medical Aid
GA008_6_B_1_	Yuan/Month of Medical Aid
GA008_6_B_26_	Yuan/Month of Medical Aid
GA008_6_B_2_	Yuan/Month of Medical Aid
GA008_6_B_3_	Yuan/Month of Medical Aid
GA008_6_B_4_	Yuan/Month of Medical Aid
GA008_6_B_5_	Yuan/Month of Medical Aid
GA008_6_B_6_	Yuan/Month of Medical Aid
GA008_6_B_7_	Yuan/Month of Medical Aid
GA008_7_A_1_	Yuan/Year of Other Government Subsidy
GA008_7_A_2_	Yuan/Year of Other Government Subsidy
GA008_7_A_3_	Yuan/Year of Other Government Subsidy
GA008_7_A_4_	Yuan/Year of Other Government Subsidy
GA008_7_A_5_	Yuan/Year of Other Government Subsidy
GA008_7_A_6_	Yuan/Year of Other Government Subsidy
GA008_7_A_7_	Yuan/Year of Other Government Subsidy
GA008_7_B_1_	Yuan/Month of Other Government Subsidy
GA008_7_B_2_	Yuan/Month of Other Government Subsidy
GA008_7_B_3_	Yuan/Month of Other Government Subsidy
GA008_7_B_4_	Yuan/Month of Other Government Subsidy
GA008_7_B_5_	Yuan/Month of Other Government Subsidy
GA008_7_B_6_	Yuan/Month of Other Government Subsidy
GA008_7_B_7_	Yuan/Month of Other Government Subsidy
GA008_8_A_1_	Yuan/Year of Social Assistance
GA008_8_A_2_	Yuan/Year of Social Assistance
GA008_8_A_3_	Yuan/Year of Social Assistance
GA008_8_A_4_	Yuan/Year of Social Assistance
GA008_8_A_5_	Yuan/Year of Social Assistance
GA008_8_A_6_	Yuan/Year of Social Assistance
GA008_8_A_8_	Yuan/Year of Social Assistance
GA008_8_B_1_	Yuan/Month of Social Assistance
GA008_8_B_2_	Yuan/Month of Social Assistance
GA008_8_B_3_	Yuan/Month of Social Assistance
GA008_8_B_4_	Yuan/Month of Social Assistance
GA008_8_B_5_	Yuan/Month of Social Assistance
GA008_8_B_6_	Yuan/Month of Social Assistance
GA008_8_B_8_	Yuan/Month of Social Assistance
GD001	Did your household receive Dibao assistance last year?
GD001_C	Value of Dibao (Yuan)
GD002S1	Whether Receive This Subsidy
GD002S2	Whether Receive This Subsidy

GD002S3	Whether Receive This Subsidy
GD002S4	Whether Receive This Subsidy
GD002S5	Whether Receive This Subsidy
GD002S6	Whether Receive This Subsidy
GD002S7	Whether Receive This Subsidy
GD002_1	TUIGENGHUANLIN
GD002_2	AGRICULTURAL SUBSIDIES
GD002_3	WUBAOHU
GD002_4	TEKUNHU
GD002_5	Work injury subsidies to the immediate family members
GD002_6	EMERGENCY OR DISASTER RELIEF
GD002_7	THE MONEY FOR OTHER
GD003S1	INCOME FROM THE FOLLOWING SOURCES
GD003S2	INCOME FROM THE FOLLOWING SOURCES
GD003S3	INCOME FROM THE FOLLOWING SOURCES
GD003_1	DONATIONS FROM THE SOCIETY
GD003_2	COMPENSATION FOR LAND SEIZURE
GD003_3	COMPENSATION TO PULLING DOWN YOUR HOUSE OR APARTMENT
Wave 2:	
A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
GA003S1	Receives Pension
GA003S10	None of The above
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers' Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_1_2_	Amount by Year: Unemployment Compensation
GA004_1_3_	Amount by Year: Pension Subsidy
GA004_1_4_	Amount by Year: Workers' Compensation
GA004_1_5_	Amount by Year: Elderly Family Planning Subsidies
GA004_1_6_	Amount by Year: Medical Aid
GA004_1_7_	Amount by Year: Other Government Subsidies
GA004_1_8_	Amount by Year: Social Assistance
GA004_2_1_	Amount by Month: Pension
GA004_2_2_	Amount by Month: Unemployment Compensation
GA004_2_3_	Amount by Month: Pension Subsidy
GA004_2_4_	Amount by Month: Workers' Compensation
GA004_2_6_	Amount by Month: Medical Aid
GA004_2_7_	Amount by Month: Other Government Subsidies
GA004_2_8_	Amount by Month: Social Assistance
GA007_10_S1	Household Member [10] Receives Pensions
GA007_10_S10	Household Member [10] Receives None of The above
GA007_10_S2	Household Member [10] Receives Unemployment Compensation

GA007_10_S3	Household Member	[10]	Receives Pension Subsidy
GA007_10_S4	Household Member	[10]	Receives Worker'S Compensation
GA007_10_S5	Household Member	[10]	Receives Elderly Family Planning Subsidie
GA007_10_S6	Household Member	[10]	Receives Medical Aid
GA007_10_S7	Household Member	[10]	Receives Other Government Subsidies
GA007_10_S8	Household Member	[10]	Receives Social Assistance
GA007_10_S9	Household Member	[10]	Receives Other Income Sources
GA007_11_S1	Household Member	[11]	Receives Pensions
GA007_11_S10	Household Member	[11]	Receives None of The above
GA007_11_S2	Household Member	[11]	Receives Unemployment Compensation
GA007_11_S3	Household Member	[11]	Receives Pension Subsidy
GA007_11_S4	Household Member	[11]	Receives Worker'S Compensation
GA007_11_S5	Household Member	[11]	Receives Elderly Family Planning Subsidie
GA007_11_S6	Household Member	[11]	Receives Medical Aid
GA007_11_S7	Household Member	[11]	Receives Other Government Subsidies
GA007_11_S8	Household Member	[11]	Receives Social Assistance
GA007_11_S9	Household Member	[11]	Receives Other Income Sources
GA007_12_S1	Household Member	[12]	Receives Pensions
GA007_12_S10	Household Member	[12]	Receives None of The above
GA007_12_S2	Household Member	[12]	Receives Unemployment Compensation
GA007_12_S3	Household Member	[12]	Receives Pension Subsidy
GA007_12_S4	Household Member	[12]	Receives Worker'S Compensation
GA007_12_S5	Household Member	[12]	Receives Elderly Family Planning Subsidie
GA007_12_S6	Household Member	[12]	Receives Medical Aid
GA007_12_S7	Household Member	[12]	Receives Other Government Subsidies
GA007_12_S8	Household Member	[12]	Receives Social Assistance
GA007_12_S9	Household Member	[12]	Receives Other Income Sources
GA007_1_S1	Household Member	[1]	Receives Pensions
GA007_1_S10	Household Member	[1]	Receives None of The above
GA007_1_S2	Household Member	[1]	Receives Unemployment Compensation
GA007_1_S3	Household Member	[1]	Receives Pension Subsidy
GA007_1_S4	Household Member	[1]	Receives Worker'S Compensation
GA007_1_S5	Household Member	[1]	Receives Elderly Family Planning Subsidies
GA007_1_S6	Household Member	[1]	Receives Medical Aid
GA007_1_S7	Household Member	[1]	Receives Other Government Subsidies
GA007_1_S8	Household Member	[1]	Receives Social Assistance
GA007_1_S9	Household Member	[1]	Receives Other Income Sources
GA007_2_S1	Household Member	[2]	Receives Pensions
GA007_2_S10	Household Member	[2]	Receives None of The above
GA007_2_S2	Household Member	[2]	Receives Unemployment Compensation
GA007_2_S3	Household Member	[2]	Receives Pension Subsidy
GA007_2_S4	Household Member	[2]	Receives Worker'S Compensation
GA007_2_S5	Household Member	[2]	Receives Elderly Family Planning Subsidies
GA007_2_S6	Household Member	[2]	Receives Medical Aid
GA007_2_S7	Household Member	[2]	Receives Other Government Subsidies
GA007_2_S8	Household Member	[2]	Receives Social Assistance
GA007_2_S9	Household Member	[2]	Receives Other Income Sources
GA007_3_S1	Household Member	[3]	Receives Pensions
GA007_3_S10	Household Member	[3]	Receives None of The above
GA007_3_S2	Household Member	[3]	Receives Unemployment Compensation
GA007_3_S3	Household Member	[3]	Receives Pension Subsidy
GA007_3_S4	Household Member	[3]	Receives Worker'S Compensation
GA007_3_S5	Household Member	[3]	Receives Elderly Family Planning Subsidies
GA007_3_S6	Household Member	[3]	Receives Medical Aid
GA007_3_S7	Household Member	[3]	Receives Other Government Subsidies
GA007_3_S8	Household Member	[3]	Receives Social Assistance
GA007_3_S9	Household Member	[3]	Receives Other Income Sources
GA007_4_S1	Household Member	[4]	Receives Pensions
GA007_4_S10	Household Member	[4]	Receives None of The above
GA007_4_S2	Household Member	[4]	Receives Unemployment Compensation
GA007_4_S3	Household Member	[4]	Receives Pension Subsidy
GA007_4_S4	Household Member	[4]	Receives Worker'S Compensation
GA007_4_S5	Household Member	[4]	Receives Elderly Family Planning Subsidies
GA007_4_S6	Household Member	[4]	Receives Medical Aid
GA007_4_S7	Household Member	[4]	Receives Other Government Subsidies
GA007_4_S8	Household Member	[4]	Receives Social Assistance
GA007_4_S9	Household Member	[4]	Receives Other Income Sources
GA007_5_S1	Household Member	[5]	Receives Pensions
GA007_5_S10	Household Member	[5]	Receives None of The above

GA007_5_S2	Household Member [5] Receives Unemployment Compensation
GA007_5_S3	Household Member [5] Receives Pension Subsidy
GA007_5_S4	Household Member [5] Receives Worker'S Compensation
GA007_5_S5	Household Member [5] Receives Elderly Family Planning Subsidies
GA007_5_S6	Household Member [5] Receives Medical Aid
GA007_5_S7	Household Member [5] Receives Other Government Subsidies
GA007_5_S8	Household Member [5] Receives Social Assistance
GA007_5_S9	Household Member [5] Receives Other Income Sources
GA007_6_S1	Household Member [6] Receives Pensions
GA007_6_S10	Household Member [6] Receives None of The above
GA007_6_S2	Household Member [6] Receives Unemployment Compensation
GA007_6_S3	Household Member [6] Receives Pension Subsidy
GA007_6_S4	Household Member [6] Receives Worker'S Compensation
GA007_6_S5	Household Member [6] Receives Elderly Family Planning Subsidies
GA007_6_S6	Household Member [6] Receives Medical Aid
GA007_6_S7	Household Member [6] Receives Other Government Subsidies
GA007_6_S8	Household Member [6] Receives Social Assistance
GA007_6_S9	Household Member [6] Receives Other Income Sources
GA007_7_S1	Household Member [7] Receives Pensions
GA007_7_S10	Household Member [7] Receives None of The above
GA007_7_S2	Household Member [7] Receives Unemployment Compensation
GA007_7_S3	Household Member [7] Receives Pension Subsidy
GA007_7_S4	Household Member [7] Receives Worker'S Compensation
GA007_7_S5	Household Member [7] Receives Elderly Family Planning Subsidies
GA007_7_S6	Household Member [7] Receives Medical Aid
GA007_7_S7	Household Member [7] Receives Other Government Subsidies
GA007_7_S8	Household Member [7] Receives Social Assistance
GA007_7_S9	Household Member [7] Receives Other Income Sources
GA007_8_S1	Household Member [8] Receives Pensions
GA007_8_S10	Household Member [8] Receives None of The above
GA007_8_S2	Household Member [8] Receives Unemployment Compensation
GA007_8_S3	Household Member [8] Receives Pension Subsidy
GA007_8_S4	Household Member [8] Receives Worker'S Compensation
GA007_8_S5	Household Member [8] Receives Elderly Family Planning Subsidies
GA007_8_S6	Household Member [8] Receives Medical Aid
GA007_8_S7	Household Member [8] Receives Other Government Subsidies
GA007_8_S8	Household Member [8] Receives Social Assistance
GA007_8_S9	Household Member [8] Receives Other Income Sources
GA007_9_S1	Household Member [9] Receives Pensions
GA007_9_S10	Household Member [9] Receives None of The above
GA007_9_S2	Household Member [9] Receives Unemployment Compensation
GA007_9_S3	Household Member [9] Receives Pension Subsidy
GA007_9_S4	Household Member [9] Receives Worker'S Compensation
GA007_9_S5	Household Member [9] Receives Elderly Family Planning Subsidies
GA007_9_S6	Household Member [9] Receives Medical Aid
GA007_9_S7	Household Member [9] Receives Other Government Subsidies
GA007_9_S8	Household Member [9] Receives Social Assistance
GA007_9_S9	Household Member [9] Receives Other Income Sources
GA008_2B_10_	Unemployment Compensation of Household Member [10]: Amount by Y
GA008_2B_11_	Unemployment Compensation of Household Member [11]: Amount by Y
GA008_2B_12_	Unemployment Compensation of Household Member [12]: Amount by Y
GA008_2B_1_	Unemployment Compensation of Household Member [1]: Amount by Ye
GA008_2B_2_	Unemployment Compensation of Household Member [2]: Amount by Ye
GA008_2B_3_	Unemployment Compensation of Household Member [3]: Amount by Ye
GA008_2B_4_	Unemployment Compensation of Household Member [4]: Amount by Ye
GA008_2B_5_	Unemployment Compensation of Household Member [5]: Amount by Ye
GA008_2B_6_	Unemployment Compensation of Household Member [6]: Amount by Ye
GA008_2B_7_	Unemployment Compensation of Household Member [7]: Amount by Ye
GA008_2B_8_	Unemployment Compensation of Household Member [8]: Amount by Ye
GA008_2B_9_	Unemployment Compensation of Household Member [9]: Amount by Ye
GA008_2C_10_	Unemployment Compensation of Household Member [10]: Amount by M
GA008_2C_11_	Unemployment Compensation of Household Member [11]: Amount by M
GA008_2C_12_	Unemployment Compensation of Household Member [12]: Amount by M
GA008_2C_1_	Unemployment Compensation of Household Member [1]: Amount by Mo
GA008_2C_2_	Unemployment Compensation of Household Member [2]: Amount by Mo
GA008_2C_3_	Unemployment Compensation of Household Member [3]: Amount by Mo
GA008_2C_4_	Unemployment Compensation of Household Member [4]: Amount by Mo
GA008_2C_5_	Unemployment Compensation of Household Member [5]: Amount by Mo
GA008_2C_6_	Unemployment Compensation of Household Member [6]: Amount by Mo





GA008_5C_4_	Elderly Family Planning Subsidies of Household Member [4]: Amou
GA008_5C_5_	Elderly Family Planning Subsidies of Household Member [5]: Amou
GA008_5C_6_	Elderly Family Planning Subsidies of Household Member [6]: Amou
GA008_5C_7_	Elderly Family Planning Subsidies of Household Member [7]: Amou
GA008_5C_8_	Elderly Family Planning Subsidies of Household Member [8]: Amou
GA008_5C_9_	Elderly Family Planning Subsidies of Household Member [9]: Amou
GA008_6B_10_	Medical Aid of Household Member [10]: Amount by Year
GA008_6B_11_	Medical Aid of Household Member [11]: Amount by Year
GA008_6B_12_	Medical Aid of Household Member [12]: Amount by Year
GA008_6B_1_	Medical Aid of Household Member [1]: Amount by Year
GA008_6B_2_	Medical Aid of Household Member [2]: Amount by Year
GA008_6B_3_	Medical Aid of Household Member [3]: Amount by Year
GA008_6B_4_	Medical Aid of Household Member [4]: Amount by Year
GA008_6B_5_	Medical Aid of Household Member [5]: Amount by Year
GA008_6B_6_	Medical Aid of Household Member [6]: Amount by Year
GA008_6B_7_	Medical Aid of Household Member [7]: Amount by Year
GA008_6B_8_	Medical Aid of Household Member [8]: Amount by Year
GA008_6B_9_	Medical Aid of Household Member [9]: Amount by Year
GA008_6C_10_	Medical Aid of Household Member [10]: Amount by Month
GA008_6C_11_	Medical Aid of Household Member [11]: Amount by Month
GA008_6C_12_	Medical Aid of Household Member [12]: Amount by Month
GA008_6C_1_	Medical Aid of Household Member [1]: Amount by Month
GA008_6C_2_	Medical Aid of Household Member [2]: Amount by Month
GA008_6C_3_	Medical Aid of Household Member [3]: Amount by Month
GA008_6C_4_	Medical Aid of Household Member [4]: Amount by Month
GA008_6C_5_	Medical Aid of Household Member [5]: Amount by Month
GA008_6C_6_	Medical Aid of Household Member [6]: Amount by Month
GA008_6C_7_	Medical Aid of Household Member [7]: Amount by Month
GA008_6C_8_	Medical Aid of Household Member [8]: Amount by Month
GA008_6C_9_	Medical Aid of Household Member [9]: Amount by Month
GA008_7B_10_	Other Government Subsidies of Household Member [10]: Amount by
GA008_7B_11_	Other Government Subsidies of Household Member [11]: Amount by
GA008_7B_12_	Other Government Subsidies of Household Member [12]: Amount by
GA008_7B_1_	Other Government Subsidies of Household Member [1]: Amount by Y
GA008_7B_2_	Other Government Subsidies of Household Member [2]: Amount by Y
GA008_7B_3_	Other Government Subsidies of Household Member [3]: Amount by Y
GA008_7B_4_	Other Government Subsidies of Household Member [4]: Amount by Y
GA008_7B_5_	Other Government Subsidies of Household Member [5]: Amount by Y
GA008_7B_6_	Other Government Subsidies of Household Member [6]: Amount by Y
GA008_7B_7_	Other Government Subsidies of Household Member [7]: Amount by Y
GA008_7B_8_	Other Government Subsidies of Household Member [8]: Amount by Y
GA008_7B_9_	Other Government Subsidies of Household Member [9]: Amount by Y
GA008_7C_10_	Other Government Subsidies of Household Member [10]: Amount by
GA008_7C_11_	Other Government Subsidies of Household Member [11]: Amount by
GA008_7C_12_	Other Government Subsidies of Household Member [12]: Amount by
GA008_7C_1_	Other Government Subsidies of Household Member [1]: Amount by M
GA008_7C_2_	Other Government Subsidies of Household Member [2]: Amount by M
GA008_7C_3_	Other Government Subsidies of Household Member [3]: Amount by M
GA008_7C_4_	Other Government Subsidies of Household Member [4]: Amount by M
GA008_7C_5_	Other Government Subsidies of Household Member [5]: Amount by M
GA008_7C_6_	Other Government Subsidies of Household Member [6]: Amount by M
GA008_7C_7_	Other Government Subsidies of Household Member [7]: Amount by M
GA008_7C_8_	Other Government Subsidies of Household Member [8]: Amount by M
GA008_7C_9_	Other Government Subsidies of Household Member [9]: Amount by M
GA008_8B_10_	Social Assistance of Household Member [10]: Amount by Year
GA008_8B_11_	Social Assistance of Household Member [11]: Amount by Year
GA008_8B_12_	Social Assistance of Household Member [12]: Amount by Year
GA008_8B_1_	Social Assistance of Household Member [1]: Amount by Year
GA008_8B_2_	Social Assistance of Household Member [2]: Amount by Year
GA008_8B_3_	Social Assistance of Household Member [3]: Amount by Year
GA008_8B_4_	Social Assistance of Household Member [4]: Amount by Year
GA008_8B_5_	Social Assistance of Household Member [5]: Amount by Year
GA008_8B_6_	Social Assistance of Household Member [6]: Amount by Year
GA008_8B_7_	Social Assistance of Household Member [7]: Amount by Year
GA008_8B_8_	Social Assistance of Household Member [8]: Amount by Year
GA008_8B_9_	Social Assistance of Household Member [9]: Amount by Year
GA008_8C_10_	Social Assistance of Household Member [10]: Amount by Month
GA008_8C_11_	Social Assistance of Household Member [11]: Amount by Month
GA008_8C_12_	Social Assistance of Household Member [12]: Amount by Month

GA008_8C_1_	Social Assistance of Household Member [1]: Amount by Month
GA008_8C_2_	Social Assistance of Household Member [2]: Amount by Month
GA008_8C_3_	Social Assistance of Household Member [3]: Amount by Month
GA008_8C_4_	Social Assistance of Household Member [4]: Amount by Month
GA008_8C_5_	Social Assistance of Household Member [5]: Amount by Month
GA008_8C_6_	Social Assistance of Household Member [6]: Amount by Month
GA008_8C_7_	Social Assistance of Household Member [7]: Amount by Month
GA008_8C_8_	Social Assistance of Household Member [8]: Amount by Month
GA008_8C_9_	Social Assistance of Household Member [9]: Amount by Month
GD001	Household Received Dibao
GD002S1	Household Received Reforestation
GD002S2	Household Received Agricultural Subsidies
GD002S3	Household Received Wubaohu
GD002S4	Household Received Tekunhu
GD002S5	Household Received Work Injury Subsidies
GD002S6	Household Received Emergency or Disaster Relief
GD002S7	Household Received Other Government Subsidies
GD002S8	No Government Subsidies
GD002_1	Amount of Reforestation
GD002_2	Amount of Agricultural Subsidies
GD002_3	Amount of Wubaohu
GD002_4	Amount of Tekunhu
GD002_5	Amount of Work Injury Subsidies
GD002_6	Amount of Emergency or Disaster Relief
GD002_7	Amount of Other Government Subsidies
GD003S1	Receive Donations
GD003S2	Receive Compensation for Land Seizure
GD003S3	Receive Compensation to Pulling down House
GD003_1	Amount of Donations
GD003_2	Amount of Compensation for Land Seizure
GD003_3	Amount of Compensation to Pulling down House
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You
Wave 3:	
A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member
A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member

A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
GA003S1	Receives Pension
GA003S10	None of The above
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers' Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_2_	Amount Received for Unemployment Compensation
GA004_3_	Amount Received for Pension Subsidy
GA004_4_	Amount Received for Workers' Compensation
GA004_5_	Amount Received for Elderly Family Planning Subsidies
GA004_6_	Amount Received for Medical Aid
GA004_7_	Amount Received for Other Government Subsidies
GA004_8_	Amount Received for Social Assistance
GA007_10_S1	Household Member [10] Receives Pensions
GA007_10_S10	Household Member [10] Receives None of The above
GA007_10_S2	Household Member [10] Receives Unemployment Compensation
GA007_10_S3	Household Member [10] Receives Pension Subsidy
GA007_10_S4	Household Member [10] Receives Worker's Compensation
GA007_10_S5	Household Member [10] Receives Elderly Family Planning Subsidie
GA007_10_S6	Household Member [10] Receives Medical Aid
GA007_10_S7	Household Member [10] Receives Other Government Subsidies
GA007_10_S8	Household Member [10] Receives Social Assistance
GA007_10_S9	Household Member [10] Receives Other Income Sources
GA007_1_S1	Household Member [1] Receives Pensions
GA007_1_S10	Household Member [1] Receives None of The above
GA007_1_S2	Household Member [1] Receives Unemployment Compensation
GA007_1_S3	Household Member [1] Receives Pension Subsidy
GA007_1_S4	Household Member [1] Receives Worker's Compensation
GA007_1_S5	Household Member [1] Receives Elderly Family Planning Subsidies
GA007_1_S6	Household Member [1] Receives Medical Aid
GA007_1_S7	Household Member [1] Receives Other Government Subsidies
GA007_1_S8	Household Member [1] Receives Social Assistance
GA007_1_S9	Household Member [1] Receives Other Income Sources
GA007_2_S1	Household Member [2] Receives Pensions
GA007_2_S10	Household Member [2] Receives None of The above
GA007_2_S2	Household Member [2] Receives Unemployment Compensation
GA007_2_S3	Household Member [2] Receives Pension Subsidy
GA007_2_S4	Household Member [2] Receives Worker's Compensation
GA007_2_S5	Household Member [2] Receives Elderly Family Planning Subsidies
GA007_2_S6	Household Member [2] Receives Medical Aid
GA007_2_S7	Household Member [2] Receives Other Government Subsidies
GA007_2_S8	Household Member [2] Receives Social Assistance
GA007_2_S9	Household Member [2] Receives Other Income Sources
GA007_3_S1	Household Member [3] Receives Pensions
GA007_3_S10	Household Member [3] Receives None of The above
GA007_3_S2	Household Member [3] Receives Unemployment Compensation
GA007_3_S3	Household Member [3] Receives Pension Subsidy
GA007_3_S4	Household Member [3] Receives Worker's Compensation
GA007_3_S5	Household Member [3] Receives Elderly Family Planning Subsidies
GA007_3_S6	Household Member [3] Receives Medical Aid
GA007_3_S7	Household Member [3] Receives Other Government Subsidies
GA007_3_S8	Household Member [3] Receives Social Assistance
GA007_3_S9	Household Member [3] Receives Other Income Sources
GA007_4_S1	Household Member [4] Receives Pensions
GA007_4_S10	Household Member [4] Receives None of The above
GA007_4_S2	Household Member [4] Receives Unemployment Compensation
GA007_4_S3	Household Member [4] Receives Pension Subsidy
GA007_4_S4	Household Member [4] Receives Worker's Compensation
GA007_4_S5	Household Member [4] Receives Elderly Family Planning Subsidies

GA007_4_S6	Household Member [4] Receives Medical Aid
GA007_4_S7	Household Member [4] Receives Other Government Subsidies
GA007_4_S8	Household Member [4] Receives Social Assistance
GA007_4_S9	Household Member [4] Receives Other Income Sources
GA007_5_S1	Household Member [5] Receives Pensions
GA007_5_S10	Household Member [5] Receives None of The above
GA007_5_S2	Household Member [5] Receives Unemployment Compensation
GA007_5_S3	Household Member [5] Receives Pension Subsidy
GA007_5_S4	Household Member [5] Receives Worker's Compensation
GA007_5_S5	Household Member [5] Receives Elderly Family Planning Subsidies
GA007_5_S6	Household Member [5] Receives Medical Aid
GA007_5_S7	Household Member [5] Receives Other Government Subsidies
GA007_5_S8	Household Member [5] Receives Social Assistance
GA007_5_S9	Household Member [5] Receives Other Income Sources
GA007_6_S1	Household Member [6] Receives Pensions
GA007_6_S10	Household Member [6] Receives None of The above
GA007_6_S2	Household Member [6] Receives Unemployment Compensation
GA007_6_S3	Household Member [6] Receives Pension Subsidy
GA007_6_S4	Household Member [6] Receives Worker's Compensation
GA007_6_S5	Household Member [6] Receives Elderly Family Planning Subsidies
GA007_6_S6	Household Member [6] Receives Medical Aid
GA007_6_S7	Household Member [6] Receives Other Government Subsidies
GA007_6_S8	Household Member [6] Receives Social Assistance
GA007_6_S9	Household Member [6] Receives Other Income Sources
GA007_7_S1	Household Member [7] Receives Pensions
GA007_7_S10	Household Member [7] Receives None of The above
GA007_7_S2	Household Member [7] Receives Unemployment Compensation
GA007_7_S3	Household Member [7] Receives Pension Subsidy
GA007_7_S4	Household Member [7] Receives Worker's Compensation
GA007_7_S5	Household Member [7] Receives Elderly Family Planning Subsidies
GA007_7_S6	Household Member [7] Receives Medical Aid
GA007_7_S7	Household Member [7] Receives Other Government Subsidies
GA007_7_S8	Household Member [7] Receives Social Assistance
GA007_7_S9	Household Member [7] Receives Other Income Sources
GA007_8_S1	Household Member [8] Receives Pensions
GA007_8_S10	Household Member [8] Receives None of The above
GA007_8_S2	Household Member [8] Receives Unemployment Compensation
GA007_8_S3	Household Member [8] Receives Pension Subsidy
GA007_8_S4	Household Member [8] Receives Worker's Compensation
GA007_8_S5	Household Member [8] Receives Elderly Family Planning Subsidies
GA007_8_S6	Household Member [8] Receives Medical Aid
GA007_8_S7	Household Member [8] Receives Other Government Subsidies
GA007_8_S8	Household Member [8] Receives Social Assistance
GA007_8_S9	Household Member [8] Receives Other Income Sources
GA007_9_S1	Household Member [9] Receives Pensions
GA007_9_S10	Household Member [9] Receives None of The above
GA007_9_S2	Household Member [9] Receives Unemployment Compensation
GA007_9_S3	Household Member [9] Receives Pension Subsidy
GA007_9_S4	Household Member [9] Receives Worker's Compensation
GA007_9_S5	Household Member [9] Receives Elderly Family Planning Subsidies
GA007_9_S6	Household Member [9] Receives Medical Aid
GA007_9_S7	Household Member [9] Receives Other Government Subsidies
GA007_9_S8	Household Member [9] Receives Social Assistance
GA007_9_S9	Household Member [9] Receives Other Income Sources
GA008_2B_10_	Unemployment Compensation of Household Member [10]: Amount by Y
GA008_2B_1_	Unemployment Compensation of Household Member [1]: Amount by Ye
GA008_2B_2_	Unemployment Compensation of Household Member [2]: Amount by Ye
GA008_2B_3_	Unemployment Compensation of Household Member [3]: Amount by Ye
GA008_2B_4_	Unemployment Compensation of Household Member [4]: Amount by Ye
GA008_2B_5_	Unemployment Compensation of Household Member [5]: Amount by Ye
GA008_2B_6_	Unemployment Compensation of Household Member [6]: Amount by Ye
GA008_2B_7_	Unemployment Compensation of Household Member [7]: Amount by Ye
GA008_2B_8_	Unemployment Compensation of Household Member [8]: Amount by Ye
GA008_2B_9_	Unemployment Compensation of Household Member [9]: Amount by Ye
GA008_2C_10_	Unemployment Compensation of Household Member [10]: Amount by M
GA008_2C_1_	Unemployment Compensation of Household Member [1]: Amount by Mo
GA008_2C_2_	Unemployment Compensation of Household Member [2]: Amount by Mo
GA008_2C_3_	Unemployment Compensation of Household Member [3]: Amount by Mo
GA008_2C_4_	Unemployment Compensation of Household Member [4]: Amount by Mo

GA008_2C_5_	Unemployment Compensation of Household Member [5]: Amount by Mo
GA008_2C_6_	Unemployment Compensation of Household Member [6]: Amount by Mo
GA008_2C_7_	Unemployment Compensation of Household Member [7]: Amount by Mo
GA008_2C_8_	Unemployment Compensation of Household Member [8]: Amount by Mo
GA008_2C_9_	Unemployment Compensation of Household Member [9]: Amount by Mo
GA008_3B_10_	Pension Subsidy of Household Member [10]: Amount by Year
GA008_3B_1_	Pension Subsidy of Household Member [1]: Amount by Year
GA008_3B_2_	Pension Subsidy of Household Member [2]: Amount by Year
GA008_3B_3_	Pension Subsidy of Household Member [3]: Amount by Year
GA008_3B_4_	Pension Subsidy of Household Member [4]: Amount by Year
GA008_3B_5_	Pension Subsidy of Household Member [5]: Amount by Year
GA008_3B_6_	Pension Subsidy of Household Member [6]: Amount by Year
GA008_3B_7_	Pension Subsidy of Household Member [7]: Amount by Year
GA008_3B_8_	Pension Subsidy of Household Member [8]: Amount by Year
GA008_3B_9_	Pension Subsidy of Household Member [9]: Amount by Year
GA008_3C_10_	Pension Subsidy of Household Member [10]: Amount by Month
GA008_3C_1_	Pension Subsidy of Household Member [1]: Amount by Month
GA008_3C_2_	Pension Subsidy of Household Member [2]: Amount by Month
GA008_3C_3_	Pension Subsidy of Household Member [3]: Amount by Month
GA008_3C_4_	Pension Subsidy of Household Member [4]: Amount by Month
GA008_3C_5_	Pension Subsidy of Household Member [5]: Amount by Month
GA008_3C_6_	Pension Subsidy of Household Member [6]: Amount by Month
GA008_3C_7_	Pension Subsidy of Household Member [7]: Amount by Month
GA008_3C_8_	Pension Subsidy of Household Member [8]: Amount by Month
GA008_3C_9_	Pension Subsidy of Household Member [9]: Amount by Month
GA008_4B_10_	Worker's Compensation of Household Member [10]: Amount by Year
GA008_4B_1_	Worker's Compensation of Household Member [1]: Amount by Year
GA008_4B_2_	Worker's Compensation of Household Member [2]: Amount by Year
GA008_4B_3_	Worker's Compensation of Household Member [3]: Amount by Year
GA008_4B_4_	Worker's Compensation of Household Member [4]: Amount by Year
GA008_4B_5_	Worker's Compensation of Household Member [5]: Amount by Year
GA008_4B_6_	Worker's Compensation of Household Member [6]: Amount by Year
GA008_4B_7_	Worker's Compensation of Household Member [7]: Amount by Year
GA008_4B_8_	Worker's Compensation of Household Member [8]: Amount by Year
GA008_4B_9_	Worker's Compensation of Household Member [9]: Amount by Year
GA008_4C_10_	Worker's Compensation of Household Member [10]: Amount by Month
GA008_4C_1_	Worker's Compensation of Household Member [1]: Amount by Month
GA008_4C_2_	Worker's Compensation of Household Member [2]: Amount by Month
GA008_4C_3_	Worker's Compensation of Household Member [3]: Amount by Month
GA008_4C_4_	Worker's Compensation of Household Member [4]: Amount by Month
GA008_4C_5_	Worker's Compensation of Household Member [5]: Amount by Month
GA008_4C_6_	Worker's Compensation of Household Member [6]: Amount by Month
GA008_4C_7_	Worker's Compensation of Household Member [7]: Amount by Month
GA008_4C_8_	Worker's Compensation of Household Member [8]: Amount by Month
GA008_4C_9_	Worker's Compensation of Household Member [9]: Amount by Month
GA008_5B_10_	Elderly Family Planning Subsidies of Household Member [10]: Amo
GA008_5B_1_	Elderly Family Planning Subsidies of Household Member [1]: Amou
GA008_5B_2_	Elderly Family Planning Subsidies of Household Member [2]: Amou
GA008_5B_3_	Elderly Family Planning Subsidies of Household Member [3]: Amou
GA008_5B_4_	Elderly Family Planning Subsidies of Household Member [4]: Amou
GA008_5B_5_	Elderly Family Planning Subsidies of Household Member [5]: Amou
GA008_5B_6_	Elderly Family Planning Subsidies of Household Member [6]: Amou
GA008_5B_7_	Elderly Family Planning Subsidies of Household Member [7]: Amou
GA008_5B_8_	Elderly Family Planning Subsidies of Household Member [8]: Amou
GA008_5B_9_	Elderly Family Planning Subsidies of Household Member [9]: Amou
GA008_5C_10_	Elderly Family Planning Subsidies of Household Member [10]: Amo
GA008_5C_1_	Elderly Family Planning Subsidies of Household Member [1]: Amou
GA008_5C_2_	Elderly Family Planning Subsidies of Household Member [2]: Amou
GA008_5C_3_	Elderly Family Planning Subsidies of Household Member [3]: Amou
GA008_5C_4_	Elderly Family Planning Subsidies of Household Member [4]: Amou
GA008_5C_5_	Elderly Family Planning Subsidies of Household Member [5]: Amou
GA008_5C_6_	Elderly Family Planning Subsidies of Household Member [6]: Amou
GA008_5C_7_	Elderly Family Planning Subsidies of Household Member [7]: Amou
GA008_5C_8_	Elderly Family Planning Subsidies of Household Member [8]: Amou
GA008_5C_9_	Elderly Family Planning Subsidies of Household Member [9]: Amou
GA008_6B_10_	Medical Aid of Household Member [10]: Amount by Year
GA008_6B_1_	Medical Aid of Household Member [1]: Amount by Year
GA008_6B_2_	Medical Aid of Household Member [2]: Amount by Year
GA008_6B_3_	Medical Aid of Household Member [3]: Amount by Year

GA008_6B_4_	Medical Aid of Household Member [4]: Amount by Year
GA008_6B_5_	Medical Aid of Household Member [5]: Amount by Year
GA008_6B_6_	Medical Aid of Household Member [6]: Amount by Year
GA008_6B_7_	Medical Aid of Household Member [7]: Amount by Year
GA008_6B_8_	Medical Aid of Household Member [8]: Amount by Year
GA008_6B_9_	Medical Aid of Household Member [9]: Amount by Year
GA008_6C_10_	Medical Aid of Household Member [10]: Amount by Month
GA008_6C_1_	Medical Aid of Household Member [1]: Amount by Month
GA008_6C_2_	Medical Aid of Household Member [2]: Amount by Month
GA008_6C_3_	Medical Aid of Household Member [3]: Amount by Month
GA008_6C_4_	Medical Aid of Household Member [4]: Amount by Month
GA008_6C_5_	Medical Aid of Household Member [5]: Amount by Month
GA008_6C_6_	Medical Aid of Household Member [6]: Amount by Month
GA008_6C_7_	Medical Aid of Household Member [7]: Amount by Month
GA008_6C_8_	Medical Aid of Household Member [8]: Amount by Month
GA008_6C_9_	Medical Aid of Household Member [9]: Amount by Month
GA008_7B_10_	Other Government Subsidies of Household Member [10]: Amount by
GA008_7B_1_	Other Government Subsidies of Household Member [1]: Amount by Y
GA008_7B_2_	Other Government Subsidies of Household Member [2]: Amount by Y
GA008_7B_3_	Other Government Subsidies of Household Member [3]: Amount by Y
GA008_7B_4_	Other Government Subsidies of Household Member [4]: Amount by Y
GA008_7B_5_	Other Government Subsidies of Household Member [5]: Amount by Y
GA008_7B_6_	Other Government Subsidies of Household Member [6]: Amount by Y
GA008_7B_7_	Other Government Subsidies of Household Member [7]: Amount by Y
GA008_7B_8_	Other Government Subsidies of Household Member [8]: Amount by Y
GA008_7B_9_	Other Government Subsidies of Household Member [9]: Amount by Y
GA008_7C_10_	Other Government Subsidies of Household Member [10]: Amount by
GA008_7C_1_	Other Government Subsidies of Household Member [1]: Amount by M
GA008_7C_2_	Other Government Subsidies of Household Member [2]: Amount by M
GA008_7C_3_	Other Government Subsidies of Household Member [3]: Amount by M
GA008_7C_4_	Other Government Subsidies of Household Member [4]: Amount by M
GA008_7C_5_	Other Government Subsidies of Household Member [5]: Amount by M
GA008_7C_6_	Other Government Subsidies of Household Member [6]: Amount by M
GA008_7C_7_	Other Government Subsidies of Household Member [7]: Amount by M
GA008_7C_8_	Other Government Subsidies of Household Member [8]: Amount by M
GA008_7C_9_	Other Government Subsidies of Household Member [9]: Amount by M
GA008_8B_10_	Social Assistance of Household Member [10]: Amount by Year
GA008_8B_1_	Social Assistance of Household Member [1]: Amount by Year
GA008_8B_2_	Social Assistance of Household Member [2]: Amount by Year
GA008_8B_3_	Social Assistance of Household Member [3]: Amount by Year
GA008_8B_4_	Social Assistance of Household Member [4]: Amount by Year
GA008_8B_5_	Social Assistance of Household Member [5]: Amount by Year
GA008_8B_6_	Social Assistance of Household Member [6]: Amount by Year
GA008_8B_7_	Social Assistance of Household Member [7]: Amount by Year
GA008_8B_8_	Social Assistance of Household Member [8]: Amount by Year
GA008_8B_9_	Social Assistance of Household Member [9]: Amount by Year
GA008_8C_10_	Social Assistance of Household Member [10]: Amount by Month
GA008_8C_1_	Social Assistance of Household Member [1]: Amount by Month
GA008_8C_2_	Social Assistance of Household Member [2]: Amount by Month
GA008_8C_3_	Social Assistance of Household Member [3]: Amount by Month
GA008_8C_4_	Social Assistance of Household Member [4]: Amount by Month
GA008_8C_5_	Social Assistance of Household Member [5]: Amount by Month
GA008_8C_6_	Social Assistance of Household Member [6]: Amount by Month
GA008_8C_7_	Social Assistance of Household Member [7]: Amount by Month
GA008_8C_8_	Social Assistance of Household Member [8]: Amount by Month
GA008_8C_9_	Social Assistance of Household Member [9]: Amount by Month
GD001	Household Received Dibao
GD002S1	Household Received Reforestation
GD002S2	Household Received Agricultural Subsidies
GD002S3	Household Received Wubaohu
GD002S4	Household Received Tekunhu
GD002S5	Household Received Work Injury Subsidies
GD002S6	Household Received Emergency or Disaster Relief
GD002S7	Household Received Other Government Subsidies
GD002S8	No Government Subsidies
GD002_1	Amount of Reforestation
GD002_2	Amount of Agricultural Subsidies
GD002_3	Amount of Wubaohu
GD002_4	Amount of Tekunhu

GD002_5	Amount of Work Injury Subsidies
GD002_6	Amount of Emergency or Disaster Relief
GD002_7	Amount of Other Government Subsidies
GD003S1	Receive Donations
GD003S2	Receive Compensation for Land Seizure
GD003S3	Receive Compensation to Pulling down House
GD003S4	No Any Donations or Compensation
GD003_1	Amount of Donations
GD003_2	Amount of Compensation for Land Seizure
GD003_3	Amount of Compensation to Pulling down House

## Wave 4:

A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
GA003_W4_1	Pension Amount
GA003_W4_2	Unemployment Compensation Amount
GA003_W4_3	Pension Voucher Amount
GA003_W4_4	Pension Subsidy for the Oldest Old Amount
GA003_W4_5	Workers' Industrial Accident Compensation Amount
GA003_W4_6	Elderly Family Planning Subsidy Amount
GA003_W4_7	Medical Aid Amount
GA003_W4_8	Other Government Subsidy Amount
GA003_W4_S1	Pension
GA003_W4_S10	None of the Above
GA003_W4_S2	Unemployment Compensation
GA003_W4_S3	Pension Voucher
GA003_W4_S4	Pension Subsidy for the Oldest Old
GA003_W4_S5	Workers' Industrial Accident Compensation
GA003_W4_S6	Elderly Family Planning Subsidy
GA003_W4_S7	Medical Aid
GA003_W4_S8	Other Government Subsidy
GA003_W4_S9	Other Income Source
GA007_W4_10__S1	Pension HHMemberName[10] Receive
GA007_W4_10__S10	None of the Above HHMemberName[10] Receive
GA007_W4_10__S2	Unemployment Compensation HHMemberName[10] Receive
GA007_W4_10__S3	Pension Voucher HHMemberName[10] Receive
GA007_W4_10__S4	Pension Subsidy for the Oldest Old HHMemberName[10] Receive
GA007_W4_10__S5	Workers' Industrial Accident Compensation HHMemberName[10] Rece
GA007_W4_10__S6	Elderly Family Planning Subsidy HHMemberName[10] Receive
GA007_W4_10__S7	Medical Aid HHMemberName[10] Receive
GA007_W4_10__S8	Other Government Subsidy HHMemberName[10] Receive
GA007_W4_10__S9	Other Income Source HHMemberName[10] Receive
GA007_W4_11__S1	Pension HHMemberName[11] Receive
GA007_W4_11__S10	None of the Above HHMemberName[11] Receive
GA007_W4_11__S2	Unemployment Compensation HHMemberName[11] Receive
GA007_W4_11__S3	Pension Voucher HHMemberName[11] Receive
GA007_W4_11__S4	Pension Subsidy for the Oldest Old HHMemberName[11] Receive
GA007_W4_11__S5	Workers' Industrial Accident Compensation HHMemberName[11] Rece
GA007_W4_11__S6	Elderly Family Planning Subsidy HHMemberName[11] Receive
GA007_W4_11__S7	Medical Aid HHMemberName[11] Receive
GA007_W4_11__S8	Other Government Subsidy HHMemberName[11] Receive
GA007_W4_11__S9	Other Income Source HHMemberName[11] Receive

GA007_W4_12__S1	Pension HHMemberName[12] Receive
GA007_W4_12__S10	None of the Above HHMemberName[12] Receive
GA007_W4_12__S2	Unemployment Compensation HHMemberName[12] Receive
GA007_W4_12__S3	Pension Voucher HHMemberName[12] Receive
GA007_W4_12__S4	Pension Subsidy for the Oldest Old HHMemberName[12] Receive
GA007_W4_12__S5	Workers' Industrial Accident Compensation HHMemberName[12] Rece
GA007_W4_12__S6	Elderly Family Planning Subsidy HHMemberName[12] Receive
GA007_W4_12__S7	Medical Aid HHMemberName[12] Receive
GA007_W4_12__S8	Other Government Subsidy HHMemberName[12] Receive
GA007_W4_12__S9	Other Income Source HHMemberName[12] Receive
GA007_W4_1__S1	Pension HHMemberName[1] Receive
GA007_W4_1__S10	None of the Above HHMemberName[1] Receive
GA007_W4_1__S2	Unemployment Compensation HHMemberName[1] Receive
GA007_W4_1__S3	Pension Voucher HHMemberName[1] Receive
GA007_W4_1__S4	Pension Subsidy for the Oldest Old HHMemberName[1] Receive
GA007_W4_1__S5	Workers' Industrial Accident Compensation HHMemberName[1] Recei
GA007_W4_1__S6	Elderly Family Planning Subsidy HHMemberName[1] Receive
GA007_W4_1__S7	Medical Aid HHMemberName[1] Receive
GA007_W4_1__S8	Other Government Subsidy HHMemberName[1] Receive
GA007_W4_1__S9	Other Income Source HHMemberName[1] Receive
GA007_W4_2_1__	Unemployment Compensation Amount HHMemberName[1] Receive
GA007_W4_2_2__	Unemployment Compensation Amount HHMemberName[2] Receive
GA007_W4_2_3__	Unemployment Compensation Amount HHMemberName[3] Receive
GA007_W4_2__S1	Pension HHMemberName[2] Receive
GA007_W4_2__S10	None of the Above HHMemberName[2] Receive
GA007_W4_2__S2	Unemployment Compensation HHMemberName[2] Receive
GA007_W4_2__S3	Pension Voucher HHMemberName[2] Receive
GA007_W4_2__S4	Pension Subsidy for the Oldest Old HHMemberName[2] Receive
GA007_W4_2__S5	Workers' Industrial Accident Compensation HHMemberName[2] Recei
GA007_W4_2__S6	Elderly Family Planning Subsidy HHMemberName[2] Receive
GA007_W4_2__S7	Medical Aid HHMemberName[2] Receive
GA007_W4_2__S8	Other Government Subsidy HHMemberName[2] Receive
GA007_W4_2__S9	Other Income Source HHMemberName[2] Receive
GA007_W4_3_1__	Pension Voucher Amount HHMemberName[1] Receive
GA007_W4_3_2__	Pension Voucher Amount HHMemberName[2] Receive
GA007_W4_3__S1	Pension HHMemberName[3] Receive
GA007_W4_3__S10	None of the Above HHMemberName[3] Receive
GA007_W4_3__S2	Unemployment Compensation HHMemberName[3] Receive
GA007_W4_3__S3	Pension Voucher HHMemberName[3] Receive
GA007_W4_3__S4	Pension Subsidy for the Oldest Old HHMemberName[3] Receive
GA007_W4_3__S5	Workers' Industrial Accident Compensation HHMemberName[3] Recei
GA007_W4_3__S6	Elderly Family Planning Subsidy HHMemberName[3] Receive
GA007_W4_3__S7	Medical Aid HHMemberName[3] Receive
GA007_W4_3__S8	Other Government Subsidy HHMemberName[3] Receive
GA007_W4_3__S9	Other Income Source HHMemberName[3] Receive
GA007_W4_4_1__	Pension Subsidy for the Oldest Old Amount HHMemberName[1] Recei
GA007_W4_4_2__	Pension Subsidy for the Oldest Old Amount HHMemberName[2] Recei
GA007_W4_4_3__	Pension Subsidy for the Oldest Old Amount HHMemberName[3] Recei
GA007_W4_4_4__	Pension Subsidy for the Oldest Old Amount HHMemberName[4] Recei
GA007_W4_4__S1	Pension HHMemberName[4] Receive
GA007_W4_4__S10	None of the Above HHMemberName[4] Receive
GA007_W4_4__S2	Unemployment Compensation HHMemberName[4] Receive
GA007_W4_4__S3	Pension Voucher HHMemberName[4] Receive
GA007_W4_4__S4	Pension Subsidy for the Oldest Old HHMemberName[4] Receive
GA007_W4_4__S5	Workers' Industrial Accident Compensation HHMemberName[4] Recei
GA007_W4_4__S6	Elderly Family Planning Subsidy HHMemberName[4] Receive
GA007_W4_4__S7	Medical Aid HHMemberName[4] Receive
GA007_W4_4__S8	Other Government Subsidy HHMemberName[4] Receive
GA007_W4_4__S9	Other Income Source HHMemberName[4] Receive
GA007_W4_5_1__	Workers' Industrial Accident Compensation Amount HHMemberName[1]
GA007_W4_5_2__	Workers' Industrial Accident Compensation Amount HHMemberName[2]
GA007_W4_5_3__	Workers' Industrial Accident Compensation Amount HHMemberName[3]
GA007_W4_5_4__	Workers' Industrial Accident Compensation Amount HHMemberName[4]
GA007_W4_5__S1	Pension HHMemberName[5] Receive
GA007_W4_5__S10	None of the Above HHMemberName[5] Receive
GA007_W4_5__S2	Unemployment Compensation HHMemberName[5] Receive
GA007_W4_5__S3	Pension Voucher HHMemberName[5] Receive
GA007_W4_5__S4	Pension Subsidy for the Oldest Old HHMemberName[5] Receive
GA007_W4_5__S5	Workers' Industrial Accident Compensation HHMemberName[5] Recei



GA007_W4_5_S6	Elderly Family Planning Subsidy HHMemberName[5] Receive
GA007_W4_5_S7	Medical Aid HHMemberName[5] Receive
GA007_W4_5_S8	Other Government Subsidy HHMemberName[5] Receive
GA007_W4_5_S9	Other Income Source HHMemberName[5] Receive
GA007_W4_6_1_	Elderly Family Planning Subsidy Amount HHMemberName[1] Receive
GA007_W4_6_2_	Elderly Family Planning Subsidy Amount HHMemberName[2] Receive
GA007_W4_6_3_	Elderly Family Planning Subsidy Amount HHMemberName[3] Receive
GA007_W4_6_S1	Pension HHMemberName[6] Receive
GA007_W4_6_S10	None of the Above HHMemberName[6] Receive
GA007_W4_6_S2	Unemployment Compensation HHMemberName[6] Receive
GA007_W4_6_S3	Pension Voucher HHMemberName[6] Receive
GA007_W4_6_S4	Pension Subsidy for the Oldest Old HHMemberName[6] Receive
GA007_W4_6_S5	Workers' Industrial Accident Compensation HHMemberName[6] Recei
GA007_W4_6_S6	Elderly Family Planning Subsidy HHMemberName[6] Receive
GA007_W4_6_S7	Medical Aid HHMemberName[6] Receive
GA007_W4_6_S8	Other Government Subsidy HHMemberName[6] Receive
GA007_W4_6_S9	Other Income Source HHMemberName[6] Receive
GA007_W4_7_1_	Medical Aid Amount HHMemberName[1] Receive
GA007_W4_7_2_	Medical Aid Amount HHMemberName[2] Receive
GA007_W4_7_3_	Medical Aid Amount HHMemberName[3] Receive
GA007_W4_7_4_	Medical Aid Amount HHMemberName[4] Receive
GA007_W4_7_5_	Medical Aid Amount HHMemberName[5] Receive
GA007_W4_7_S1	Pension HHMemberName[7] Receive
GA007_W4_7_S10	None of the Above HHMemberName[7] Receive
GA007_W4_7_S2	Unemployment Compensation HHMemberName[7] Receive
GA007_W4_7_S3	Pension Voucher HHMemberName[7] Receive
GA007_W4_7_S4	Pension Subsidy for the Oldest Old HHMemberName[7] Receive
GA007_W4_7_S5	Workers' Industrial Accident Compensation HHMemberName[7] Recei
GA007_W4_7_S6	Elderly Family Planning Subsidy HHMemberName[7] Receive
GA007_W4_7_S7	Medical Aid HHMemberName[7] Receive
GA007_W4_7_S8	Other Government Subsidy HHMemberName[7] Receive
GA007_W4_7_S9	Other Income Source HHMemberName[7] Receive
GA007_W4_8_1_	Other Government Subsidy Amount HHMemberName[1] Receive
GA007_W4_8_2_	Other Government Subsidy Amount HHMemberName[2] Receive
GA007_W4_8_3_	Other Government Subsidy Amount HHMemberName[3] Receive
GA007_W4_8_4_	Other Government Subsidy Amount HHMemberName[4] Receive
GA007_W4_8_5_	Other Government Subsidy Amount HHMemberName[5] Receive
GA007_W4_8_6_	Other Government Subsidy Amount HHMemberName[6] Receive
GA007_W4_8_S1	Pension HHMemberName[8] Receive
GA007_W4_8_S10	None of the Above HHMemberName[8] Receive
GA007_W4_8_S2	Unemployment Compensation HHMemberName[8] Receive
GA007_W4_8_S3	Pension Voucher HHMemberName[8] Receive
GA007_W4_8_S4	Pension Subsidy for the Oldest Old HHMemberName[8] Receive
GA007_W4_8_S5	Workers' Industrial Accident Compensation HHMemberName[8] Recei
GA007_W4_8_S6	Elderly Family Planning Subsidy HHMemberName[8] Receive
GA007_W4_8_S7	Medical Aid HHMemberName[8] Receive
GA007_W4_8_S8	Other Government Subsidy HHMemberName[8] Receive
GA007_W4_8_S9	Other Income Source HHMemberName[8] Receive
GA007_W4_9_S1	Pension HHMemberName[9] Receive
GA007_W4_9_S10	None of the Above HHMemberName[9] Receive
GA007_W4_9_S2	Unemployment Compensation HHMemberName[9] Receive
GA007_W4_9_S3	Pension Voucher HHMemberName[9] Receive
GA007_W4_9_S4	Pension Subsidy for the Oldest Old HHMemberName[9] Receive
GA007_W4_9_S5	Workers' Industrial Accident Compensation HHMemberName[9] Recei
GA007_W4_9_S6	Elderly Family Planning Subsidy HHMemberName[9] Receive
GA007_W4_9_S7	Medical Aid HHMemberName[9] Receive
GA007_W4_9_S8	Other Government Subsidy HHMemberName[9] Receive
GA007_W4_9_S9	Other Income Source HHMemberName[9] Receive
GD001_W4_1	Dibao Household
GD001_W4_3	Amount of Dibao Household Assistant
GD002_W4_1	Amount of Reforestation Subsidies
GD002_W4_10	Amount of Other Subsidies
GD002_W4_2	Amount of Agricultural Subsidies
GD002_W4_3	Amount of Wubaohu Subsidies
GD002_W4_4	Amount of Poor Household Subsidies
GD002_W4_5	Amount of Work Injury Subsidies
GD002_W4_6	Amount of Emergency or Disaster Relief
GD002_W4_7	Amount of Social Subsidies
GD002_W4_8	Amount of Compensation for Land Seizure

---

GD002_W4_9	Amount of Compensation to Pull Down House or Apartment
GD002_W4_S1	Receive Reforestation Subsidies
GD002_W4_S10	Receive Other Subsidies
GD002_W4_S11	None of the Above
GD002_W4_S2	Receive Agricultural Subsidies
GD002_W4_S3	Receive Wubaohu Subsidies
GD002_W4_S4	Receive Poor Household Subsidies
GD002_W4_S5	Receive Work Injury Subsidies
GD002_W4_S6	Receive Emergency or Disaster Relief
GD002_W4_S7	Receive Social Subsidies
GD002_W4_S8	Receive Compensation for Land Seizure
GD002_W4_S9	Receive Compensation to Pull Down House or Apartment

<b>Other Income</b>
---------------------

Wave	Variable	Label	Type
1	R1IOTHR	r1iothr:w1 income: r other income	Cont
2	R2IOTHR	r2iothr:w2 income: r other income	Cont
3	R3IOTHR	r3iothr:w3 income: r other income	Cont
4	R4IOTHR	r4iothr:w4 income: r other income	Cont
1	S1IOTHR	s1iothr:w1 income: s other income	Cont
2	S2IOTHR	s2iothr:w2 income: s other income	Cont
3	S3IOTHR	s3iothr:w3 income: s other income	Cont
4	S4IOTHR	s4iothr:w4 income: s other income	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IOTHR	17012	288.87	18433.42	0.00	2400000.00
R2IOTHR	16373	529.70	28432.28	0.00	3613056.00
R3IOTHR	19060	522.60	4822.64	0.00	360000.00
R4IOTHR	19697	502.65	4814.43	0.00	436320.00
S1IOTHR	14465	320.64	19986.45	0.00	2400000.00
S2IOTHR	13891	587.52	30859.24	0.00	3613056.00
S3IOTHR	16283	539.43	4324.95	0.00	300000.00
S4IOTHR	16328	524.57	3864.86	0.00	349360.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

RwIOTHR is the value of respondent's other income. At Waves 1 to 3, this variable consists of two different components:

1. Other income sources (including alimony, child support)
2. Fringe benefits provided by the work place

Starting at Wave 4, this variable consists of one component:

1. Fringe benefits provided by the work place

Respondents who indicate that they have not received other income sources (including alimony, child support) in the past year are not asked the value of other income sources and a value of 0 is assumed. For other income sources, respondents can report the amount of income in two ways: annually or monthly. The amount of other income sources is derived first using the reported annual amount. If the annual amount is missing, then the amount is based on the monthly amount times 12.

The following is a list of possible fringe benefits which might provide by a respondent's work place:

1. Free lunch
2. Free breakfast
3. Free dinner
4. Meal cash subsidy
5. Transportation cash subsidization

6. Free housing
7. Subsidization of housing
8. Company car
9. Company bus
10. Other subsidies

Please note, for fringe benefits income, respondents who indicated that they have not received any fringe benefit are not asked the value and a value of 0 is assumed. There are three conditions for the respondent to be assigned a value of zero with respect to fringe benefits:

1. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months.

2. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not receiving salary from the job, not expecting to go back to the job in the future or within 6 months but have worked for at least three months during lifetime.

3. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not working for at least one hour last week in wage or self-employed work or unpaid family business and not expecting to go back to the job in the future or within 6 months.

Don't know, refused, or other missing responses of RwiOTHR are assigned special missing codes .d, .r, .m respectively. RwiOTHR is set to plain missing (.) for respondents who did not respond to this wave.

SwiOTHR is taken directly from the spouse's value to RwiOTHR. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 to 3, respondents are asked whether they received income from "other" sources (including alimony, child support) in the past year. Starting at Wave 4, respondents are not asked whether they received income from "other" sources in the past year.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2, Wave 3, and Wave 4 Individual Income files.

## Differences with the RAND HRS/Harmonized HRS

Individual other income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The components in this measure are different from the components for other income in the RAND HRS. In RAND HRS, this measure contains alimony, other income, and lump sums from insurance. There are no questions asking lump sum payments from insurance in CHARLS. Fringe benefits income is not included in the RAND HRS other income.

## CHARLS Variables Used:

Wave 1:

FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FB012	Have you completed receding position procedures ?
FC001	Did you work for other famers in wage for at least ten days in
FC004	How many months did you work on [j] in wage for other famers i

FC007	What is the average monthly wage did you get in the last month?
FC019	DO YOU CURRENTLY HAVE MORE THAN ONE JOB
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FE001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FE002	HOW MANY DAYS A WEEK DO YOU USUALLY WORK
FE003	HOW MANY HOURS DO YOU USUALLY WORK PER DAY
FF001	HOW IS YOUR WAGE PAID MAINLY
FF002	THE AFTER TAX ANNUAL SALARY
FF004	THE AFTER TAX AVERAGE MONTHLY SALARY
FF006	THE USUAL WEEKLY WAGE
FF008	THE USUAL DAILY WAGE
FF010	YOUR HOURLY WAGE
FF012	HOW MUCH IN AVERAGE DO YOU RECEIVE PER MONTH AFTER TAX
FF014	the value of all other bonuses
FG001S1	FRINGE BENEFITS
FG001S10	FRINGE BENEFITS
FG001S11	FRINGE BENEFITS
FG001S2	FRINGE BENEFITS
FG001S3	FRINGE BENEFITS
FG001S4	FRINGE BENEFITS
FG001S5	FRINGE BENEFITS
FG001S6	FRINGE BENEFITS
FG001S7	FRINGE BENEFITS
FG001S8	FRINGE BENEFITS
FG001S9	FRINGE BENEFITS
FG002_10_	THE VALUE OF THE SUBSIDY
FG002_1_	THE VALUE OF THE SUBSIDY
FG002_2_	THE VALUE OF THE SUBSIDY
FG002_3_	THE VALUE OF THE SUBSIDY
FG002_4_	THE VALUE OF THE SUBSIDY
FG002_5_	THE VALUE OF THE SUBSIDY
FG002_6_	THE VALUE OF THE SUBSIDY
FG002_7_	THE VALUE OF THE SUBSIDY
FG002_8_	THE VALUE OF THE SUBSIDY
FG002_9_	THE VALUE OF THE SUBSIDY
FH009	DID ANY OTHER HOUSEHOLD MEMBERS WORK IN THE SAME SELF-EMPLOYED
FH010	ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE LAST YE
FJ003	THE AVERAGE MONTHLY INCOME
GA003S1	Show Card31 Did you receive any of the following types of indi
GA003S2	Show Card31 Did you receive any of the following types of indi
GA003S3	Show Card31 Did you receive any of the following types of indi
GA003S4	Show Card31 Did you receive any of the following types of indi
GA003S5	Show Card31 Did you receive any of the following types of indi
GA003S6	Show Card31 Did you receive any of the following types of indi
GA003S7	Show Card31 Did you receive any of the following types of indi
GA003S8	Show Card31 Did you receive any of the following types of indi
GA003S9	Show Card31 Did you receive any of the following types of indi
GA004_1_9_	Yuan/Year
GA004_2_9_	Yuan/Month
Wave 2:	
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC001	Any Work for Other Farmers in Wage
FC004	How Many Months Did You Work for Other Farmers
FC007	Average Monthly Income
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in the Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FF001	Pattern of Wage Payment
FF002_1	After-tax Salary of Last Year(Yuan)
FF004_1	After-tax Salary of Last Month(Yuan)
FF006	After-tax Salary of Last Week
FF008	Daily Wage

FF010	Hourly Wage
FF012_1	How Much Do You Receive Last Month(Yuan)
FF014	All Other Bonus in the Past Year
FG001S1	Free Lunch
FG001S10	Other Subsidies
FG001S11	None
FG001S2	Free Breakfast
FG001S3	Free Dinner
FG001S4	Meal Cash Subsidy
FG001S5	Transportation Subsidizations
FG001S6	Free Housing
FG001S7	Subsidization of Housing
FG001S8	Company Car
FG001S9	Company Bus
FG002_10_	Value of the Subsidy per Month Corresponding to FG001
FG002_1_	Value of the Subsidy per Month Corresponding to FG001
FG002_2_	Value of the Subsidy per Month Corresponding to FG001
FG002_3_	Value of the Subsidy per Month Corresponding to FG001
FG002_4_	Value of the Subsidy per Month Corresponding to FG001
FG002_5_	Value of the Subsidy per Month Corresponding to FG001
FG002_6_	Value of the Subsidy per Month Corresponding to FG001
FG002_7_	Value of the Subsidy per Month Corresponding to FG001
FG002_8_	Value of the Subsidy per Month Corresponding to FG001
FG002_9_	Value of the Subsidy per Month Corresponding to FG001
FH009	Do Any Other Household Member Work in This Activity
FH010	Net Income from This Activity
FJ003	Monthly Income of Side Jobs
GA003S1	Receives Pension
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers' Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_1_9_	Amount by Year: Other Income Sources
GA004_2_9_	Amount by Month: Other Income Sources
XF1	Preload Work Variable
XRTYPE	R Interview Type
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 3:	
FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA007	Ever Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC009	Months for Household Agricultural Work
FC010	Days for Household Agricultural Work
FC011	Hours for Household Agricultural Work
FC014	Last Week Any Non-Agricultural Work
FC015	Currently Laid-off
FC017	Expect to Go Back within 6 Months
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in The Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FG001S1	Free Lunch
FG001S10	Other Subsidies
FG001S11	None
FG001S2	Free Breakfast
FG001S3	Free Dinner
FG001S4	Meal Cash Subsidy
FG001S5	Transportation Subsidizations

FG001S6	Free Housing
FG001S7	Subsidization of Housing
FG001S8	Company Car
FG001S9	Company Bus
FG002_1	Value of The Subsidy per Month Corresponding to FG001
FG002_10	Value of The Subsidy per Month Corresponding to FG001
FG002_2	Value of The Subsidy per Month Corresponding to FG001
FG002_3	Value of The Subsidy per Month Corresponding to FG001
FG002_4	Value of The Subsidy per Month Corresponding to FG001
FG002_5	Value of The Subsidy per Month Corresponding to FG001
FG002_6	Value of The Subsidy per Month Corresponding to FG001
FG002_7	Value of The Subsidy per Month Corresponding to FG001
FG002_8	Value of The Subsidy per Month Corresponding to FG001
FG002_9	Value of The Subsidy per Month Corresponding to FG001
FH001	How Many Months Did You Work in The Past Year
FH002	How Many Days Did You Work per Week
FH003	How Many Hours Did You Work per Day
FK002	Did You Search for a Job Last Month
GA003S1	Receives Pension
GA003S10	None of The above
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers' Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_9_	Amount Received for Other Income Sources
Wave 4:	
FE001	How Many Months Did You Work in The Past Year
FG001_S1	Free Lunch
FG001_S10	Other Benefits not Mentioned Above
FG001_S11	None
FG001_S2	Free Breakfast
FG001_S3	Free Dinner
FG001_S4	Meal Cash Allowance
FG001_S5	Transportation Allowance
FG001_S6	Free Housing
FG001_S7	Housing Allowance
FG001_S8	Company Car
FG001_S9	Free Employee Shuttle
FG002_10_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_1_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_2_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_3_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_4_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_5_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_6_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_7_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_8_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_9_	Monetary Value of the Itemized Benefits per Month Corresponding

<b>Income from Other Household Members</b>
--

Wave	Variable	Label	Type
1	HH1IOTHHH	hh1iothhh:w1 income: income from other household members	Cont
2	HH2IOTHHH	hh2iothhh:w2 income: income from other household members	Cont
3	HH3IOTHHH	hh3iothhh:w3 income: income from other household members	Cont
4	HH4IOTHHH	hh4iothhh:w4 income: income from other household members	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1IOTHHH	16710	9424.36	20242.06	0.00	441600.00
HH2IOTHHH	18018	9092.09	22344.26	0.00	576000.00
HH3IOTHHH	18511	4555.29	17580.52	0.00	1000000.00
HH4IOTHHH	19355	7100.26	24833.74	-54000.00	800000.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

HHwIOTHHH is the value of other household member's total income in the past year. This variable is based on questions asked to the household financial respondent about the amounts of wages and bonus income, pension income, and other income that each of the household members besides respondent and spouse made in the last year.

At Wave 1, respondents are asked to report wage and bonus income of other household members in the past year. The Wave 1 questionnaire does not specify whether the respondent should or should not exclude taxes or other deductions when reporting this amount.

At Waves 2 and 3, respondents are asked to report wage and bonus income of other household members in the past year, excluding taxes and employee social insurance.

Starting at Wave 4, respondents are asked to report wage and bonus income of other household members in the past year. Respondents are then asked if the reported wage and bonus income of other household members excludes insurance, income tax, etc. If the reported wage and bonus income does not exclude insurance, income tax, etc., respondents are asked to report this amount. Respondents can report amount of insurance, income tax, etc. of other family members in three ways: per year, per month, or percentage of wage. At Wave 4, the amount of income is derived by subtracting the amount of insurance, income tax, etc. from the amount of wages and bonus income.

Respondents who indicate that other household members do not receive any wages or bonus income in the past year were not asked the value of income question and are assigned a value of 0. Respondents can report wage and bonus income of other household members in two ways: annually or monthly in Waves 1 to 3, and just annually starting at Wave 4. The amount of income is derived by using the reported annual amount first. If the annual amount is missing, then the amount is based on use the monthly amount times 12.

At Waves 1 to 3, the respondent reports the amount of pension income in two ways: annually or monthly. HHwIOTHHH is derived by using the reported annual amount first. If the annual amount is missing, then the monthly amount times 12 is used to fill the missing. Starting at Wave 4, the respondent reports the amount of pension income annually.

At Wave 1 to 3, respondents are asked to report income other income sources (including alimony, child support) received by other household members in the past year. Starting at Wave 4, respondent are not asked about other income sources received by household members in the past year.

Don't know, refused, or other missing responses of HHwIOTHHH are assigned special missing codes .d, .r, .m respectively. HHwIOTHHH is set to plain missing (.) for respondents who did not respond to this wave.



## Cross Wave Differences in CHARLS

At Wave 1, respondents are asked to report wage and bonus income of other household members in the past year. The Wave 1 questionnaire does not specify whether the respondent should or should not exclude taxes or other deductions when reporting this amount.

At Waves 2 and 3, respondents are asked to report wage and bonus income of other household members in the past year, excluding taxes and employee social insurance.

Starting at Wave 4, respondents are asked to report wage and bonus income of other household members in the past year. Respondents are then asked if the reported wage and bonus income of other household members excludes insurance, income tax, etc. If the reported wage and bonus income does not exclude insurance, income tax, etc., respondents are asked to report this amount. Respondents can report amount of insurance, income tax, etc. of other family members in three ways: per year, per month, or percentage of wage.

At Waves 1 to 3, the respondent reports the amount of pension income in two ways: annually or monthly. Starting at Wave 4, the respondent reports the amount of pension income annually.

At Wave 1 to 3, respondents are asked to report income other income sources (including alimony, child support) received by other household members in the past year. Starting at Wave 4, respondent are not asked about other income sources received by household members in the past year.

In the current release of the Wave 3 CHARLS data there is a high number of households with missing information as to whether all other household members receive wages, pension income or other income. From the Wave 3 survey questionnaire it appears that all household members who are not the respondent or spouse are supposed to be asked about in this section, but there is a particularly high number of children of the main respondent for whom no information is provided as whether they do or not receive these income types.

## Differences with the RAND HRS/Harmonized HRS

Other household member's income is not included as part of the RAND HRS.

## CHARLS Variables Used:

### Wave 1:

GA006_1_10_	Salary Per Year
GA006_1_11_	Salary Per Year
GA006_1_12_	Salary Per Year
GA006_1_13_	Salary Per Year
GA006_1_14_	Salary Per Year
GA006_1_15_	Salary Per Year
GA006_1_1_	Salary Per Year
GA006_1_2_	Salary Per Year
GA006_1_3_	Salary Per Year
GA006_1_4_	Salary Per Year
GA006_1_5_	Salary Per Year
GA006_1_6_	Salary Per Year
GA006_1_7_	Salary Per Year
GA006_1_8_	Salary Per Year
GA006_1_9_	Salary Per Year
GA006_2_10_	Salary Per Month
GA006_2_11_	Salary Per Month
GA006_2_12_	Salary Per Month
GA006_2_13_	Salary Per Month
GA006_2_14_	Salary Per Month
GA006_2_15_	Salary Per Month
GA006_2_1_	Salary Per Month
GA006_2_2_	Salary Per Month
GA006_2_3_	Salary Per Month
GA006_2_4_	Salary Per Month
GA006_2_5_	Salary Per Month
GA006_2_6_	Salary Per Month
GA006_2_7_	Salary Per Month
GA006_2_8_	Salary Per Month
GA006_2_9_	Salary Per Month
GA008_9_A_1_	Yuan/Year of Other Income Source

GA008_9_A_2_	Yuan/Year of Other Income Source
GA008_9_A_3_	Yuan/Year of Other Income Source
GA008_9_A_4_	Yuan/Year of Other Income Source
GA008_9_B_1_	Yuan/Month of Other Income Source
GA008_9_B_2_	Yuan/Month of Other Income Source
GA008_9_B_3_	Yuan/Month of Other Income Source
Wave 2:	
A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
GA007_10_S1	Household Member [10] Receives Pensions
GA007_10_S10	Household Member [10] Receives None of The above
GA007_10_S2	Household Member [10] Receives Unemployment Compensation
GA007_10_S3	Household Member [10] Receives Pension Subsidy
GA007_10_S4	Household Member [10] Receives Worker'S Compensation
GA007_10_S5	Household Member [10] Receives Elderly Family Planning Subsidie
GA007_10_S6	Household Member [10] Receives Medical Aid
GA007_10_S7	Household Member [10] Receives Other Government Subsidies
GA007_10_S8	Household Member [10] Receives Social Assistance
GA007_10_S9	Household Member [10] Receives Other Income Sources
GA007_11_S1	Household Member [11] Receives Pensions
GA007_11_S10	Household Member [11] Receives None of The above
GA007_11_S2	Household Member [11] Receives Unemployment Compensation
GA007_11_S3	Household Member [11] Receives Pension Subsidy
GA007_11_S4	Household Member [11] Receives Worker'S Compensation
GA007_11_S5	Household Member [11] Receives Elderly Family Planning Subsidie
GA007_11_S6	Household Member [11] Receives Medical Aid
GA007_11_S7	Household Member [11] Receives Other Government Subsidies
GA007_11_S8	Household Member [11] Receives Social Assistance
GA007_11_S9	Household Member [11] Receives Other Income Sources
GA007_12_S1	Household Member [12] Receives Pensions
GA007_12_S10	Household Member [12] Receives None of The above
GA007_12_S2	Household Member [12] Receives Unemployment Compensation
GA007_12_S3	Household Member [12] Receives Pension Subsidy
GA007_12_S4	Household Member [12] Receives Worker'S Compensation
GA007_12_S5	Household Member [12] Receives Elderly Family Planning Subsidie
GA007_12_S6	Household Member [12] Receives Medical Aid
GA007_12_S7	Household Member [12] Receives Other Government Subsidies
GA007_12_S8	Household Member [12] Receives Social Assistance
GA007_12_S9	Household Member [12] Receives Other Income Sources
GA007_1_S1	Household Member [1] Receives Pensions
GA007_1_S10	Household Member [1] Receives None of The above
GA007_1_S2	Household Member [1] Receives Unemployment Compensation
GA007_1_S3	Household Member [1] Receives Pension Subsidy
GA007_1_S4	Household Member [1] Receives Worker'S Compensation
GA007_1_S5	Household Member [1] Receives Elderly Family Planning Subsidies
GA007_1_S6	Household Member [1] Receives Medical Aid
GA007_1_S7	Household Member [1] Receives Other Government Subsidies
GA007_1_S8	Household Member [1] Receives Social Assistance

GA007_1_S9	Household Member	[1]	Receives Other Income Sources
GA007_2_S1	Household Member	[2]	Receives Pensions
GA007_2_S10	Household Member	[2]	Receives None of The above
GA007_2_S2	Household Member	[2]	Receives Unemployment Compensation
GA007_2_S3	Household Member	[2]	Receives Pension Subsidy
GA007_2_S4	Household Member	[2]	Receives Worker'S Compensation
GA007_2_S5	Household Member	[2]	Receives Elderly Family Planning Subsidies
GA007_2_S6	Household Member	[2]	Receives Medical Aid
GA007_2_S7	Household Member	[2]	Receives Other Government Subsidies
GA007_2_S8	Household Member	[2]	Receives Social Assistance
GA007_2_S9	Household Member	[2]	Receives Other Income Sources
GA007_3_S1	Household Member	[3]	Receives Pensions
GA007_3_S10	Household Member	[3]	Receives None of The above
GA007_3_S2	Household Member	[3]	Receives Unemployment Compensation
GA007_3_S3	Household Member	[3]	Receives Pension Subsidy
GA007_3_S4	Household Member	[3]	Receives Worker'S Compensation
GA007_3_S5	Household Member	[3]	Receives Elderly Family Planning Subsidies
GA007_3_S6	Household Member	[3]	Receives Medical Aid
GA007_3_S7	Household Member	[3]	Receives Other Government Subsidies
GA007_3_S8	Household Member	[3]	Receives Social Assistance
GA007_3_S9	Household Member	[3]	Receives Other Income Sources
GA007_4_S1	Household Member	[4]	Receives Pensions
GA007_4_S10	Household Member	[4]	Receives None of The above
GA007_4_S2	Household Member	[4]	Receives Unemployment Compensation
GA007_4_S3	Household Member	[4]	Receives Pension Subsidy
GA007_4_S4	Household Member	[4]	Receives Worker'S Compensation
GA007_4_S5	Household Member	[4]	Receives Elderly Family Planning Subsidies
GA007_4_S6	Household Member	[4]	Receives Medical Aid
GA007_4_S7	Household Member	[4]	Receives Other Government Subsidies
GA007_4_S8	Household Member	[4]	Receives Social Assistance
GA007_4_S9	Household Member	[4]	Receives Other Income Sources
GA007_5_S1	Household Member	[5]	Receives Pensions
GA007_5_S10	Household Member	[5]	Receives None of The above
GA007_5_S2	Household Member	[5]	Receives Unemployment Compensation
GA007_5_S3	Household Member	[5]	Receives Pension Subsidy
GA007_5_S4	Household Member	[5]	Receives Worker'S Compensation
GA007_5_S5	Household Member	[5]	Receives Elderly Family Planning Subsidies
GA007_5_S6	Household Member	[5]	Receives Medical Aid
GA007_5_S7	Household Member	[5]	Receives Other Government Subsidies
GA007_5_S8	Household Member	[5]	Receives Social Assistance
GA007_5_S9	Household Member	[5]	Receives Other Income Sources
GA007_6_S1	Household Member	[6]	Receives Pensions
GA007_6_S10	Household Member	[6]	Receives None of The above
GA007_6_S2	Household Member	[6]	Receives Unemployment Compensation
GA007_6_S3	Household Member	[6]	Receives Pension Subsidy
GA007_6_S4	Household Member	[6]	Receives Worker'S Compensation
GA007_6_S5	Household Member	[6]	Receives Elderly Family Planning Subsidies
GA007_6_S6	Household Member	[6]	Receives Medical Aid
GA007_6_S7	Household Member	[6]	Receives Other Government Subsidies
GA007_6_S8	Household Member	[6]	Receives Social Assistance
GA007_6_S9	Household Member	[6]	Receives Other Income Sources
GA007_7_S1	Household Member	[7]	Receives Pensions
GA007_7_S10	Household Member	[7]	Receives None of The above
GA007_7_S2	Household Member	[7]	Receives Unemployment Compensation
GA007_7_S3	Household Member	[7]	Receives Pension Subsidy
GA007_7_S4	Household Member	[7]	Receives Worker'S Compensation
GA007_7_S5	Household Member	[7]	Receives Elderly Family Planning Subsidies
GA007_7_S6	Household Member	[7]	Receives Medical Aid
GA007_7_S7	Household Member	[7]	Receives Other Government Subsidies
GA007_7_S8	Household Member	[7]	Receives Social Assistance
GA007_7_S9	Household Member	[7]	Receives Other Income Sources
GA007_8_S1	Household Member	[8]	Receives Pensions
GA007_8_S10	Household Member	[8]	Receives None of The above
GA007_8_S2	Household Member	[8]	Receives Unemployment Compensation
GA007_8_S3	Household Member	[8]	Receives Pension Subsidy
GA007_8_S4	Household Member	[8]	Receives Worker'S Compensation
GA007_8_S5	Household Member	[8]	Receives Elderly Family Planning Subsidies
GA007_8_S6	Household Member	[8]	Receives Medical Aid
GA007_8_S7	Household Member	[8]	Receives Other Government Subsidies

GA007_8_S8	Household Member [8] Receives Social Assistance
GA007_8_S9	Household Member [8] Receives Other Income Sources
GA007_9_S1	Household Member [9] Receives Pensions
GA007_9_S10	Household Member [9] Receives None of The above
GA007_9_S2	Household Member [9] Receives Unemployment Compensation
GA007_9_S3	Household Member [9] Receives Pension Subsidy
GA007_9_S4	Household Member [9] Receives Worker'S Compensation
GA007_9_S5	Household Member [9] Receives Elderly Family Planning Subsidies
GA007_9_S6	Household Member [9] Receives Medical Aid
GA007_9_S7	Household Member [9] Receives Other Government Subsidies
GA007_9_S8	Household Member [9] Receives Social Assistance
GA007_9_S9	Household Member [9] Receives Other Income Sources
GA008_1B_10_	Pensions of Household Member [10]: Amount by Year
GA008_1B_11_	Pensions of Household Member [11]: Amount by Year
GA008_1B_12_	Pensions of Household Member [12]: Amount by Year
GA008_1B_1_	Pensions of Household Member [1]: Amount by Year
GA008_1B_2_	Pensions of Household Member [2]: Amount by Year
GA008_1B_3_	Pensions of Household Member [3]: Amount by Year
GA008_1B_4_	Pensions of Household Member [4]: Amount by Year
GA008_1B_5_	Pensions of Household Member [5]: Amount by Year
GA008_1B_6_	Pensions of Household Member [6]: Amount by Year
GA008_1B_7_	Pensions of Household Member [7]: Amount by Year
GA008_1B_8_	Pensions of Household Member [8]: Amount by Year
GA008_1B_9_	Pensions of Household Member [9]: Amount by Year
GA008_1C_10_	Pensions of Household Member [10]: Amount by Month
GA008_1C_11_	Pensions of Household Member [11]: Amount by Month
GA008_1C_12_	Pensions of Household Member [12]: Amount by Month
GA008_1C_1_	Pensions of Household Member [1]: Amount by Month
GA008_1C_2_	Pensions of Household Member [2]: Amount by Month
GA008_1C_3_	Pensions of Household Member [3]: Amount by Month
GA008_1C_4_	Pensions of Household Member [4]: Amount by Month
GA008_1C_5_	Pensions of Household Member [5]: Amount by Month
GA008_1C_6_	Pensions of Household Member [6]: Amount by Month
GA008_1C_7_	Pensions of Household Member [7]: Amount by Month
GA008_1C_8_	Pensions of Household Member [8]: Amount by Month
GA008_1C_9_	Pensions of Household Member [9]: Amount by Month
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You

Wave 3:

A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member

A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
GA005_10_	Household Member [10] Receives Wage or Bonus Income
GA005_1_	Household Member [1] Receives Wage or Bonus Income
GA005_2_	Household Member [2] Receives Wage or Bonus Income
GA005_3_	Household Member [3] Receives Wage or Bonus Income
GA005_4_	Household Member [4] Receives Wage or Bonus Income
GA005_5_	Household Member [5] Receives Wage or Bonus Income
GA005_6_	Household Member [6] Receives Wage or Bonus Income
GA005_7_	Household Member [7] Receives Wage or Bonus Income
GA005_8_	Household Member [8] Receives Wage or Bonus Income
GA005_9_	Household Member [9] Receives Wage or Bonus Income
GA006_1_10_	Income of Household Member [10]: Amount by Year
GA006_1_1_	Income of Household Member [1]: Amount by Year
GA006_1_2_	Income of Household Member [2]: Amount by Year
GA006_1_3_	Income of Household Member [3]: Amount by Year
GA006_1_4_	Income of Household Member [4]: Amount by Year
GA006_1_5_	Income of Household Member [5]: Amount by Year
GA006_1_6_	Income of Household Member [6]: Amount by Year
GA006_1_7_	Income of Household Member [7]: Amount by Year
GA006_1_8_	Income of Household Member [8]: Amount by Year
GA006_1_9_	Income of Household Member [9]: Amount by Year
GA006_2_10_	Income of Household Member [10]: Amount by Month
GA006_2_1_	Income of Household Member [1]: Amount by Month
GA006_2_2_	Income of Household Member [2]: Amount by Month
GA006_2_3_	Income of Household Member [3]: Amount by Month
GA006_2_4_	Income of Household Member [4]: Amount by Month
GA006_2_5_	Income of Household Member [5]: Amount by Month
GA006_2_6_	Income of Household Member [6]: Amount by Month
GA006_2_7_	Income of Household Member [7]: Amount by Month
GA006_2_8_	Income of Household Member [8]: Amount by Month
GA006_2_9_	Income of Household Member [9]: Amount by Month
GA007_10_S10	Household Member [10] Receives None of The above
GA007_10_S2	Household Member [10] Receives Unemployment Compensation
GA007_10_S3	Household Member [10] Receives Pension Subsidy
GA007_10_S4	Household Member [10] Receives Worker's Compensation
GA007_10_S5	Household Member [10] Receives Elderly Family Planning Subsidie
GA007_10_S6	Household Member [10] Receives Medical Aid
GA007_10_S7	Household Member [10] Receives Other Government Subsidies
GA007_10_S8	Household Member [10] Receives Social Assistance
GA007_10_S9	Household Member [10] Receives Other Income Sources
GA007_1_S10	Household Member [1] Receives None of The above
GA007_1_S2	Household Member [1] Receives Unemployment Compensation
GA007_1_S3	Household Member [1] Receives Pension Subsidy
GA007_1_S4	Household Member [1] Receives Worker's Compensation
GA007_1_S5	Household Member [1] Receives Elderly Family Planning Subsidies
GA007_1_S6	Household Member [1] Receives Medical Aid
GA007_1_S7	Household Member [1] Receives Other Government Subsidies
GA007_1_S8	Household Member [1] Receives Social Assistance
GA007_1_S9	Household Member [1] Receives Other Income Sources
GA007_2_S10	Household Member [2] Receives None of The above
GA007_2_S2	Household Member [2] Receives Unemployment Compensation
GA007_2_S3	Household Member [2] Receives Pension Subsidy
GA007_2_S4	Household Member [2] Receives Worker's Compensation
GA007_2_S5	Household Member [2] Receives Elderly Family Planning Subsidies
GA007_2_S6	Household Member [2] Receives Medical Aid
GA007_2_S7	Household Member [2] Receives Other Government Subsidies
GA007_2_S8	Household Member [2] Receives Social Assistance
GA007_2_S9	Household Member [2] Receives Other Income Sources
GA007_3_S10	Household Member [3] Receives None of The above

GA007_3_S2	Household Member [3]	Receives Unemployment Compensation
GA007_3_S3	Household Member [3]	Receives Pension Subsidy
GA007_3_S4	Household Member [3]	Receives Worker's Compensation
GA007_3_S5	Household Member [3]	Receives Elderly Family Planning Subsidies
GA007_3_S6	Household Member [3]	Receives Medical Aid
GA007_3_S7	Household Member [3]	Receives Other Government Subsidies
GA007_3_S8	Household Member [3]	Receives Social Assistance
GA007_3_S9	Household Member [3]	Receives Other Income Sources
GA007_4_S10	Household Member [4]	Receives None of The above
GA007_4_S2	Household Member [4]	Receives Unemployment Compensation
GA007_4_S3	Household Member [4]	Receives Pension Subsidy
GA007_4_S4	Household Member [4]	Receives Worker's Compensation
GA007_4_S5	Household Member [4]	Receives Elderly Family Planning Subsidies
GA007_4_S6	Household Member [4]	Receives Medical Aid
GA007_4_S7	Household Member [4]	Receives Other Government Subsidies
GA007_4_S8	Household Member [4]	Receives Social Assistance
GA007_4_S9	Household Member [4]	Receives Other Income Sources
GA007_5_S10	Household Member [5]	Receives None of The above
GA007_5_S2	Household Member [5]	Receives Unemployment Compensation
GA007_5_S3	Household Member [5]	Receives Pension Subsidy
GA007_5_S4	Household Member [5]	Receives Worker's Compensation
GA007_5_S5	Household Member [5]	Receives Elderly Family Planning Subsidies
GA007_5_S6	Household Member [5]	Receives Medical Aid
GA007_5_S7	Household Member [5]	Receives Other Government Subsidies
GA007_5_S8	Household Member [5]	Receives Social Assistance
GA007_5_S9	Household Member [5]	Receives Other Income Sources
GA007_6_S10	Household Member [6]	Receives None of The above
GA007_6_S2	Household Member [6]	Receives Unemployment Compensation
GA007_6_S3	Household Member [6]	Receives Pension Subsidy
GA007_6_S4	Household Member [6]	Receives Worker's Compensation
GA007_6_S5	Household Member [6]	Receives Elderly Family Planning Subsidies
GA007_6_S6	Household Member [6]	Receives Medical Aid
GA007_6_S7	Household Member [6]	Receives Other Government Subsidies
GA007_6_S8	Household Member [6]	Receives Social Assistance
GA007_6_S9	Household Member [6]	Receives Other Income Sources
GA007_7_S10	Household Member [7]	Receives None of The above
GA007_7_S2	Household Member [7]	Receives Unemployment Compensation
GA007_7_S3	Household Member [7]	Receives Pension Subsidy
GA007_7_S4	Household Member [7]	Receives Worker's Compensation
GA007_7_S5	Household Member [7]	Receives Elderly Family Planning Subsidies
GA007_7_S6	Household Member [7]	Receives Medical Aid
GA007_7_S7	Household Member [7]	Receives Other Government Subsidies
GA007_7_S8	Household Member [7]	Receives Social Assistance
GA007_7_S9	Household Member [7]	Receives Other Income Sources
GA007_8_S10	Household Member [8]	Receives None of The above
GA007_8_S2	Household Member [8]	Receives Unemployment Compensation
GA007_8_S3	Household Member [8]	Receives Pension Subsidy
GA007_8_S4	Household Member [8]	Receives Worker's Compensation
GA007_8_S5	Household Member [8]	Receives Elderly Family Planning Subsidies
GA007_8_S6	Household Member [8]	Receives Medical Aid
GA007_8_S7	Household Member [8]	Receives Other Government Subsidies
GA007_8_S8	Household Member [8]	Receives Social Assistance
GA007_8_S9	Household Member [8]	Receives Other Income Sources
GA007_9_S10	Household Member [9]	Receives None of The above
GA007_9_S2	Household Member [9]	Receives Unemployment Compensation
GA007_9_S3	Household Member [9]	Receives Pension Subsidy
GA007_9_S4	Household Member [9]	Receives Worker's Compensation
GA007_9_S5	Household Member [9]	Receives Elderly Family Planning Subsidies
GA007_9_S6	Household Member [9]	Receives Medical Aid
GA007_9_S7	Household Member [9]	Receives Other Government Subsidies
GA007_9_S8	Household Member [9]	Receives Social Assistance
GA007_9_S9	Household Member [9]	Receives Other Income Sources
GA008_1B_10_	Pensions of Household Member [10]:	Amount by Year
GA008_1B_1_	Pensions of Household Member [1]:	Amount by Year
GA008_1B_2_	Pensions of Household Member [2]:	Amount by Year
GA008_1B_3_	Pensions of Household Member [3]:	Amount by Year
GA008_1B_4_	Pensions of Household Member [4]:	Amount by Year
GA008_1B_5_	Pensions of Household Member [5]:	Amount by Year
GA008_1B_6_	Pensions of Household Member [6]:	Amount by Year

GA008_1B_7_	Pensions of Household Member [7]: Amount by Year
GA008_1B_8_	Pensions of Household Member [8]: Amount by Year
GA008_1B_9_	Pensions of Household Member [9]: Amount by Year
GA008_1C_10_	Pensions of Household Member [10]: Amount by Month
GA008_1C_1_	Pensions of Household Member [1]: Amount by Month
GA008_1C_2_	Pensions of Household Member [2]: Amount by Month
GA008_1C_3_	Pensions of Household Member [3]: Amount by Month
GA008_1C_4_	Pensions of Household Member [4]: Amount by Month
GA008_1C_5_	Pensions of Household Member [5]: Amount by Month
GA008_1C_6_	Pensions of Household Member [6]: Amount by Month
GA008_1C_7_	Pensions of Household Member [7]: Amount by Month
GA008_1C_8_	Pensions of Household Member [8]: Amount by Month
GA008_1C_9_	Pensions of Household Member [9]: Amount by Month
GA008_9B_10_	Other Income Sources of Household Member [10]: Amount by Year
GA008_9B_1_	Other Income Sources of Household Member [1]: Amount by Year
GA008_9B_2_	Other Income Sources of Household Member [2]: Amount by Year
GA008_9B_3_	Other Income Sources of Household Member [3]: Amount by Year
GA008_9B_4_	Other Income Sources of Household Member [4]: Amount by Year
GA008_9B_5_	Other Income Sources of Household Member [5]: Amount by Year
GA008_9B_6_	Other Income Sources of Household Member [6]: Amount by Year
GA008_9B_7_	Other Income Sources of Household Member [7]: Amount by Year
GA008_9B_8_	Other Income Sources of Household Member [8]: Amount by Year
GA008_9B_9_	Other Income Sources of Household Member [9]: Amount by Year
GA008_9C_10_	Other Income Sources of Household Member [10]: Amount by Month
GA008_9C_1_	Other Income Sources of Household Member [1]: Amount by Month
GA008_9C_2_	Other Income Sources of Household Member [2]: Amount by Month
GA008_9C_3_	Other Income Sources of Household Member [3]: Amount by Month
GA008_9C_4_	Other Income Sources of Household Member [4]: Amount by Month
GA008_9C_5_	Other Income Sources of Household Member [5]: Amount by Month
GA008_9C_6_	Other Income Sources of Household Member [6]: Amount by Month
GA008_9C_7_	Other Income Sources of Household Member [7]: Amount by Month
GA008_9C_8_	Other Income Sources of Household Member [8]: Amount by Month
GA008_9C_9_	Other Income Sources of Household Member [9]: Amount by Month

## Wave 4:

A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
GA005_10_	Wage and Bonus Income HHMemberName[10] Receive
GA005_11_	Wage and Bonus Income HHMemberName[11] Receive
GA005_12_	Wage and Bonus Income HHMemberName[12] Receive
GA005_1_	Wage and Bonus Income HHMemberName[1] Receive
GA005_2_	Wage and Bonus Income HHMemberName[2] Receive
GA005_3_	Wage and Bonus Income HHMemberName[3] Receive
GA005_4_	Wage and Bonus Income HHMemberName[4] Receive
GA005_5_	Wage and Bonus Income HHMemberName[5] Receive
GA005_6_	Wage and Bonus Income HHMemberName[6] Receive
GA005_7_	Wage and Bonus Income HHMemberName[7] Receive
GA005_8_	Wage and Bonus Income HHMemberName[8] Receive
GA005_9_	Wage and Bonus Income HHMemberName[9] Receive
GA006_W4_1_	Amount HHMemberName[1] Receive
GA006_W4_1_1_	Exclude Insurance and Some Others for HHMemberName[1]
GA006_W4_1_2_	Exclude Insurance and Some Others for HHMemberName[2]

GA006_W4_1_3_	Exclude Insurance and Some Others for HHMemberName[3]
GA006_W4_1_4_	Exclude Insurance and Some Others for HHMemberName[4]
GA006_W4_1_5_	Exclude Insurance and Some Others for HHMemberName[5]
GA006_W4_1_6_	Exclude Insurance and Some Others for HHMemberName[6]
GA006_W4_1_7_	Exclude Insurance and Some Others for HHMemberName[7]
GA006_W4_1_8_	Exclude Insurance and Some Others for HHMemberName[8]
GA006_W4_2A_1_	Yuan/Year for HHMemberName[1]
GA006_W4_2A_2_	Yuan/Year for HHMemberName[2]
GA006_W4_2A_3_	Yuan/Year for HHMemberName[3]
GA006_W4_2A_4_	Yuan/Year for HHMemberName[4]
GA006_W4_2A_5_	Yuan/Year for HHMemberName[5]
GA006_W4_2B_1_	Yuan/Month for HHMemberName[1]
GA006_W4_2B_2_	Yuan/Month for HHMemberName[2]
GA006_W4_2B_3_	Yuan/Month for HHMemberName[3]
GA006_W4_2B_4_	Yuan/Month for HHMemberName[4]
GA006_W4_2B_5_	Yuan/Month for HHMemberName[5]
GA006_W4_2B_6_	Yuan/Month for HHMemberName[6]
GA006_W4_2B_8_	Yuan/Month for HHMemberName[8]
GA006_W4_2C_1_	Percent of Wage for HHMemberName[1]
GA006_W4_2C_2_	Percent of Wage for HHMemberName[2]
GA006_W4_2C_3_	Percent of Wage for HHMemberName[3]
GA006_W4_2_	Amount HHMemberName[2] Receive
GA006_W4_2_1_	Total Excluded Amount for HHMemberName[1]
GA006_W4_2_2_	Total Excluded Amount for HHMemberName[2]
GA006_W4_2_3_	Total Excluded Amount for HHMemberName[3]
GA006_W4_2_4_	Total Excluded Amount for HHMemberName[4]
GA006_W4_2_5_	Total Excluded Amount for HHMemberName[5]
GA006_W4_2_6_	Total Excluded Amount for HHMemberName[6]
GA006_W4_2_7_	Total Excluded Amount for HHMemberName[7]
GA006_W4_2_8_	Total Excluded Amount for HHMemberName[8]
GA006_W4_3_	Amount HHMemberName[3] Receive
GA006_W4_4_	Amount HHMemberName[4] Receive
GA006_W4_5_	Amount HHMemberName[5] Receive
GA006_W4_6_	Amount HHMemberName[6] Receive
GA006_W4_7_	Amount HHMemberName[7] Receive
GA006_W4_8_	Amount HHMemberName[8] Receive
GA007_W4_10__S1	Pension HHMemberName[10] Receive
GA007_W4_10__S2	Unemployment Compensation HHMemberName[10] Receive
GA007_W4_10__S3	Pension Voucher HHMemberName[10] Receive
GA007_W4_10__S4	Pension Subsidy for the Oldest Old HHMemberName[10] Receive
GA007_W4_10__S5	Workers' Industrial Accident Compensation HHMemberName[10] Rece
GA007_W4_10__S6	Elderly Family Planning Subsidy HHMemberName[10] Receive
GA007_W4_10__S7	Medical Aid HHMemberName[10] Receive
GA007_W4_10__S8	Other Government Subsidy HHMemberName[10] Receive
GA007_W4_10__S9	Other Income Source HHMemberName[10] Receive
GA007_W4_11__S1	Pension HHMemberName[11] Receive
GA007_W4_11__S2	Unemployment Compensation HHMemberName[11] Receive
GA007_W4_11__S3	Pension Voucher HHMemberName[11] Receive
GA007_W4_11__S4	Pension Subsidy for the Oldest Old HHMemberName[11] Receive
GA007_W4_11__S5	Workers' Industrial Accident Compensation HHMemberName[11] Rece
GA007_W4_11__S6	Elderly Family Planning Subsidy HHMemberName[11] Receive
GA007_W4_11__S7	Medical Aid HHMemberName[11] Receive
GA007_W4_11__S8	Other Government Subsidy HHMemberName[11] Receive
GA007_W4_11__S9	Other Income Source HHMemberName[11] Receive
GA007_W4_12__S1	Pension HHMemberName[12] Receive
GA007_W4_12__S2	Unemployment Compensation HHMemberName[12] Receive
GA007_W4_12__S3	Pension Voucher HHMemberName[12] Receive
GA007_W4_12__S4	Pension Subsidy for the Oldest Old HHMemberName[12] Receive
GA007_W4_12__S5	Workers' Industrial Accident Compensation HHMemberName[12] Rece
GA007_W4_12__S6	Elderly Family Planning Subsidy HHMemberName[12] Receive
GA007_W4_12__S7	Medical Aid HHMemberName[12] Receive
GA007_W4_12__S8	Other Government Subsidy HHMemberName[12] Receive
GA007_W4_12__S9	Other Income Source HHMemberName[12] Receive
GA007_W4_1_1_	Pension Amount HHMemberName[1] Receive
GA007_W4_1_2_	Pension Amount HHMemberName[2] Receive
GA007_W4_1_3_	Pension Amount HHMemberName[3] Receive
GA007_W4_1_4_	Pension Amount HHMemberName[4] Receive
GA007_W4_1_5_	Pension Amount HHMemberName[5] Receive
GA007_W4_1_6_	Pension Amount HHMemberName[6] Receive



GA007_W4_1_7_	Pension Amount HHMemberName[7] Receive
GA007_W4_1__S1	Pension HHMemberName[1] Receive
GA007_W4_1__S10	None of the Above HHMemberName[1] Receive
GA007_W4_1__S2	Unemployment Compensation HHMemberName[1] Receive
GA007_W4_1__S3	Pension Voucher HHMemberName[1] Receive
GA007_W4_1__S4	Pension Subsidy for the Oldest Old HHMemberName[1] Receive
GA007_W4_1__S5	Workers' Industrial Accident Compensation HHMemberName[1] Recei
GA007_W4_1__S6	Elderly Family Planning Subsidy HHMemberName[1] Receive
GA007_W4_1__S7	Medical Aid HHMemberName[1] Receive
GA007_W4_1__S8	Other Government Subsidy HHMemberName[1] Receive
GA007_W4_1__S9	Other Income Source HHMemberName[1] Receive
GA007_W4_2__S1	Pension HHMemberName[2] Receive
GA007_W4_2__S10	None of the Above HHMemberName[2] Receive
GA007_W4_2__S2	Unemployment Compensation HHMemberName[2] Receive
GA007_W4_2__S3	Pension Voucher HHMemberName[2] Receive
GA007_W4_2__S4	Pension Subsidy for the Oldest Old HHMemberName[2] Receive
GA007_W4_2__S5	Workers' Industrial Accident Compensation HHMemberName[2] Recei
GA007_W4_2__S6	Elderly Family Planning Subsidy HHMemberName[2] Receive
GA007_W4_2__S7	Medical Aid HHMemberName[2] Receive
GA007_W4_2__S8	Other Government Subsidy HHMemberName[2] Receive
GA007_W4_2__S9	Other Income Source HHMemberName[2] Receive
GA007_W4_3__S1	Pension HHMemberName[3] Receive
GA007_W4_3__S10	None of the Above HHMemberName[3] Receive
GA007_W4_3__S2	Unemployment Compensation HHMemberName[3] Receive
GA007_W4_3__S3	Pension Voucher HHMemberName[3] Receive
GA007_W4_3__S4	Pension Subsidy for the Oldest Old HHMemberName[3] Receive
GA007_W4_3__S5	Workers' Industrial Accident Compensation HHMemberName[3] Recei
GA007_W4_3__S6	Elderly Family Planning Subsidy HHMemberName[3] Receive
GA007_W4_3__S7	Medical Aid HHMemberName[3] Receive
GA007_W4_3__S8	Other Government Subsidy HHMemberName[3] Receive
GA007_W4_3__S9	Other Income Source HHMemberName[3] Receive
GA007_W4_4__S1	Pension HHMemberName[4] Receive
GA007_W4_4__S10	None of the Above HHMemberName[4] Receive
GA007_W4_4__S2	Unemployment Compensation HHMemberName[4] Receive
GA007_W4_4__S3	Pension Voucher HHMemberName[4] Receive
GA007_W4_4__S4	Pension Subsidy for the Oldest Old HHMemberName[4] Receive
GA007_W4_4__S5	Workers' Industrial Accident Compensation HHMemberName[4] Recei
GA007_W4_4__S6	Elderly Family Planning Subsidy HHMemberName[4] Receive
GA007_W4_4__S7	Medical Aid HHMemberName[4] Receive
GA007_W4_4__S8	Other Government Subsidy HHMemberName[4] Receive
GA007_W4_4__S9	Other Income Source HHMemberName[4] Receive
GA007_W4_5__S1	Pension HHMemberName[5] Receive
GA007_W4_5__S10	None of the Above HHMemberName[5] Receive
GA007_W4_5__S2	Unemployment Compensation HHMemberName[5] Receive
GA007_W4_5__S3	Pension Voucher HHMemberName[5] Receive
GA007_W4_5__S4	Pension Subsidy for the Oldest Old HHMemberName[5] Receive
GA007_W4_5__S5	Workers' Industrial Accident Compensation HHMemberName[5] Recei
GA007_W4_5__S6	Elderly Family Planning Subsidy HHMemberName[5] Receive
GA007_W4_5__S7	Medical Aid HHMemberName[5] Receive
GA007_W4_5__S8	Other Government Subsidy HHMemberName[5] Receive
GA007_W4_5__S9	Other Income Source HHMemberName[5] Receive
GA007_W4_6__S1	Pension HHMemberName[6] Receive
GA007_W4_6__S10	None of the Above HHMemberName[6] Receive
GA007_W4_6__S2	Unemployment Compensation HHMemberName[6] Receive
GA007_W4_6__S3	Pension Voucher HHMemberName[6] Receive
GA007_W4_6__S4	Pension Subsidy for the Oldest Old HHMemberName[6] Receive
GA007_W4_6__S5	Workers' Industrial Accident Compensation HHMemberName[6] Recei
GA007_W4_6__S6	Elderly Family Planning Subsidy HHMemberName[6] Receive
GA007_W4_6__S7	Medical Aid HHMemberName[6] Receive
GA007_W4_6__S8	Other Government Subsidy HHMemberName[6] Receive
GA007_W4_6__S9	Other Income Source HHMemberName[6] Receive
GA007_W4_7__S1	Pension HHMemberName[7] Receive
GA007_W4_7__S10	None of the Above HHMemberName[7] Receive
GA007_W4_7__S2	Unemployment Compensation HHMemberName[7] Receive
GA007_W4_7__S3	Pension Voucher HHMemberName[7] Receive
GA007_W4_7__S4	Pension Subsidy for the Oldest Old HHMemberName[7] Receive
GA007_W4_7__S5	Workers' Industrial Accident Compensation HHMemberName[7] Recei
GA007_W4_7__S6	Elderly Family Planning Subsidy HHMemberName[7] Receive
GA007_W4_7__S7	Medical Aid HHMemberName[7] Receive

GA007\_W4\_7\_\_S8 Other Government Subsidy HHMemberName[7] Receive  
GA007\_W4\_7\_\_S9 Other Income Source HHMemberName[7] Receive  
GA007\_W4\_8\_\_S1 Pension HHMemberName[8] Receive  
GA007\_W4\_8\_\_S10 None of the Above HHMemberName[8] Receive  
GA007\_W4\_8\_\_S2 Unemployment Compensation HHMemberName[8] Receive  
GA007\_W4\_8\_\_S3 Pension Voucher HHMemberName[8] Receive  
GA007\_W4\_8\_\_S4 Pension Subsidy for the Oldest Old HHMemberName[8] Receive  
GA007\_W4\_8\_\_S5 Workers' Industrial Accident Compensation HHMemberName[8] Recei  
GA007\_W4\_8\_\_S6 Elderly Family Planning Subsidy HHMemberName[8] Receive  
GA007\_W4\_8\_\_S7 Medical Aid HHMemberName[8] Receive  
GA007\_W4\_8\_\_S8 Other Government Subsidy HHMemberName[8] Receive  
GA007\_W4\_8\_\_S9 Other Income Source HHMemberName[8] Receive  
GA007\_W4\_9\_\_S1 Pension HHMemberName[9] Receive  
GA007\_W4\_9\_\_S2 Unemployment Compensation HHMemberName[9] Receive  
GA007\_W4\_9\_\_S3 Pension Voucher HHMemberName[9] Receive  
GA007\_W4\_9\_\_S4 Pension Subsidy for the Oldest Old HHMemberName[9] Receive  
GA007\_W4\_9\_\_S5 Workers' Industrial Accident Compensation HHMemberName[9] Recei  
GA007\_W4\_9\_\_S6 Elderly Family Planning Subsidy HHMemberName[9] Receive  
GA007\_W4\_9\_\_S7 Medical Aid HHMemberName[9] Receive  
GA007\_W4\_9\_\_S8 Other Government Subsidy HHMemberName[9] Receive  
GA007\_W4\_9\_\_S9 Other Income Source HHMemberName[9] Receive

<b>Total Household Income</b>
-------------------------------

Wave	Variable	Label	Type
1	HH1ITOT	hh1itot:w1 income: HHold total household income	Cont
2	HH2ITOT	hh2itot:w2 income: HHold total household income	Cont
3	HH3ITOT	hh3itot:w3 income: HHold total household income	Cont
4	HH4ITOT	hh4itot:w4 income: HHold total household income	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ITOT	10541	25037.51	51163.90	-536880.00	2198200.00
HH2ITOT	9617	27223.31	70145.67	-2985090.00	1826700.00
HH3ITOT	7790	22943.78	62103.50	-1781800.00	1300300.00
HH4ITOT	14162	49842.94	363802.21	-2949300.00	39059568.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

HHwITOT is the sum of all income at the household level including income from earning income, capital income, pension income, income from government transfers, other income and the total income from other household members.

HHwITOT = RWRITEARN + SwITEARN + HHwICAP + RwIPEN + SwIPEN + HHwIGXFR + RwIOTHR + SwIOTHR + HHwIOTHHH at Waves 1 to 3.

HHwITOT = RWRITEARN + SwITEARN + HHwICAP + RwIPEN + SwIPEN + HHwIGXFR + RwIOTHR + SwIOTHR + HHwIOTHHH at Wave 4.

### Cross Wave Differences in CHARLS

Please refer to "Cross Wave Differences in CHARLS" section of each component to identify cross-wave differences.

Starting at Wave 3, total household income does not include financial asset interest income nor interest income on loans lent out by the household. These two components were included in total household income at Waves 1 and 2.

Starting at Wave 4, total household income does not include self-employment income of the respondent or spouse. These two components were included in total household income at Waves 1 to 3.

### Differences with the RAND HRS/Harmonized HRS

These values in CHARLS is measured in China's currency Yuan whereas the equivalent measure in RAND HRS in current dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

### CHARLS Variables Used:

Wave 1:

FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FB012	Have you completed receding position procedures ?
FC001	Did you work for other famers in wage for at least ten days in
FC004	How many months did you work on [;] in wage for other famers i

FC007 What is the average monthly wage did you get in the last month?  
 FC019 DO YOU CURRENTLY HAVE MORE THAN ONE JOB  
 FC020 DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS  
 FC021 How do you describe your non-agricultural job? Do you earn a wa  
 FE001 HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR  
 FE002 HOW MANY DAYS A WEEK DO YOU USUALLY WORK  
 FE003 HOW MANY HOURS DO YOU USUALLY WORK PER DAY  
 FF001 HOW IS YOUR WAGE PAID MAINLY  
 FF002 THE AFTER TAX ANNUAL SALARY  
 FF004 THE AFTER TAX AVERAGE MONTHLY SALARY  
 FF006 THE USUAL WEEKLY WAGE  
 FF008 THE USUAL DAILY WAGE  
 FF010 YOUR HOURLY WAGE  
 FF012 HOW MUCH IN AVERAGE DO YOU RECEIVE PER MONTH AFTER TAX  
 FF014 the value of all other bonuses  
 FG001S1 FRINGE BENEFITS  
 FG001S10 FRINGE BENEFITS  
 FG001S11 FRINGE BENEFITS  
 FG001S2 FRINGE BENEFITS  
 FG001S3 FRINGE BENEFITS  
 FG001S4 FRINGE BENEFITS  
 FG001S5 FRINGE BENEFITS  
 FG001S6 FRINGE BENEFITS  
 FG001S7 FRINGE BENEFITS  
 FG001S8 FRINGE BENEFITS  
 FG001S9 FRINGE BENEFITS  
 FG002\_10\_ THE VALUE OF THE SUBSIDY  
 FG002\_1\_ THE VALUE OF THE SUBSIDY  
 FG002\_2\_ THE VALUE OF THE SUBSIDY  
 FG002\_3\_ THE VALUE OF THE SUBSIDY  
 FG002\_4\_ THE VALUE OF THE SUBSIDY  
 FG002\_5\_ THE VALUE OF THE SUBSIDY  
 FG002\_6\_ THE VALUE OF THE SUBSIDY  
 FG002\_7\_ THE VALUE OF THE SUBSIDY  
 FG002\_8\_ THE VALUE OF THE SUBSIDY  
 FG002\_9\_ THE VALUE OF THE SUBSIDY  
 FH001 HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR  
 FH009 DID ANY OTHER HOUSEHOLD MEMBERS WORK IN THE SAME SELF-EMPLOYED  
 FH010 ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE LAST YE  
 FJ003 THE AVERAGE MONTHLY INCOME  
 FM018\_1 year  
 FM018\_2 month  
 FM022 WHAT IS YOUR MONTHLY PENSION  
 FM030\_1 year  
 FM030\_2 month  
 FM034 What is your monthly pension?  
 FN001 ARE YOU RECEIVING PENSION  
 FN003\_1 year  
 FN003\_2 month  
 FN004 WHAT IS YOUR MONTHLY BENEFITS  
 FN006\_1 year  
 FN006\_2 month  
 FN007 WHAT IS YOUR MONTHLY BENEFITS  
 FN012\_1 year  
 FN012\_2 month  
 FN013 HOW MUCH DO YOU RECEIVE NOW  
 FN017\_1 year  
 FN017\_2 month  
 FN018 How much do you receive now?(per month)  
 FN021\_1 yaer  
 FN021\_2 month  
 FN022 How much do you receive now?  
 FN078\_1 Year  
 FN078\_2 Month  
 FN079 How much do you receive every month? \$Answer\$ Yuan/ month  
 GA001 Did you receive any wage and bonus income in the past year?  
 GA002 How much did you receive last year?(yuan/year)  
 GA002\_1 or yuan/month  
 GA003S1 Show Card31 Did you receive any of the following types of indi

GA003S2	Show Card31	Did you receive any of the following types of indi
GA003S3	Show Card31	Did you receive any of the following types of indi
GA003S4	Show Card31	Did you receive any of the following types of indi
GA003S5	Show Card31	Did you receive any of the following types of indi
GA003S6	Show Card31	Did you receive any of the following types of indi
GA003S7	Show Card31	Did you receive any of the following types of indi
GA003S8	Show Card31	Did you receive any of the following types of indi
GA003S9	Show Card31	Did you receive any of the following types of indi
GA004_1_1_	Yuan/Year	
GA004_1_2_	Yuan/Year	
GA004_1_3_	Yuan/Year	
GA004_1_4_	Yuan/Year	
GA004_1_5_	Yuan/Year	
GA004_1_6_	Yuan/Year	
GA004_1_7_	Yuan/Year	
GA004_1_8_	Yuan/Year	
GA004_1_9_	Yuan/Year	
GA004_2_1_	Yuan/Month	
GA004_2_2_	Yuan/Month	
GA004_2_3_	Yuan/Month	
GA004_2_4_	Yuan/Month	
GA004_2_5_	Yuan/Month	
GA004_2_6_	Yuan/Month	
GA004_2_7_	Yuan/Month	
GA004_2_8_	Yuan/Month	
GA004_2_9_	Yuan/Month	
GA006_1_10_	Salary Per Year	
GA006_1_11_	Salary Per Year	
GA006_1_12_	Salary Per Year	
GA006_1_13_	Salary Per Year	
GA006_1_14_	Salary Per Year	
GA006_1_15_	Salary Per Year	
GA006_1_1_	Salary Per Year	
GA006_1_2_	Salary Per Year	
GA006_1_3_	Salary Per Year	
GA006_1_4_	Salary Per Year	
GA006_1_5_	Salary Per Year	
GA006_1_6_	Salary Per Year	
GA006_1_7_	Salary Per Year	
GA006_1_8_	Salary Per Year	
GA006_1_9_	Salary Per Year	
GA006_2_10_	Salary Per Month	
GA006_2_11_	Salary Per Month	
GA006_2_12_	Salary Per Month	
GA006_2_13_	Salary Per Month	
GA006_2_14_	Salary Per Month	
GA006_2_15_	Salary Per Month	
GA006_2_1_	Salary Per Month	
GA006_2_2_	Salary Per Month	
GA006_2_3_	Salary Per Month	
GA006_2_4_	Salary Per Month	
GA006_2_5_	Salary Per Month	
GA006_2_6_	Salary Per Month	
GA006_2_7_	Salary Per Month	
GA006_2_8_	Salary Per Month	
GA006_2_9_	Salary Per Month	
GA008_2_A_3_	Yuan/Year of Unemployment Compensation	
GA008_2_A_4_	Yuan/Year of Unemployment Compensation	
GA008_2_B_3_	Yuan/Month of Unemployment Compensation	
GA008_2_B_4_	Yuan/Month of Unemployment Compensation	
GA008_3_A_11_	Yuan/Year of Pension Subsidy	
GA008_3_A_1_	Yuan/Year of Pension Subsidy	
GA008_3_A_2_	Yuan/Year of Pension Subsidy	
GA008_3_A_3_	Yuan/Year of Pension Subsidy	
GA008_3_A_4_	Yuan/Year of Pension Subsidy	
GA008_3_A_6_	Yuan/Year of Pension Subsidy	
GA008_3_A_7_	Yuan/Year of Pension Subsidy	
GA008_3_A_9_	Yuan/Year of Pension Subsidy	
GA008_3_B_11_	Yuan/Month of Pension Subsidy	

GA008_3_B_1_	Yuan/Month of Pension Subsidy
GA008_3_B_2_	Yuan/Month of Pension Subsidy
GA008_3_B_3_	Yuan/Month of Pension Subsidy
GA008_3_B_4_	Yuan/Month of Pension Subsidy
GA008_3_B_6_	Yuan/Month of Pension Subsidy
GA008_3_B_7_	Yuan/Month of Pension Subsidy
GA008_3_B_9_	Yuan/Month of Pension Subsidy
GA008_4_A_1_	Yuan/Year of Worker's Compensation
GA008_4_A_2_	Yuan/Year of Worker's Compensation
GA008_4_A_3_	Yuan/Year of Worker's Compensation
GA008_4_A_4_	Yuan/Year of Worker's Compensation
GA008_4_A_6_	Yuan/Year of Worker's Compensation
GA008_4_B_1_	Yuan/Month of Worker's Compensation
GA008_4_B_2_	Yuan/Month of Worker's Compensation
GA008_4_B_3_	Yuan/Month of Worker's Compensation
GA008_4_B_4_	Yuan/Month of Worker's Compensation
GA008_4_B_6_	Yuan/Month of Worker's Compensation
GA008_5_A_1_	Yuan/Year of Family Planning Subsidy
GA008_5_A_2_	Yuan/Year of Family Planning Subsidy
GA008_5_A_3_	Yuan/Year of Family Planning Subsidy
GA008_5_A_4_	Yuan/Year of Family Planning Subsidy
GA008_5_A_5_	Yuan/Year of Family Planning Subsidy
GA008_5_A_6_	Yuan/Year of Family Planning Subsidy
GA008_5_A_7_	Yuan/Year of Family Planning Subsidy
GA008_5_B_1_	Yuan/Month of Family Planning Subsidy
GA008_5_B_2_	Yuan/Month of Family Planning Subsidy
GA008_5_B_3_	Yuan/Month of Family Planning Subsidy
GA008_5_B_4_	Yuan/Month of Family Planning Subsidy
GA008_5_B_5_	Yuan/Month of Family Planning Subsidy
GA008_5_B_6_	Yuan/Month of Family Planning Subsidy
GA008_5_B_7_	Yuan/Month of Family Planning Subsidy
GA008_6_A_1_	Yuan/Year of Medical Aid
GA008_6_A_26_	Yuan/Year of Medical Aid
GA008_6_A_2_	Yuan/Year of Medical Aid
GA008_6_A_3_	Yuan/Year of Medical Aid
GA008_6_A_4_	Yuan/Year of Medical Aid
GA008_6_A_5_	Yuan/Year of Medical Aid
GA008_6_A_6_	Yuan/Year of Medical Aid
GA008_6_A_7_	Yuan/Year of Medical Aid
GA008_6_B_1_	Yuan/Month of Medical Aid
GA008_6_B_26_	Yuan/Month of Medical Aid
GA008_6_B_2_	Yuan/Month of Medical Aid
GA008_6_B_3_	Yuan/Month of Medical Aid
GA008_6_B_4_	Yuan/Month of Medical Aid
GA008_6_B_5_	Yuan/Month of Medical Aid
GA008_6_B_6_	Yuan/Month of Medical Aid
GA008_6_B_7_	Yuan/Month of Medical Aid
GA008_7_A_1_	Yuan/Year of Other Government Subsidy
GA008_7_A_2_	Yuan/Year of Other Government Subsidy
GA008_7_A_3_	Yuan/Year of Other Government Subsidy
GA008_7_A_4_	Yuan/Year of Other Government Subsidy
GA008_7_A_5_	Yuan/Year of Other Government Subsidy
GA008_7_A_6_	Yuan/Year of Other Government Subsidy
GA008_7_A_7_	Yuan/Year of Other Government Subsidy
GA008_7_B_1_	Yuan/Month of Other Government Subsidy
GA008_7_B_2_	Yuan/Month of Other Government Subsidy
GA008_7_B_3_	Yuan/Month of Other Government Subsidy
GA008_7_B_4_	Yuan/Month of Other Government Subsidy
GA008_7_B_5_	Yuan/Month of Other Government Subsidy
GA008_7_B_6_	Yuan/Month of Other Government Subsidy
GA008_7_B_7_	Yuan/Month of Other Government Subsidy
GA008_8_A_1_	Yuan/Year of Social Assistance
GA008_8_A_2_	Yuan/Year of Social Assistance
GA008_8_A_3_	Yuan/Year of Social Assistance
GA008_8_A_4_	Yuan/Year of Social Assistance
GA008_8_A_5_	Yuan/Year of Social Assistance
GA008_8_A_6_	Yuan/Year of Social Assistance
GA008_8_A_8_	Yuan/Year of Social Assistance
GA008_8_B_1_	Yuan/Month of Social Assistance

GA008_8_B_2_	Yuan/Month of Social Assistance
GA008_8_B_3_	Yuan/Month of Social Assistance
GA008_8_B_4_	Yuan/Month of Social Assistance
GA008_8_B_5_	Yuan/Month of Social Assistance
GA008_8_B_6_	Yuan/Month of Social Assistance
GA008_8_B_8_	Yuan/Month of Social Assistance
GA008_9_A_1_	Yuan/Year of Other Income Source
GA008_9_A_2_	Yuan/Year of Other Income Source
GA008_9_A_3_	Yuan/Year of Other Income Source
GA008_9_A_4_	Yuan/Year of Other Income Source
GA008_9_B_1_	Yuan/Month of Other Income Source
GA008_9_B_2_	Yuan/Month of Other Income Source
GA008_9_B_3_	Yuan/Month of Other Income Source
GB001	Did Your Household Engage in Agricultural Work
GB002_10_	Did This Household Member Engage in Agricultural Work
GB002_11_	Did This Household Member Engage in Agricultural Work
GB002_12_	Did This Household Member Engage in Agricultural Work
GB002_13_	Did This Household Member Engage in Agricultural Work
GB002_14_	Did This Household Member Engage in Agricultural Work
GB002_15_	Did This Household Member Engage in Agricultural Work
GB002_16_	Did This Household Member Engage in Agricultural Work
GB002_1_	Did This Household Member Engage in Agricultural Work
GB002_2_	Did This Household Member Engage in Agricultural Work
GB002_3_	Did This Household Member Engage in Agricultural Work
GB002_4_	Did This Household Member Engage in Agricultural Work
GB002_5_	Did This Household Member Engage in Agricultural Work
GB002_6_	Did This Household Member Engage in Agricultural Work
GB002_7_	Did This Household Member Engage in Agricultural Work
GB002_8_	Did This Household Member Engage in Agricultural Work
GB002_9_	Did This Household Member Engage in Agricultural Work
GB003	Did Your Household Engage in Cropping or Forestry Last Year
GB005	Value of All Crops and Forestry Products
GB006	Total Cost of Producing Crops
GB007	Did Your Household Grow Any Livestock or Fish Last Year
GB008	Value of All Livestock
GB009	Value of All Livestock and Aquatic Life at the Same Time of Las
GB010	HOW MUCH DID YOU SPEND PURCHASING NEW LIVESTOCK AND AQUATIC LIF
GB011	THE VALUE OF ALL LIVESTOCK AND AQUATIC LIFE THAT WERE SOLD OR C
GB012	THE VALUE OF ALL LIVESTOCK PRODUCTS PRODUCED
GB013	THE COST OF PRODUCING LIVESTOCK AND AQUATIC LIFE LAST YEAR
GC001	ENGAGE IN SELF-EMPLOYED ACTIVITIES
GC005_1_	NET INCOME FROM THE ACTIVITY
GC005_2_	NET INCOME FROM THE ACTIVITY
GC005_3_	NET INCOME FROM THE ACTIVITY
GD001	Did your household receive Dibao assistance last year?
GD001_C	Value of Dibao (Yuan)
GD002S1	Whether Receive This Subsidy
GD002S2	Whether Receive This Subsidy
GD002S3	Whether Receive This Subsidy
GD002S4	Whether Receive This Subsidy
GD002S5	Whether Receive This Subsidy
GD002S6	Whether Receive This Subsidy
GD002S7	Whether Receive This Subsidy
GD002_1	TUIGENGHUANLIN
GD002_2	AGRICULTURAL SUBSIDIES
GD002_3	WUBAOHU
GD002_4	TEKUNHU
GD002_5	Work injury subsidies to the immediate family members
GD002_6	EMERGENCY OR DISASTER RELIEF
GD002_7	THE MONEY FOR OTHER
GD003S1	INCOME FROM THE FOLLOWING SOURCES
GD003S2	INCOME FROM THE FOLLOWING SOURCES
GD003S3	INCOME FROM THE FOLLOWING SOURCES
GD003_1	DONATIONS FROM THE SOCIETY
GD003_2	COMPENSATION FOR LAND SEIZURE
GD003_3	COMPENSATION TO PULLING DOWN YOUR HOUSE OR APARTMENT
HA027	OTHER RESIDENCES
HA052	THE MONTHLY RENTAL INCOME FOR ALL ROOM OR HOUSES OWNED BY YOU
HA052_1	rent

HA053	rent
HA053_1	rent
HA054S1	CULTIVATED LAND
HA054S2	CULTIVATED LAND
HA054S3	CULTIVATED LAND
HA054S4	CULTIVATED LAND
HA054S5	CULTIVATED LAND
HA058_1_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA058_2_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA058_3_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA058_4_	DID YOU RENT OUT ANY OF YOUR LAND IN THE PAST YEAR
HA060_1_	RENTAL INCOME
HA060_2_	RENTAL INCOME
HA060_3_	RENTAL INCOME
HA060_4_	RENTAL INCOME
HA064	RENT
HA064_1	RENT
HA069	HAVE YOU LENT TO ANYONE AND NOT BEEN REPAID
HA071	HOW MUCH INTEREST INCOME IN PAST YEAR
HC010	HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
HC011	DID YOU EARN MONEY OR LOSE MONEY FROM STOCK
HC012	HOW MUCH DID YOU EARN OR LOSE
HC012_2	HOW MUCH DID YOU EARN OR LOSE
HC015	HAVE YOU HELD ANY FUNDS IN THE PAST YEAR
HC016	DID YOU EARN MONEY OR LOSE MONEY FROM HOLDING FUNDS
HC017	HOW MUCH DID YOU EARN OR LOSE
HC023	DID YOU RECEIVE ANY OTHER INCOME IN PAST YEAR
HC024	HOW MUCH DID YOU RECEIVE ALTOGETHER
Wave 2:	
A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
FA006_w2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC001	Any Work for Other Farmers in Wage
FC004	How Many Months Did You Work for Other Farmers
FC007	Average Monthly Income
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in the Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FF001	Pattern of Wage Payment
FF002_1	After-tax Salary of Last Year(Yuan)
FF004_1	After-tax Salary of Last Month(Yuan)
FF006	After-tax Salary of Last Week



FF008	Daily Wage
FF010	Hourly Wage
FF012_1	How Much Do You Receive Last Month(Yuan)
FF014	All Other Bonus in the Past Year
FG001S1	Free Lunch
FG001S10	Other Subsidies
FG001S11	None
FG001S2	Free Breakfast
FG001S3	Free Dinner
FG001S4	Meal Cash Subsidy
FG001S5	Transportation Subsidizations
FG001S6	Free Housing
FG001S7	Subsidization of Housing
FG001S8	Company Car
FG001S9	Company Bus
FG002_10_	Value of the Subsidy per Month Corresponding to FG001
FG002_1_	Value of the Subsidy per Month Corresponding to FG001
FG002_2_	Value of the Subsidy per Month Corresponding to FG001
FG002_3_	Value of the Subsidy per Month Corresponding to FG001
FG002_4_	Value of the Subsidy per Month Corresponding to FG001
FG002_5_	Value of the Subsidy per Month Corresponding to FG001
FG002_6_	Value of the Subsidy per Month Corresponding to FG001
FG002_7_	Value of the Subsidy per Month Corresponding to FG001
FG002_8_	Value of the Subsidy per Month Corresponding to FG001
FG002_9_	Value of the Subsidy per Month Corresponding to FG001
FH009	Do Any Other Household Member Work in This Activity
FH010	Net Income from This Activity
FJ003	Monthly Income of Side Jobs
FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN002_W2S4	Are You Currently Receiving Following Pension?
FN003_W2_1_1_	When Did You Start Receiving Pension Benefits(Year) Correspon
FN003_W2_1_2_	When Did You Start Receiving Pension Benefits(Year) Correspon
FN003_W2_1_3_	When Did You Start Receiving Pension Benefits(Year) Correspon
FN003_W2_2_1_	When Did You Start Receiving Pension Benefits(Month) Correspon
FN003_W2_2_2_	When Did You Start Receiving Pension Benefits(Month) Correspon
FN003_W2_2_3_	When Did You Start Receiving Pension Benefits(Month) Correspon
GA003S1	Receives Pension
GA003S10	None of The above
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers'Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_1_1_	Amount by Year: Pension
GA004_1_2_	Amount by Year: Unemployment Compensation
GA004_1_3_	Amount by Year: Pension Subsidy
GA004_1_4_	Amount by Year: Workers'Compensation
GA004_1_5_	Amount by Year: Elderly Family Planning Subsidies
GA004_1_6_	Amount by Year: Medical Aid
GA004_1_7_	Amount by Year: Other Government Subsidies
GA004_1_8_	Amount by Year: Social Assistance
GA004_1_9_	Amount by Year: Other Income Sources
GA004_2_1_	Amount by Month: Pension
GA004_2_2_	Amount by Month: Unemployment Compensation
GA004_2_3_	Amount by Month: Pension Subsidy
GA004_2_4_	Amount by Month: Workers'Compensation
GA004_2_6_	Amount by Month: Medical Aid
GA004_2_7_	Amount by Month: Other Government Subsidies
GA004_2_8_	Amount by Month: Social Assistance
GA004_2_9_	Amount by Month: Other Income Sources
GA007_10_S1	Household Member [10] Receives Pensions
GA007_10_S10	Household Member [10] Receives None of The above
GA007_10_S2	Household Member [10] Receives Unemployment Compensation
GA007_10_S3	Household Member [10] Receives Pension Subsidy

GA007_10_S4	Household Member	[10]	Receives Worker'S Compensation
GA007_10_S5	Household Member	[10]	Receives Elderly Family Planning Subsidie
GA007_10_S6	Household Member	[10]	Receives Medical Aid
GA007_10_S7	Household Member	[10]	Receives Other Government Subsidies
GA007_10_S8	Household Member	[10]	Receives Social Assistance
GA007_10_S9	Household Member	[10]	Receives Other Income Sources
GA007_11_S1	Household Member	[11]	Receives Pensions
GA007_11_S10	Household Member	[11]	Receives None of The above
GA007_11_S2	Household Member	[11]	Receives Unemployment Compensation
GA007_11_S3	Household Member	[11]	Receives Pension Subsidy
GA007_11_S4	Household Member	[11]	Receives Worker'S Compensation
GA007_11_S5	Household Member	[11]	Receives Elderly Family Planning Subsidie
GA007_11_S6	Household Member	[11]	Receives Medical Aid
GA007_11_S7	Household Member	[11]	Receives Other Government Subsidies
GA007_11_S8	Household Member	[11]	Receives Social Assistance
GA007_11_S9	Household Member	[11]	Receives Other Income Sources
GA007_12_S1	Household Member	[12]	Receives Pensions
GA007_12_S10	Household Member	[12]	Receives None of The above
GA007_12_S2	Household Member	[12]	Receives Unemployment Compensation
GA007_12_S3	Household Member	[12]	Receives Pension Subsidy
GA007_12_S4	Household Member	[12]	Receives Worker'S Compensation
GA007_12_S5	Household Member	[12]	Receives Elderly Family Planning Subsidie
GA007_12_S6	Household Member	[12]	Receives Medical Aid
GA007_12_S7	Household Member	[12]	Receives Other Government Subsidies
GA007_12_S8	Household Member	[12]	Receives Social Assistance
GA007_12_S9	Household Member	[12]	Receives Other Income Sources
GA007_1_S1	Household Member	[1]	Receives Pensions
GA007_1_S10	Household Member	[1]	Receives None of The above
GA007_1_S2	Household Member	[1]	Receives Unemployment Compensation
GA007_1_S3	Household Member	[1]	Receives Pension Subsidy
GA007_1_S4	Household Member	[1]	Receives Worker'S Compensation
GA007_1_S5	Household Member	[1]	Receives Elderly Family Planning Subsidies
GA007_1_S6	Household Member	[1]	Receives Medical Aid
GA007_1_S7	Household Member	[1]	Receives Other Government Subsidies
GA007_1_S8	Household Member	[1]	Receives Social Assistance
GA007_1_S9	Household Member	[1]	Receives Other Income Sources
GA007_2_S1	Household Member	[2]	Receives Pensions
GA007_2_S10	Household Member	[2]	Receives None of The above
GA007_2_S2	Household Member	[2]	Receives Unemployment Compensation
GA007_2_S3	Household Member	[2]	Receives Pension Subsidy
GA007_2_S4	Household Member	[2]	Receives Worker'S Compensation
GA007_2_S5	Household Member	[2]	Receives Elderly Family Planning Subsidies
GA007_2_S6	Household Member	[2]	Receives Medical Aid
GA007_2_S7	Household Member	[2]	Receives Other Government Subsidies
GA007_2_S8	Household Member	[2]	Receives Social Assistance
GA007_2_S9	Household Member	[2]	Receives Other Income Sources
GA007_3_S1	Household Member	[3]	Receives Pensions
GA007_3_S10	Household Member	[3]	Receives None of The above
GA007_3_S2	Household Member	[3]	Receives Unemployment Compensation
GA007_3_S3	Household Member	[3]	Receives Pension Subsidy
GA007_3_S4	Household Member	[3]	Receives Worker'S Compensation
GA007_3_S5	Household Member	[3]	Receives Elderly Family Planning Subsidies
GA007_3_S6	Household Member	[3]	Receives Medical Aid
GA007_3_S7	Household Member	[3]	Receives Other Government Subsidies
GA007_3_S8	Household Member	[3]	Receives Social Assistance
GA007_3_S9	Household Member	[3]	Receives Other Income Sources
GA007_4_S1	Household Member	[4]	Receives Pensions
GA007_4_S10	Household Member	[4]	Receives None of The above
GA007_4_S2	Household Member	[4]	Receives Unemployment Compensation
GA007_4_S3	Household Member	[4]	Receives Pension Subsidy
GA007_4_S4	Household Member	[4]	Receives Worker'S Compensation
GA007_4_S5	Household Member	[4]	Receives Elderly Family Planning Subsidies
GA007_4_S6	Household Member	[4]	Receives Medical Aid
GA007_4_S7	Household Member	[4]	Receives Other Government Subsidies
GA007_4_S8	Household Member	[4]	Receives Social Assistance
GA007_4_S9	Household Member	[4]	Receives Other Income Sources
GA007_5_S1	Household Member	[5]	Receives Pensions
GA007_5_S10	Household Member	[5]	Receives None of The above
GA007_5_S2	Household Member	[5]	Receives Unemployment Compensation

GA007_5_S3	Household Member [5]	Receives Pension Subsidy
GA007_5_S4	Household Member [5]	Receives Worker'S Compensation
GA007_5_S5	Household Member [5]	Receives Elderly Family Planning Subsidies
GA007_5_S6	Household Member [5]	Receives Medical Aid
GA007_5_S7	Household Member [5]	Receives Other Government Subsidies
GA007_5_S8	Household Member [5]	Receives Social Assistance
GA007_5_S9	Household Member [5]	Receives Other Income Sources
GA007_6_S1	Household Member [6]	Receives Pensions
GA007_6_S10	Household Member [6]	Receives None of The above
GA007_6_S2	Household Member [6]	Receives Unemployment Compensation
GA007_6_S3	Household Member [6]	Receives Pension Subsidy
GA007_6_S4	Household Member [6]	Receives Worker'S Compensation
GA007_6_S5	Household Member [6]	Receives Elderly Family Planning Subsidies
GA007_6_S6	Household Member [6]	Receives Medical Aid
GA007_6_S7	Household Member [6]	Receives Other Government Subsidies
GA007_6_S8	Household Member [6]	Receives Social Assistance
GA007_6_S9	Household Member [6]	Receives Other Income Sources
GA007_7_S1	Household Member [7]	Receives Pensions
GA007_7_S10	Household Member [7]	Receives None of The above
GA007_7_S2	Household Member [7]	Receives Unemployment Compensation
GA007_7_S3	Household Member [7]	Receives Pension Subsidy
GA007_7_S4	Household Member [7]	Receives Worker'S Compensation
GA007_7_S5	Household Member [7]	Receives Elderly Family Planning Subsidies
GA007_7_S6	Household Member [7]	Receives Medical Aid
GA007_7_S7	Household Member [7]	Receives Other Government Subsidies
GA007_7_S8	Household Member [7]	Receives Social Assistance
GA007_7_S9	Household Member [7]	Receives Other Income Sources
GA007_8_S1	Household Member [8]	Receives Pensions
GA007_8_S10	Household Member [8]	Receives None of The above
GA007_8_S2	Household Member [8]	Receives Unemployment Compensation
GA007_8_S3	Household Member [8]	Receives Pension Subsidy
GA007_8_S4	Household Member [8]	Receives Worker'S Compensation
GA007_8_S5	Household Member [8]	Receives Elderly Family Planning Subsidies
GA007_8_S6	Household Member [8]	Receives Medical Aid
GA007_8_S7	Household Member [8]	Receives Other Government Subsidies
GA007_8_S8	Household Member [8]	Receives Social Assistance
GA007_8_S9	Household Member [8]	Receives Other Income Sources
GA007_9_S1	Household Member [9]	Receives Pensions
GA007_9_S10	Household Member [9]	Receives None of The above
GA007_9_S2	Household Member [9]	Receives Unemployment Compensation
GA007_9_S3	Household Member [9]	Receives Pension Subsidy
GA007_9_S4	Household Member [9]	Receives Worker'S Compensation
GA007_9_S5	Household Member [9]	Receives Elderly Family Planning Subsidies
GA007_9_S6	Household Member [9]	Receives Medical Aid
GA007_9_S7	Household Member [9]	Receives Other Government Subsidies
GA007_9_S8	Household Member [9]	Receives Social Assistance
GA007_9_S9	Household Member [9]	Receives Other Income Sources
GA008_1B_10_	Pensions of Household Member [10]:	Amount by Year
GA008_1B_11_	Pensions of Household Member [11]:	Amount by Year
GA008_1B_12_	Pensions of Household Member [12]:	Amount by Year
GA008_1B_1_	Pensions of Household Member [1]:	Amount by Year
GA008_1B_2_	Pensions of Household Member [2]:	Amount by Year
GA008_1B_3_	Pensions of Household Member [3]:	Amount by Year
GA008_1B_4_	Pensions of Household Member [4]:	Amount by Year
GA008_1B_5_	Pensions of Household Member [5]:	Amount by Year
GA008_1B_6_	Pensions of Household Member [6]:	Amount by Year
GA008_1B_7_	Pensions of Household Member [7]:	Amount by Year
GA008_1B_8_	Pensions of Household Member [8]:	Amount by Year
GA008_1B_9_	Pensions of Household Member [9]:	Amount by Year
GA008_1C_10_	Pensions of Household Member [10]:	Amount by Month
GA008_1C_11_	Pensions of Household Member [11]:	Amount by Month
GA008_1C_12_	Pensions of Household Member [12]:	Amount by Month
GA008_1C_1_	Pensions of Household Member [1]:	Amount by Month
GA008_1C_2_	Pensions of Household Member [2]:	Amount by Month
GA008_1C_3_	Pensions of Household Member [3]:	Amount by Month
GA008_1C_4_	Pensions of Household Member [4]:	Amount by Month
GA008_1C_5_	Pensions of Household Member [5]:	Amount by Month
GA008_1C_6_	Pensions of Household Member [6]:	Amount by Month
GA008_1C_7_	Pensions of Household Member [7]:	Amount by Month





GA008_7C_2_	Other Government Subsidies of Household Member [2]: Amount by M
GA008_7C_3_	Other Government Subsidies of Household Member [3]: Amount by M
GA008_7C_4_	Other Government Subsidies of Household Member [4]: Amount by M
GA008_7C_5_	Other Government Subsidies of Household Member [5]: Amount by M
GA008_7C_6_	Other Government Subsidies of Household Member [6]: Amount by M
GA008_7C_7_	Other Government Subsidies of Household Member [7]: Amount by M
GA008_7C_8_	Other Government Subsidies of Household Member [8]: Amount by M
GA008_7C_9_	Other Government Subsidies of Household Member [9]: Amount by M
GA008_8B_10_	Social Assistance of Household Member [10]: Amount by Year
GA008_8B_11_	Social Assistance of Household Member [11]: Amount by Year
GA008_8B_12_	Social Assistance of Household Member [12]: Amount by Year
GA008_8B_1_	Social Assistance of Household Member [1]: Amount by Year
GA008_8B_2_	Social Assistance of Household Member [2]: Amount by Year
GA008_8B_3_	Social Assistance of Household Member [3]: Amount by Year
GA008_8B_4_	Social Assistance of Household Member [4]: Amount by Year
GA008_8B_5_	Social Assistance of Household Member [5]: Amount by Year
GA008_8B_6_	Social Assistance of Household Member [6]: Amount by Year
GA008_8B_7_	Social Assistance of Household Member [7]: Amount by Year
GA008_8B_8_	Social Assistance of Household Member [8]: Amount by Year
GA008_8B_9_	Social Assistance of Household Member [9]: Amount by Year
GA008_8C_10_	Social Assistance of Household Member [10]: Amount by Month
GA008_8C_11_	Social Assistance of Household Member [11]: Amount by Month
GA008_8C_12_	Social Assistance of Household Member [12]: Amount by Month
GA008_8C_1_	Social Assistance of Household Member [1]: Amount by Month
GA008_8C_2_	Social Assistance of Household Member [2]: Amount by Month
GA008_8C_3_	Social Assistance of Household Member [3]: Amount by Month
GA008_8C_4_	Social Assistance of Household Member [4]: Amount by Month
GA008_8C_5_	Social Assistance of Household Member [5]: Amount by Month
GA008_8C_6_	Social Assistance of Household Member [6]: Amount by Month
GA008_8C_7_	Social Assistance of Household Member [7]: Amount by Month
GA008_8C_8_	Social Assistance of Household Member [8]: Amount by Month
GA008_8C_9_	Social Assistance of Household Member [9]: Amount by Month
GB001	Other Household Members Engage in Agricultural Work
GB002S1	Household Member [1] Engaged in Agricultural
GB002S10	Household Member [10] Engaged in Agricultural
GB002S11	Household Member [11] Engaged in Agricultural
GB002S12	Household Member [12] Engaged in Agricultural
GB002S13	Household Member [13] Engaged in Agricultural
GB002S14	Household Member [14] Engaged in Agricultural
GB002S2	Household Member [2] Engaged in Agricultural
GB002S3	Household Member [3] Engaged in Agricultural
GB002S4	Household Member [4] Engaged in Agricultural
GB002S5	Household Member [5] Engaged in Agricultural
GB002S6	Household Member [6] Engaged in Agricultural
GB002S7	Household Member [7] Engaged in Agricultural
GB002S8	Household Member [8] Engaged in Agricultural
GB002S9	Household Member [9] Engaged in Agricultural
GB003	Engage in Cropping or Forestry
GB005_1	Total Value of Crops and Forestry
GB006	Cost of Crops and Forestry
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life
GB009	Value of Livestock and Aquatic Life of Last Year
GB010	Cost of Purchasing New Livestock and Aquatic Life
GB011_1	Value of Livestock and Aquatic Life, Sold or Consumed
GB012_1	Value of Livestock Products Produced, Sold or Consumed
GB013	Cost of Producing Livestock and Aquatic Life
GC001	Household Members Engage in Self-Employed Business
GC002	Number of Participated Small Businesses
GC005_1_	Income of The 1st Self-Employed Business
GC005_2_	Income of The 2nd Self-Employed Business
GC005_3_	Income of The 3rd Self-Employed Business
GC005_4_	Income of The 4th Self-Employed Business
GD001	Household Received Dibao
GD002S1	Household Received Reforestation
GD002S2	Household Received Agricultural Subsidies
GD002S3	Household Received Wubaohu
GD002S4	Household Received Tekunhu
GD002S5	Household Received Work Injury Subsidies

GD002S6	Household Received Emergency or Disaster Relief
GD002S7	Household Received Other Government Subsidies
GD002S8	No Government Subsidies
GD002_1	Amount of Reforestation
GD002_2	Amount of Agricultural Subsidies
GD002_3	Amount of Wubaohu
GD002_4	Amount of Tekunhu
GD002_5	Amount of Work Injury Subsidies
GD002_6	Amount of Emergency or Disaster Relief
GD002_7	Amount of Other Government Subsidies
GD003S1	Receive Donations
GD003S2	Receive Compensation for Land Seizure
GD003S3	Receive Compensation to Pulling down House
GD003_1	Amount of Donations
GD003_2	Amount of Compensation for Land Seizure
GD003_3	Amount of Compensation to Pulling down House
HA027	Other Residential Properties
HA052	Rental Income (Respondent or Spouse)
HA052_1	Rent (Yuan/Month)
HA053	Rental Income (Other Household Member)
HA053_1	Rent (Yuan/Month)
HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA058_1_	Rent Out Land
HA058_2_	Rent Out Land
HA058_3_	Rent Out Land
HA058_4_	Rent Out Land
HA060_1_	Income on Renting Out
HA060_2_	Income on Renting Out
HA060_3_	Income on Renting Out
HA060_4_	Income on Renting Out
HA064	Income for Renting Out Other Assets
HA064_1	Rent (Yuan)
HA069	Lent Out Unpaid
HA071	Interest Income
HC010	Stocks
HC015	Funds
HC023	Other Investments Income
HC024	Amount of Investment Income
HD012	Receive Assistance in Answering
XF1	Preload Work Variable
XRTYPE	R Interview Type
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You
ZF13	Working in LastIW

ZF14	Preload Working Status in LastIW
Wave 3:	
A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member
A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA007	Ever Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC009	Months for Household Agricultural Work
FC010	Days for Household Agricultural Work
FC011	Hours for Household Agricultural Work
FC014	Last Week Any Non-Agricultural Work
FC015	Currently Laid-off
FC017	Expect to Go Back within 6 Months
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in The Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FG001S1	Free Lunch
FG001S10	Other Subsidies
FG001S11	None
FG001S2	Free Breakfast
FG001S3	Free Dinner
FG001S4	Meal Cash Subsidy
FG001S5	Transportation Subsidizations
FG001S6	Free Housing
FG001S7	Subsidization of Housing
FG001S8	Company Car
FG001S9	Company Bus
FG002_1	Value of The Subsidy per Month Corresponding to FG001
FG002_10	Value of The Subsidy per Month Corresponding to FG001
FG002_2	Value of The Subsidy per Month Corresponding to FG001
FG002_3	Value of The Subsidy per Month Corresponding to FG001
FG002_4	Value of The Subsidy per Month Corresponding to FG001
FG002_5	Value of The Subsidy per Month Corresponding to FG001
FG002_6	Value of The Subsidy per Month Corresponding to FG001
FG002_7	Value of The Subsidy per Month Corresponding to FG001
FG002_8	Value of The Subsidy per Month Corresponding to FG001
FG002_9	Value of The Subsidy per Month Corresponding to FG001
FH001	How Many Months Did You Work in The Past Year
FH002	How Many Days Did You Work per Week
FH003	How Many Hours Did You Work per Day
FH009	Do Any Other Household Member Work in This Activity
FH010	Net Income from This Activity



FK002	Did You Search for a Job Last Month
FN002_w2S1	Are You Currently Receiving Pension Program of The Government?
FN002_w2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_w2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN003_w2_1_1_	When Did You Start Receiving Governments' Pension Benefits(Year
FN003_w2_1_2_	When Did You Start Receiving Government Affiliated Institutions
FN003_w2_1_3_	When Did You Start Receiving Firms' Pension Benefits(Year)
FN003_w2_2_1_	When Did You Start Receiving Governments' Pension Benefits(Mont
FN003_w2_2_2_	When Did You Start Receiving Government Affiliated Institutions
FN003_w2_2_3_	When Did You Start Receiving Firms' Pension Benefits(Month)
FN005_w2_1_	Current Monthly Pension Corresponding to FN002_w2 Option 1
FN005_w2_2_	Current Monthly Pension Corresponding to FN002_w2 Option 2
FN005_w2_3_	Current Monthly Pension Corresponding to FN002_w2 Option 3
FN030_w2	Are You Currently Participating/Receiving Supplement Pension
FN041_w2_1	When Did You Start to Receive Supplement Pension Benefits(Year)
FN041_w2_2	When Did You Start to Receive Supplement Pension Benefits(Month
FN042_w2	Monthly Benefits
FN043_w2	Are You Currently Participating/Receiving Commercial Pension In
FN055_w2_1	When Did You Start to Receive Benefits(Year)
FN055_w2_2	When Did You Start to Receive Benefits(Month)
FN056_w2	Monthly Benefits
FN057_w3S1	Have New Rural Socail Pension Insurance?
FN057_w3S2	Have Residents' Pension?
FN057_w3S3	Have Urban Residents' Pension?
FN057_w3S4	Have Any Pension Insurance above?
FN067_w2_1_1_	When Did You Start to Receive This Pension Benefits(Year)(New R
FN067_w2_1_2_	When Did You Start to Receive This Pension Benefits(Year)(Resid
FN067_w2_1_3_	When Did You Start to Receive This Pension Benefits(Year)(Urban
FN067_w2_2_1_	When Did You Start to Receive This Pension Benefits(Month)(New
FN067_w2_2_2_	When Did You Start to Receive This Pension Benefits(Month)(Resi
FN067_w2_2_3_	When Did You Start to Receive This Pension Benefits(Month)(Urba
FN068_w2_1_	How Much Do You Receive Now(New Rural Pension)
FN068_w2_2_	How Much Do You Receive Now(Residents' Pension)
FN068_w2_3_	How Much Do You Receive Now(Urban Residents' Pension)
FN079_w2_1	Have Your Land Ever Been Requisitioned
FN079_w2_10_1	When Did You Start to Receive The Benefits(Year)
FN079_w2_10_2	When Did You Start to Receive The Benefits(Month)
FN079_w2_11	How Much Do You Receive Now
FN080_w2	Are You Receiving The Pension Subsidy for The Oldest Old
FN081_w2_1	When Did You Start to Receive The Benefits(Year)
FN081_w2_2	When Did You Start to Receive The Benefits(Month)
FN082_w2	How Much Do You Receive Now
FN083_w2	Are You Currently Participatin Or Receiving Other Pension
FN095_w2_1	When Did You Start to Receive This Pension Benefits(Year)
FN095_w2_2	When Did You Start to Receive This Pension Benefits(Month)
FN096_w2	How Much Do You Receive Now
GA001	Received Wage Last Year
GA002	Received Amount of Income
GA003S1	Receives Pension
GA003S10	None of The above
GA003S2	Receives Unemployment Compensation
GA003S3	Receives Pension Subsidy
GA003S4	Receives Workers'Compensation
GA003S5	Receives Elderly Family Planning Subsidies
GA003S6	Receives Medical Aid
GA003S7	Receives Other Government Subsidies
GA003S8	Receives Social Assistance
GA003S9	Receives Other Income Sources
GA004_2_	Amount Received for Unemployment Compensation
GA004_3_	Amount Received for Pension Subsidy
GA004_4_	Amount Received for Workers'Compensation
GA004_5_	Amount Received for Elderly Family Planning Subsidies
GA004_6_	Amount Received for Medical Aid
GA004_7_	Amount Received for Other Government Subsidies
GA004_8_	Amount Received for Social Assistance
GA004_9_	Amount Received for Other Income Sources
GA005_10_	Household Member [10] Receives Wage or Bonus Income
GA005_1_	Household Member [1] Receives Wage or Bonus Income
GA005_2_	Household Member [2] Receives Wage or Bonus Income

GA005_3_	Household Member [3] Receives Wage or Bonus Income
GA005_4_	Household Member [4] Receives Wage or Bonus Income
GA005_5_	Household Member [5] Receives Wage or Bonus Income
GA005_6_	Household Member [6] Receives Wage or Bonus Income
GA005_7_	Household Member [7] Receives Wage or Bonus Income
GA005_8_	Household Member [8] Receives Wage or Bonus Income
GA005_9_	Household Member [9] Receives Wage or Bonus Income
GA006_1_10_	Income of Household Member [10]: Amount by Year
GA006_1_1_	Income of Household Member [1]: Amount by Year
GA006_1_2_	Income of Household Member [2]: Amount by Year
GA006_1_3_	Income of Household Member [3]: Amount by Year
GA006_1_4_	Income of Household Member [4]: Amount by Year
GA006_1_5_	Income of Household Member [5]: Amount by Year
GA006_1_6_	Income of Household Member [6]: Amount by Year
GA006_1_7_	Income of Household Member [7]: Amount by Year
GA006_1_8_	Income of Household Member [8]: Amount by Year
GA006_1_9_	Income of Household Member [9]: Amount by Year
GA006_2_10_	Income of Household Member [10]: Amount by Month
GA006_2_1_	Income of Household Member [1]: Amount by Month
GA006_2_2_	Income of Household Member [2]: Amount by Month
GA006_2_3_	Income of Household Member [3]: Amount by Month
GA006_2_4_	Income of Household Member [4]: Amount by Month
GA006_2_5_	Income of Household Member [5]: Amount by Month
GA006_2_6_	Income of Household Member [6]: Amount by Month
GA006_2_7_	Income of Household Member [7]: Amount by Month
GA006_2_8_	Income of Household Member [8]: Amount by Month
GA006_2_9_	Income of Household Member [9]: Amount by Month
GA007_10_S1	Household Member [10] Receives Pensions
GA007_10_S10	Household Member [10] Receives None of The above
GA007_10_S2	Household Member [10] Receives Unemployment Compensation
GA007_10_S3	Household Member [10] Receives Pension Subsidy
GA007_10_S4	Household Member [10] Receives Worker's Compensation
GA007_10_S5	Household Member [10] Receives Elderly Family Planning Subsidie
GA007_10_S6	Household Member [10] Receives Medical Aid
GA007_10_S7	Household Member [10] Receives Other Government Subsidies
GA007_10_S8	Household Member [10] Receives Social Assistance
GA007_10_S9	Household Member [10] Receives Other Income Sources
GA007_1_S1	Household Member [1] Receives Pensions
GA007_1_S10	Household Member [1] Receives None of The above
GA007_1_S2	Household Member [1] Receives Unemployment Compensation
GA007_1_S3	Household Member [1] Receives Pension Subsidy
GA007_1_S4	Household Member [1] Receives Worker's Compensation
GA007_1_S5	Household Member [1] Receives Elderly Family Planning Subsidies
GA007_1_S6	Household Member [1] Receives Medical Aid
GA007_1_S7	Household Member [1] Receives Other Government Subsidies
GA007_1_S8	Household Member [1] Receives Social Assistance
GA007_1_S9	Household Member [1] Receives Other Income Sources
GA007_2_S1	Household Member [2] Receives Pensions
GA007_2_S10	Household Member [2] Receives None of The above
GA007_2_S2	Household Member [2] Receives Unemployment Compensation
GA007_2_S3	Household Member [2] Receives Pension Subsidy
GA007_2_S4	Household Member [2] Receives Worker's Compensation
GA007_2_S5	Household Member [2] Receives Elderly Family Planning Subsidies
GA007_2_S6	Household Member [2] Receives Medical Aid
GA007_2_S7	Household Member [2] Receives Other Government Subsidies
GA007_2_S8	Household Member [2] Receives Social Assistance
GA007_2_S9	Household Member [2] Receives Other Income Sources
GA007_3_S1	Household Member [3] Receives Pensions
GA007_3_S10	Household Member [3] Receives None of The above
GA007_3_S2	Household Member [3] Receives Unemployment Compensation
GA007_3_S3	Household Member [3] Receives Pension Subsidy
GA007_3_S4	Household Member [3] Receives Worker's Compensation
GA007_3_S5	Household Member [3] Receives Elderly Family Planning Subsidies
GA007_3_S6	Household Member [3] Receives Medical Aid
GA007_3_S7	Household Member [3] Receives Other Government Subsidies
GA007_3_S8	Household Member [3] Receives Social Assistance
GA007_3_S9	Household Member [3] Receives Other Income Sources
GA007_4_S1	Household Member [4] Receives Pensions
GA007_4_S10	Household Member [4] Receives None of The above

GA007_4_S2	Household Member [4]	Receives Unemployment Compensation
GA007_4_S3	Household Member [4]	Receives Pension Subsidy
GA007_4_S4	Household Member [4]	Receives Worker's Compensation
GA007_4_S5	Household Member [4]	Receives Elderly Family Planning Subsidies
GA007_4_S6	Household Member [4]	Receives Medical Aid
GA007_4_S7	Household Member [4]	Receives Other Government Subsidies
GA007_4_S8	Household Member [4]	Receives Social Assistance
GA007_4_S9	Household Member [4]	Receives Other Income Sources
GA007_5_S1	Household Member [5]	Receives Pensions
GA007_5_S10	Household Member [5]	Receives None of The above
GA007_5_S2	Household Member [5]	Receives Unemployment Compensation
GA007_5_S3	Household Member [5]	Receives Pension Subsidy
GA007_5_S4	Household Member [5]	Receives Worker's Compensation
GA007_5_S5	Household Member [5]	Receives Elderly Family Planning Subsidies
GA007_5_S6	Household Member [5]	Receives Medical Aid
GA007_5_S7	Household Member [5]	Receives Other Government Subsidies
GA007_5_S8	Household Member [5]	Receives Social Assistance
GA007_5_S9	Household Member [5]	Receives Other Income Sources
GA007_6_S1	Household Member [6]	Receives Pensions
GA007_6_S10	Household Member [6]	Receives None of The above
GA007_6_S2	Household Member [6]	Receives Unemployment Compensation
GA007_6_S3	Household Member [6]	Receives Pension Subsidy
GA007_6_S4	Household Member [6]	Receives Worker's Compensation
GA007_6_S5	Household Member [6]	Receives Elderly Family Planning Subsidies
GA007_6_S6	Household Member [6]	Receives Medical Aid
GA007_6_S7	Household Member [6]	Receives Other Government Subsidies
GA007_6_S8	Household Member [6]	Receives Social Assistance
GA007_6_S9	Household Member [6]	Receives Other Income Sources
GA007_7_S1	Household Member [7]	Receives Pensions
GA007_7_S10	Household Member [7]	Receives None of The above
GA007_7_S2	Household Member [7]	Receives Unemployment Compensation
GA007_7_S3	Household Member [7]	Receives Pension Subsidy
GA007_7_S4	Household Member [7]	Receives Worker's Compensation
GA007_7_S5	Household Member [7]	Receives Elderly Family Planning Subsidies
GA007_7_S6	Household Member [7]	Receives Medical Aid
GA007_7_S7	Household Member [7]	Receives Other Government Subsidies
GA007_7_S8	Household Member [7]	Receives Social Assistance
GA007_7_S9	Household Member [7]	Receives Other Income Sources
GA007_8_S1	Household Member [8]	Receives Pensions
GA007_8_S10	Household Member [8]	Receives None of The above
GA007_8_S2	Household Member [8]	Receives Unemployment Compensation
GA007_8_S3	Household Member [8]	Receives Pension Subsidy
GA007_8_S4	Household Member [8]	Receives Worker's Compensation
GA007_8_S5	Household Member [8]	Receives Elderly Family Planning Subsidies
GA007_8_S6	Household Member [8]	Receives Medical Aid
GA007_8_S7	Household Member [8]	Receives Other Government Subsidies
GA007_8_S8	Household Member [8]	Receives Social Assistance
GA007_8_S9	Household Member [8]	Receives Other Income Sources
GA007_9_S1	Household Member [9]	Receives Pensions
GA007_9_S10	Household Member [9]	Receives None of The above
GA007_9_S2	Household Member [9]	Receives Unemployment Compensation
GA007_9_S3	Household Member [9]	Receives Pension Subsidy
GA007_9_S4	Household Member [9]	Receives Worker's Compensation
GA007_9_S5	Household Member [9]	Receives Elderly Family Planning Subsidies
GA007_9_S6	Household Member [9]	Receives Medical Aid
GA007_9_S7	Household Member [9]	Receives Other Government Subsidies
GA007_9_S8	Household Member [9]	Receives Social Assistance
GA007_9_S9	Household Member [9]	Receives Other Income Sources
GA008_1B_10_	Pensions of Household Member [10]:	Amount by Year
GA008_1B_1_	Pensions of Household Member [1]:	Amount by Year
GA008_1B_2_	Pensions of Household Member [2]:	Amount by Year
GA008_1B_3_	Pensions of Household Member [3]:	Amount by Year
GA008_1B_4_	Pensions of Household Member [4]:	Amount by Year
GA008_1B_5_	Pensions of Household Member [5]:	Amount by Year
GA008_1B_6_	Pensions of Household Member [6]:	Amount by Year
GA008_1B_7_	Pensions of Household Member [7]:	Amount by Year
GA008_1B_8_	Pensions of Household Member [8]:	Amount by Year
GA008_1B_9_	Pensions of Household Member [9]:	Amount by Year
GA008_1C_10_	Pensions of Household Member [10]:	Amount by Month





GA008_8B_9_	Social Assistance of Household Member [9]: Amount by Year
GA008_8C_10_	Social Assistance of Household Member [10]: Amount by Month
GA008_8C_1_	Social Assistance of Household Member [1]: Amount by Month
GA008_8C_2_	Social Assistance of Household Member [2]: Amount by Month
GA008_8C_3_	Social Assistance of Household Member [3]: Amount by Month
GA008_8C_4_	Social Assistance of Household Member [4]: Amount by Month
GA008_8C_5_	Social Assistance of Household Member [5]: Amount by Month
GA008_8C_6_	Social Assistance of Household Member [6]: Amount by Month
GA008_8C_7_	Social Assistance of Household Member [7]: Amount by Month
GA008_8C_8_	Social Assistance of Household Member [8]: Amount by Month
GA008_8C_9_	Social Assistance of Household Member [9]: Amount by Month
GA008_9B_10_	Other Income Sources of Household Member [10]: Amount by Year
GA008_9B_1_	Other Income Sources of Household Member [1]: Amount by Year
GA008_9B_2_	Other Income Sources of Household Member [2]: Amount by Year
GA008_9B_3_	Other Income Sources of Household Member [3]: Amount by Year
GA008_9B_4_	Other Income Sources of Household Member [4]: Amount by Year
GA008_9B_5_	Other Income Sources of Household Member [5]: Amount by Year
GA008_9B_6_	Other Income Sources of Household Member [6]: Amount by Year
GA008_9B_7_	Other Income Sources of Household Member [7]: Amount by Year
GA008_9B_8_	Other Income Sources of Household Member [8]: Amount by Year
GA008_9B_9_	Other Income Sources of Household Member [9]: Amount by Year
GA008_9C_10_	Other Income Sources of Household Member [10]: Amount by Month
GA008_9C_1_	Other Income Sources of Household Member [1]: Amount by Month
GA008_9C_2_	Other Income Sources of Household Member [2]: Amount by Month
GA008_9C_3_	Other Income Sources of Household Member [3]: Amount by Month
GA008_9C_4_	Other Income Sources of Household Member [4]: Amount by Month
GA008_9C_5_	Other Income Sources of Household Member [5]: Amount by Month
GA008_9C_6_	Other Income Sources of Household Member [6]: Amount by Month
GA008_9C_7_	Other Income Sources of Household Member [7]: Amount by Month
GA008_9C_8_	Other Income Sources of Household Member [8]: Amount by Month
GA008_9C_9_	Other Income Sources of Household Member [9]: Amount by Month
GB001	Other Household Members Engage in Agricultural Work
GB003	Engage in Cropping or Forestry
GB005_1	Total Value of Crops and Forestry
GB006	Cost of Crops and Forestry
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of Livestock and Aquatic Life
GB009	Value of Livestock and Aquatic Life of Last Year
GB010	Cost of Purchasing New Livestock and Aquatic Life
GB011_1	Value of Livestock and Aquatic Life, Sold or Consumed
GB012_1	Value of Livestock Products Produced, Sold or Consumed
GB013	Cost of Producing Livestock and Aquatic Life
GC001	Household Members Engage in Self-Employed Businesses
GC002	Number of Participated Small Businesses
GC005_1_	Income of The 1st Self-Employed Business
GC005_2_	Income of The 2nd Self-Employed Business
GC005_3_	Income of The 3rd Self-Employed Business
GD001	Household Received Dibao
GD002S1	Household Received Reforestation
GD002S2	Household Received Agricultural Subsidies
GD002S3	Household Received Wubaohu
GD002S4	Household Received Tekunhu
GD002S5	Household Received Work Injury Subsidies
GD002S6	Household Received Emergency or Disaster Relief
GD002S7	Household Received Other Government Subsidies
GD002S8	No Government Subsidies
GD002_1	Amount of Reforestation
GD002_2	Amount of Agricultural Subsidies
GD002_3	Amount of Wubaohu
GD002_4	Amount of Tekunhu
GD002_5	Amount of Work Injury Subsidies
GD002_6	Amount of Emergency or Disaster Relief
GD002_7	Amount of Other Government Subsidies
GD003S1	Receive Donations
GD003S2	Receive Compensation for Land Seizure
GD003S3	Receive Compensation to Pulling down House
GD003S4	No Any Donations or Compensation
GD003_1	Amount of Donations
GD003_2	Amount of Compensation for Land Seizure

GD003_3	Amount of Compensation to Pulling down House
HA027	Other Residential Properties
HA052	Rental Income (Respondent or Spouse)
HA052_1	Rent (Yuan/Month)
HA054S1	Categories of Land
HA054S2	Categories of Land
HA054S3	Categories of Land
HA054S4	Categories of Land
HA054S5	Categories of Land
HA058_1_	Rent Out Land
HA058_2_	Rent Out Land
HA058_3_	Rent Out Land
HA058_4_	Rent Out Land
HA060_1_	Income on Renting Out
HA060_2_	Income on Renting Out
HA060_3_	Income on Renting Out
HA060_4_	Income on Renting Out
HA064	Income for Renting Out Other Assets
HA064_1	Rent (Yuan)

## Wave 4:

A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FE001	How Many Months Did You Work in The Past Year
FG001_S1	Free Lunch
FG001_S10	Other Benefits not Mentioned Above
FG001_S11	None
FG001_S2	Free Breakfast
FG001_S3	Free Dinner
FG001_S4	Meal Cash Allowance
FG001_S5	Transportation Allowance
FG001_S6	Free Housing
FG001_S7	Housing Allowance
FG001_S8	Company Car
FG001_S9	Free Employee Shuttle
FG002_10_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_1_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_2_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_3_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_4_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_5_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_6_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_7_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_8_	Monetary Value of the Itemized Benefits per Month Corresponding
FG002_9_	Monetary Value of the Itemized Benefits per Month Corresponding
FN002_W4	Receive/Participate Government/Institutions/Firm Pension
FN002_W4_A_S1	Government Pension
FN002_W4_A_S2	Institutions Pension
FN002_W4_A_S3	Firm Pension
FN002_W4_A_S4	Don't Know the Type

FN002_W4_B_1_	Receive Government Pension
FN002_W4_B_2_	Receive Institutions Pension
FN002_W4_B_3_	Receive Firm Pension
FN002_W4_B_4_	Receive Government/Institutions/Firm Pension
FN003_W2_1_1_	Year of Receive Government Pension
FN003_W2_1_2_	Year of Receive Institutions Pension
FN003_W2_1_3_	Year of Receive Firm Pension
FN005_W2_1_	Monthly Pension of Government Pension
FN005_W2_2_	Monthly Pension of Institutions Pension
FN005_W2_3_	Monthly Pension of Firm Pension
FN005_W2_4_	Monthly Pension of Government/Institutions/Firm Pension
FN030_W4	Receive/Particate Supplemental Pension
FN031_W4	Currently Receiving the Supplemental Pension
FN041_W2_1	Year of Receive Pension
FN041_W2_2	Month of Receive Pension
FN042_W2	Monthly Benefits
FN043_W4	Receive/Particate in Commercial Pension
FN055_W2_1	The Year of You Started to Receive Pension
FN055_W2_2	The Month of You Started to Receive Pension
FN056_W2	Monthly Benefit
FN058_W4	Residents/Newrural/Urban Residents Pension
FN058_W4_A	Which Pension
FN058_W4_B	Currently Receiving the Pension
FN067_W2_1	Year of Receive Pension
FN067_W2_2	Month of Receive Pension
FN068_W2	Monthly Pension
FN079_W2_10_1	Year of Receive Pension
FN079_W2_10_2	Month of Receive Pension
FN079_W2_11	Monthly Pension
FN079_W2_3	Particate in Land Expropriation Pension Insurance
FN083_W2	Other Pension Program
FN084_W4	Receive Pension
FN095_W2_1	The Year of Receive Pension
FN095_W2_2	The Month of Receive Pension
FN096_W2	Monthly Pension
GA001	Receive Wage and Bonus Income
GA002	How Much Receive
GA002_W2_1	Exclude Insurance and Some Others
GA002_W2_2	Total Excluded Amount
GA002_W2_2A	Yuan/Year
GA002_W2_2B	Yuan/Month
GA002_W2_2C	Percent of Wage
GA003_W4_1	Pension Amount
GA003_W4_2	Unemployment Compensation Amount
GA003_W4_3	Pension Voucher Amount
GA003_W4_4	Pension Subsidy for the Oldest Old Amount
GA003_W4_5	Workers' Industrial Accident Compensation Amount
GA003_W4_6	Elderly Family Planning Subsidy Amount
GA003_W4_7	Medical Aid Amount
GA003_W4_8	Other Government Subsidy Amount
GA003_W4_S1	Pension
GA003_W4_S10	None of the Above
GA003_W4_S2	Unemployment Compensation
GA003_W4_S3	Pension Voucher
GA003_W4_S4	Pension Subsidy for the Oldest Old
GA003_W4_S5	Workers' Industrial Accident Compensation
GA003_W4_S6	Elderly Family Planning Subsidy
GA003_W4_S7	Medical Aid
GA003_W4_S8	Other Government Subsidy
GA003_W4_S9	Other Income Source
GA005_10_	Wage and Bonus Income HHMemberName[10] Receive
GA005_11_	Wage and Bonus Income HHMemberName[11] Receive
GA005_12_	Wage and Bonus Income HHMemberName[12] Receive
GA005_1_	Wage and Bonus Income HHMemberName[1] Receive
GA005_2_	Wage and Bonus Income HHMemberName[2] Receive
GA005_3_	Wage and Bonus Income HHMemberName[3] Receive
GA005_4_	Wage and Bonus Income HHMemberName[4] Receive
GA005_5_	Wage and Bonus Income HHMemberName[5] Receive
GA005_6_	Wage and Bonus Income HHMemberName[6] Receive



GA005_7_	Wage and Bonus Income HHMemberName[7] Receive
GA005_8_	Wage and Bonus Income HHMemberName[8] Receive
GA005_9_	Wage and Bonus Income HHMemberName[9] Receive
GA006_W4_1_	Amount HHMemberName[1] Receive
GA006_W4_1_1_	Exclude Insurance and Some Others for HHMemberName[1]
GA006_W4_1_2_	Exclude Insurance and Some Others for HHMemberName[2]
GA006_W4_1_3_	Exclude Insurance and Some Others for HHMemberName[3]
GA006_W4_1_4_	Exclude Insurance and Some Others for HHMemberName[4]
GA006_W4_1_5_	Exclude Insurance and Some Others for HHMemberName[5]
GA006_W4_1_6_	Exclude Insurance and Some Others for HHMemberName[6]
GA006_W4_1_7_	Exclude Insurance and Some Others for HHMemberName[7]
GA006_W4_1_8_	Exclude Insurance and Some Others for HHMemberName[8]
GA006_W4_2A_1_	Yuan/Year for HHMemberName[1]
GA006_W4_2A_2_	Yuan/Year for HHMemberName[2]
GA006_W4_2A_3_	Yuan/Year for HHMemberName[3]
GA006_W4_2A_4_	Yuan/Year for HHMemberName[4]
GA006_W4_2A_5_	Yuan/Year for HHMemberName[5]
GA006_W4_2B_1_	Yuan/Month for HHMemberName[1]
GA006_W4_2B_2_	Yuan/Month for HHMemberName[2]
GA006_W4_2B_3_	Yuan/Month for HHMemberName[3]
GA006_W4_2B_4_	Yuan/Month for HHMemberName[4]
GA006_W4_2B_5_	Yuan/Month for HHMemberName[5]
GA006_W4_2B_6_	Yuan/Month for HHMemberName[6]
GA006_W4_2B_8_	Yuan/Month for HHMemberName[8]
GA006_W4_2C_1_	Percent of Wage for HHMemberName[1]
GA006_W4_2C_2_	Percent of Wage for HHMemberName[2]
GA006_W4_2C_3_	Percent of Wage for HHMemberName[3]
GA006_W4_2_	Amount HHMemberName[2] Receive
GA006_W4_2_1_	Total Excluded Amount for HHMemberName[1]
GA006_W4_2_2_	Total Excluded Amount for HHMemberName[2]
GA006_W4_2_3_	Total Excluded Amount for HHMemberName[3]
GA006_W4_2_4_	Total Excluded Amount for HHMemberName[4]
GA006_W4_2_5_	Total Excluded Amount for HHMemberName[5]
GA006_W4_2_6_	Total Excluded Amount for HHMemberName[6]
GA006_W4_2_7_	Total Excluded Amount for HHMemberName[7]
GA006_W4_2_8_	Total Excluded Amount for HHMemberName[8]
GA006_W4_3_	Amount HHMemberName[3] Receive
GA006_W4_4_	Amount HHMemberName[4] Receive
GA006_W4_5_	Amount HHMemberName[5] Receive
GA006_W4_6_	Amount HHMemberName[6] Receive
GA006_W4_7_	Amount HHMemberName[7] Receive
GA006_W4_8_	Amount HHMemberName[8] Receive
GA007_W4_10_S1	Pension HHMemberName[10] Receive
GA007_W4_10_S10	None of the Above HHMemberName[10] Receive
GA007_W4_10_S2	Unemployment Compensation HHMemberName[10] Receive
GA007_W4_10_S3	Pension Voucher HHMemberName[10] Receive
GA007_W4_10_S4	Pension Subsidy for the Oldest Old HHMemberName[10] Receive
GA007_W4_10_S5	Workers' Industrial Accident Compensation HHMemberName[10] Rece
GA007_W4_10_S6	Elderly Family Planning Subsidy HHMemberName[10] Receive
GA007_W4_10_S7	Medical Aid HHMemberName[10] Receive
GA007_W4_10_S8	Other Government Subsidy HHMemberName[10] Receive
GA007_W4_10_S9	Other Income Source HHMemberName[10] Receive
GA007_W4_11_S1	Pension HHMemberName[11] Receive
GA007_W4_11_S10	None of the Above HHMemberName[11] Receive
GA007_W4_11_S2	Unemployment Compensation HHMemberName[11] Receive
GA007_W4_11_S3	Pension Voucher HHMemberName[11] Receive
GA007_W4_11_S4	Pension Subsidy for the Oldest Old HHMemberName[11] Receive
GA007_W4_11_S5	Workers' Industrial Accident Compensation HHMemberName[11] Rece
GA007_W4_11_S6	Elderly Family Planning Subsidy HHMemberName[11] Receive
GA007_W4_11_S7	Medical Aid HHMemberName[11] Receive
GA007_W4_11_S8	Other Government Subsidy HHMemberName[11] Receive
GA007_W4_11_S9	Other Income Source HHMemberName[11] Receive
GA007_W4_12_S1	Pension HHMemberName[12] Receive
GA007_W4_12_S10	None of the Above HHMemberName[12] Receive
GA007_W4_12_S2	Unemployment Compensation HHMemberName[12] Receive
GA007_W4_12_S3	Pension Voucher HHMemberName[12] Receive
GA007_W4_12_S4	Pension Subsidy for the Oldest Old HHMemberName[12] Receive
GA007_W4_12_S5	Workers' Industrial Accident Compensation HHMemberName[12] Rece
GA007_W4_12_S6	Elderly Family Planning Subsidy HHMemberName[12] Receive

GA007_W4_12__S7	Medical Aid HHMemberName[12] Receive
GA007_W4_12__S8	Other Government Subsidy HHMemberName[12] Receive
GA007_W4_12__S9	Other Income Source HHMemberName[12] Receive
GA007_W4_1__1_	Pension Amount HHMemberName[1] Receive
GA007_W4_1__2_	Pension Amount HHMemberName[2] Receive
GA007_W4_1__3_	Pension Amount HHMemberName[3] Receive
GA007_W4_1__4_	Pension Amount HHMemberName[4] Receive
GA007_W4_1__5_	Pension Amount HHMemberName[5] Receive
GA007_W4_1__6_	Pension Amount HHMemberName[6] Receive
GA007_W4_1__7_	Pension Amount HHMemberName[7] Receive
GA007_W4_1__S1	Pension HHMemberName[1] Receive
GA007_W4_1__S10	None of the Above HHMemberName[1] Receive
GA007_W4_1__S2	Unemployment Compensation HHMemberName[1] Receive
GA007_W4_1__S3	Pension Voucher HHMemberName[1] Receive
GA007_W4_1__S4	Pension Subsidy for the Oldest Old HHMemberName[1] Receive
GA007_W4_1__S5	Workers' Industrial Accident Compensation HHMemberName[1] Recei
GA007_W4_1__S6	Elderly Family Planning Subsidy HHMemberName[1] Receive
GA007_W4_1__S7	Medical Aid HHMemberName[1] Receive
GA007_W4_1__S8	Other Government Subsidy HHMemberName[1] Receive
GA007_W4_1__S9	Other Income Source HHMemberName[1] Receive
GA007_W4_2__1_	Unemployment Compensation Amount HHMemberName[1] Receive
GA007_W4_2__2_	Unemployment Compensation Amount HHMemberName[2] Receive
GA007_W4_2__3_	Unemployment Compensation Amount HHMemberName[3] Receive
GA007_W4_2__S1	Pension HHMemberName[2] Receive
GA007_W4_2__S10	None of the Above HHMemberName[2] Receive
GA007_W4_2__S2	Unemployment Compensation HHMemberName[2] Receive
GA007_W4_2__S3	Pension Voucher HHMemberName[2] Receive
GA007_W4_2__S4	Pension Subsidy for the Oldest Old HHMemberName[2] Receive
GA007_W4_2__S5	Workers' Industrial Accident Compensation HHMemberName[2] Recei
GA007_W4_2__S6	Elderly Family Planning Subsidy HHMemberName[2] Receive
GA007_W4_2__S7	Medical Aid HHMemberName[2] Receive
GA007_W4_2__S8	Other Government Subsidy HHMemberName[2] Receive
GA007_W4_2__S9	Other Income Source HHMemberName[2] Receive
GA007_W4_3__1_	Pension Voucher Amount HHMemberName[1] Receive
GA007_W4_3__2_	Pension Voucher Amount HHMemberName[2] Receive
GA007_W4_3__S1	Pension HHMemberName[3] Receive
GA007_W4_3__S10	None of the Above HHMemberName[3] Receive
GA007_W4_3__S2	Unemployment Compensation HHMemberName[3] Receive
GA007_W4_3__S3	Pension Voucher HHMemberName[3] Receive
GA007_W4_3__S4	Pension Subsidy for the Oldest Old HHMemberName[3] Receive
GA007_W4_3__S5	Workers' Industrial Accident Compensation HHMemberName[3] Recei
GA007_W4_3__S6	Elderly Family Planning Subsidy HHMemberName[3] Receive
GA007_W4_3__S7	Medical Aid HHMemberName[3] Receive
GA007_W4_3__S8	Other Government Subsidy HHMemberName[3] Receive
GA007_W4_3__S9	Other Income Source HHMemberName[3] Receive
GA007_W4_4__1_	Pension Subsidy for the Oldest Old Amount HHMemberName[1] Recei
GA007_W4_4__2_	Pension Subsidy for the Oldest Old Amount HHMemberName[2] Recei
GA007_W4_4__3_	Pension Subsidy for the Oldest Old Amount HHMemberName[3] Recei
GA007_W4_4__4_	Pension Subsidy for the Oldest Old Amount HHMemberName[4] Recei
GA007_W4_4__S1	Pension HHMemberName[4] Receive
GA007_W4_4__S10	None of the Above HHMemberName[4] Receive
GA007_W4_4__S2	Unemployment Compensation HHMemberName[4] Receive
GA007_W4_4__S3	Pension Voucher HHMemberName[4] Receive
GA007_W4_4__S4	Pension Subsidy for the Oldest Old HHMemberName[4] Receive
GA007_W4_4__S5	Workers' Industrial Accident Compensation HHMemberName[4] Recei
GA007_W4_4__S6	Elderly Family Planning Subsidy HHMemberName[4] Receive
GA007_W4_4__S7	Medical Aid HHMemberName[4] Receive
GA007_W4_4__S8	Other Government Subsidy HHMemberName[4] Receive
GA007_W4_4__S9	Other Income Source HHMemberName[4] Receive
GA007_W4_5__1_	Workers' Industrial Accident Compensation Amount HHMemberName[1]
GA007_W4_5__2_	Workers' Industrial Accident Compensation Amount HHMemberName[2]
GA007_W4_5__3_	Workers' Industrial Accident Compensation Amount HHMemberName[3]
GA007_W4_5__4_	Workers' Industrial Accident Compensation Amount HHMemberName[4]
GA007_W4_5__S1	Pension HHMemberName[5] Receive
GA007_W4_5__S10	None of the Above HHMemberName[5] Receive
GA007_W4_5__S2	Unemployment Compensation HHMemberName[5] Receive
GA007_W4_5__S3	Pension Voucher HHMemberName[5] Receive
GA007_W4_5__S4	Pension Subsidy for the Oldest Old HHMemberName[5] Receive
GA007_W4_5__S5	Workers' Industrial Accident Compensation HHMemberName[5] Recei

GA007_W4_5_S6	Elderly Family Planning Subsidy HHMemberName[5] Receive
GA007_W4_5_S7	Medical Aid HHMemberName[5] Receive
GA007_W4_5_S8	Other Government Subsidy HHMemberName[5] Receive
GA007_W4_5_S9	Other Income Source HHMemberName[5] Receive
GA007_W4_6_1_	Elderly Family Planning Subsidy Amount HHMemberName[1] Receive
GA007_W4_6_2_	Elderly Family Planning Subsidy Amount HHMemberName[2] Receive
GA007_W4_6_3_	Elderly Family Planning Subsidy Amount HHMemberName[3] Receive
GA007_W4_6_S1	Pension HHMemberName[6] Receive
GA007_W4_6_S10	None of the Above HHMemberName[6] Receive
GA007_W4_6_S2	Unemployment Compensation HHMemberName[6] Receive
GA007_W4_6_S3	Pension Voucher HHMemberName[6] Receive
GA007_W4_6_S4	Pension Subsidy for the Oldest Old HHMemberName[6] Receive
GA007_W4_6_S5	Workers' Industrial Accident Compensation HHMemberName[6] Recei
GA007_W4_6_S6	Elderly Family Planning Subsidy HHMemberName[6] Receive
GA007_W4_6_S7	Medical Aid HHMemberName[6] Receive
GA007_W4_6_S8	Other Government Subsidy HHMemberName[6] Receive
GA007_W4_6_S9	Other Income Source HHMemberName[6] Receive
GA007_W4_7_1_	Medical Aid Amount HHMemberName[1] Receive
GA007_W4_7_2_	Medical Aid Amount HHMemberName[2] Receive
GA007_W4_7_3_	Medical Aid Amount HHMemberName[3] Receive
GA007_W4_7_4_	Medical Aid Amount HHMemberName[4] Receive
GA007_W4_7_5_	Medical Aid Amount HHMemberName[5] Receive
GA007_W4_7_S1	Pension HHMemberName[7] Receive
GA007_W4_7_S10	None of the Above HHMemberName[7] Receive
GA007_W4_7_S2	Unemployment Compensation HHMemberName[7] Receive
GA007_W4_7_S3	Pension Voucher HHMemberName[7] Receive
GA007_W4_7_S4	Pension Subsidy for the Oldest Old HHMemberName[7] Receive
GA007_W4_7_S5	Workers' Industrial Accident Compensation HHMemberName[7] Recei
GA007_W4_7_S6	Elderly Family Planning Subsidy HHMemberName[7] Receive
GA007_W4_7_S7	Medical Aid HHMemberName[7] Receive
GA007_W4_7_S8	Other Government Subsidy HHMemberName[7] Receive
GA007_W4_7_S9	Other Income Source HHMemberName[7] Receive
GA007_W4_8_1_	Other Government Subsidy Amount HHMemberName[1] Receive
GA007_W4_8_2_	Other Government Subsidy Amount HHMemberName[2] Receive
GA007_W4_8_3_	Other Government Subsidy Amount HHMemberName[3] Receive
GA007_W4_8_4_	Other Government Subsidy Amount HHMemberName[4] Receive
GA007_W4_8_5_	Other Government Subsidy Amount HHMemberName[5] Receive
GA007_W4_8_6_	Other Government Subsidy Amount HHMemberName[6] Receive
GA007_W4_8_S1	Pension HHMemberName[8] Receive
GA007_W4_8_S10	None of the Above HHMemberName[8] Receive
GA007_W4_8_S2	Unemployment Compensation HHMemberName[8] Receive
GA007_W4_8_S3	Pension Voucher HHMemberName[8] Receive
GA007_W4_8_S4	Pension Subsidy for the Oldest Old HHMemberName[8] Receive
GA007_W4_8_S5	Workers' Industrial Accident Compensation HHMemberName[8] Recei
GA007_W4_8_S6	Elderly Family Planning Subsidy HHMemberName[8] Receive
GA007_W4_8_S7	Medical Aid HHMemberName[8] Receive
GA007_W4_8_S8	Other Government Subsidy HHMemberName[8] Receive
GA007_W4_8_S9	Other Income Source HHMemberName[8] Receive
GA007_W4_9_S1	Pension HHMemberName[9] Receive
GA007_W4_9_S10	None of the Above HHMemberName[9] Receive
GA007_W4_9_S2	Unemployment Compensation HHMemberName[9] Receive
GA007_W4_9_S3	Pension Voucher HHMemberName[9] Receive
GA007_W4_9_S4	Pension Subsidy for the Oldest Old HHMemberName[9] Receive
GA007_W4_9_S5	Workers' Industrial Accident Compensation HHMemberName[9] Recei
GA007_W4_9_S6	Elderly Family Planning Subsidy HHMemberName[9] Receive
GA007_W4_9_S7	Medical Aid HHMemberName[9] Receive
GA007_W4_9_S8	Other Government Subsidy HHMemberName[9] Receive
GA007_W4_9_S9	Other Income Source HHMemberName[9] Receive
GB001_W4	Engage in Agricultural Work
GB003	Engage in Cropping or Forestry
GB005_1	Total Value of All Crops and Forestry
GB006	Total Cost of Producing Crops and Forestry
GB007	Grow Livestock or Aquatic Life
GB008	Current Value of All Livestock or Aquatic Life
GB009	Last Year Value of All Livestock or Aquatic Life
GB010	Cost of New Livestock and Aquatic Life in the Past Year
GB011_1	Value of All Livestock and Aquatic Life Sold or Consumed
GB012_1	Value of All Livestock Products Produced
GB013	Cost of Producing Livestock and Aquatic Life

GC001	Engage in Self-employed Activities
GC002	Number of Self-employed Activities
GC005_1_	Net Income from Activity[1]
GC005_2_	Net Income from Activity[2]
GC005_3_	Net Income from Activity[3]
GC005_4_	Net Income from Activity[4]
GD001_W4_1	Dibao Household
GD001_W4_3	Amount of Dibao Household Assistant
GD002_W4_1	Amount of Reforestation Subsidies
GD002_W4_10	Amount of Other Subsidies
GD002_W4_2	Amount of Agricultural Subsidies
GD002_W4_3	Amount of Wubaohu Subsidies
GD002_W4_4	Amount of Poor Household Subsidies
GD002_W4_5	Amount of Work Injury Subsidies
GD002_W4_6	Amount of Emergency or Disaster Relief
GD002_W4_7	Amount of Social Subsidies
GD002_W4_8	Amount of Compensation for Land Seizure
GD002_W4_9	Amount of Compensation to Pull Down House or Apartment
GD002_W4_S1	Receive Reforestation Subsidies
GD002_W4_S10	Receive Other Subsidies
GD002_W4_S11	None of the Above
GD002_W4_S2	Receive Agricultural Subsidies
GD002_W4_S3	Receive Wubaohu Subsidies
GD002_W4_S4	Receive Poor Household Subsidies
GD002_W4_S5	Receive Work Injury Subsidies
GD002_W4_S6	Receive Emergency or Disaster Relief
GD002_W4_S7	Receive Social Subsidies
GD002_W4_S8	Receive Compensation for Land Seizure
GD002_W4_S9	Receive Compensation to Pull Down House or Apartment
HA000_W4_0	Number of Houses
HA005_W4_1_	House[1] Rent Out
HA005_W4_2_	House[2] Rent Out
HA005_W4_3_	House[3] Rent Out
HA005_W4_4_	House[4] Rent Out
HA005_W4_5_	House[5] Rent Out
HA005_W4_6_	House[6] Rent Out
HA005_W4_7_	House[7] Rent Out
HA006_W4_1_	House[1]'s Rent
HA006_W4_2_	House[2]'s Rent
HA006_W4_3_	House[3]'s Rent
HA006_W4_4_	House[4]'s Rent
HA006_W4_5_	House[5]'s Rent
HA006_W4_7_	House[7]'s Rent
HA023_W4	The Number of Other/New Houses
HA039_W4_10_	House[10] Rent Out
HA039_W4_11_	House[11] Rent Out
HA039_W4_1_	House[1] Rent Out
HA039_W4_2_	House[2] Rent Out
HA039_W4_3_	House[3] Rent Out
HA039_W4_4_	House[4] Rent Out
HA039_W4_5_	House[5] Rent Out
HA039_W4_6_	House[6] Rent Out
HA039_W4_7_	House[7] Rent Out
HA039_W4_8_	House[8] Rent Out
HA039_W4_9_	House[9] Rent Out
HA040_W4_10_	House[10]'s Rent
HA040_W4_1_	House[1]'s Rent
HA040_W4_2_	House[2]'s Rent
HA040_W4_3_	House[3]'s Rent
HA040_W4_4_	House[4]'s Rent
HA040_W4_9_	House[9]'s Rent
HA054_S1	Cultivated Land
HA054_S2	Forest Land
HA054_S3	Pasture
HA054_S4	Pond
HA054_S5	None of the Above
HA058_1_	Rent Out for Land[1]
HA058_2_	Rent Out for Land[2]
HA058_3_	Rent Out for Land[3]

---

HA058_4_	Rent Out for Land[4]
HA060_1_	Rent Earned for Land[1]
HA060_2_	Rent Earned for Land[2]
HA060_3_	Rent Earned for Land[3]
HA060_4_	Rent Earned for Land[4]
HA064	Rental Income from Other Household Assets
HA064_1	Rental Income You Earn
IMONTH	Interview Month

**Household food consumption**

Wave	Variable	Label	Type
1	HH1CFOOD	hh1cfood:w1 HHold food consumption, past 7 days	Cont
2	HH2CFOOD	hh2cfood:w2 HHold food consumption, past 7 days	Cont
3	HH3CFOOD	hh3cfood:w3 HHold food consumption, past 7 days	Cont
4	HH4CFOOD	hh4cfood:w4 HHold food consumption, past 7 days	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CFOOD	16478	233.00	1612.04	0.00	144000.00
HH2CFOOD	14318	347.41	600.58	0.00	21000.00
HH3CFOOD	16477	414.68	1374.69	0.00	100615.00
HH4CFOOD	18527	416.78	696.46	0.00	35000.00

**General Comments:**

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

**How Constructed:**

HHwCFOOD is the total household food expenditures in last week.

This measure is comprised of three types of food expenditures:

1. Purchased food and food eaten from own production
2. Meals eaten out
3. Alcohol and cigarettes/tobacco

The financial respondent reports all household living expenditure, including the expenditure from all other household members. If someone attends school or work outside and comes home almost every week, their expenditures are included. However, if someone attends school or work outside but not come home every week, their expenditures are excluded.

Don't know, refused, or other missing responses of HHwCFOOD are assigned special missing codes .d, .r, .m respectively. HHwCFOOD is set to plain missing (.) for respondents who did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Wave 1 CHARLS asked the total amount of purchased food and food eaten from own production in the same question. Starting at Wave 2 CHARLS asks the amount of purchased food and food eaten from own production in two separate questions.

In the current release of the CHARLS data there is a high number of households with incomplete information for the Household Living Expenditure section in the Wave 2, Wave 3, and Wave 4 Household Income files.

**Differences with the RAND HRS/Harmonized HRS**

This measure is not available in RAND HRS.

**CHARLS Variables Used:**

Wave	Variable	Label
1:	GE006	EXPENDITURE ON FOOD
	GE007	EXPENDITURE ON FOOD
	GE008	EXPENDITURE ON FOOD

## Wave 2:

GE006	Expenditure on Food
GE006_W2	Produce Agricultural Products by Yourself
GE006_W2_1	Value of Self-Consumed Products
GE007	Expenditure on Eating Out
GE008	Expenditure on Alcohol, Tobacco

## Wave 3:

GE006	Expenditure on Food
GE006_W2_1	Value of Self-consumed Products
GE007	Expenditure on Eating Out
GE008	Expenditure on Alcohol, Tobacco

## Wave 4:

GE006_W2	Produce Agricultural Products Yourself
GE006_W2_1	Market Value of Agricultural Products
GE006_W4	Food Expenditure, Excluding Somethings
GE007_W4	Eating Out
GE008	Alcohol, Cigarettes, Cigars and Tobacco

<b>Household non-food consumption in last month</b>
---

Wave	Variable	Label	Type
1	HH1CNF1M	hh1cnf1m:w1 HHold non-food consumption, last month	Cont
2	HH2CNF1M	hh2cnf1m:w2 HHold non-food consumption, last month	Cont
3	HH3CNF1M	hh3cnf1m:w3 HHold non-food consumption, last month	Cont
4	HH4CNF1M	hh4cnf1m:w4 HHold non-food consumption, last month	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CNF1M	16193	294.44	374.06	0.00	7350.00
HH2CNF1M	15147	417.43	788.86	0.00	43300.00
HH3CNF1M	17446	460.22	711.53	0.00	29110.00
HH4CNF1M	17879	600.20	4416.15	0.00	401050.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

HHwCNF1M is the total household non-food expenditures in last month.

This measure is comprised of seven types of expenditures:

1. Communication fee including post, Internet usage, telephone and cell phone usage
2. Utilities including water and electricity
3. Fuels including gas, coal
4. Fees for housekeeper, matron and servants
5. Local transportation
6. Household items and personal daily toiletries plus beauty treatments
7. Entertainment including fees to buy books, newspaper, etc.

Don't know, refused, or other missing responses of HHwCNF1M are assigned special missing codes .d, .r, .m respectively. HHwCNF1M is set to plain missing (.) for respondents who did not respond to this wave.

### Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with incomplete information for the Household Living Expenditure section in the Wave 2, Wave 3, and Wave 4 Household Income files.

### Differences with the RAND HRS/Harmonized HRS

This measure is not available in RAND HRS.

### CHARLS Variables Used:

Wave 1:

GE009_1	COMMUNICATION FEES
GE009_2	UTILITIES
GE009_3	FUELS
GE009_4	FEES FOR MATRON



GE009_5	LOCAL TRANSPORTATION
GE009_6	HOUSEHOLD ITEMS AND PERSONAL TOILETRIES
GE009_7	ENTERTAINMENT
Wave 2:	
GE009_1	Expenditure on Communication
GE009_2	Expenditure on Utilities
GE009_3	Expenditure on Fuels
GE009_4	Expenditure on Servants
GE009_5	Expenditure on Transportation
GE009_6	Expenditure on Daily Items
GE009_7	Expenditure on Entertainment
Wave 3:	
GE009_1	Expenditure on Communication
GE009_2	Expenditure on Utilities
GE009_3	Expenditure on Fuels
GE009_4	Expenditure on Servants
GE009_5	Expenditure on Transportation
GE009_6	Expenditure on Daily Items
GE009_7	Expenditure on Entertainment
Wave 4:	
GE009_1	Communication Fees
GE009_2	Utilities
GE009_3	Fuels
GE009_4	Fees for Matron, Housekeepers and Servants
GE009_5	Local Transportation
GE009_6	Household Items and Personal Toiletries
GE009_7	Entertainment

**Household other non-food consumption in last year**

Wave	Variable	Label	Type
1	HH1CNF1Y	hh1cnfly:w1 HHold other non-food consumption, past year	Cont
2	HH2CNF1Y	hh2cnfly:w2 HHold other non-food consumption, past year	Cont
3	HH3CNF1Y	hh3cnfly:w3 HHold other non-food consumption, past year	Cont
4	HH4CNF1Y	hh4cnfly:w4 HHold other non-food consumption, past year	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CNF1Y	15755	9334.34	24799.66	0.00	965000.00
HH2CNF1Y	15068	12287.14	26939.08	0.00	517000.00
HH3CNF1Y	17583	15188.26	45638.06	0.00	2320000.00
HH4CNF1Y	17928	19353.45	51821.66	0.00	2000880.00

**General Comments:**

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

**How Constructed:**

HHwCNF1Y is the total of other non-food expenditures in last year at the household level.

At Wave 1 respondents are asked about thirteen types of expenditures:

1. Clothing and bedding
2. Long distance traveling expenses
3. Heating (centrally heated)
4. Furniture and consumption of durable goods
5. Education and training
6. Medical expenditure
7. Fitness expenditures
8. Beauty expenditure including make-up, facial, and massages
9. Purchase, maintenance and repair of transportation vehicle and communication products, etc.
10. Automobiles
11. Electronics (laptops, computers, etc.)
12. Property management fees
13. Donations to the society including cash, and items like food, clothing, etc.

At Waves 2 and 3, respondents are asked about twelve types of expenditures:

1. Clothing and bedding
2. Long distance traveling expenses
3. Heating (centrally heated)
4. Furniture, consumption of durable goods and electronics

5. Education and training
6. Medical expenditure
7. Fitness expenditures
8. Beauty expenditure including make-up, facials, and massages
9. Automobiles
10. Purchase, maintenance and repair of transportation vehicle and communication products, etc.
11. Property management fees
12. Donations to the society including cash, and items like food, clothing, etc.

Starting at Wave 4, respondents are asked about fourteen types of expenditures:

1. Clothing and bedding
2. Long distance traveling expenses
3. Heating (centrally heated)
4. Furniture, consumption of durable goods and electronics
5. Education and training
6. Medical expenses
7. Fitness expenditures
8. Beauty expenditure including make-up, facials, and massages
9. Automobiles
10. Purchase, maintenance and repair of transportation vehicle and communication products, etc.
11. Property management fees
12. Donations to the society including cash, and items like food, clothing, etc.
13. Accommodation expenses for household members including the rent of the house or bed, etc.
14. Expenses for setting and holding banquets

Don't know, refused, or other missing responses of HHwCNFLY are assigned special missing codes .d, .r, .m respectively. HHwCNFLY is set to plain missing (.) for respondents who did not respond to this wave.

### **Cross Wave Differences in CHARLS**

Wave 1 includes a separate question about electronics but starting at Wave 2, electronics are included with furniture and consumption of durable goods.

Starting at Wave 4, respondents are asked about accommodation expenses for household members and expenses for setting and holding banquets.

In the current release of the CHARLS data there is a high number of households with incomplete information for the Household Living Expenditure section in the Wave 2, Wave 3, and Wave 4 Household Income files.

### **Differences with the RAND HRS/Harmonized HRS**

This measure is not available in RAND HRS.

**CHARLS Variables Used:**

## Wave 1:

GE010_1	CLOTHING AND BEDDING
GE010_10	Medical expenditure
GE010_11	Automobiles
GE010_13	Property management fees (including parking fee)
GE010_14	Property management fees (including parking fee)
GE010_2	LONG DISTANCE TRAVELING EXPENSES
GE010_3	HEATING
GE010_4	Furniture
GE010_5	FITNESS EXPENDITURES
GE010_6	Beauty (including make-ups, facials, massages, etc.)
GE010_7	MAINTENANCE AND REPAIR
GE010_9	Education and training(including tuition, training fees, etc.)

## Wave 2:

GE010_1	Expenditure on Clothing and Bedding
GE010_10	Expenditure on Purchase, Maintenance and Repair
GE010_11	Property Management Fees
GE010_12	Taxes and Fees
GE010_13	Donations to The Society
GE010_2	Expenditure on Travel
GE010_3	Expenditure on Central Heating
GE010_4	Expenditure on Durable Goods
GE010_5	Expenditure on Education and Training
GE010_6	Medical Expenditure
GE010_7	Expenditure on Fitness
GE010_9	Expenditure on Automobiles

## Wave 3:

GE010_1	Expenditure on Clothing and Bedding
GE010_10	Expenditure on Purchase, maintenance and repair
GE010_11	Property Management Fees
GE010_13	Donations to The society
GE010_2	Expenditure on Travel
GE010_3	Expenditure on Central Heating
GE010_4	Expenditure on Durable Goods
GE010_5	Expenditure on Education and Training
GE010_6	Medical Expenditure
GE010_7	Expenditure on Fitness
GE010_8	Expenditure on Beauty
GE010_9	Expenditure on Automobiles

## Wave 4:

GE010_1	Clothing and Bedding
GE010_10	Purchase, Maintenance and Repair
GE010_11	Property Management Fees
GE010_13	Donations
GE010_14	Rent
GE010_15	Banquet and Wedding Expenditure
GE010_2	Traveling Expenses
GE010_3	Heating
GE010_4	Furniture, Durable Goods and Electronics
GE010_5	Education and Training
GE010_6	Medical Expenditure
GE010_7	Fitness Expenditures
GE010_8	Beauty
GE010_9	Automobiles

<b>Total household consumption</b>
------------------------------------

Wave	Variable	Label	Type
1	HH1CTOT	hh1ctot:w1 total household consumption	Cont
2	HH2CTOT	hh2ctot:w2 total household consumption	Cont
3	HH3CTOT	hh3ctot:w3 total household consumption	Cont
4	HH4CTOT	hh4ctot:w4 total household consumption	Cont
1	HH1CPERC	hh1cperc:w1 total household per capita consumption	Cont
2	HH2CPERC	hh2cperc:w2 total household per capita consumption	Cont
3	HH3CPERC	hh3cperc:w3 total household per capita consumption	Cont
4	HH4CPERC	hh4cperc:w4 total household per capita consumption	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CTOT	14769	24997.32	93203.69	0.00	7499988.00
HH2CTOT	12187	35814.18	48839.05	0.00	1097540.00
HH3CTOT	14256	43123.04	95397.40	0.00	5250600.00
HH4CTOT	16491	48296.68	90706.53	0.00	4849548.00
HH1CPERC	14769	7782.03	20266.19	0.00	1499997.63
HH2CPERC	12187	11183.88	14291.68	0.00	302196.00
HH3CPERC	14256	15176.40	29422.63	0.00	1312650.00
HH4CPERC	16491	18666.88	30548.18	0.00	1212387.00

### General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

### How Constructed:

HHwCTOT is the amount of total household consumption as aggregated from all consumption activities: food consumption in last week, non-food in the past 30 days, and other non-food consumption in the past year. This variable is calculated as annual expenditures.

The total household consumption HHwCTOT = sum of (HHwCFOOD \*52, HHwCNF30 \*12, HHwCNF12)

HHwCPERC is the per capita household consumption. This variable is calculated by taking total household consumption divided by the number of people in the household; that is,

HHwCPERC = HHwCTOT / HwHHRES

### Cross Wave Differences in CHARLS

Please refer to "Cross Wave Differences in CHARLS" section of each component to identify cross-wave differences.

### Differences with the RAND HRS/Harmonized HRS

These measures are not available in RAND HRS.

### CHARLS Variables Used:

Wave	Variable	Description
1:	GE006	EXPENDITURE ON FOOD
	GE007	EXPENDITURE ON FOOD
	GE008	EXPENDITURE ON FOOD
	GE009_1	COMMUNICATION FEES
	GE009_2	UTILITIES
	GE009_3	FUELS

GE009_4	FEES FOR MATRON
GE009_5	LOCAL TRANSPORTATION
GE009_6	HOUSEHOLD ITEMS AND PERSONAL TOILETRIES
GE009_7	ENTERTAINMENT
GE010_1	CLOTHING AND BEDDING
GE010_10	Medical expenditure
GE010_11	Automobiles
GE010_13	Property management fees (including parking fee)
GE010_14	Property management fees (including parking fee)
GE010_2	LONG DISTANCE TRAVELING EXPENSES
GE010_3	HEATING
GE010_4	Furniture
GE010_5	FITNESS EXPENDITURES
GE010_6	Beauty (including make-ups, facials, massages, etc.)
GE010_7	MAINTENANCE AND REPAIR
GE010_9	Education and training(including tuition, training fees, etc.)
Wave 2:	
GE006	Expenditure on Food
GE006_W2	Produce Agricultural Products by Yourself
GE006_W2_1	Value of Self-Consumed Products
GE007	Expenditure on Eating Out
GE008	Expenditure on Alcohol, Tobacco
GE009_1	Expenditure on Communication
GE009_2	Expenditure on Utilities
GE009_3	Expenditure on Fuels
GE009_4	Expenditure on Servants
GE009_5	Expenditure on Transportation
GE009_6	Expenditure on Daily Items
GE009_7	Expenditure on Entertainment
GE010_1	Expenditure on Clothing and Bedding
GE010_10	Expenditure on Purchase, Maintenance and Repair
GE010_11	Property Management Fees
GE010_12	Taxes and Fees
GE010_13	Donations to The Society
GE010_2	Expenditure on Travel
GE010_3	Expenditure on Central Heating
GE010_4	Expenditure on Durable Goods
GE010_5	Expenditure on Education and Training
GE010_6	Medical Expenditure
GE010_7	Expenditure on Fitness
GE010_9	Expenditure on Automobiles
Wave 3:	
GE006	Expenditure on Food
GE006_W2_1	Value of Self-consumed Products
GE007	Expenditure on Eating Out
GE008	Expenditure on Alcohol, Tobacco
GE009_1	Expenditure on Communication
GE009_2	Expenditure on Utilities
GE009_3	Expenditure on Fuels
GE009_4	Expenditure on Servants
GE009_5	Expenditure on Transportation
GE009_6	Expenditure on Daily Items
GE009_7	Expenditure on Entertainment
GE010_1	Expenditure on Clothing and Bedding
GE010_10	Expenditure on Purchase, maintenance and repair
GE010_11	Property Management Fees
GE010_13	Donations to The society
GE010_2	Expenditure on Travel
GE010_3	Expenditure on Central Heating
GE010_4	Expenditure on Durable Goods
GE010_5	Expenditure on Education and Training
GE010_6	Medical Expenditure
GE010_7	Expenditure on Fitness
GE010_8	Expenditure on Beauty
GE010_9	Expenditure on Automobiles
Wave 4:	
GE006_W2	Produce Agricultural Products Yourself
GE006_W2_1	Market Value of Agricultural Products
GE006_W4	Food Expenditure, Excluding Somethings

---

GE007_W4	Eating Out
GE008	Alcohol, Cigarettes, Cigars and Tobacco
GE009_1	Communication Fees
GE009_2	Utilities
GE009_3	Fuels
GE009_4	Fees for Matron, Housekeepers and Servants
GE009_5	Local Transportation
GE009_6	Household Items and Personal Toiletries
GE009_7	Entertainment
GE010_1	Clothing and Bedding
GE010_10	Purchase, Maintenance and Repair
GE010_11	Property Management Fees
GE010_12	Taxes and Fees
GE010_13	Donations
GE010_14	Rent
GE010_15	Banquet and Wedding Expenditure
GE010_2	Traveling Expenses
GE010_3	Heating
GE010_4	Furniture, Durable Goods and Electronics
GE010_5	Education and Training
GE010_6	Medical Expenditure
GE010_7	Fitness Expenditures
GE010_8	Beauty
GE010_9	Automobiles

## **Section G: Family Structure**



**Number of People Living in Household**

Wave	Variable	Label	Type
1	H1HHRES	hlhhres:w1 number of people living in this household	Cont
2	H2HHRES	h2hhres:w2 number of people living in this household	Cont
3	H3HHRES	h3hhres:w3 number of people living in this household	Cont
4	H4HHRES	h4hhres:w4 number of people living in this household	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1HHRES	17708	3.59	1.80	1.00	16.00
H2HHRES	18612	3.62	1.81	1.00	15.00
H3HHRES	21097	3.06	1.32	1.00	15.00
H4HHRES	19816	2.80	1.46	1.00	13.00

**How Constructed:**

HwHHRES is the number of people co-residing with the respondent and spouse, including the respondent and spouse.

At Wave 1, the number of co-resident people is obtained by counting the people identified in the household roster and adding the family respondent and their spouse, if applicable.

At Wave 2, the number of co-resident people is obtained in one of two ways. The first way this is obtained is from the Listed Household Members subsection, in which respondents are asked to confirm the names of all household members either based on the previous interview, or if a new household, based on the cover screen. The respondent is then asked to add additional household members that were not mentioned at the previous interview. The second way this is obtained is from the Other Household Members subsection, in which the respondent is asked about all household members excluding the respondent, spouse, parents/parents-in-law, and children. The number of people co-residing with the respondent and spouse is based on the larger value from these two modules plus the respondent and their spouse, if applicable.

At Wave 3, calculating household size includes accounting for the respondent, spouse, parents (including biological parents, stepparents, and adoptive parents), parents-in-law, children, siblings, siblings-in-law, and other household members. The Household Members subsection asks family respondents to specify which parent, child, sibling, or other person resides in their household. For each parent, child, sibling, and other person, H3HHRES is increased by one if the respondent reports that the person is a household member or the respondent reports that a parent or child normally lives in their household. The latter reporting may be derived from the Parent, Childrearing, and Sibling Information subsections or the Time Transfer and Transfers subsection. If the number of respondents in the Harmonized CHARLS variable H3HHRESP is 2, 2 is added to H3HHRES. Otherwise, 1 is added to the household size.

At Wave 4, calculating household size includes accounting for the family respondent, spouse, parents (including biological parents and adoptive parents), parents-in-law, children, siblings, siblings-in-law, and other household members. The Household Member Information subsection asks family respondents to specify which parent, child, sibling, or other person resides in their household. For each parent, child, sibling and other person, H4HHRES is increased by one if the respondent reports that the person is a household member. If the number of respondents in the Harmonized CHARLS variable H4HHRESP is 2, 2 is added to H4HHRES. Otherwise, 1 is added to the household size.

**Cross Wave Differences in CHARLS**

At Wave 1, the number of co-resident people is obtained by counting the people identified in the household roster and adding the family respondent and their spouse, if applicable.

At Wave 2, the number of co-resident people is obtained in one of two ways. The first way this is obtained is from the Listed Household Members subsection, in which respondents are asked to confirm the names of all household members either based on the previous interview, or if a new household, based on the cover screen. The respondent is then asked to add additional household members that were not mentioned at the previous interview. The second way this is obtained is from the Other

Household Members subsection, in which the respondent is asked about all household members excluding the respondent, spouse, parents/parents-in-law, and children. The number of people co-residing with the respondent and spouse is based on the larger value from these two modules plus the respondent and their spouse, if applicable.

At Wave 3, calculating household size includes accounting for the respondent, spouse, parents (including biological parents, stepparents, and adoptive parents), parents-in-law, children, siblings, siblings-in-law, and other household members. The Household Members subsection asks family respondents to specify which parent, child, sibling, or other person resides in their household. For each parent, child, sibling, and other person, H3HHRES is increased by one if the respondent reports that the person is a household member or the respondent reports that a parent or child normally lives in their household. The latter reporting may be derived from the Parent, Childrearing, and Sibling Information subsections or the Time Transfer and Transfers subsection. If the number of respondents in the Harmonized CHARLS variable H3HHRESP is 2, 2 is added to H3HHRES. Otherwise, 1 is added to the household size.

At Wave 4, calculating household size includes accounting for the family respondent, spouse, parents (including biological parents and adoptive parents), parents-in-law, children, siblings, siblings-in-law, and other household members. The Household Member Information subsection asks family respondents to specify which parent, child, sibling, or other person resides in their household. For each parent, child, sibling and other person, H4HHRES is increased by one if the respondent reports that the person is a household member. If the number of respondents in the Harmonized CHARLS variable H4HHRESP is 2, 2 is added to H4HHRES. Otherwise, 1 is added to the household size.

### Differences with the RAND HRS/Harmonized HRS

No difference known.

### CHARLS Variables Used:

Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
A016_10_	Whether One or More Months Away
A016_11_	Whether One or More Months Away
A016_12_	Whether One or More Months Away

A016_13_	Whether One or More Months Away
A016_14_	Whether One or More Months Away
A016_15_	Whether One or More Months Away
A016_16_	Whether One or More Months Away
A016_1_	Whether One or More Months Away
A016_2_	Whether One or More Months Away
A016_3_	Whether One or More Months Away
A016_5_	Whether One or More Months Away
A016_6_	Whether One or More Months Away
A016_7_	Whether One or More Months Away
A016_8_	Whether One or More Months Away
A016_9_	Whether One or More Months Away
A017_10_	How Many Months
A017_11_	How Many Months
A017_12_	How Many Months
A017_13_	How Many Months
A017_14_	How Many Months
A017_15_	How Many Months
A017_1_	How Many Months
A017_2_	How Many Months
A017_3_	How Many Months
A017_4_	How Many Months
A017_5_	How Many Months
A017_6_	How Many Months
A017_7_	How Many Months
A017_8_	How Many Months
A017_9_	How Many Months
Wave 2:	
A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CM001_W2_1S1	Household Member List Confirm
CM001_W2_1S10	Household Member List Confirm
CM001_W2_1S11	Household Member List Confirm
CM001_W2_1S12	Household Member List Confirm
CM001_W2_1S13	Household Member List Confirm
CM001_W2_1S14	Household Member List Confirm
CM001_W2_1S15	Household Member List Confirm
CM001_W2_1S16	Household Member List Confirm
CM001_W2_1S17	Household Member List Confirm
CM001_W2_1S18	Household Member List Confirm
CM001_W2_1S19	Household Member List Confirm
CM001_W2_1S2	Household Member List Confirm
CM001_W2_1S20	Household Member List Confirm

CM001_W2_1S21	Household Member List Confirm
CM001_W2_1S22	Household Member List Confirm
CM001_W2_1S23	Household Member List Confirm
CM001_W2_1S24	Household Member List Confirm
CM001_W2_1S25	Household Member List Confirm
CM001_W2_1S3	Household Member List Confirm
CM001_W2_1S4	Household Member List Confirm
CM001_W2_1S5	Household Member List Confirm
CM001_W2_1S6	Household Member List Confirm
CM001_W2_1S7	Household Member List Confirm
CM001_W2_1S8	Household Member List Confirm
CM001_W2_1S9	Household Member List Confirm
CM002_W2_1_10_	Is There Any Household Member
CM002_W2_1_1_	Is There Any Household Member
CM002_W2_1_2_	Is There Any Household Member
CM002_W2_1_3_	Is There Any Household Member
CM002_W2_1_4_	Is There Any Household Member
CM002_W2_1_5_	Is There Any Household Member
CM002_W2_1_6_	Is There Any Household Member
CM002_W2_1_7_	Is There Any Household Member
CM002_W2_1_8_	Is There Any Household Member
CM002_W2_1_9_	Is There Any Household Member
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member

## Wave 3:

A001_W3S1	Whom do You Live Together
A001_W3S2	Whom do You Live Together
A001_W3S3	Whom do You Live Together
A001_W3S4	Whom do You Live Together
A001_W3S5	Whom do You Live Together
A001_W3S6	Whom do You Live Together
A001_W3_0S1	Which Parents
A001_W3_0S10	Which Parents
A001_W3_0S11	Which Parents
A001_W3_0S12	Which Parents
A001_W3_0S2	Which Parents
A001_W3_0S3	Which Parents
A001_W3_0S4	Which Parents
A001_W3_0S5	Which Parents
A001_W3_0S6	Which Parents
A001_W3_0S7	Which Parents
A001_W3_0S8	Which Parents
A001_W3_0S9	Which Parents
A001_W3_1S1	Which Children
A001_W3_1S10	Which Children
A001_W3_1S11	Which Children
A001_W3_1S12	Which Children
A001_W3_1S13	Which Children
A001_W3_1S14	Which Children
A001_W3_1S15	Which Children
A001_W3_1S16	Which Children
A001_W3_1S17	Which Children
A001_W3_1S18	Which Children
A001_W3_1S19	Which Children
A001_W3_1S2	Which Children
A001_W3_1S20	Which Children
A001_W3_1S21	Which Children

A001_W3_1S22	Which Children
A001_W3_1S23	Which Children
A001_W3_1S24	Which Children
A001_W3_1S25	Which Children
A001_W3_1S3	Which Children
A001_W3_1S4	Which Children
A001_W3_1S5	Which Children
A001_W3_1S6	Which Children
A001_W3_1S7	Which Children
A001_W3_1S8	Which Children
A001_W3_1S9	Which Children
A001_W3_2S1	Which Siblings
A001_W3_2S10	Which Siblings
A001_W3_2S11	Which Siblings
A001_W3_2S12	Which Siblings
A001_W3_2S13	Which Siblings
A001_W3_2S14	Which Siblings
A001_W3_2S15	Which Siblings
A001_W3_2S2	Which Siblings
A001_W3_2S3	Which Siblings
A001_W3_2S4	Which Siblings
A001_W3_2S5	Which Siblings
A001_W3_2S6	Which Siblings
A001_W3_2S7	Which Siblings
A001_W3_2S8	Which Siblings
A001_W3_2S9	Which Siblings
A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member
A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
CA016_10_	The Place Where Spouse's Stepmother Normally Live
CA016_11_	The Place Where Spouse's Adopted Father Normally Live
CA016_12_	The Place Where Spouse's Adopted Mother Normally Live
CA016_1_	The Place Where R's Biological Father Normally Live
CA016_2_	The Place Where R's Biological Mother Normally Live
CA016_3_	The Place Where R's Stepfather Normally Live
CA016_4_	The Place Where R's Stepmother Normally Live
CA016_5_	The Place Where R's Adopted Father Normally Live
CA016_6_	The Place Where R's Adopted Mother Normally Live
CA016_7_	The Place Where Spouse's Biological Father Normally Live
CA016_8_	The Place Where Spouse's Biological Mother Normally Live
CA016_9_	The Place Where Spouse's Stepfather Normally Live
CB053_10_	The Nomral Address Of R's No.10 Living Child
CB053_11_	The Nomral Address Of R's No.11 Living Child
CB053_12_	The Nomral Address Of R's No.12 Living Child
CB053_13_	The Nomral Address Of R's No.13 Living Child
CB053_14_	The Nomral Address Of R's No.14 Living Child
CB053_15_	The Nomral Address Of R's No.15 Living Child
CB053_16_	The Nomral Address Of R's No.16 Living Child
CB053_1_	The Nomral Address Of R's No.1 Living Child
CB053_2_	The Nomral Address Of R's No.2 Living Child
CB053_3_	The Nomral Address Of R's No.3 Living Child
CB053_4_	The Nomral Address Of R's No.4 Living Child

CB053_5_	The Nomral Address Of R's No.5 Living Child
CB053_6_	The Nomral Address Of R's No.6 Living Child
CB053_7_	The Nomral Address Of R's No.7 Living Child
CB053_8_	The Nomral Address Of R's No.8 Living Child
CB053_9_	The Nomral Address Of R's No.9 Living Child
CD001_10_S3	Whom Does R's Stepfather Live With
CD001_11_S3	Whom Does R's Stepfather Live With
CD001_12_S3	Whom Does R's Stepfather Live With
CD001_1_S3	Whom Does R's Stepfather Live With
CD001_2_S3	Whom Does R's Stepfather Live With
CD001_3_S3	Whom Does R's Stepfather Live With
CD001_4_S3	Whom Does R's Stepfather Live With
CD001_5_S3	Whom Does R's Stepfather Live With
CD001_6_S3	Whom Does R's Stepfather Live With
CD001_7_S3	Whom Does R's Stepfather Live With
CD001_8_S3	Whom Does R's Stepfather Live With
CD001_9_S3	Whom Does R's Stepfather Live With

## Wave 4:

A001_W4_S1	Select Household Member from List
A001_W4_S10	Select Household Member from List
A001_W4_S11	Select Household Member from List
A001_W4_S12	Select Household Member from List
A001_W4_S13	Select Household Member from List
A001_W4_S14	Select Household Member from List
A001_W4_S15	Select Household Member from List
A001_W4_S16	Select Household Member from List
A001_W4_S17	Select Household Member from List
A001_W4_S18	Select Household Member from List
A001_W4_S19	Select Household Member from List
A001_W4_S2	Select Household Member from List
A001_W4_S20	Select Household Member from List
A001_W4_S21	Select Household Member from List
A001_W4_S22	Select Household Member from List
A001_W4_S23	Select Household Member from List
A001_W4_S24	Select Household Member from List
A001_W4_S25	Select Household Member from List
A001_W4_S26	Select Household Member from List
A001_W4_S27	Select Household Member from List
A001_W4_S28	Select Household Member from List
A001_W4_S29	Select Household Member from List
A001_W4_S3	Select Household Member from List
A001_W4_S30	Select Household Member from List
A001_W4_S31	Select Household Member from List
A001_W4_S32	Select Household Member from List
A001_W4_S33	Select Household Member from List
A001_W4_S34	Select Household Member from List
A001_W4_S35	Select Household Member from List
A001_W4_S36	Select Household Member from List
A001_W4_S37	Select Household Member from List
A001_W4_S38	Select Household Member from List
A001_W4_S39	Select Household Member from List
A001_W4_S4	Select Household Member from List
A001_W4_S40	Select Household Member from List
A001_W4_S41	Select Household Member from List
A001_W4_S42	Select Household Member from List
A001_W4_S43	Select Household Member from List
A001_W4_S44	Select Household Member from List
A001_W4_S45	Select Household Member from List
A001_W4_S46	Select Household Member from List
A001_W4_S47	Select Household Member from List
A001_W4_S48	Select Household Member from List
A001_W4_S49	Select Household Member from List
A001_W4_S5	Select Household Member from List
A001_W4_S50	Select Household Member from List
A001_W4_S51	Select Household Member from List
A001_W4_S52	Select Household Member from List
A001_W4_S53	Select Household Member from List
A001_W4_S54	Select Household Member from List
A001_W4_S6	Select Household Member from List

---

A001_W4_S7	Select Household Member from List
A001_W4_S8	Select Household Member from List
A001_W4_S9	Select Household Member from List
A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship

<b>Number of Living Children</b>
----------------------------------

Wave	Variable	Label	Type
1	H1SON	h1son:w1 number of living sons	Cont
2	H2SON	h2son:w2 number of living sons	Cont
3	H3SON	h3son:w3 number of living sons	Cont
4	H4SON	h4son:w4 number of living sons	Cont
1	H1DAU	h1dau:w1 number of living daughters	Cont
2	H2DAU	h2dau:w2 number of living daughters	Cont
3	H3DAU	h3dau:w3 number of living daughters	Cont
4	H4DAU	h4dau:w4 number of living daughters	Cont
1	H1CHILD	h1child:w1 number of living children	Cont
2	H2CHILD	h2child:w2 number of living children	Cont
3	H3CHILD	h3child:w3 number of living children	Cont
4	H4CHILD	h4child:w4 Number of living children	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1SON	17708	1.39	1.02	0.00	8.00
H2SON	18612	1.37	1.02	0.00	8.00
H3SON	21097	1.35	0.99	0.00	9.00
H4SON	19816	1.33	0.96	0.00	7.00
H1DAU	17708	1.22	1.10	0.00	8.00
H2DAU	18612	1.25	1.10	0.00	9.00
H3DAU	21097	1.24	1.09	0.00	9.00
H4DAU	19816	1.23	1.07	0.00	9.00
H1CHILD	17708	2.61	1.44	0.00	10.00
H2CHILD	18612	2.62	1.45	0.00	10.00
H3CHILD	21097	2.63	1.43	0.00	15.00
H4CHILD	19816	2.56	1.35	0.00	10.00

### How Constructed:

HwSON is the number of living sons of the respondent and spouse at the household level, including co-resident or non-co-resident sons.

HwDAU is the number of living daughters of the respondent and spouse at the household level, including co-resident or non-co-resident daughters.

HwCHILD is the sum of HwSON and HwDAU that indicates the number of living children of the respondent and spouse, including co-resident or non-co-resident children.

Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), and (.m), respectively. HwSON, HwDAU, and HwCHILD are coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 1, the number of co-resident children is obtained by counting all children listed in the household roster and any child that is not included in the household roster but is reported as normally living in the same household as the respondent. The number of non-co-resident children is obtained by counting any child that is not included in the household roster and is reported as not normally living in the same household as the respondent.

At Wave 2, the number of co-resident children is obtained in one of two ways. The first way this is obtained is from the Childrearing Information subsection, in which respondents are asked where each child usually lives regardless of whether they have previously been identified as a household member. All children listed as normally live in the same household as the respondent are considered co-resident children. The second way this is obtained is from the Other Household Members subsection using the relationship and gender variables. The number of co-resident children is based on the larger value from these two modules. The number of non-co-resident children is also obtained



from the Childbearing Information module using the same question asking where each child usually lives. All children listed as not living in the household are considered non-co-resident children.

Starting at Wave 3, the number of co-resident children is obtained by counting the children that the respondent reports as household members and the children that normally live in the same household as the respondent. The number of non-co-resident children is obtained from the question asking the respondent where each child usually lives. All children listed as not living in the household are considered non-co-resident children.

Children include biological children, adopted children, foster children, and stepchildren.

### Cross Wave Differences in CHARLS

At Wave 1, the number of co-resident children is obtained by counting all children listed in the household roster and any child that is not included in the household roster but is reported as normally living in the same household as the respondent. The number of non-co-resident children is obtained by counting any child that is not included in the household roster and is reported as not normally living in the same household as the respondent.

At Wave 2, the number of co-resident children is obtained in one of two ways. The first way this is obtained is from the Childrearing Information subsection, in which respondents are asked where each child usually lives regardless of whether they have previously been identified as a household member. All children listed as normally live in the same household as the respondent are considered co-resident children. The second way this is obtained is from the Other Household Members subsection using the relationship and gender variables. The number of co-resident children is based on the largest value from these two modules. The number of non-co-resident children is also obtained from the Childbearing Information module using the same question asking where each child usually lives. All children listed as not living in the household are considered non-co-resident children.

Starting at Wave 3, the number of co-resident children is obtained by counting the children that the respondent reports as household members and the children that normally live in the same household as the respondent. The number of non-co-resident children is obtained from the question asking the respondent where each child usually lives. All children listed as not living in the household are considered non-co-resident children.

### Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not include the number of living sons and the number of living daughters.

### CHARLS Variables Used:

Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR

A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CB049_10_	GENDER
CB049_11_	GENDER
CB049_12_	GENDER
CB049_13_	GENDER
CB049_14_	GENDER
CB049_1_	GENDER
CB049_2_	GENDER
CB049_3_	GENDER
CB049_4_	GENDER
CB049_5_	GENDER
CB049_6_	GENDER
CB049_7_	GENDER
CB049_8_	GENDER
CB049_9_	GENDER
CB053_10_	WHERE DOES HE LIVE
CB053_11_	WHERE DOES HE LIVE
CB053_1_	WHERE DOES HE LIVE
CB053_2_	WHERE DOES HE LIVE
CB053_3_	WHERE DOES HE LIVE
CB053_4_	WHERE DOES HE LIVE
CB053_5_	WHERE DOES HE LIVE
CB053_6_	WHERE DOES HE LIVE
CB053_7_	WHERE DOES HE LIVE
CB053_8_	WHERE DOES HE LIVE
CB053_9_	WHERE DOES HE LIVE

## Wave 2:

A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_15_	Gender of Household Member
A002_16_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You
A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CB049_10_	Gender of Child
CB049_11_	Gender of Child
CB049_1_	Gender of Child
CB049_2_	Gender of Child

CB049_3_	Gender of Child
CB049_4_	Gender of Child
CB049_5_	Gender of Child
CB049_6_	Gender of Child
CB049_7_	Gender of Child
CB049_8_	Gender of Child
CB049_9_	Gender of Child
CB053_10_	Residence of Child
CB053_11_	Residence of Child
CB053_1_	Residence of Child
CB053_2_	Residence of Child
CB053_3_	Residence of Child
CB053_4_	Residence of Child
CB053_5_	Residence of Child
CB053_6_	Residence of Child
CB053_7_	Residence of Child
CB053_8_	Residence of Child
CB053_9_	Residence of Child
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_13_	Relationship to You
ZA006_14_	Relationship to You
ZA006_15_	Relationship to You
ZA006_16_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You

## Wave 3:

A001_W3_1S1	Which Children
A001_W3_1S10	Which Children
A001_W3_1S11	Which Children
A001_W3_1S12	Which Children
A001_W3_1S13	Which Children
A001_W3_1S14	Which Children
A001_W3_1S15	Which Children
A001_W3_1S16	Which Children
A001_W3_1S17	Which Children
A001_W3_1S18	Which Children
A001_W3_1S19	Which Children
A001_W3_1S2	Which Children
A001_W3_1S20	Which Children
A001_W3_1S21	Which Children
A001_W3_1S22	Which Children
A001_W3_1S23	Which Children
A001_W3_1S24	Which Children
A001_W3_1S3	Which Children
A001_W3_1S4	Which Children
A001_W3_1S5	Which Children

A001_W3_1S6	Which Children
A001_W3_1S7	Which Children
A001_W3_1S8	Which Children
A001_W3_1S9	Which Children
A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member
A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
CB053_10_	The Nomral Address Of R's No.10 Living Child
CB053_11_	The Nomral Address Of R's No.11 Living Child
CB053_12_	The Nomral Address Of R's No.12 Living Child
CB053_13_	The Nomral Address Of R's No.13 Living Child
CB053_14_	The Nomral Address Of R's No.14 Living Child
CB053_15_	The Nomral Address Of R's No.15 Living Child
CB053_16_	The Nomral Address Of R's No.16 Living Child
CB053_1_	The Nomral Address Of R's No.1 Living Child
CB053_2_	The Nomral Address Of R's No.2 Living Child
CB053_3_	The Nomral Address Of R's No.3 Living Child
CB053_4_	The Nomral Address Of R's No.4 Living Child
CB053_5_	The Nomral Address Of R's No.5 Living Child
CB053_6_	The Nomral Address Of R's No.6 Living Child
CB053_7_	The Nomral Address Of R's No.7 Living Child
CB053_8_	The Nomral Address Of R's No.8 Living Child
CB053_9_	The Nomral Address Of R's No.9 Living Child
XCHILDALIVE_10_	Whether R's No.10 Child Is Alive Or Not
XCHILDALIVE_11_	Whether R's No.11 Child Is Alive Or Not
XCHILDALIVE_12_	Whether R's No.12 Child Is Alive Or Not
XCHILDALIVE_13_	Whether R's No.13 Child Is Alive Or Not
XCHILDALIVE_14_	Whether R's No.14 Child Is Alive Or Not
XCHILDALIVE_15_	Whether R's No.15 Child Is Alive Or Not
XCHILDALIVE_16_	Whether R's No.16 Child Is Alive Or Not
XCHILDALIVE_17_	Whether R's No.17 Child Is Alive Or Not
XCHILDALIVE_18_	Whether R's No.18 Child Is Alive Or Not
XCHILDALIVE_19_	Whether R's No.19 Child Is Alive Or Not
XCHILDALIVE_1_	Whether R's No.1 Child Is Alive Or Not
XCHILDALIVE_20_	Whether R's No.20 Child Is Alive Or Not
XCHILDALIVE_2_	Whether R's No.2 Child Is Alive Or Not
XCHILDALIVE_3_	Whether R's No.3 Child Is Alive Or Not
XCHILDALIVE_4_	Whether R's No.4 Child Is Alive Or Not
XCHILDALIVE_5_	Whether R's No.5 Child Is Alive Or Not
XCHILDALIVE_6_	Whether R's No.6 Child Is Alive Or Not
XCHILDALIVE_7_	Whether R's No.7 Child Is Alive Or Not
XCHILDALIVE_8_	Whether R's No.8 Child Is Alive Or Not
XCHILDALIVE_9_	Whether R's No.9 Child Is Alive Or Not
XCHILDGENDER_10_	The Gender Of R's No.10 Living Child
XCHILDGENDER_11_	The Gender Of R's No.11 Living Child
XCHILDGENDER_12_	The Gender Of R's No.12 Living Child
XCHILDGENDER_13_	The Gender Of R's No.13 Living Child
XCHILDGENDER_14_	The Gender Of R's No.14 Living Child
XCHILDGENDER_15_	The Gender Of R's No.15 Living Child
XCHILDGENDER_16_	The Gender Of R's No.16 Living Child
XCHILDGENDER_17_	The Gender Of R's No.17 Living Child
XCHILDGENDER_18_	The Gender Of R's No.18 Living Child

XCHILDGENER_19_	The Gender Of R's No.19 Living Child
XCHILDGENER_1_	The Gender Of R's No.1 Living Child
XCHILDGENER_20_	The Gender Of R's No.20 Living Child
XCHILDGENER_2_	The Gender Of R's No.2 Living Child
XCHILDGENER_3_	The Gender Of R's No.3 Living Child
XCHILDGENER_4_	The Gender Of R's No.4 Living Child
XCHILDGENER_5_	The Gender Of R's No.5 Living Child
XCHILDGENER_6_	The Gender Of R's No.6 Living Child
XCHILDGENER_7_	The Gender Of R's No.7 Living Child
XCHILDGENER_8_	The Gender Of R's No.8 Living Child
XCHILDGENER_9_	The Gender Of R's No.9 Living Child

## Wave 4:

A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
CB053_10_	Where is [XChildName[10]] Living Regularly
CB053_11_	Where is [XChildName[11]] Living Regularly
CB053_12_	Where is [XChildName[12]] Living Regularly
CB053_13_	Where is [XChildName[13]] Living Regularly
CB053_14_	Where is [XChildName[14]] Living Regularly
CB053_15_	Where is [XChildName[15]] Living Regularly
CB053_1_	Where is [XChildName[1]] Living Regularly
CB053_2_	Where is [XChildName[2]] Living Regularly
CB053_3_	Where is [XChildName[3]] Living Regularly
CB053_4_	Where is [XChildName[4]] Living Regularly
CB053_5_	Where is [XChildName[5]] Living Regularly
CB053_6_	Where is [XChildName[6]] Living Regularly
CB053_7_	Where is [XChildName[7]] Living Regularly
CB053_8_	Where is [XChildName[8]] Living Regularly
CB053_9_	Where is [XChildName[9]] Living Regularly
XCHILDALIVE_10_	XChildAlive[10]
XCHILDALIVE_11_	XChildAlive[11]
XCHILDALIVE_12_	XChildAlive[12]
XCHILDALIVE_13_	XChildAlive[13]
XCHILDALIVE_14_	XChildAlive[14]
XCHILDALIVE_15_	XChildAlive[15]
XCHILDALIVE_16_	XChildAlive[16]
XCHILDALIVE_1_	XChildAlive[1]
XCHILDALIVE_2_	XChildAlive[2]
XCHILDALIVE_3_	XChildAlive[3]
XCHILDALIVE_4_	XChildAlive[4]
XCHILDALIVE_5_	XChildAlive[5]
XCHILDALIVE_6_	XChildAlive[6]
XCHILDALIVE_7_	XChildAlive[7]
XCHILDALIVE_8_	XChildAlive[8]
XCHILDALIVE_9_	XChildAlive[9]
XCHILDGENER_10_	XChildGender[10]
XCHILDGENER_11_	XChildGender[11]
XCHILDGENER_12_	XChildGender[12]
XCHILDGENER_13_	XChildGender[13]
XCHILDGENER_14_	XChildGender[14]
XCHILDGENER_15_	XChildGender[15]

---

XCHILDGENDER_16_	XChildGender[16]
XCHILDGENDER_1_	XChildGender[1]
XCHILDGENDER_2_	XChildGender[2]
XCHILDGENDER_3_	XChildGender[3]
XCHILDGENDER_4_	XChildGender[4]
XCHILDGENDER_5_	XChildGender[5]
XCHILDGENDER_6_	XChildGender[6]
XCHILDGENDER_7_	XChildGender[7]
XCHILDGENDER_8_	XChildGender[8]
XCHILDGENDER_9_	XChildGender[9]
XCHILDTYPE_10_	XChildType[10]
XCHILDTYPE_11_	XChildType[11]
XCHILDTYPE_12_	XChildType[12]
XCHILDTYPE_13_	XChildType[13]
XCHILDTYPE_14_	XChildType[14]
XCHILDTYPE_15_	XChildType[15]
XCHILDTYPE_16_	XChildType[16]
XCHILDTYPE_1_	XChildType[1]
XCHILDTYPE_2_	XChildType[2]
XCHILDTYPE_3_	XChildType[3]
XCHILDTYPE_4_	XChildType[4]
XCHILDTYPE_5_	XChildType[5]
XCHILDTYPE_6_	XChildType[6]
XCHILDTYPE_7_	XChildType[7]
XCHILDTYPE_8_	XChildType[8]
XCHILDTYPE_9_	XChildType[9]

<b>Number of Deceased Children</b>
------------------------------------

Wave	Variable	Label	Type
1	H1DSON	h1dson:w1 number of deceased sons	Cont
2	H2DSON	h2dson:w2 number of deceased sons	Cont
3	H3DSON	h3dson:w3 number of deceased sons	Cont
4	H4DSON	h4dson:w4 number of deceased sons	Cont
1	H1DDAU	h1ddau:w1 number of deceased daughters	Cont
2	H2DDAU	h2ddau:w2 number of deceased daughters	Cont
3	H3DDAU	h3ddau:w3 number of deceased daughters	Cont
4	H4DDAU	h4ddau:w4 number of deceased daughters	Cont
1	H1DCHILD	h1dchild:w1 total number of deceased children	Cont
2	H2DCHILD	h2dchild:w2 total number of deceased children	Cont
3	H3DCHILD	h3dchild:w3 total number of deceased children	Cont
4	H4DCHILD	h4dchild:w4 total number of deceased children	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1DSON	17708	0.07	0.31	0.00	5.00
H2DSON	18612	0.06	0.27	0.00	5.00
H3DSON	21097	0.05	0.24	0.00	5.00
H4DSON	19816	0.08	0.32	0.00	6.00
H1DDAU	17708	0.05	0.25	0.00	4.00
H2DDAU	18612	0.04	0.22	0.00	3.00
H3DDAU	21097	0.03	0.19	0.00	4.00
H4DDAU	19816	0.05	0.26	0.00	4.00
H1DCHILD	17708	0.12	0.43	0.00	6.00
H2DCHILD	18612	0.10	0.37	0.00	6.00
H3DCHILD	21097	0.16	0.52	0.00	6.00
H4DCHILD	19816	0.13	0.44	0.00	7.00

### How Constructed:

HwDSON is the number of deceased sons of the respondent and spouse at the household level.

HwDDAU is the number of deceased daughters of the respondent and spouse at the household level.

HwDCHILD is the number of deceased children of the respondent and spouse at the household level.

Don't know, refused, and missing values are assigned special missing codes (.d), (.r), and (.m), respectively. HwDSON, HwDDAU, and HwDCHILD are coded as blank missing (.) if the family respondent did not respond to this wave.

The number of deceased children is obtained by counting all the deceased children that the respondent reports.

Children include biological children, adopted children, foster children, and stepchildren.

### Cross Wave Differences in CHARLS

No differences known.

### Differences with the RAND HRS/Harmonized HRS

HwDSON, HwDDAU, and HwDCHILD are not included in RAND HRS.

### CHARLS Variables Used:

## Wave 1:

CB006_1_	gender of this child
CB006_2_	gender of this child
CB006_3_	gender of this child
CB006_4_	gender of this child
CB006_5_	gender of this child
CB006_6_	gender of this child
CB014_1_	gender of this child
CB014_2_	gender of this child
CB022_1_	gender of this child
CB022_2_	gender of this child
CB022_3_	gender of this child
CB022_4_	gender of this child
CB022_5_	gender of this child
CB030_1_	gender of this child
CB030_2_	gender of this child
CB030_3_	gender of this child
CB038_1_	gender of this child
CB038_2_	gender of this child
CB038_3_	gender of this child
CB038_4_	gender of this child
CB038_5_	gender of this child
CB046_1_	gender of this child
CB046_2_	gender of this child

## Wave 2:

CB006_1_	Sex of Child
CB006_2_	Sex of Child
CB006_3_	Sex of Child
CB006_4_	Sex of Child
CB006_5_	Sex of Child
CB014_1_	Sex of Child
CB014_2_	Sex of Child
CB022_1_	Sex of Child
CB022_2_	Sex of Child
CB022_3_	Sex of Child
CB022_4_	Sex of Child
CB022_5_	Sex of Child
CB030_1_	Sex of Child
CB030_2_	Sex of Child
CB030_3_	Sex of Child
CB038_1_	Sex of Child
CB038_2_	Sex of Child
CB038_3_	Sex of Child
CB046_1_	Sex of Child

## Wave 3:

XCHILDALIVE_10_	Whether R's No.10 Child Is Alive Or Not
XCHILDALIVE_11_	Whether R's No.11 Child Is Alive Or Not
XCHILDALIVE_12_	Whether R's No.12 Child Is Alive Or Not
XCHILDALIVE_13_	Whether R's No.13 Child Is Alive Or Not
XCHILDALIVE_14_	Whether R's No.14 Child Is Alive Or Not
XCHILDALIVE_15_	Whether R's No.15 Child Is Alive Or Not
XCHILDALIVE_16_	Whether R's No.16 Child Is Alive Or Not
XCHILDALIVE_17_	Whether R's No.17 Child Is Alive Or Not
XCHILDALIVE_18_	Whether R's No.18 Child Is Alive Or Not
XCHILDALIVE_19_	Whether R's No.19 Child Is Alive Or Not
XCHILDALIVE_1_	Whether R's No.1 Child Is Alive Or Not
XCHILDALIVE_20_	Whether R's No.20 Child Is Alive Or Not
XCHILDALIVE_2_	Whether R's No.2 Child Is Alive Or Not
XCHILDALIVE_3_	Whether R's No.3 Child Is Alive Or Not
XCHILDALIVE_4_	Whether R's No.4 Child Is Alive Or Not
XCHILDALIVE_5_	Whether R's No.5 Child Is Alive Or Not
XCHILDALIVE_6_	Whether R's No.6 Child Is Alive Or Not
XCHILDALIVE_7_	Whether R's No.7 Child Is Alive Or Not
XCHILDALIVE_8_	Whether R's No.8 Child Is Alive Or Not
XCHILDALIVE_9_	Whether R's No.9 Child Is Alive Or Not
XCHILDGENDER_10_	The Gender Of R's No.10 Living Child
XCHILDGENDER_11_	The Gender Of R's No.11 Living Child
XCHILDGENDER_12_	The Gender Of R's No.12 Living Child
XCHILDGENDER_13_	The Gender Of R's No.13 Living Child



XCHILDGENDER_14_	The Gender Of R's No.14 Living Child
XCHILDGENDER_15_	The Gender Of R's No.15 Living Child
XCHILDGENDER_16_	The Gender Of R's No.16 Living Child
XCHILDGENDER_17_	The Gender Of R's No.17 Living Child
XCHILDGENDER_18_	The Gender Of R's No.18 Living Child
XCHILDGENDER_19_	The Gender Of R's No.19 Living Child
XCHILDGENDER_1_	The Gender Of R's No.1 Living Child
XCHILDGENDER_20_	The Gender Of R's No.20 Living Child
XCHILDGENDER_2_	The Gender Of R's No.2 Living Child
XCHILDGENDER_3_	The Gender Of R's No.3 Living Child
XCHILDGENDER_4_	The Gender Of R's No.4 Living Child
XCHILDGENDER_5_	The Gender Of R's No.5 Living Child
XCHILDGENDER_6_	The Gender Of R's No.6 Living Child
XCHILDGENDER_7_	The Gender Of R's No.7 Living Child
XCHILDGENDER_8_	The Gender Of R's No.8 Living Child
XCHILDGENDER_9_	The Gender Of R's No.9 Living Child

## Wave 4:

XCHILDALIVE_10_	XChildAlive[10]
XCHILDALIVE_11_	XChildAlive[11]
XCHILDALIVE_12_	XChildAlive[12]
XCHILDALIVE_13_	XChildAlive[13]
XCHILDALIVE_14_	XChildAlive[14]
XCHILDALIVE_15_	XChildAlive[15]
XCHILDALIVE_16_	XChildAlive[16]
XCHILDALIVE_1_	XChildAlive[1]
XCHILDALIVE_2_	XChildAlive[2]
XCHILDALIVE_3_	XChildAlive[3]
XCHILDALIVE_4_	XChildAlive[4]
XCHILDALIVE_5_	XChildAlive[5]
XCHILDALIVE_6_	XChildAlive[6]
XCHILDALIVE_7_	XChildAlive[7]
XCHILDALIVE_8_	XChildAlive[8]
XCHILDALIVE_9_	XChildAlive[9]
XCHILDGENDER_10_	XChildGender[10]
XCHILDGENDER_11_	XChildGender[11]
XCHILDGENDER_12_	XChildGender[12]
XCHILDGENDER_13_	XChildGender[13]
XCHILDGENDER_14_	XChildGender[14]
XCHILDGENDER_15_	XChildGender[15]
XCHILDGENDER_16_	XChildGender[16]
XCHILDGENDER_1_	XChildGender[1]
XCHILDGENDER_2_	XChildGender[2]
XCHILDGENDER_3_	XChildGender[3]
XCHILDGENDER_4_	XChildGender[4]
XCHILDGENDER_5_	XChildGender[5]
XCHILDGENDER_6_	XChildGender[6]
XCHILDGENDER_7_	XChildGender[7]
XCHILDGENDER_8_	XChildGender[8]
XCHILDGENDER_9_	XChildGender[9]
XCHILDTYPE_10_	XChildType[10]
XCHILDTYPE_11_	XChildType[11]
XCHILDTYPE_12_	XChildType[12]
XCHILDTYPE_13_	XChildType[13]
XCHILDTYPE_14_	XChildType[14]
XCHILDTYPE_15_	XChildType[15]
XCHILDTYPE_16_	XChildType[16]
XCHILDTYPE_1_	XChildType[1]
XCHILDTYPE_2_	XChildType[2]
XCHILDTYPE_3_	XChildType[3]
XCHILDTYPE_4_	XChildType[4]
XCHILDTYPE_5_	XChildType[5]
XCHILDTYPE_6_	XChildType[6]
XCHILDTYPE_7_	XChildType[7]
XCHILDTYPE_8_	XChildType[8]
XCHILDTYPE_9_	XChildType[9]

<b>Number of Living Sibling</b>
---------------------------------

Wave	Variable	Label	Type
1	R1LIVBRO	r1livbro:w1 r number of living brothers	Cont
2	R2LIVBRO	r2livbro:w2 r number of living brothers	Cont
3	R3LIVBRO	r3livbro:w3 r number of living brothers	Cont
4	R4LIVBRO	r4livbro:w4 r number of living brothers	Cont
1	S1LIVBRO	s1livbro:w1 s number of living brothers	Cont
2	S2LIVBRO	s2livbro:w2 s number of living brothers	Cont
3	S3LIVBRO	s3livbro:w3 s number of living brothers	Cont
4	S4LIVBRO	s4livbro:w4 s number of living brothers	Cont
1	R1LIVSIS	r1livsis:w1 r number of living sisters	Cont
2	R2LIVSIS	r2livsis:w2 r number of living sisters	Cont
3	R3LIVSIS	r3livsis:w3 r number of living sisters	Cont
4	R4LIVSIS	r4livsis:w4 r number of living sisters	Cont
1	S1LIVSIS	s1livsis:w1 s number of living sisters	Cont
2	S2LIVSIS	s2livsis:w2 s number of living sisters	Cont
3	S3LIVSIS	s3livsis:w3 s number of living sisters	Cont
4	S4LIVSIS	s4livsis:w4 s number of living sisters	Cont
1	R1LIVSIB	r1livsib:w1 r number of living siblings	Cont
2	R2LIVSIB	r2livsib:w2 r number of living siblings	Cont
3	R3LIVSIB	r3livsib:w3 r number of living siblings	Cont
4	R4LIVSIB	r4livsib:w4 r number of living siblings	Cont
1	S1LIVSIB	s1livsib:w1 s number of living siblings	Cont
2	S2LIVSIB	s2livsib:w2 s number of living siblings	Cont
3	S3LIVSIB	s3livsib:w3 s number of living siblings	Cont
4	S4LIVSIB	s4livsib:w4 s number of living siblings	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIVBRO	17479	1.61	1.29	0.00	8.00
R2LIVBRO	18316	1.61	1.29	0.00	13.00
R3LIVBRO	20323	1.75	1.29	0.00	10.00
R4LIVBRO	19252	1.76	1.29	0.00	10.00
S1LIVBRO	15252	1.71	1.35	0.00	10.00
S2LIVBRO	15914	1.67	1.29	0.00	13.00
S3LIVBRO	17910	1.77	1.28	0.00	9.00
S4LIVBRO	16445	1.78	1.28	0.00	9.00
R1LIVSIS	17479	1.54	1.33	0.00	9.00
R2LIVSIS	18315	1.57	1.34	0.00	21.00
R3LIVSIS	20323	1.69	1.33	0.00	12.00
R4LIVSIS	19252	1.71	1.33	0.00	12.00
S1LIVSIS	15252	1.60	1.33	0.00	9.00
S2LIVSIS	15913	1.64	1.35	0.00	21.00
S3LIVSIS	17910	1.71	1.32	0.00	10.00
S4LIVSIS	16445	1.73	1.33	0.00	10.00
R1LIVSIB	17479	3.15	1.92	0.00	11.00
R2LIVSIB	18315	3.18	1.92	0.00	25.00
R3LIVSIB	20323	3.49	1.84	0.00	15.00
R4LIVSIB	19252	3.52	1.83	0.00	15.00
S1LIVSIB	15252	3.32	1.94	0.00	13.00
S2LIVSIB	15913	3.30	1.89	0.00	25.00
S3LIVSIB	17910	3.54	1.79	0.00	15.00
S4LIVSIB	16445	3.56	1.79	0.00	15.00

## How Constructed:

In CHARLS, the family respondent is asked about the mortality of both his or her own siblings and their spouse's siblings. The family respondent can be identified using RwfAMR.

RwLIVBRO is the number of living brothers of the respondent.

RwLIVSIS is the number of living sisters of the respondent.

RwLIVSIB is the number of living siblings of the respondent.

Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwLIVBRO, RwLIVSIS, and RwLIVSIB are coded as blank missing (.) if the family respondent did not respond to this wave.

SwLIVBRO, SwLIVSIS and SwLIVSIB are the numbers of living brothers, living sisters, and living siblings, respectively, of the respondent's spouse. In addition to the special missing values used in RwLIVBRO, RwLIVSIS, and RwLIVSIB, SwLIVBRO, SwLIVSIS, and SwLIVSIB employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

At Waves 1 and 2, CHARLS asks the family respondent separately about their older and younger brother and sisters and about their spouse's older and younger brothers and sisters. Starting at Wave 3, CHARLS does not distinguish between older and younger siblings directly.

## Cross Wave Differences in CHARLS

At Waves 1 and 2, CHARLS asks the family respondent separately about their older and younger brother and sisters and about their spouse's older and younger brothers and sisters. Starting at Wave 3, CHARLS does not distinguish between older and younger siblings directly.

## Differences with the RAND HRS/Harmonized HRS

CHARLS family respondents not only report their numbers of living siblings for themselves but also reports for their spouses.

## CHARLS Variables Used:

### Wave 1:

CC001	HOW MANY OF YOUR SIBLINGS ARE STILL ALIVE
CC002_1	OLDER BROTHERS:
CC002_2	YOUNGER BROTHERS
CC002_3	OLDER SISTERS:
CC002_4	YOUNGER SISTERS
CC006	THE NUMBER OF SIBLINGS OF YOUR SPOUSE WHO IS ALIVE
CC007_1	OLDER BROTHERS:
CC007_2	YOUNGER BROTHERS
CC007_3	OLDER SISTERS:
CC007_4	YOUNGER SISTERS

### Wave 2:

CC002_1_1_	Number of Your Alive Older Brothers
CC002_1_2_	Number of Your Spouse's Alive Older Brothers
CC002_2_1_	Number of Your Alive Younger Brothers
CC002_2_2_	Number of Your Spouse's Alive Younger Brothers
CC002_3_1_	Number of Your Alive Older Sisters
CC002_3_2_	Number of Your Spouse's Alive Older Sisters
CC002_4_1_	Number of Your Alive Younger Sisters
CC002_4_2_	Number of Your Spouse's Alive Younger Sisters

### Wave 3:

CC000_W3_1	Number Of R's Living Siblings By 2014
CC000_W3_1_S	Number Of Spouse's Living Siblings By 2014
XRTYPE	R Interview Type
XSIBLINGNUM	Number Of R's Sibling(s)
XSIBLINGNUMS	Number Of Spouse's Sibling(s)

### Wave 4:

CC000_W4_1	Number of FamilyR's Siblings
CC002_W4_1	Number of FamilyR's Other Siblings
XSIBALIVE_10_	XSibAlive[10]
XSIBALIVE_11_	XSibAlive[11]
XSIBALIVE_12_	XSibAlive[12]
XSIBALIVE_13_	XSibAlive[13]
XSIBALIVE_14_	XSibAlive[14]
XSIBALIVE_1_	XSibAlive[1]
XSIBALIVE_2_	XSibAlive[2]
XSIBALIVE_3_	XSibAlive[3]
XSIBALIVE_4_	XSibAlive[4]
XSIBALIVE_5_	XSibAlive[5]
XSIBALIVE_6_	XSibAlive[6]
XSIBALIVE_7_	XSibAlive[7]
XSIBALIVE_8_	XSibAlive[8]
XSIBALIVE_9_	XSibAlive[9]
XSIBALIVE_S_10_	XSibAlive_S[10]
XSIBALIVE_S_11_	XSibAlive_S[11]
XSIBALIVE_S_12_	XSibAlive_S[12]
XSIBALIVE_S_13_	XSibAlive_S[13]
XSIBALIVE_S_14_	XSibAlive_S[14]
XSIBALIVE_S_15_	XSibAlive_S[15]
XSIBALIVE_S_15_	XSibAlive_S[15]
XSIBALIVE_S_1_	XSibAlive_S[1]
XSIBALIVE_S_2_	XSibAlive_S[2]
XSIBALIVE_S_3_	XSibAlive_S[3]
XSIBALIVE_S_4_	XSibAlive_S[4]
XSIBALIVE_S_5_	XSibAlive_S[5]
XSIBALIVE_S_6_	XSibAlive_S[6]
XSIBALIVE_S_7_	XSibAlive_S[7]
XSIBALIVE_S_8_	XSibAlive_S[8]
XSIBALIVE_S_9_	XSibAlive_S[9]
XSIBGENDER_10_	XSibGender[10]
XSIBGENDER_11_	XSibGender[11]
XSIBGENDER_12_	XSibGender[12]
XSIBGENDER_13_	XSibGender[13]
XSIBGENDER_14_	XSibGender[14]
XSIBGENDER_1_	XSibGender[1]
XSIBGENDER_2_	XSibGender[2]
XSIBGENDER_3_	XSibGender[3]
XSIBGENDER_4_	XSibGender[4]
XSIBGENDER_5_	XSibGender[5]
XSIBGENDER_6_	XSibGender[6]
XSIBGENDER_7_	XSibGender[7]
XSIBGENDER_8_	XSibGender[8]
XSIBGENDER_9_	XSibGender[9]
XSIBGENDER_S_10_	XSibGender_S[10]
XSIBGENDER_S_11_	XSibGender_S[11]
XSIBGENDER_S_12_	XSibGender_S[12]
XSIBGENDER_S_13_	XSibGender_S[13]
XSIBGENDER_S_14_	XSibGender_S[14]
XSIBGENDER_S_15_	XSibGender_S[15]
XSIBGENDER_S_1_	XSibGender_S[1]
XSIBGENDER_S_2_	XSibGender_S[2]
XSIBGENDER_S_3_	XSibGender_S[3]
XSIBGENDER_S_4_	XSibGender_S[4]
XSIBGENDER_S_5_	XSibGender_S[5]
XSIBGENDER_S_6_	XSibGender_S[6]
XSIBGENDER_S_7_	XSibGender_S[7]
XSIBGENDER_S_8_	XSibGender_S[8]
XSIBGENDER_S_9_	XSibGender_S[9]
XSIBTYPE_10_	XSibType[10]
XSIBTYPE_11_	XSibType[11]
XSIBTYPE_12_	XSibType[12]
XSIBTYPE_13_	XSibType[13]
XSIBTYPE_14_	XSibType[14]
XSIBTYPE_1_	XSibType[1]
XSIBTYPE_2_	XSibType[2]
XSIBTYPE_3_	XSibType[3]

XSIBTYPE_4_	XSibType[4]
XSIBTYPE_5_	XSibType[5]
XSIBTYPE_6_	XSibType[6]
XSIBTYPE_7_	XSibType[7]
XSIBTYPE_8_	XSibType[8]
XSIBTYPE_9_	XSibType[9]
XSIBTYPE_S_10_	XSibType_S[10]
XSIBTYPE_S_11_	XSibType_S[11]
XSIBTYPE_S_12_	XSibType_S[12]
XSIBTYPE_S_13_	XSibType_S[13]
XSIBTYPE_S_14_	XSibType_S[14]
XSIBTYPE_S_1_	XSibType_S[1]
XSIBTYPE_S_2_	XSibType_S[2]
XSIBTYPE_S_3_	XSibType_S[3]
XSIBTYPE_S_4_	XSibType_S[4]
XSIBTYPE_S_5_	XSibType_S[5]
XSIBTYPE_S_6_	XSibType_S[6]
XSIBTYPE_S_7_	XSibType_S[7]
XSIBTYPE_S_8_	XSibType_S[8]
XSIBTYPE_S_9_	XSibType_S[9]
ZSIBALIVE_10_	ZSibAlive[10]
ZSIBALIVE_11_	ZSibAlive[11]
ZSIBALIVE_12_	ZSibAlive[12]
ZSIBALIVE_13_	ZSibAlive[13]
ZSIBALIVE_14_	ZSibAlive[14]
ZSIBALIVE_1_	ZSibAlive[1]
ZSIBALIVE_2_	ZSibAlive[2]
ZSIBALIVE_3_	ZSibAlive[3]
ZSIBALIVE_4_	ZSibAlive[4]
ZSIBALIVE_5_	ZSibAlive[5]
ZSIBALIVE_6_	ZSibAlive[6]
ZSIBALIVE_7_	ZSibAlive[7]
ZSIBALIVE_8_	ZSibAlive[8]
ZSIBALIVE_9_	ZSibAlive[9]
ZSIBALIVE_S_10_	ZSibAlive_S[10]
ZSIBALIVE_S_11_	ZSibAlive_S[11]
ZSIBALIVE_S_12_	ZSibAlive_S[12]
ZSIBALIVE_S_13_	ZSibAlive_S[13]
ZSIBALIVE_S_14_	ZSibAlive_S[14]
ZSIBALIVE_S_15_	ZSibAlive_S[15]
ZSIBALIVE_S_1_	ZSibAlive_S[1]
ZSIBALIVE_S_2_	ZSibAlive_S[2]
ZSIBALIVE_S_3_	ZSibAlive_S[3]
ZSIBALIVE_S_4_	ZSibAlive_S[4]
ZSIBALIVE_S_5_	ZSibAlive_S[5]
ZSIBALIVE_S_6_	ZSibAlive_S[6]
ZSIBALIVE_S_7_	ZSibAlive_S[7]
ZSIBALIVE_S_8_	ZSibAlive_S[8]
ZSIBALIVE_S_9_	ZSibAlive_S[9]
ZSIBGENDER_10_	ZSibGender[10]
ZSIBGENDER_11_	ZSibGender[11]
ZSIBGENDER_12_	ZSibGender[12]
ZSIBGENDER_13_	ZSibGender[13]
ZSIBGENDER_14_	ZSibGender[14]
ZSIBGENDER_1_	ZSibGender[1]
ZSIBGENDER_2_	ZSibGender[2]
ZSIBGENDER_3_	ZSibGender[3]
ZSIBGENDER_4_	ZSibGender[4]
ZSIBGENDER_5_	ZSibGender[5]
ZSIBGENDER_6_	ZSibGender[6]
ZSIBGENDER_7_	ZSibGender[7]
ZSIBGENDER_8_	ZSibGender[8]
ZSIBGENDER_9_	ZSibGender[9]
ZSIBGENDER_S_10_	ZSibGender_S[10]
ZSIBGENDER_S_11_	ZSibGender_S[11]
ZSIBGENDER_S_12_	ZSibGender_S[12]
ZSIBGENDER_S_13_	ZSibGender_S[13]
ZSIBGENDER_S_14_	ZSibGender_S[14]
ZSIBGENDER_S_15_	ZSibGender_S[15]

---

ZSIBGENDER_S_1_	ZSibGender_S[1]
ZSIBGENDER_S_2_	ZSibGender_S[2]
ZSIBGENDER_S_3_	ZSibGender_S[3]
ZSIBGENDER_S_4_	ZSibGender_S[4]
ZSIBGENDER_S_5_	ZSibGender_S[5]
ZSIBGENDER_S_6_	ZSibGender_S[6]
ZSIBGENDER_S_7_	ZSibGender_S[7]
ZSIBGENDER_S_8_	ZSibGender_S[8]
ZSIBGENDER_S_9_	ZSibGender_S[9]
ZSIBNUM	ZSibNum
ZSIBNUM_S	ZSibNum_S

<b>Number of Deceased Sibling</b>
-----------------------------------

Wave	Variable	Label	Type
1	R1DECBRO	r1decbro:w1 r number of deceased brothers	Cont
2	R2DECBRO	r2decbro:w2 r number of deceased brothers	Cont
3	R3DECBRO	r3decbro:w3 r number of deceased brothers	Cont
4	R4DECBRO	r4decbro:w4 r number of deceased brothers	Cont
1	S1DECBRO	s1decbro:w1 s number of deceased brothers	Cont
2	S2DECBRO	s2decbro:w2 s number of deceased brothers	Cont
3	S3DECBRO	s3decbro:w3 s number of deceased brothers	Cont
4	S4DECBRO	s4decbro:w4 s number of deceased brothers	Cont
1	R1DECSIS	r1decsis:w1 r number of deceased sisters	Cont
2	R2DECSIS	r2decsis:w2 r number of deceased sisters	Cont
3	R3DECSIS	r3decsis:w3 r number of deceased sisters	Cont
4	R4DECSIS	r4decsis:w4 r number of deceased sisters	Cont
1	S1DECSIS	s1decsis:w1 s number of deceased sisters	Cont
2	S2DECSIS	s2decsis:w2 s number of deceased sisters	Cont
3	S3DECSIS	s3decsis:w3 s number of deceased sisters	Cont
4	S4DECSIS	s4decsis:w4 s number of deceased sisters	Cont
1	R1DECSIB	r1decsib:w1 r number of deceased siblings	Cont
2	R2DECSIB	r2decsib:w2 r number of deceased siblings	Cont
3	R3DECSIB	r3decsib:w3 r number of deceased siblings	Cont
4	R4DECSIB	r4decsib:w4 r number of deceased siblings	Cont
1	S1DECSIB	s1decsib:w1 s number of deceased siblings	Cont
2	S2DECSIB	s2decsib:w2 s number of deceased siblings	Cont
3	S3DECSIB	s3decsib:w3 s number of deceased siblings	Cont
4	S4DECSIB	s4decsib:w4 s number of deceased siblings	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DECBRO	17393	0.38	0.75	0.00	14.00
R2DECBRO	18138	0.43	0.79	0.00	12.00
R3DECBRO	20323	0.26	0.60	0.00	10.00
R4DECBRO	19252	0.28	0.62	0.00	10.00
S1DECBRO	15192	0.34	0.71	0.00	14.00
S2DECBRO	15764	0.39	0.74	0.00	12.00
S3DECBRO	17910	0.24	0.57	0.00	6.00
S4DECBRO	16445	0.25	0.57	0.00	6.00
R1DECSIS	17392	0.28	0.65	0.00	12.00
R2DECSIS	18138	0.31	0.67	0.00	8.00
R3DECSIS	20323	0.18	0.50	0.00	5.00
R4DECSIS	19252	0.19	0.51	0.00	5.00
S1DECSIS	15191	0.25	0.61	0.00	12.00
S2DECSIS	15763	0.27	0.63	0.00	9.00
S3DECSIS	17910	0.17	0.47	0.00	4.00
S4DECSIS	16445	0.17	0.48	0.00	5.00
R1DECSIB	17392	0.66	1.11	0.00	14.00
R2DECSIB	18138	0.74	1.16	0.00	14.00
R3DECSIB	20323	0.45	0.89	0.00	11.00
R4DECSIB	19252	0.48	0.90	0.00	11.00
S1DECSIB	15191	0.59	1.03	0.00	14.00
S2DECSIB	15763	0.66	1.08	0.00	14.00
S3DECSIB	17910	0.41	0.84	0.00	8.00
S4DECSIB	16445	0.42	0.83	0.00	8.00

## How Constructed:

In CHARLS, the family respondent is asked about the mortality of both his or her own siblings and their spouse's siblings. The family respondent can be identified using RwFAMR.

RwDECBRO is the number of deceased brothers of the respondent.

RwDECSIS is the number of deceased sisters of the respondent.

RwDECSIB is the number of deceased siblings of the respondent.

Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwDECBRO, RwDECSIS, and RwDECSIB are coded as blank missing (.) if the family respondent did not respond to this wave.

SwDECBRO, SwDECSIS and SwDECSIB are the numbers of deceased brothers, deceased sisters, and deceased siblings, respectively, of the respondent's spouse. In addition to the special missing values used in RwDECBRO, RwDECSIS, and RwDECSIB, SwDECBRO, SwDECSIS and SwDECSIB employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

At Waves 1 and 2, CHARLS asks the family respondent separately about their older and younger brother and sisters and about their spouse's older and younger brothers and sisters. Starting at Wave 3, CHARLS does not distinguish between older and younger siblings directly.

## Cross Wave Differences in CHARLS

At Waves 1 and 2, CHARLS asks the family respondent separately about their older and younger brother and sisters and about their spouse's older and younger brothers and sisters. Starting at Wave 3, CHARLS does not distinguish between older and younger siblings directly.

## Differences with the RAND HRS/Harmonized HRS

CHARLS family respondents not only report their number of deceased siblings for themselves but also for their spouses.

## CHARLS Variables Used:

### Wave 1:

CC003	THE NUMBER OF SIBLINGS DIED
CC004_1	OLDER BROTHERS:
CC004_2	YOUNGER BROTHERS
CC004_3	OLDER SISTERS:
CC004_4	YOUNGER SISTERS
CC008	THE NUMBER OF SIBLINGS OF YOUR SPOUSE DIED
CC009_1	OLDER BROTHERS:
CC009_2	YOUNGER BROTHERS
CC009_3	OLDER SISTERS:
CC009_4	YOUNGER SISTERS

### Wave 2:

CC004_1_1_	Number of Your Deceased Older Brothers
CC004_1_2_	Number of Your Spouse's Deceased Older Brothers
CC004_2_1_	Number of Your Deceased Younger Brothers
CC004_2_2_	Number of Your Spouse's Deceased Younger Brothers
CC004_3_1_	Number of Your Deceased Older Sisters
CC004_3_2_	Number of Your Spouse's Deceased Older Sisters
CC004_4_1_	Number of Your Deceased Younger Sisters
CC004_4_2_	Number of Your Spouse's Deceased Younger Sisters

### Wave 3:

CC001_W3S1	R's Sibling(s) Died Since 2014
CC001_W3S10	R's Sibling(s) Died Since 2014
CC001_W3S11	R's Sibling(s) Died Since 2014
CC001_W3S12	R's Sibling(s) Died Since 2014
CC001_W3S13	R's Sibling(s) Died Since 2014
CC001_W3S14	R's Sibling(s) Died Since 2014



CC001_W3S15	R's Sibling(s) Died Since 2014
CC001_W3S2	R's Sibling(s) Died Since 2014
CC001_W3S3	R's Sibling(s) Died Since 2014
CC001_W3S4	R's Sibling(s) Died Since 2014
CC001_W3S5	R's Sibling(s) Died Since 2014
CC001_W3S6	R's Sibling(s) Died Since 2014
CC001_W3S7	R's Sibling(s) Died Since 2014
CC001_W3S8	R's Sibling(s) Died Since 2014
CC001_W3S9	R's Sibling(s) Died Since 2014
CC001_W3S97	R's Sibling(s) Died Since 2014
CC001_W3_SS1	Spouse's Sibling Died Since 2014
CC001_W3_SS10	Spouse's Sibling Died Since 2014
CC001_W3_SS11	Spouse's Sibling Died Since 2014
CC001_W3_SS12	Spouse's Sibling Died Since 2014
CC001_W3_SS13	Spouse's Sibling Died Since 2014
CC001_W3_SS14	Spouse's Sibling Died Since 2014
CC001_W3_SS15	Spouse's Sibling Died Since 2014
CC001_W3_SS2	Spouse's Sibling Died Since 2014
CC001_W3_SS3	Spouse's Sibling Died Since 2014
CC001_W3_SS4	Spouse's Sibling Died Since 2014
CC001_W3_SS5	Spouse's Sibling Died Since 2014
CC001_W3_SS6	Spouse's Sibling Died Since 2014
CC001_W3_SS7	Spouse's Sibling Died Since 2014
CC001_W3_SS8	Spouse's Sibling Died Since 2014
CC001_W3_SS9	Spouse's Sibling Died Since 2014
CC001_W3_SS97	Spouse's Sibling Died Since 2014

## Wave 4:

CC000_W4_1	Number of FamilyR's Siblings
CC002_W4_1	Number of FamilyR's Other Siblings
XSIBALIVE_10_	XSibAlive[10]
XSIBALIVE_11_	XSibAlive[11]
XSIBALIVE_12_	XSibAlive[12]
XSIBALIVE_13_	XSibAlive[13]
XSIBALIVE_14_	XSibAlive[14]
XSIBALIVE_1_	XSibAlive[1]
XSIBALIVE_2_	XSibAlive[2]
XSIBALIVE_3_	XSibAlive[3]
XSIBALIVE_4_	XSibAlive[4]
XSIBALIVE_5_	XSibAlive[5]
XSIBALIVE_6_	XSibAlive[6]
XSIBALIVE_7_	XSibAlive[7]
XSIBALIVE_8_	XSibAlive[8]
XSIBALIVE_9_	XSibAlive[9]
XSIBALIVE_S_10_	XSibAlive_S[10]
XSIBALIVE_S_11_	XSibAlive_S[11]
XSIBALIVE_S_12_	XSibAlive_S[12]
XSIBALIVE_S_13_	XSibAlive_S[13]
XSIBALIVE_S_14_	XSibAlive_S[14]
XSIBALIVE_S_15_	XSibAlive_S[15]
XSIBALIVE_S_15_	XSibAlive_S[15]
XSIBALIVE_S_1_	XSibAlive_S[1]
XSIBALIVE_S_2_	XSibAlive_S[2]
XSIBALIVE_S_3_	XSibAlive_S[3]
XSIBALIVE_S_4_	XSibAlive_S[4]
XSIBALIVE_S_5_	XSibAlive_S[5]
XSIBALIVE_S_6_	XSibAlive_S[6]
XSIBALIVE_S_7_	XSibAlive_S[7]
XSIBALIVE_S_8_	XSibAlive_S[8]
XSIBALIVE_S_9_	XSibAlive_S[9]
XSIBGENDER_10_	XSibGender[10]
XSIBGENDER_11_	XSibGender[11]
XSIBGENDER_12_	XSibGender[12]
XSIBGENDER_13_	XSibGender[13]
XSIBGENDER_14_	XSibGender[14]
XSIBGENDER_1_	XSibGender[1]
XSIBGENDER_2_	XSibGender[2]
XSIBGENDER_3_	XSibGender[3]
XSIBGENDER_4_	XSibGender[4]
XSIBGENDER_5_	XSibGender[5]

XSIBGENDER_6_	XSibGender[6]
XSIBGENDER_7_	XSibGender[7]
XSIBGENDER_8_	XSibGender[8]
XSIBGENDER_9_	XSibGender[9]
XSIBGENDER_S_10_	XSibGender_S[10]
XSIBGENDER_S_11_	XSibGender_S[11]
XSIBGENDER_S_12_	XSibGender_S[12]
XSIBGENDER_S_13_	XSibGender_S[13]
XSIBGENDER_S_14_	XSibGender_S[14]
XSIBGENDER_S_15_	XSibGender_S[15]
XSIBGENDER_S_1_	XSibGender_S[1]
XSIBGENDER_S_2_	XSibGender_S[2]
XSIBGENDER_S_3_	XSibGender_S[3]
XSIBGENDER_S_4_	XSibGender_S[4]
XSIBGENDER_S_5_	XSibGender_S[5]
XSIBGENDER_S_6_	XSibGender_S[6]
XSIBGENDER_S_7_	XSibGender_S[7]
XSIBGENDER_S_8_	XSibGender_S[8]
XSIBGENDER_S_9_	XSibGender_S[9]
XSIBTYPE_10_	XSibType[10]
XSIBTYPE_11_	XSibType[11]
XSIBTYPE_12_	XSibType[12]
XSIBTYPE_13_	XSibType[13]
XSIBTYPE_14_	XSibType[14]
XSIBTYPE_1_	XSibType[1]
XSIBTYPE_2_	XSibType[2]
XSIBTYPE_3_	XSibType[3]
XSIBTYPE_4_	XSibType[4]
XSIBTYPE_5_	XSibType[5]
XSIBTYPE_6_	XSibType[6]
XSIBTYPE_7_	XSibType[7]
XSIBTYPE_8_	XSibType[8]
XSIBTYPE_9_	XSibType[9]
XSIBTYPE_S_10_	XSibType_S[10]
XSIBTYPE_S_11_	XSibType_S[11]
XSIBTYPE_S_12_	XSibType_S[12]
XSIBTYPE_S_13_	XSibType_S[13]
XSIBTYPE_S_14_	XSibType_S[14]
XSIBTYPE_S_1_	XSibType_S[1]
XSIBTYPE_S_2_	XSibType_S[2]
XSIBTYPE_S_3_	XSibType_S[3]
XSIBTYPE_S_4_	XSibType_S[4]
XSIBTYPE_S_5_	XSibType_S[5]
XSIBTYPE_S_6_	XSibType_S[6]
XSIBTYPE_S_7_	XSibType_S[7]
XSIBTYPE_S_8_	XSibType_S[8]
XSIBTYPE_S_9_	XSibType_S[9]
ZSIBALIVE_10_	ZSibAlive[10]
ZSIBALIVE_11_	ZSibAlive[11]
ZSIBALIVE_12_	ZSibAlive[12]
ZSIBALIVE_13_	ZSibAlive[13]
ZSIBALIVE_14_	ZSibAlive[14]
ZSIBALIVE_1_	ZSibAlive[1]
ZSIBALIVE_2_	ZSibAlive[2]
ZSIBALIVE_3_	ZSibAlive[3]
ZSIBALIVE_4_	ZSibAlive[4]
ZSIBALIVE_5_	ZSibAlive[5]
ZSIBALIVE_6_	ZSibAlive[6]
ZSIBALIVE_7_	ZSibAlive[7]
ZSIBALIVE_8_	ZSibAlive[8]
ZSIBALIVE_9_	ZSibAlive[9]
ZSIBALIVE_S_10_	ZSibAlive_S[10]
ZSIBALIVE_S_11_	ZSibAlive_S[11]
ZSIBALIVE_S_12_	ZSibAlive_S[12]
ZSIBALIVE_S_13_	ZSibAlive_S[13]
ZSIBALIVE_S_14_	ZSibAlive_S[14]
ZSIBALIVE_S_15_	ZSibAlive_S[15]
ZSIBALIVE_S_1_	ZSibAlive_S[1]
ZSIBALIVE_S_2_	ZSibAlive_S[2]

ZSIBALIVE_S_3_	ZSibAlive_S[3]
ZSIBALIVE_S_4_	ZSibAlive_S[4]
ZSIBALIVE_S_5_	ZSibAlive_S[5]
ZSIBALIVE_S_6_	ZSibAlive_S[6]
ZSIBALIVE_S_7_	ZSibAlive_S[7]
ZSIBALIVE_S_8_	ZSibAlive_S[8]
ZSIBALIVE_S_9_	ZSibAlive_S[9]
ZSIBGENDER_10_	ZSibGender[10]
ZSIBGENDER_11_	ZSibGender[11]
ZSIBGENDER_12_	ZSibGender[12]
ZSIBGENDER_13_	ZSibGender[13]
ZSIBGENDER_14_	ZSibGender[14]
ZSIBGENDER_1_	ZSibGender[1]
ZSIBGENDER_2_	ZSibGender[2]
ZSIBGENDER_3_	ZSibGender[3]
ZSIBGENDER_4_	ZSibGender[4]
ZSIBGENDER_5_	ZSibGender[5]
ZSIBGENDER_6_	ZSibGender[6]
ZSIBGENDER_7_	ZSibGender[7]
ZSIBGENDER_8_	ZSibGender[8]
ZSIBGENDER_9_	ZSibGender[9]
ZSIBGENDER_S_10_	ZSibGender_S[10]
ZSIBGENDER_S_11_	ZSibGender_S[11]
ZSIBGENDER_S_12_	ZSibGender_S[12]
ZSIBGENDER_S_13_	ZSibGender_S[13]
ZSIBGENDER_S_14_	ZSibGender_S[14]
ZSIBGENDER_S_15_	ZSibGender_S[15]
ZSIBGENDER_S_1_	ZSibGender_S[1]
ZSIBGENDER_S_2_	ZSibGender_S[2]
ZSIBGENDER_S_3_	ZSibGender_S[3]
ZSIBGENDER_S_4_	ZSibGender_S[4]
ZSIBGENDER_S_5_	ZSibGender_S[5]
ZSIBGENDER_S_6_	ZSibGender_S[6]
ZSIBGENDER_S_7_	ZSibGender_S[7]
ZSIBGENDER_S_8_	ZSibGender_S[8]
ZSIBGENDER_S_9_	ZSibGender_S[9]
ZSIBNUM	ZSibNum
ZSIBNUM_S	ZSibNum_S

<b>Parental Mortality</b>
---------------------------

Wave	Variable	Label	Type
1	R1MOMLIV	r1momliv:w1 r mother alive	Categ
2	R2MOMLIV	r2momliv:w2 r mother alive	Categ
3	R3MOMLIV	r3momliv:w3 r mother alive	Categ
4	R4MOMLIV	r4momliv:w4 r mother alive	Categ
1	S1MOMLIV	s1momliv:w1 s mother alive	Categ
2	S2MOMLIV	s2momliv:w2 s mother alive	Categ
3	S3MOMLIV	s3momliv:w3 s mother alive	Categ
4	S4MOMLIV	s4momliv:w4 s mother alive	Categ
1	R1FMOMLIV	r1fmomliv:w1 r flag dispute chg mother alive	Categ
2	R2FMOMLIV	r2fmomliv:w2 r flag dispute chg mother alive	Categ
1	S1FMOMLIV	s1fmomliv:w1 s flag dispute chg mother alive	Categ
2	S2FMOMLIV	s2fmomliv:w2 s flag dispute chg mother alive	Categ
1	R1DADLIV	r1dadliv:w1 r father alive	Categ
2	R2DADLIV	r2dadliv:w2 r father alive	Categ
3	R3DADLIV	r3dadliv:w3 r father alive	Categ
4	R4DADLIV	r4dadliv:w4 r father alive	Categ
1	S1DADLIV	s1dadliv:w1 s father alive	Categ
2	S2DADLIV	s2dadliv:w2 s father alive	Categ
3	S3DADLIV	s3dadliv:w3 s father alive	Categ
4	S4DADLIV	s4dadliv:w4 s father alive	Categ
1	R1FDADLIV	r1fdadliv:w1 r flag dispute chg father alive	Categ
2	R2FDADLIV	r2fdadliv:w2 r flag dispute chg father alive	Categ
1	S1FDADLIV	s1fdadliv:w1 s flag dispute chg father alive	Categ
2	S2FDADLIV	s2fdadliv:w2 s flag dispute chg father alive	Categ
1	R1LIVPAR	r1livpar:w1 r number of living parents	Cont
2	R2LIVPAR	r2livpar:w2 r number of living parents	Cont
3	R3LIVPAR	r3livpar:w3 r number of living parents	Cont
4	R4LIVPAR	r4livpar:w4 r number of living parents	Cont
1	S1LIVPAR	s1livpar:w1 r number of living parents	Cont
2	S2LIVPAR	s2livpar:w2 s number of living parents	Cont
3	S3LIVPAR	s3livpar:w3 s number of living parents	Cont
4	S4LIVPAR	s4livpar:w4 s number of living parents	Cont
1	R1MOMAGE	r1momage:w1 r mother's age current/at death	Cont
2	R2MOMAGE	r2momage:w2 r mother's age current/at death	Cont
3	R3MOMAGE	r3momage:w3 r mother's age current/at death	Cont
4	R4MOMAGE	r4momage:w4 r mother's age current/at death	Cont
1	S1MOMAGE	s1momage:w1 s mother's age current/at death	Cont
2	S2MOMAGE	s2momage:w2 s mother's age current/at death	Cont
3	S3MOMAGE	s3momage:w3 s mother's age current/at death	Cont
4	S4MOMAGE	s4momage:w4 s mother's age current/at death	Cont
1	R1DADAGE	r1dadage:w1 r father's age current/at death	Cont
2	R2DADAGE	r2dadage:w2 r father's age current/at death	Cont
3	R3DADAGE	r3dadage:w3 r father's age current/at death	Cont
4	R4DADAGE	r4dadage:w4 r father's age current/at death	Cont
1	S1DADAGE	s1dadage:w1 s father's age current/at death	Cont
2	S2DADAGE	s2dadage:w2 s father's age current/at death	Cont
3	S3DADAGE	s3dadage:w3 s father's age current/at death	Cont
4	S4DADAGE	s4dadage:w4 s father's age current/at death	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MOMLIV	17539	0.30	0.46	0.00	1.00
R2MOMLIV	18368	0.27	0.44	0.00	1.00
R3MOMLIV	21059	0.19	0.39	0.00	1.00
R4MOMLIV	19466	0.25	0.43	0.00	1.00
S1MOMLIV	15301	0.31	0.46	0.00	1.00
S2MOMLIV	15973	0.29	0.45	0.00	1.00
S3MOMLIV	18312	0.20	0.40	0.00	1.00
S4MOMLIV	16664	0.27	0.44	0.00	1.00
R1FMOMLIV	17539	0.08	0.62	0.00	5.00
R2FMOMLIV	18368	0.04	0.34	0.00	3.00
S1FMOMLIV	15301	0.07	0.59	0.00	5.00
S2FMOMLIV	15973	0.04	0.31	0.00	3.00
R1DADLIV	17521	0.17	0.38	0.00	1.00
R2DADLIV	18410	0.15	0.36	0.00	1.00
R3DADLIV	21063	0.10	0.31	0.00	1.00
R4DADLIV	19431	0.14	0.35	0.00	1.00
S1DADLIV	15288	0.19	0.39	0.00	1.00
S2DADLIV	16006	0.16	0.37	0.00	1.00
S3DADLIV	18313	0.11	0.32	0.00	1.00
S4DADLIV	16640	0.16	0.36	0.00	1.00
R1FDADLIV	17521	0.09	0.66	0.00	5.00
R2FDADLIV	18410	0.05	0.37	0.00	3.00
S1FDADLIV	15288	0.08	0.63	0.00	5.00
S2FDADLIV	16006	0.04	0.35	0.00	3.00
R1LIVPAR	17474	0.44	0.67	0.00	2.00
R2LIVPAR	18364	0.42	0.66	0.00	2.00
R3LIVPAR	21058	0.30	0.58	0.00	2.00
R4LIVPAR	19383	0.39	0.64	0.00	2.00
S1LIVPAR	15244	0.47	0.68	0.00	2.00
S2LIVPAR	15971	0.45	0.68	0.00	2.00
S3LIVPAR	18308	0.32	0.60	0.00	2.00
S4LIVPAR	16603	0.42	0.66	0.00	2.00
R1MOMAGE	14986	72.35	14.76	11.00	116.00
R2MOMAGE	14749	72.85	14.49	11.00	116.00
R3MOMAGE	14435	73.53	14.70	12.00	116.00
R4MOMAGE	17383	73.16	14.81	11.00	118.00
S1MOMAGE	13198	72.67	14.37	11.00	116.00
S2MOMAGE	12658	73.08	14.19	11.00	116.00
S3MOMAGE	12291	73.79	14.39	12.00	116.00
S4MOMAGE	6249	74.69	13.58	12.00	118.00
R1DADAGE	14686	69.91	14.91	11.00	111.00
R2DADAGE	14409	70.26	14.72	11.00	113.00
R3DADAGE	14082	70.83	14.82	11.00	115.00
R4DADAGE	16930	70.64	14.97	11.00	118.00
S1DADAGE	12969	70.29	14.72	11.00	111.00
S2DADAGE	12397	70.72	14.44	11.00	113.00
S3DADAGE	11974	71.22	14.61	11.00	115.00
S4DADAGE	5806	72.77	14.23	11.00	118.00

**Categorical Variable Codes**

Value-----	R1MOMLIV	R2MOMLIV	R3MOMLIV	R4MOMLIV
.m:missing	169	244	38	350
0.no	12340	13473	17031	14683
1.yes	5199	4895	4028	4783
Value-----	S1MOMLIV	S2MOMLIV	S3MOMLIV	S4MOMLIV
.m:missing	150	238	66	226
.u:unmar	2260	2401	2719	2926
0.no	10491	11379	14577	12219
1.yes	4810	4594	3735	4445
Value-----	R1FMOMLIV	R2FMOMLIV		
0.No dispute	17265	18096		
2.Disp last iw N -> Y, still alive this		68		
3.Disp last iw N -> y, Died this wave		204		
5.Disp aft, N -> Y	274			
Value-----	S1FMOMLIV	S2FMOMLIV		
0.No dispute	15087	15761		
2.Disp last iw N -> Y, still alive this		62		
3.Disp last iw N -> y, Died this wave		150		
5.Disp aft, N -> Y	214			
Value-----	R1DADLIV	R2DADLIV	R3DADLIV	R4DADLIV
.m:missing	187	202	34	385
0.no	14457	15674	18859	16667
1.yes	3064	2736	2204	2764
Value-----	S1DADLIV	S2DADLIV	S3DADLIV	S4DADLIV
.m:missing	164	205	65	250
.u:unmar	2260	2401	2719	2926
0.no	12436	13395	16227	14019
1.yes	2852	2611	2086	2621
Value-----	R1FDADLIV	R2FDADLIV		
0.No dispute	17207	18097		
2.Disp last iw N -> Y, still alive this		45		
3.Disp last iw N -> y, Died this wave		268		
5.Disp aft, N -> Y	314			
Value-----	S1FDADLIV	S2FDADLIV		
0.No dispute	15045	15763		
2.Disp last iw N -> Y, still alive this		39		
3.Disp last iw N -> y, Died this wave		204		
5.Disp aft, N -> Y	243			

### How Constructed:

In CHARLS, the family respondent is asked about the mortality of both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwfFAMR.

RwMOMLIV indicates whether the respondent's mother is alive. RwMOMLIV is assigned 0 if the mother is deceased. RwMOMLIV is assigned 1 if the mother is alive. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwMOMLIV is coded as blank missing (.) if the family respondent did not respond to this wave.

RwDADLIV indicates whether the respondent's father is alive. RwDADLIV is assigned 0 if the father is deceased. RwDADLIV is assigned 1 if the father is alive. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwDADLIV is coded as blank missing (.) if the family respondent did not respond to this wave.

SwMOMLIV and SwDADLIV indicate whether the respondent's spouse's mother and father, respectively, are still alive. In addition to the special missing values used in RwMOMLIV and RwDADLIV, SwMOMLIV and SwDADLIV employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwFMOMLIV indicates whether the respondent's mother's living status is disputed at the current interview or a later interview. At Wave 2, respondents who previously were recorded as having a mother that died are allowed to dispute the response. If the respondent disputes the previous response of their mother's mortality, they are then asked whether their mother is still alive. The codes for this flag variables is: 0.no dispute and no change; 2.disputes previous record that the parent was dead, now reports they were alive in the previous wave and that they are still alive currently - prior wave reset to alive, current wave set to alive; 3.disputes previous record that the parent was dead, now reports they were alive in the previous wave but that they have died in the time since the previous wave - prior wave reset to alive, current wave set to dead; 5.dispute of preloaded condition at a later wave has changed this wave's report from dead to alive.

RwFDADLIV indicates whether the respondent's father's living status is disputed at the current interview or a later interview. At Wave 2, respondents who previously were recorded as having a father that died are allowed to dispute the response. If the respondent disputes the previous response of their father's mortality, they are then asked whether their father is still alive. The codes for this flag variables is: 0.no dispute and no change; 2.disputes previous record that the parent was dead, now reports they were alive in the previous wave and that they are still alive currently - prior wave reset to alive, current wave set to alive; 3.disputes previous record that the parent was dead, now reports they were alive in the previous wave but that they have died in the time since the previous wave - prior wave reset to alive, current wave set to dead; 5.dispute of preloaded condition at a later wave has changed this wave's report from dead to alive.

Please note that there are a number of cases starting at Wave 3 in which the respondent reports the parent was deceased last wave, but alive the current wave. Starting at Wave 3, the questionnaire does not correct for such differences, as Wave 2 does.

SwFMOMLIV and SwFDADLIV indicate whether living status of the respondent's spouse's mother and father, respectively, is disputed at the current interview or a later interview. In addition to the special missing values used in RwFMOMLIV and RwFDADLIV, SwFMOMLIV and SwFDADLIV employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwLIVPAR is the number of living parents of the respondent. RwLIVPAR is derived by summing RwMOMLIV and RwDADLIV. If either RwMOMLIV or RwDADLIV is missing, RwLIVPAR is set as missing. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwLIVPAR is coded as blank missing (.) if the family respondent did not respond to this wave.

SwLIVPAR is the number of living parents of the respondent's spouse. SwLIVPAR is derived by summing SwMOMLIV and SwDADLIV. If either SwMOMLIV or SwDADLIV is missing, SwLIVPAR is missing. In addition to the special missing values used in RwLIVPAR, SwLIVPAR employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwMOMAGE indicates the current age of the respondent's mother if living or the age at death if deceased. Special missing code (.i) is assigned if the age reported is younger than 10 or older than 120, if the year of death is earlier or equal to the birth year, or if the year of death is later than the interview year. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwMOMAGE is coded as blank missing (.) if the family respondent did not respond to this wave.

RwDADAGE indicates the current age of the respondent's father if living or the age at death if deceased. Special missing code (.i) is assigned if the age reported is younger than 10 or older than 120, if the year of death is earlier or equal to the birth year, or if the year of death is later than the interview year. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwDADAGE is coded as blank missing (.) if the family respondent did not respond to this wave.

SwMOMAGE and SwDADAGE indicate the current age of the respondent's spouse's mother and father, respectively, if living or the age at death if deceased. In addition to the special missing values used in RwMOMAGE and RwDADAGE, SwMOMAGE and SwDADAGE employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

At Wave 3, questions regarding parent information are specified for biological parents, stepparents, and adoptive parents. Wave 3 is coded to prioritize responses for biological parents,

adoptive parents, and stepparents, in that order. Starting at Wave 4, questions regarding parent information are specified for biological parents and adoptive parents. Wave 4 is coded to prioritize responses for biological parents and adoptive parents, in that order.

### Cross Wave Differences in CHARLS

At Wave 2, the respondent is asked to verify whether the parental mortality they reported in previous wave is correct or not. If the information is incorrect, the respondent disputes and reports the correct information. Starting at Wave 3, the respondent is no longer asked to verify whether the parental mortality they reported in the previous wave is correct or not.

At Waves 1 and 2, respondents report age whether a parent is alive or not, making note of parental type only after the question is asked. At Wave 3, family respondents report parental age and mortality for biological parents, stepparents, and adoptive parents. Starting at Wave 4, family respondents report parental age and mortality for biological parents and adoptive parents.

In the current release of the CHARLS data there is a high number of individuals with missing information regarding parental age at Waves 1 to 4.

### Differences with the RAND HRS/Harmonized HRS

There are no dispute variables for parents living status in the RAND HRS.

### CHARLS Variables Used:

Wave 1:

A003_1_10_	Year
A003_1_11_	Year
A003_1_12_	Year
A003_1_13_	Year
A003_1_14_	Year
A003_1_15_	Year
A003_1_16_	Year
A003_1_1_	Year
A003_1_2_	Year
A003_1_3_	Year
A003_1_4_	Year
A003_1_5_	Year
A003_1_6_	Year
A003_1_7_	Year
A003_1_8_	Year
A003_1_9_	Year
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CA001_1_	STILL LIVING
CA001_2_	STILL LIVING
CA001_3_	STILL LIVING
CA001_4_	STILL LIVING
CA007_1_	THE BIRTH YEAR OF YOUR FATHER
CA007_2_	THE BIRTH YEAR OF YOUR FATHER
CA007_3_	THE BIRTH YEAR OF YOUR FATHER
CA007_4_	THE BIRTH YEAR OF YOUR FATHER
CA008_1_1_	which year pass away
CA008_1_2_	which year pass away



CA008_1_3_	which year pass away
CA008_1_4_	which year pass away
CA008_2_1_	age pass away
CA008_2_2_	age pass away
CA008_2_3_	age pass away
CA008_2_4_	age pass away
Wave 2:	
A003_1_10_	Birth Year of Household Member
A003_1_11_	Birth Year of Household Member
A003_1_12_	Birth Year of Household Member
A003_1_13_	Birth Year of Household Member
A003_1_14_	Birth Year of Household Member
A003_1_15_	Birth Year of Household Member
A003_1_16_	Birth Year of Household Member
A003_1_1_	Birth Year of Household Member
A003_1_2_	Birth Year of Household Member
A003_1_3_	Birth Year of Household Member
A003_1_4_	Birth Year of Household Member
A003_1_5_	Birth Year of Household Member
A003_1_6_	Birth Year of Household Member
A003_1_7_	Birth Year of Household Member
A003_1_8_	Birth Year of Household Member
A003_1_9_	Birth Year of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You
A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CA000_W2_1_1_	Was Your Father Dead at Last Wave
CA000_W2_1_2_	Was Your Mother Dead at Last Wave
CA000_W2_1_3_	Was Your Father-in-law Dead at Last Wave
CA000_W2_1_4_	Was Your Mother-in-law Dead at Last Wave
CA001_1_	Is Your Father Living
CA001_2_	Is Your Mother Living
CA001_3_	Is Your Father-in-law Living
CA001_4_	Is Your Mother-in-law Living
CA007_1_	Birth Year of Father
CA007_2_	Birth Year of Mother
CA007_3_	Birth Year of Father-in-law
CA007_4_	Birth Year of Mother-in-law
CA008_1_1_	Which Year Pass Away
CA008_1_2_	Which Year Pass Away
CA008_1_3_	Which Year Pass Away
CA008_1_4_	Which Year Pass Away
CA008_2_1_	How Old Pass Away
CA008_2_2_	How Old Pass Away
CA008_2_3_	How Old Pass Away
CA008_2_4_	How Old Pass Away
ZA003_1_1_	Birth Year of Household Member
Life History:	
A11A_3	Is Step Father Living
A11A_4_1	Passed Away Year
A11A_4_2	Passed Away Age
A11B_3	Is Step Mother Living
A11B_4_1	Passed Away Year
A12A_3	Is Step Father Living
A12A_4_1	Passed Away Year
A12A_4_2	Passed Away Age

A12B_3	Is Step Mother Living
A12B_4_1	Passed Away Year
A12B_4_2	Passed Away Age
A1A	Is Your Biological Mother Living
A1B	Is Biological Father Living
A2A_1	Pass Away Year
A2A_1	Pass Away Year
A2B_1	When did she pass away? \$Answer2\$ year \$Answer3\$ month[IWER: Ma
A2B_2	When did she pass away? \$Answer2\$ year \$Answer3\$ month[IWER: Ma
A5A	Biological Mother's Birth Year
A5B	Birth Year of Biological Father
A5D	Birth Year of Step Mother
A5F	Birth Year of Step Father
Wave 3:	
A001_W3_OS1	Which Parents
A001_W3_OS10	Which Parents
A001_W3_OS11	Which Parents
A001_W3_OS12	Which Parents
A001_W3_OS2	Which Parents
A001_W3_OS3	Which Parents
A001_W3_OS4	Which Parents
A001_W3_OS5	Which Parents
A001_W3_OS6	Which Parents
A001_W3_OS7	Which Parents
A001_W3_OS8	Which Parents
A001_W3_OS9	Which Parents
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
CA000_W3_1_1_	Birth Year of R's Biological Father
CA000_W3_1_2_	Birth Year of Spouse's Biological Father
CA000_W3_2_1_	R's Biological Father Is Still Alive
CA000_W3_2_2_	Spouse's Biological Father Is Still Alive
CA000_W3_3_1_1_	The Year R's Biological Father Passed Away
CA000_W3_3_1_2_	The Year Spouse's Biological Father Passed Away
CA000_W3_3_2_1_	The Age at Which R's Biological Father Passed Away
CA000_W3_3_2_2_	The Age at Which Spouse's Biological Father Passed Away
CA001_W3_1_1_	Birth Year of R's Biological Mother
CA001_W3_1_2_	Birth Year of Spouse's Biological Mother
CA001_W3_2_1_	R's Biological Mother is Still Alive
CA001_W3_2_2_	Spouse's Biological Mother is Still Alive
CA001_W3_3_2_1_	The Age at Which R's Biological Mother Passed Away
CA001_W3_3_2_2_	The Age at Which Spouse's Biological Mother Passed Away
CA004_W3_2_1_	R's Stepfather Is Still Living
CA004_W3_2_2_	Spouse's Stepfather Is Still Living
CA004_W3_3_1_	Birth Year of R's Stepfather
CA004_W3_3_2_	Birth Year of Spouse's Stepfather
CA005_W3_2_1_	R's Stepmother Is Still Living
CA005_W3_2_2_	Spouse's Stepmother is Still Living
CA005_W3_3_1_	Birth Year of R's Stepmother
CA005_W3_3_2_	Birth Year of Spouse's Stepmother
CA006_W3_2_1_	R's Adopted Father Is Still Living
CA006_W3_2_2_	Spouse's Adopted Father Is Still Living
CA006_W3_3_1_	Birth Year of R's Adopted Father
CA006_W3_3_2_	Birth Year of Spouse's Adopted Father
CA007_W3_2_1_	R's Adopted Mother Is Still Living
CA007_W3_2_2_	Spouse's Adopted Mother Is Still Living
CA007_W3_3_1_	Birth Year of R's Adopted Mother
CA007_W3_3_2_	Birth Year of Spouse's Adopted Mother
CA016_10_	The Place Where Spouse's Stepmother Normally Live
CA016_11_	The Place Where Spouse's Adopted Father Normally Live
CA016_12_	The Place Where Spouse's Adopted Mother Normally Live

CA016_1_	The Place Where R's Biological Father Normally Live
CA016_2_	The Place Where R's Biological Mother Normally Live
CA016_3_	The Place Where R's Stepfather Normally Live
CA016_4_	The Place Where R's Stepmother Normally Live
CA016_5_	The Place Where R's Adopted Father Normally Live
CA016_6_	The Place Where R's Adopted Mother Normally Live
CA016_7_	The Place Where Spouse's Biological Father Normally Live
CA016_8_	The Place Where Spouse's Biological Mother Normally Live
CA016_9_	The Place Where Spouse's Stepfather Normally Live
CD001_10_S3	Whom Does R's Stepfather Live With
CD001_11_S3	Whom Does R's Stepfather Live With
CD001_12_S3	Whom Does R's Stepfather Live With
CD001_1_S3	Whom Does R's Stepfather Live With
CD001_2_S3	Whom Does R's Stepfather Live With
CD001_3_S3	Whom Does R's Stepfather Live With
CD001_4_S3	Whom Does R's Stepfather Live With
CD001_5_S3	Whom Does R's Stepfather Live With
CD001_6_S3	Whom Does R's Stepfather Live With
CD001_7_S3	Whom Does R's Stepfather Live With
CD001_8_S3	Whom Does R's Stepfather Live With
CD001_9_S3	Whom Does R's Stepfather Live With
ZCA001_1_	R's Biological Father Was Not Living
ZCA001_2_	R's Biological Mother Was Not Living
ZCA001_7_	Spouse's Biological Father Was Not Living
ZCA001_8_	Spouse's Biological Mother Was Not Living
Wave 4:	
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
CA000_W3_3_1_1_	When did Biological Father Die
CA000_W3_3_1_2_	When did Biological Father Die
CA000_W3_3_2_1_	The Age of Biological Father When He Died
CA000_W3_3_2_2_	The Age of Biological Father When He Died
CA000_W4_1_1_	Biological Father was Born in [ZparBirth[1]]
CA001_W3_3_1_1_	When did Biological Mother Die
CA001_W3_3_1_2_	When did Biological Mother Die
CA001_W3_3_2_1_	The Age of Biological Mother When He Died
CA001_W3_3_2_2_	The Age of Biological Mother When He Died
CA001_W4_1_1_	Biological Mother was Born in [ZparBirth[2]]
CA016_1_	Where is [ParType[1]] Living Regularly
CA016_2_	Where is [ParType[2]] Living Regularly
CA016_3_	Where is [ParType[3]] Living Regularly
CA016_4_	Where is [ParType[4]] Living Regularly
CA016_5_	Where is [ParType[5]] Living Regularly
CA016_6_	Where is [ParType[6]] Living Regularly
CA016_7_	Where is [ParType[7]] Living Regularly
CA016_8_	Where is [ParType[8]] Living Regularly
CD001_W4_1_	Who Live with XConParName[1]
CD001_W4_2_	Who Live with XConParName[2]
CD001_W4_3_	Who Live with XConParName[3]
CD001_W4_4_	Who Live with XConParName[4]
CD001_W4_5_	Who Live with XConParName[5]
CD001_W4_6_	Who Live with XConParName[6]
CD001_W4_7_	Who Live with XConParName[7]
CD001_W4_8_	Who Live with XConParName[8]
XPARALIVE_1_	Whether Parent[1] is Alive
XPARALIVE_2_	Whether Parent[2] is Alive
XPARALIVE_3_	Whether Parent[3] is Alive
XPARALIVE_4_	Whether Parent[4] is Alive
XPARALIVE_5_	Whether Parent[5] is Alive
XPARALIVE_6_	Whether Parent[6] is Alive
XPARALIVE_7_	Whether Parent[7] is Alive

---

XPARALIVE_8_	Whether Parent[8] is Alive
XPARBIRTH_1_	Parent[1]'s Birth Year
XPARBIRTH_2_	Parent[2]'s Birth Year
XPARBIRTH_3_	Parent[3]'s Birth Year
XPARBIRTH_4_	Parent[4]'s Birth Year
XPARBIRTH_5_	Parent[5]'s Birth Year
XPARBIRTH_6_	Parent[6]'s Birth Year
XPARBIRTH_7_	Parent[7]'s Birth Year
XPARBIRTH_8_	Parent[8]'s Birth Year
ZPARBIRTH_1_	ZParBirth[1]
ZPARBIRTH_2_	ZParBirth[2]
ZPARBIRTH_3_	ZParBirth[3]
ZPARBIRTH_4_	ZParBirth[4]
ZPARDYEAR_1_	ZParDYear[1]
ZPARDYEAR_2_	ZParDYear[2]

**Parental SES: Education**

Wave	Variable	Label	Type
1	RAMEDUC_C	rameduc_c:r mother's education	Categ
1	S1MEDUC_C	s1meduc_c:w1 s mother's education	Categ
2	S2MEDUC_C	s2meduc_c:w2 s mother's education	Categ
3	S3MEDUC_C	s3meduc_c:w3 s mother's education	Categ
4	S4MEDUC_C	s4meduc_c:w4 s mother's education	Categ
1	RAFEDUC_C	rafeduc_c:r father's education	Categ
1	S1FEDUC_C	s1feduc_c:w1 s father's education	Categ
2	S2FEDUC_C	s2feduc_c:w2 s father's education	Categ
3	S3FEDUC_C	s3feduc_c:w3 s father's education	Categ
4	S4FEDUC_C	s4feduc_c:w4 s father's education	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
RAMEDUC_C	24508	1.43	1.11	1.00	11.00
S1MEDUC_C	14421	1.28	0.90	1.00	9.00
S2MEDUC_C	14808	1.33	1.00	1.00	11.00
S3MEDUC_C	15519	1.38	1.04	1.00	9.00
S4MEDUC_C	16792	1.49	1.17	1.00	11.00
RAFEDUC_C	24221	2.21	1.69	1.00	11.00
S1FEDUC_C	14199	1.93	1.51	1.00	10.00
S2FEDUC_C	14236	2.02	1.57	1.00	10.00
S3FEDUC_C	14988	2.15	1.63	1.00	9.00
S4FEDUC_C	16776	2.30	1.71	1.00	11.00

**Categorical Variable Codes**

Value	RAMEDUC_C	S1MEDUC_C	S2MEDUC_C	S3MEDUC_C	S4MEDUC_C
.d:dk	164	504	322	197	3
.m:missing	914	519	1072	2641	88
.r:refuse		4	1	1	
.u:unmar		2260	2409	2739	2933
1.No formal education (illiterate)	20353	12797	12833	13119	13499
2.Did not finish primary school but capa	1527	587	749	888	1206
3.Sishu	285	181	170	190	181
4.Elementary school	1543	587	681	905	1300
5.Middle school	488	159	224	256	382
6.High school	169	55	83	91	129
7.Vocational school	98	43	42	50	68
8.Two/Three Year College/Associate degree	13	4	9	4	13
9.Four Year College/Bachelor's degree	30				
11.Post-graduate(PhD)	2				

9.Four Year College/Bachelor's degree	8	16	16	13
11.Post-graduate(PhD)		1		1
Value-----	RAFEDUC_C			
.d:dk	306			
.m:missing	1058			
.r:refuse	1			
1.No formal education (illiterate)	13209			
2.Did not finish primary school but capa	3151			
3.Sishu	2146			
4.Elementary school	3216			
5.Middle school	1382			
6.High school	507			
7.Vocational school	311			
8.Two/Three Year College/Associate degre	98			
9.Four Year College/Bachelor's degree	197			
10.Post-graduate(Master)	3			
11.Post-graduate(PhD)	1			
Value-----	S1FEDUC_C	S2FEDUC_C	S3FEDUC_C	S4FEDUC_C
.d:dk	947	671	403	8
.m:missing	298	1294	2964	98
.r:refuse	4			
.u:unmar	2260	2411	2742	2934
1.No formal education (illiterate)	8929	8548	8463	8653
2.Did not finish primary school but capa	1626	1791	1830	2430
3.Sishu	1206	1154	1316	1235
4.Elementary school	1455	1616	1945	2500
5.Middle school	529	601	822	1135
6.High school	209	247	295	408
7.Vocational school	136	151	176	227
8.Two/Three Year College/Associate degre	43	50	55	73
9.Four Year College/Bachelor's degree	65	77	86	113
10.Post-graduate(Master)	1	1		1
11.Post-graduate(PhD)				1

### How Constructed:

In CHARLS, the family respondent is asked parental education for both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwfAMR.

At Wave 1, respondents are asked to report the highest level of education completed by their parents if their parent does not co-reside with the respondent.

At Wave 2, respondents are asked to report the highest level of education completed by their parents if they are new respondents or if this information was not reported at the previous interview.

At the CHARLS Life History survey, respondents are asked to report the highest level of education completed by their biological parents and adoptive parents or stepparents if their adoptive parents or stepparents spent the most time raising the respondent before the respondent was age 17.

At Wave 3, respondents are asked to report the highest level of education completed by their alive biological parents, adoptive parents, and stepparents.

At Wave 4, re-interview respondents are read each of their answers to highest level of education completed by each alive or deceased biological parent and alive adoptive parent in the last interview. The respondent is then asked whether this answer is correct. If the answer is not correct or if the respondent is new to CHARLS, the respondent is asked to report the highest level of education completed by their alive or deceased biological parents and alive adoptive parents.

RAMEDUC\_C indicates the highest level of education completed by the respondent's mother. RAFEDUC\_C indicates the highest level of education completed by respondent's father. RAMEDUC\_C and RAFEDUC\_C are derived to make use of the most recently reported parental education information.

RAMEDUC\_C and RAFEDUC\_C are coded as follows: 1.No formal education (illiterate), 2.Did not finish primary school but capable of reading and/or writing, 3.Sishu, 4.Elementary school, 5.Middle school, 6.High school, 7.Vocational school, 8.Two/Three Year College/Associate degree, 9.Four Years

College/Bachelor's Degree, 10.Post-graduate (Master) and 11.Post-graduate (PhD). At Wave 3 and the Life History survey, RAMEDUC\_C and RAFEDUC\_C are coded to prioritize biological parents, adoptive parents, and stepparents, in that order. At Wave 4, RAMEDUC\_C and RAFEDUC\_C are coded to prioritize biological parents and adoptive parents, in that order. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwMEDUC\_C and RwfEDUC\_C are coded as blank missing (.) if the family respondent who did not respond to this wave.

SwMEDUC\_C and SwFEDUC\_C indicate the highest level of education completed by respondent's spouse's mother and father, respectively. In addition to the special missing values used in RAMEDUC\_C and RAFEDUC\_C, SwMEDUC\_C and SwFEDUC\_C employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, respondents are asked to report the highest level of education completed by their parents if their parent does not co-reside with the respondent.

At Wave 2, respondents are asked to report the highest level of education completed by their parents if they are new respondents or if this information was not reported at the previous interview.

At the CHARLS Life History survey, respondents are asked to report the highest level of education completed by their biological parents and adoptive parents or stepparents if their adoptive parents or stepparents spent the most time raising the respondent before the respondent was age 17.

At Wave 3, respondents are asked to report the highest level of education completed by their alive biological parents, adoptive parents, and stepparents.

At Wave 4, re-interview respondents are read each of their answers to highest level of education completed by each alive or deceased biological parent and alive adoptive parent in the last interview. The respondent is then asked whether this answer is correct. If the answer is not correct or if the respondent is new to CHARLS, the respondent is asked to report the highest level of education completed by their alive or deceased biological parents and alive adoptive parents.

## Differences with the RAND HRS/Harmonized HRS

The highest level of education completed by each parent is asked with different categories between the HRS and CHARLS. As such, the Harmonized HRS includes RAMOMEDUCL, RADADEDUCL, RAMOMEDUC8, and RADADEDUCL8, which indicate the respondent's parents' harmonized level of education with 3 categories and a binary variable indicating whether they completed 8 or more years of education. The Harmonized CHARLS includes RAMEDUC\_C and RAFEDUC\_C, which indicate the respondent's parents' highest level of education using 11 categories.

## CHARLS Variables Used:

### Wave 1:

CA009_1_	THE HIGHEST LEVEL OF EDUCATION
CA009_2_	THE HIGHEST LEVEL OF EDUCATION
CA009_3_	THE HIGHEST LEVEL OF EDUCATION
CA009_4_	THE HIGHEST LEVEL OF EDUCATION

### Wave 2:

CA009_1_	Father's Highest Level of Education
CA009_2_	Mother's Highest Level of Education
CA009_3_	Father-in-law's Highest Level of Education
CA009_4_	Mother-in-law's Highest Level of Education

### Life History:

A6A	Education Level of Biological Mother
A6B	Education Level of Biological Father
A6C	Education Level of Adopted Mother
A6D	Education Level of Step Mother
A6E	Education Level of Adopted Father
A6F	Is your step mother/ adoptive mother living?

### Wave 3:

CA009_10_	Spouse's Stepmother's Highest Level of Education
CA009_11_	Spouse's Adopted Father's Highest Level of Education
CA009_12_	Spouse's Adopted Mother's Highest Level of Education

CA009_1_	R's Biological Father's Highest Level of Education
CA009_2_	R's Biological Mother's Highest Level of Education
CA009_3_	R's Stepfather's Highest Level of Education
CA009_4_	R's Stepmother's Highest Level of Education
CA009_5_	R's Adopted Father's Highest Level of Education
CA009_6_	R's Adopted Mother's Highest Level of Education
CA009_7_	Spouse's Biological Father's Highest Level of Education
CA009_8_	Spouse's Biological Mother's Highest Level of Education
CA009_9_	Spouse's Stepfather's Highest Level of Education

## Wave 4:

CA009_1_	[ParType[1]]'s Highest Degree
CA009_2_	[ParType[2]]'s Highest Degree
CA009_3_	[ParType[3]]'s Highest Degree
CA009_4_	[ParType[4]]'s Highest Degree
CA009_5_	[ParType[5]]'s Highest Degree
CA009_6_	[ParType[6]]'s Highest Degree
CA009_7_	[ParType[7]]'s Highest Degree
CA009_8_	[ParType[8]]'s Highest Degree
CA009_W4_1_	[ParType[1]]'s Highest Degree is [ZParEdu[1]]
CA009_W4_2_	[ParType[2]]'s Highest Degree is [ZParEdu[2]]
CA009_W4_3_	[ParType[3]]'s Highest Degree is [ZParEdu[3]]
CA009_W4_4_	[ParType[4]]'s Highest Degree is [ZParEdu[4]]
CA009_W4_5_	[ParType[5]]'s Highest Degree is [ZParEdu[5]]
CA009_W4_6_	[ParType[6]]'s Highest Degree is [ZParEdu[6]]
CA009_W4_7_	[ParType[7]]'s Highest Degree is [ZParEdu[7]]
CA009_W4_8_	[ParType[8]]'s Highest Degree is [ZParEdu[8]]
ZPAREDU_1_	ZParEdu[1]
ZPAREDU_2_	ZParEdu[2]
ZPAREDU_3_	ZParEdu[3]
ZPAREDU_4_	ZParEdu[4]
ZPAREDU_5_	ZParEdu[5]
ZPAREDU_6_	ZParEdu[6]
ZPAREDU_7_	ZParEdu[7]
ZPAREDU_8_	ZParEdu[8]



<b>Parental SES: Harmonized Education</b>
---

Wave	Variable	Label	Type
1	RAMOMEDUCL	ramomeducl:r mother's harmonized education levels	Categ
1	S1MOMEDUCL	s1momeducl:w1 s mother's harmonized education levels	Categ
2	S2MOMEDUCL	s2momeducl:w2 s mother's harmonized education levels	Categ
3	S3MOMEDUCL	s3momeducl:w3 s mother's harmonized education levels	Categ
4	S4MOMEDUCL	s4momeducl:w4 s mother's harmonized education levels	Categ
1	RADADEDUCL	radadeducl:r father's harmonized education levels	Categ
1	S1DADEDUCL	s1dadeducl:w1 s father's harmonized education levels	Categ
2	S2DADEDUCL	s2dadeducl:w2 s father's harmonized education levels	Categ
3	S3DADEDUCL	s3dadeducl:w3 s father's harmonized education levels	Categ
4	S4DADEDUCL	s4dadeducl:w4 s father's harmonized education levels	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAMOMEDUCL	24508	1.01	0.13	1.00	3.00
S1MOMEDUCL	14421	1.01	0.10	1.00	3.00
S2MOMEDUCL	14808	1.01	0.12	1.00	3.00
S3MOMEDUCL	15519	1.01	0.12	1.00	3.00
S4MOMEDUCL	16792	1.01	0.13	1.00	3.00
RADADEDUCL	24221	1.06	0.28	1.00	3.00
S1DADEDUCL	14199	1.04	0.23	1.00	3.00
S2DADEDUCL	14236	1.05	0.25	1.00	3.00
S3DADEDUCL	14988	1.05	0.26	1.00	3.00
S4DADEDUCL	16776	1.06	0.28	1.00	3.00

### Categorical Variable Codes

Value-----	RAMOMEDUCL			
.d:dk	164			
.m:missing	914			
1.Less than lower secondary	24196			
2.upper secondary & vocational training	267			
3.tertiary	45			
Value-----	S1MOMEDUCL	S2MOMEDUCL	S3MOMEDUCL	S4MOMEDUCL
.d:dk	504	322	197	3
.m:missing	519	1072	2641	88
.r:refuse	4	1	1	
.u:unmar	2260	2409	2739	2933
1.Less than lower secondary	14311	14657	15358	16568
2.upper secondary & vocational training	98	125	141	197
3.tertiary	12	26	20	27
Value-----	RADADEDUCL			
.d:dk	306			
.m:missing	1058			
.r:refuse	1			
1.Less than lower secondary	23104			
2.upper secondary & vocational training	818			
3.tertiary	299			
Value-----	S1DADEDUCL	S2DADEDUCL	S3DADEDUCL	S4DADEDUCL
.d:dk	947	671	403	8
.m:missing	298	1294	2964	98

.r:refuse	4			
.u:unmar	2260	2411	2742	2934
1.Less than lower secondary	13745	13710	14376	15953
2.upper secondary & vocational training	345	398	471	635
3.tertiary	109	128	141	188

### How Constructed:

In CHARLS, the family respondent is asked parental education for both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwfAMR.

At Wave 1, respondents are asked to report the highest level of education completed by their parents if their parent does not co-reside with the respondent.

At Wave 2, respondents are asked to report the highest level of education completed by their parents if they are new respondents or if this information was not reported at the previous interview.

At the CHARLS Life History survey, respondents are asked to report the highest level of education completed by their biological parents and adoptive parents or stepparents if their adoptive parents or stepparents spent the most time raising the respondent before the respondent was age 17.

At Wave 3, respondents are asked to report the highest level of education completed by their alive biological parents, adoptive parents, and stepparents.

At Wave 4, re-interview respondents are read each of their answers to highest level of education completed by each alive or deceased biological parent and alive adoptive parent in the last interview. The respondent is then asked whether this answer is correct. If the answer is not correct or if the respondent is new to CHARLS, the respondent is asked to report the highest level of education completed by their alive or deceased biological parents and alive adoptive parents.

RAMOMEDUCL indicates the highest level of education completed by the respondent's mother. RADADEDUCL indicates the highest level of education completed by respondent's father. RAMOMEDUCL and RADADEDUCL are coded according to a three-tier harmonized scale which we developed to compare education levels across countries. This Harmonized education scale is a simplified version of 1997 International Standard Classification of Education (ISCED-97) codes. For more information on ISCED codes, see [www.uis.unesco.org](http://www.uis.unesco.org) and the OECD document entitled "Classifying Educational Programmes: Manual for ISCED-97 Implementation in OECD Countries, 1999 Edition". RAMOMEDUCL and RADADEDUCL are derived to make use of the most recently reported parental education information.

RAMOMEDUCL and RADADEDUCL are coded as follows: 1.Less than lower secondary education, 2.Upper secondary & vocational training, and 3.Tertiary education. RAMOMEDUCL and RADADEDUCL are assigned 1 if the respondent reports an educational level of "No formal education (illiterate)", "Did not finish primary school but capable of reading and/or writing", "Sishu", "Elementary school", or "Middle school". RAMOMEDUCL and RADADEDUCL are assigned 2 if the respondent reports an education level of "High school" or "Vocational school". RAMOMEDUCL and RADADEDUCL are assigned 3 if the respondent reports an education level of "Two/Three Year College/Associate degree", "Four Years College/Bachelor's Degree", "Post-graduate (Master)", or "Post-graduate (PhD)". At Wave 3 and the Life History survey, RAMOMEDUCL and RADADEDUCL are coded to prioritize biological parents, adoptive parents, and stepparents, in that order. At Wave 4, RAMOMEDUCL and RADADEDUCL are coded to prioritize biological parents and adoptive parents, in that order. Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwmOMEDUCL and RwdADEDUCL are coded as blank missing (.) if the family respondent who did not respond to this wave.

SwMOMEDUCL and SwDADEDUCL indicate the highest level of education completed by respondent's spouse's mother and father, respectively. In addition to the special missing values used in RAMOMEDUCL and RADADEDUCL, SwMOMEDUCL and SwDADEDUCL employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Wave 1, respondents are asked to report the highest level of education completed by their parents if their parent does not co-reside with the respondent.

At Wave 2, respondents are asked to report the highest level of education completed by their parents if they are new respondents or if this information was not reported at the previous interview.

At the CHARLS Life History survey, respondents are asked to report the highest level of education completed by their biological parents and adoptive parents or stepparents if their adoptive parents or stepparents spent the most time raising the respondent before the respondent was age 17.

At Wave 3, respondents are asked to report the highest level of education completed by their alive biological parents, adoptive parents, and stepparents.

At Wave 4, re-interview respondents are read each of their answers to highest level of education completed by each alive or deceased biological parent and alive adoptive parent in the last interview. The respondent is then asked whether this answer is correct. If the answer is not correct or if the respondent is new to CHARLS, the respondent is asked to report the highest level of education completed by their alive or deceased biological parents and alive adoptive parents.

## Differences with the RAND HRS/Harmonized HRS

CHARLS specifically asked for the highest level of education, not including adult education. HRS does not include any specific information about whether to include or not include adult education.

## CHARLS Variables Used:

### Wave 1:

CA009_1_	THE HIGHEST LEVEL OF EDUCATION
CA009_2_	THE HIGHEST LEVEL OF EDUCATION
CA009_3_	THE HIGHEST LEVEL OF EDUCATION
CA009_4_	THE HIGHEST LEVEL OF EDUCATION

### Wave 2:

CA009_1_	Father's Highest Level of Education
CA009_2_	Mother's Highest Level of Education
CA009_3_	Father-in-law's Highest Level of Education
CA009_4_	Mother-in-law's Highest Level of Education

### Life History:

A6A	Education Level of Biological Mother
A6B	Education Level of Biological Father
A6C	Education Level of Adopted Mother
A6D	Education Level of Step Mother
A6E	Education Level of Adopted Father
A6F	Is your step mother/ adoptive mother living?

### Wave 3:

CA009_10_	Spouse's Stepmother's Highest Level of Education
CA009_11_	Spouse's Adopted Father's Highest Level of Education
CA009_12_	Spouse's Adopted Mother's Highest Level of Education
CA009_1_	R's Biological Father's Highest Level of Education
CA009_2_	R's Biological Mother's Highest Level of Education
CA009_3_	R's Stepfather's Highest Level of Education
CA009_4_	R's Stepmother's Highest Level of Education
CA009_5_	R's Adopted Father's Highest Level of Education
CA009_6_	R's Adopted Mother's Highest Level of Education
CA009_7_	Spouse's Biological Father's Highest Level of Education
CA009_8_	Spouse's Biological Mother's Highest Level of Education
CA009_9_	Spouse's Stepfather's Highest Level of Education

### Wave 4:

CA009_1_	[ParType[1]]'s Highest Degree
CA009_2_	[ParType[2]]'s Highest Degree
CA009_3_	[ParType[3]]'s Highest Degree
CA009_4_	[ParType[4]]'s Highest Degree
CA009_5_	[ParType[5]]'s Highest Degree
CA009_6_	[ParType[6]]'s Highest Degree
CA009_7_	[ParType[7]]'s Highest Degree
CA009_8_	[ParType[8]]'s Highest Degree
CA009_W4_1_	[ParType[1]]'s Highest Degree is [ZParEdu[1]]
CA009_W4_2_	[ParType[2]]'s Highest Degree is [ZParEdu[2]]
CA009_W4_3_	[ParType[3]]'s Highest Degree is [ZParEdu[3]]
CA009_W4_4_	[ParType[4]]'s Highest Degree is [ZParEdu[4]]
CA009_W4_5_	[ParType[5]]'s Highest Degree is [ZParEdu[5]]

---

CA009_W4_6_	[ParType[6]]'s Highest Degree is [ZParEdu[6]]
CA009_W4_7_	[ParType[7]]'s Highest Degree is [ZParEdu[7]]
CA009_W4_8_	[ParType[8]]'s Highest Degree is [ZParEdu[8]]
ZPAREDU_1_	ZParEdu[1]
ZPAREDU_2_	ZParEdu[2]
ZPAREDU_3_	ZParEdu[3]
ZPAREDU_4_	ZParEdu[4]
ZPAREDU_5_	ZParEdu[5]
ZPAREDU_6_	ZParEdu[6]
ZPAREDU_7_	ZParEdu[7]
ZPAREDU_8_	ZParEdu[8]

<b>Parental SES: Occupation</b>
---------------------------------

Wave	Variable	Label	Type
1	RAMOMOCCUP_C	ramomoccup_c:r mother's occupation before age 17	Categ
1	S1MOMOCCUP_C	s1momoccup_c:w1 s mother's occupation before age 17	Categ
2	S2MOMOCCUP_C	s2momoccup_c:w2 s mother's occupation before age 17	Categ
3	S3MOMOCCUP_C	s3momoccup_c:w3 s mother's occupation before age 17	Categ
4	S4MOMOCCUP_C	s4momoccup_c:w4 s mother's occupation before age 17	Categ
1	RADADOCCUP_C	radadccup_c:r father's occupation before age 17	Categ
1	S1DADOCCUP_C	s1dadoccup_c:w1 s father's occupation before age 17	Categ
2	S2DADOCCUP_C	s2dadoccup_c:w2 s father's occupation before age 17	Categ
3	S3DADOCCUP_C	s3dadoccup_c:w3 s father's occupation before age 17	Categ
4	S4DADOCCUP_C	s4dadoccup_c:w4 s father's occupation before age 17	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAMOMOCCUP_C	17832	1.07	0.26	1.00	2.00
S1MOMOCCUP_C	10915	1.06	0.23	1.00	2.00
S2MOMOCCUP_C	12058	1.06	0.25	1.00	2.00
S3MOMOCCUP_C	14073	1.07	0.25	1.00	2.00
S4MOMOCCUP_C	12810	1.06	0.25	1.00	2.00
RADADOCCUP_C	18914	1.20	0.40	1.00	2.00
S1DADOCCUP_C	11605	1.18	0.38	1.00	2.00
S2DADOCCUP_C	12877	1.19	0.39	1.00	2.00
S3DADOCCUP_C	14915	1.20	0.40	1.00	2.00
S4DADOCCUP_C	13597	1.20	0.40	1.00	2.00

### Categorical Variable Codes

Value-----	RAMOMOCCUP_C			
.a:respondent not in wave				5335
.m:missing				273
.n:no mother figure				456
.w.Never worked				1690
1.Farming				16579
2 Non-Agricultural				1253
Value-----	S1MOMOCCUP_C	S2MOMOCCUP_C	S3MOMOCCUP_C	S4MOMOCCUP_C
.a:respondent not in wave	2514	1874	1926	2014
.m:missing	121	125	112	100
.n:no mother figure	292	307	327	295
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w.Never worked	1068	1216	1286	1143
1.Farming	10283	11276	13135	11981
2 Non-Agricultural	632	782	938	829
Value-----	RADADOCCUP_C			
.a:respondent not in wave				5335
.m:missing				307
.n:no father figure				871
.w.Never worked				159
1.Farming				15103
2 Non-Agricultural				3811
Value-----	S1DADOCCUP_C	S2DADOCCUP_C	S3DADOCCUP_C	S4DADOCCUP_C

.a:respondent not in wave	2514	1874	1926	2014
.m:missing	144	152	147	119
.n:no father figure	547	576	623	530
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w.Never worked	100	101	113	102
1.Farming	9517	10418	11943	10867
2 Non-Agricultural	2088	2459	2972	2730

### How Constructed:

Parental occupation questions are only asked in Life History Survey.

RAMOMOCCUP\_C indicates the respondent's mother's occupation before the respondent was age 17. RAMOMOCCUP\_C is assigned 1 if farming was the mother's occupation. RAMOMOCCUP\_C is assigned 2 if non-agricultural employment was the mother's occupation. Special missing value (.a) is assigned respondent did not participate in the Life History Survey. Special missing value (.n) is assigned respondent did not have a female guardian before age 17. Special missing value (.w) is assigned if the respondent's female guardian never worked before the respondent was age 17. Other missing values are assigned special missing value (.m).

RADADOCCUP\_C indicates the respondent's father's occupation before the respondent was age 17. RADADOCCUP\_C is assigned 1 if farming was the father's occupation. RADADOCCUP\_C is assigned 2 if non-agricultural employment was the father's occupation. Special missing value (.a) is assigned respondent did not participate in the Life History Survey. Special missing value (.n) is assigned respondent did not have a male guardian before age 17. Special missing value (.w) is assigned if respondent's male guardian never worked before the respondent was age 17. Other missing values are assigned special missing value (.m).

SwMOMOCCUP\_C and SwDADOCCUP\_C indicate the occupation of the respondent's spouse's mother and father, respectively, before the respondent's spouse was age 17. SwMOMOCCUP\_C and SwDADOCCUP\_C are taken from the spouse's values of RAMOMOCCUP\_C and RADADOCCUP\_C, respectively. In addition to the special missing values used in RAMOMOCCUP\_C and RADADOCCUP\_C, SwMOMOCCUP\_C and SwDADOCCUP\_C employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

Parental occupation questions are only asked in Life History Survey.

### Differences with the RAND HRS/Harmonized HRS

Unlike HRS, CHARLS asked the respondent parents' occupation before age 17 not at age 16 and only lets respondents report whether their parent's occupation was farming or non-agricultural.

### CHARLS Variables Used:

Life History:

C1_A1	Work Status of Female Dependents
C1_A2	Occupation of Female Dependents
C1_B1	Work Status of Male Dependents
C1_B2	Occupation of Male Dependents

## Whether Any Child Co-Resides with Respondent

Wave	Variable	Label	Type
1	H1CORESD	h1coresd:w1 any child co-reside with r/s	Categ
2	H2CORESD	h2coresd:w2 any child co-reside with r/s	Categ
3	H3CORESD	h3coresd:w3 any child co-reside with r/s	Categ
4	H4CORESD	h4coresd:w4 any child co-reside with r/s	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CORESD	17228	0.62	0.49	0.00	1.00
H2CORESD	18134	0.55	0.50	0.00	1.00
H3CORESD	20826	0.58	0.49	0.00	1.00
H4CORESD	19612	0.42	0.49	0.00	1.00

### Categorical Variable Codes

Value-----	H1CORESD	H2CORESD	H3CORESD	H4CORESD
.k:No Kid	480	478	271	204
0.no	6543	8226	8797	11311
1.yes	10685	9908	12029	8301

### How Constructed:

HwCORESD indicates whether any children of the respondent and spouse co-reside with them. HwCORESD is assigned 0 if the respondent does not report any children that co-reside with the respondent and spouse. RwCORESD is assigned 1 if the respondent reports that any child co-resides with the respondent and spouse. Special missing value (.k) is assigned if the respondent reports that they or the spouse have no living children. HwCORESD is coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 1, the number of co-resident children is obtained by counting all children listed in the household roster and counting any child that is not included in the household roster but is reported as normally living in the same household as the respondent.

At Wave 2, the number of co-resident children is obtained in one of two ways. The first way this is obtained is from the Childrearing Information subsection, in which respondents are asked where each child usually lives regardless of whether they have previously been identified as a household member. All children listed as normally live in the same household as the respondent are considered co-resident children. The second way this is obtained is from the Other Household Members subsection using the relationship and gender variables. The number of co-resident children is based on the largest value from these two modules.

Starting at Wave 3, the number of co-resident children is obtained by counting the children that the respondent reports as household members and the children that normally live in the same household as the respondent.

Children include biological children, adopted children, foster children, and stepchildren.

### Cross Wave Differences in CHARLS

At Wave 1, the number of co-resident children is obtained by counting all children listed in the household roster and counting any child that is not included in the household roster but is reported as normally living in the same household as the respondent.

At Wave 2, the number of co-resident children is obtained in one of two ways. The first way this is obtained is from the Childrearing Information subsection, in which respondents are asked where each child usually lives regardless of whether they have previously been identified as a household member. All children listed as normally live in the same household as the respondent are considered co-resident children. The second way this is obtained is from the Other Household Members subsection using the relationship and gender variables. The number of co-resident children is based on the largest value from these two modules.

Starting at Wave 3, the number of co-resident children is obtained by counting the children that the respondent reports as household members and the children that normally live in the same household as the respondent.

### Differences with the RAND HRS/Harmonized HRS

This variable is not available in RAND HRS but available in RAND Family data.

### CHARLS Variables Used:

#### Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CB053_10_	WHERE DOES HE LIVE
CB053_11_	WHERE DOES HE LIVE
CB053_1_	WHERE DOES HE LIVE
CB053_2_	WHERE DOES HE LIVE
CB053_3_	WHERE DOES HE LIVE
CB053_4_	WHERE DOES HE LIVE
CB053_5_	WHERE DOES HE LIVE
CB053_6_	WHERE DOES HE LIVE
CB053_7_	WHERE DOES HE LIVE
CB053_8_	WHERE DOES HE LIVE
CB053_9_	WHERE DOES HE LIVE

#### Wave 2:

A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_15_	Gender of Household Member
A002_16_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member



A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You
A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CB053_10_	Residence of Child
CB053_11_	Residence of Child
CB053_1_	Residence of Child
CB053_2_	Residence of Child
CB053_3_	Residence of Child
CB053_4_	Residence of Child
CB053_5_	Residence of Child
CB053_6_	Residence of Child
CB053_7_	Residence of Child
CB053_8_	Residence of Child
CB053_9_	Residence of Child
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_13_	Relationship to You
ZA006_14_	Relationship to You
ZA006_15_	Relationship to You
ZA006_16_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You

## Wave 3:

A001_W3_1S1	Which Children
A001_W3_1S10	Which Children
A001_W3_1S11	Which Children
A001_W3_1S12	Which Children
A001_W3_1S13	Which Children
A001_W3_1S14	Which Children
A001_W3_1S15	Which Children

A001_W3_1S16	Which Children
A001_W3_1S17	Which Children
A001_W3_1S18	Which Children
A001_W3_1S19	Which Children
A001_W3_1S2	Which Children
A001_W3_1S20	Which Children
A001_W3_1S21	Which Children
A001_W3_1S22	Which Children
A001_W3_1S23	Which Children
A001_W3_1S24	Which Children
A001_W3_1S3	Which Children
A001_W3_1S4	Which Children
A001_W3_1S5	Which Children
A001_W3_1S6	Which Children
A001_W3_1S7	Which Children
A001_W3_1S8	Which Children
A001_W3_1S9	Which Children
A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member
A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
CB053_10_	The Nomral Address Of R's No.10 Living Child
CB053_11_	The Nomral Address Of R's No.11 Living Child
CB053_12_	The Nomral Address Of R's No.12 Living Child
CB053_13_	The Nomral Address Of R's No.13 Living Child
CB053_14_	The Nomral Address Of R's No.14 Living Child
CB053_15_	The Nomral Address Of R's No.15 Living Child
CB053_16_	The Nomral Address Of R's No.16 Living Child
CB053_1_	The Nomral Address Of R's No.1 Living Child
CB053_2_	The Nomral Address Of R's No.2 Living Child
CB053_3_	The Nomral Address Of R's No.3 Living Child
CB053_4_	The Nomral Address Of R's No.4 Living Child
CB053_5_	The Nomral Address Of R's No.5 Living Child
CB053_6_	The Nomral Address Of R's No.6 Living Child
CB053_7_	The Nomral Address Of R's No.7 Living Child
CB053_8_	The Nomral Address Of R's No.8 Living Child
CB053_9_	The Nomral Address Of R's No.9 Living Child
XCHILDALIVE_10_	Whether R's No.10 Child Is Alive Or Not
XCHILDALIVE_11_	Whether R's No.11 Child Is Alive Or Not
XCHILDALIVE_12_	Whether R's No.12 Child Is Alive Or Not
XCHILDALIVE_13_	Whether R's No.13 Child Is Alive Or Not
XCHILDALIVE_14_	Whether R's No.14 Child Is Alive Or Not
XCHILDALIVE_15_	Whether R's No.15 Child Is Alive Or Not
XCHILDALIVE_16_	Whether R's No.16 Child Is Alive Or Not
XCHILDALIVE_17_	Whether R's No.17 Child Is Alive Or Not
XCHILDALIVE_18_	Whether R's No.18 Child Is Alive Or Not
XCHILDALIVE_19_	Whether R's No.19 Child Is Alive Or Not
XCHILDALIVE_1_	Whether R's No.1 Child Is Alive Or Not
XCHILDALIVE_20_	Whether R's No.20 Child Is Alive Or Not
XCHILDALIVE_2_	Whether R's No.2 Child Is Alive Or Not
XCHILDALIVE_3_	Whether R's No.3 Child Is Alive Or Not
XCHILDALIVE_4_	Whether R's No.4 Child Is Alive Or Not
XCHILDALIVE_5_	Whether R's No.5 Child Is Alive Or Not

XCHILDALIVE_6_	Whether R's No.6 Child Is Alive Or Not
XCHILDALIVE_7_	Whether R's No.7 Child Is Alive Or Not
XCHILDALIVE_8_	Whether R's No.8 Child Is Alive Or Not
XCHILDALIVE_9_	Whether R's No.9 Child Is Alive Or Not
XCHILDGENDER_10_	The Gender Of R's No.10 Living Child
XCHILDGENDER_11_	The Gender Of R's No.11 Living Child
XCHILDGENDER_12_	The Gender Of R's No.12 Living Child
XCHILDGENDER_13_	The Gender Of R's No.13 Living Child
XCHILDGENDER_14_	The Gender Of R's No.14 Living Child
XCHILDGENDER_15_	The Gender Of R's No.15 Living Child
XCHILDGENDER_16_	The Gender Of R's No.16 Living Child
XCHILDGENDER_17_	The Gender Of R's No.17 Living Child
XCHILDGENDER_18_	The Gender Of R's No.18 Living Child
XCHILDGENDER_19_	The Gender Of R's No.19 Living Child
XCHILDGENDER_1_	The Gender Of R's No.1 Living Child
XCHILDGENDER_20_	The Gender Of R's No.20 Living Child
XCHILDGENDER_2_	The Gender Of R's No.2 Living Child
XCHILDGENDER_3_	The Gender Of R's No.3 Living Child
XCHILDGENDER_4_	The Gender Of R's No.4 Living Child
XCHILDGENDER_5_	The Gender Of R's No.5 Living Child
XCHILDGENDER_6_	The Gender Of R's No.6 Living Child
XCHILDGENDER_7_	The Gender Of R's No.7 Living Child
XCHILDGENDER_8_	The Gender Of R's No.8 Living Child
XCHILDGENDER_9_	The Gender Of R's No.9 Living Child

## Wave 4:

A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
CB053_10_	Where is [XChildName[10]] Living Regularly
CB053_11_	Where is [XChildName[11]] Living Regularly
CB053_12_	Where is [XChildName[12]] Living Regularly
CB053_13_	Where is [XChildName[13]] Living Regularly
CB053_14_	Where is [XChildName[14]] Living Regularly
CB053_15_	Where is [XChildName[15]] Living Regularly
CB053_1_	Where is [XChildName[1]] Living Regularly
CB053_2_	Where is [XChildName[2]] Living Regularly
CB053_3_	Where is [XChildName[3]] Living Regularly
CB053_4_	Where is [XChildName[4]] Living Regularly
CB053_5_	Where is [XChildName[5]] Living Regularly
CB053_6_	Where is [XChildName[6]] Living Regularly
CB053_7_	Where is [XChildName[7]] Living Regularly
CB053_8_	Where is [XChildName[8]] Living Regularly
CB053_9_	Where is [XChildName[9]] Living Regularly
XCHILDGENDER_10_	XChildGender[10]
XCHILDGENDER_11_	XChildGender[11]
XCHILDGENDER_12_	XChildGender[12]
XCHILDGENDER_13_	XChildGender[13]
XCHILDGENDER_14_	XChildGender[14]
XCHILDGENDER_15_	XChildGender[15]
XCHILDGENDER_16_	XChildGender[16]
XCHILDGENDER_1_	XChildGender[1]
XCHILDGENDER_2_	XChildGender[2]

---

XCHILDGENDER_3_	XChildGender[3]
XCHILDGENDER_4_	XChildGender[4]
XCHILDGENDER_5_	XChildGender[5]
XCHILDGENDER_6_	XChildGender[6]
XCHILDGENDER_7_	XChildGender[7]
XCHILDGENDER_8_	XChildGender[8]
XCHILDGENDER_9_	XChildGender[9]
XCHILDTYPE_10_	XChildType[10]
XCHILDTYPE_11_	XChildType[11]
XCHILDTYPE_12_	XChildType[12]
XCHILDTYPE_13_	XChildType[13]
XCHILDTYPE_14_	XChildType[14]
XCHILDTYPE_15_	XChildType[15]
XCHILDTYPE_16_	XChildType[16]
XCHILDTYPE_1_	XChildType[1]
XCHILDTYPE_2_	XChildType[2]
XCHILDTYPE_3_	XChildType[3]
XCHILDTYPE_4_	XChildType[4]
XCHILDTYPE_5_	XChildType[5]
XCHILDTYPE_6_	XChildType[6]
XCHILDTYPE_7_	XChildType[7]
XCHILDTYPE_8_	XChildType[8]
XCHILDTYPE_9_	XChildType[9]

## Whether a Child Lives Nearby

Wave	Variable	Label	Type
1	H1LVNEAR	h1lvnear:w1 r/s live near children	Categ
2	H2LVNEAR	h2lvnear:w2 r/s live near children	Categ
3	H3LVNEAR	h3lvnear:w3 r/s live near children	Categ
4	H4LVNEAR	h4lvnear:w4 r/s live near children	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1LVNEAR	17228	0.92	0.27	0.00	1.00
H2LVNEAR	18134	0.89	0.32	0.00	1.00
H3LVNEAR	20425	0.86	0.35	0.00	1.00
H4LVNEAR	19385	0.55	0.50	0.00	1.00

### Categorical Variable Codes

Value-----	H1LVNEAR	H2LVNEAR	H3LVNEAR	H4LVNEAR
.k:No Kid	480	478	271	204
.m:missing			401	227
0.no	1402	2068	2826	8807
1.yes	15826	16066	17599	10578

### How Constructed:

HwLVNEAR indicates whether any children of the family respondent and spouse live in the same city or county as the family respondent and spouse. HwLVNEAR is assigned 0 if the respondent and spouse have living children but none of these children co-reside with nor live in the same city or county as the respondent and spouse. HwLVNEAR is assigned 1 if any child co-resides with the respondent and spouse or any non-co-residing child lives in the same city or county as the respondent and spouse. Special missing value (.k) is assigned if the respondent and spouse do not have any living children. Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), and (.m), respectively. HwLVNEAR is coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 4, the CHARLS questionnaire does not give the option to identify that a child lives in another household in the same village/neighborhood as the respondent or another village/neighborhood in the same county/city/district as the respondent. As such, many more respondents are assigned 0.no at Wave 4 than at Waves 1 to 3.

Children include biological children, adopted children, foster children, and stepchildren.

### Cross Wave Differences in CHARLS

At Wave 1, respondents are given the following options when identifying where their child lives:

1. This household, but economically independent
2. The same or adjacent dwelling/courtyard with me
3. Another household in this village/neighborhood
4. Another village/neighborhood in this county/city/district
5. Another county/city in this province
6. Another province
7. Abroad

At Waves 2 and 3, the options to the same question are:

1. This household, and economically dependent
2. This household, but economically independent
3. The same or adjacent dwelling/courtyard with you
4. Another household in your permanent address's village/neighborhood
5. Another village/neighborhood in your permanent address's county/city/district
6. Other
7. Abroad

Starting at Wave 4, the options to the same question are:

1. Living with family respondent and not financially independent
2. Living with family respondent and financially independent
3. Living in houses in the same/neighboring courtyard(s) or flats in the same/neighboring building as/of family respondent
4. Other
5. Living abroad

### Differences with the RAND HRS/Harmonized HRS

This variable is not available in the RAND HRS, but users can construct an identical variable from the HRS.

### CHARLS Variables Used:

Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CB053_10_	WHERE DOES HE LIVE

CB053_11_	WHERE DOES HE LIVE
CB053_12_	WHERE DOES HE LIVE
CB053_13_	WHERE DOES HE LIVE
CB053_14_	WHERE DOES HE LIVE
CB053_1_	WHERE DOES HE LIVE
CB053_2_	WHERE DOES HE LIVE
CB053_3_	WHERE DOES HE LIVE
CB053_4_	WHERE DOES HE LIVE
CB053_5_	WHERE DOES HE LIVE
CB053_6_	WHERE DOES HE LIVE
CB053_7_	WHERE DOES HE LIVE
CB053_8_	WHERE DOES HE LIVE
CB053_9_	WHERE DOES HE LIVE

## Wave 2:

A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_15_	Gender of Household Member
A002_16_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You
A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CB053_10_	Residence of Child
CB053_11_	Residence of Child
CB053_1_	Residence of Child
CB053_2_	Residence of Child
CB053_3_	Residence of Child
CB053_4_	Residence of Child
CB053_5_	Residence of Child
CB053_6_	Residence of Child
CB053_7_	Residence of Child
CB053_8_	Residence of Child
CB053_9_	Residence of Child
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member

ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_13_	Relationship to You
ZA006_14_	Relationship to You
ZA006_15_	Relationship to You
ZA006_16_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You
Wave 3:	
A001_W3_1S1	Which Children
A001_W3_1S10	Which Children
A001_W3_1S11	Which Children
A001_W3_1S12	Which Children
A001_W3_1S13	Which Children
A001_W3_1S14	Which Children
A001_W3_1S15	Which Children
A001_W3_1S16	Which Children
A001_W3_1S17	Which Children
A001_W3_1S18	Which Children
A001_W3_1S19	Which Children
A001_W3_1S2	Which Children
A001_W3_1S20	Which Children
A001_W3_1S21	Which Children
A001_W3_1S22	Which Children
A001_W3_1S23	Which Children
A001_W3_1S24	Which Children
A001_W3_1S3	Which Children
A001_W3_1S4	Which Children
A001_W3_1S5	Which Children
A001_W3_1S6	Which Children
A001_W3_1S7	Which Children
A001_W3_1S8	Which Children
A001_W3_1S9	Which Children
A005_W3_10_	Gender of 10th other Member
A005_W3_1_	Gender of 1th other Member
A005_W3_2_	Gender of 2th other Member
A005_W3_3_	Gender of 3th other Member
A005_W3_4_	Gender of 4th other Member
A005_W3_5_	Gender of 5th other Member
A005_W3_6_	Gender of 6th other Member
A005_W3_7_	Gender of 7th other Member
A005_W3_8_	Gender of 8th other Member
A005_W3_9_	Gender of 9th other Member
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member
A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
CB053_10_	The Nomral Address Of R's No.10 Living Child
CB053_11_	The Nomral Address Of R's No.11 Living Child
CB053_12_	The Nomral Address Of R's No.12 Living Child
CB053_13_	The Nomral Address Of R's No.13 Living Child
CB053_14_	The Nomral Address Of R's No.14 Living Child
CB053_15_	The Nomral Address Of R's No.15 Living Child



CB053_16_	The Nomral Address Of R's No.16 Living Child
CB053_1_	The Nomral Address Of R's No.1 Living Child
CB053_2_	The Nomral Address Of R's No.2 Living Child
CB053_3_	The Nomral Address Of R's No.3 Living Child
CB053_4_	The Nomral Address Of R's No.4 Living Child
CB053_5_	The Nomral Address Of R's No.5 Living Child
CB053_6_	The Nomral Address Of R's No.6 Living Child
CB053_7_	The Nomral Address Of R's No.7 Living Child
CB053_8_	The Nomral Address Of R's No.8 Living Child
CB053_9_	The Nomral Address Of R's No.9 Living Child
XCHILDALIVE_10_	Whether R's No.10 Child Is Alive Or Not
XCHILDALIVE_11_	Whether R's No.11 Child Is Alive Or Not
XCHILDALIVE_12_	Whether R's No.12 Child Is Alive Or Not
XCHILDALIVE_13_	Whether R's No.13 Child Is Alive Or Not
XCHILDALIVE_14_	Whether R's No.14 Child Is Alive Or Not
XCHILDALIVE_15_	Whether R's No.15 Child Is Alive Or Not
XCHILDALIVE_16_	Whether R's No.16 Child Is Alive Or Not
XCHILDALIVE_17_	Whether R's No.17 Child Is Alive Or Not
XCHILDALIVE_18_	Whether R's No.18 Child Is Alive Or Not
XCHILDALIVE_19_	Whether R's No.19 Child Is Alive Or Not
XCHILDALIVE_1_	Whether R's No.1 Child Is Alive Or Not
XCHILDALIVE_20_	Whether R's No.20 Child Is Alive Or Not
XCHILDALIVE_2_	Whether R's No.2 Child Is Alive Or Not
XCHILDALIVE_3_	Whether R's No.3 Child Is Alive Or Not
XCHILDALIVE_4_	Whether R's No.4 Child Is Alive Or Not
XCHILDALIVE_5_	Whether R's No.5 Child Is Alive Or Not
XCHILDALIVE_6_	Whether R's No.6 Child Is Alive Or Not
XCHILDALIVE_7_	Whether R's No.7 Child Is Alive Or Not
XCHILDALIVE_8_	Whether R's No.8 Child Is Alive Or Not
XCHILDALIVE_9_	Whether R's No.9 Child Is Alive Or Not
XCHILDGENDER_10_	The Gender Of R's No.10 Living Child
XCHILDGENDER_11_	The Gender Of R's No.11 Living Child
XCHILDGENDER_12_	The Gender Of R's No.12 Living Child
XCHILDGENDER_13_	The Gender Of R's No.13 Living Child
XCHILDGENDER_14_	The Gender Of R's No.14 Living Child
XCHILDGENDER_15_	The Gender Of R's No.15 Living Child
XCHILDGENDER_16_	The Gender Of R's No.16 Living Child
XCHILDGENDER_17_	The Gender Of R's No.17 Living Child
XCHILDGENDER_18_	The Gender Of R's No.18 Living Child
XCHILDGENDER_19_	The Gender Of R's No.19 Living Child
XCHILDGENDER_1_	The Gender Of R's No.1 Living Child
XCHILDGENDER_20_	The Gender Of R's No.20 Living Child
XCHILDGENDER_2_	The Gender Of R's No.2 Living Child
XCHILDGENDER_3_	The Gender Of R's No.3 Living Child
XCHILDGENDER_4_	The Gender Of R's No.4 Living Child
XCHILDGENDER_5_	The Gender Of R's No.5 Living Child
XCHILDGENDER_6_	The Gender Of R's No.6 Living Child
XCHILDGENDER_7_	The Gender Of R's No.7 Living Child
XCHILDGENDER_8_	The Gender Of R's No.8 Living Child
XCHILDGENDER_9_	The Gender Of R's No.9 Living Child

## Wave 4:

A005_W3_10_	HHMember[10]'s Gender
A005_W3_1_	HHMember[1]'s Gender
A005_W3_2_	HHMember[2]'s Gender
A005_W3_3_	HHMember[3]'s Gender
A005_W3_4_	HHMember[4]'s Gender
A005_W3_5_	HHMember[5]'s Gender
A005_W3_6_	HHMember[6]'s Gender
A005_W3_7_	HHMember[7]'s Gender
A005_W3_8_	HHMember[8]'s Gender
A005_W3_9_	HHMember[9]'s Gender
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship

A006_8_	Relationship
A006_9_	Relationship
CB053_10_	Where is [XChildName[10]] Living Regularly
CB053_11_	Where is [XChildName[11]] Living Regularly
CB053_12_	Where is [XChildName[12]] Living Regularly
CB053_13_	Where is [XChildName[13]] Living Regularly
CB053_14_	Where is [XChildName[14]] Living Regularly
CB053_15_	Where is [XChildName[15]] Living Regularly
CB053_1_	Where is [XChildName[1]] Living Regularly
CB053_2_	Where is [XChildName[2]] Living Regularly
CB053_3_	Where is [XChildName[3]] Living Regularly
CB053_4_	Where is [XChildName[4]] Living Regularly
CB053_5_	Where is [XChildName[5]] Living Regularly
CB053_6_	Where is [XChildName[6]] Living Regularly
CB053_7_	Where is [XChildName[7]] Living Regularly
CB053_8_	Where is [XChildName[8]] Living Regularly
CB053_9_	Where is [XChildName[9]] Living Regularly
XCHILDALIVE_10_	XChildAlive[10]
XCHILDALIVE_11_	XChildAlive[11]
XCHILDALIVE_12_	XChildAlive[12]
XCHILDALIVE_13_	XChildAlive[13]
XCHILDALIVE_14_	XChildAlive[14]
XCHILDALIVE_15_	XChildAlive[15]
XCHILDALIVE_16_	XChildAlive[16]
XCHILDALIVE_1_	XChildAlive[1]
XCHILDALIVE_2_	XChildAlive[2]
XCHILDALIVE_3_	XChildAlive[3]
XCHILDALIVE_4_	XChildAlive[4]
XCHILDALIVE_5_	XChildAlive[5]
XCHILDALIVE_6_	XChildAlive[6]
XCHILDALIVE_7_	XChildAlive[7]
XCHILDALIVE_8_	XChildAlive[8]
XCHILDALIVE_9_	XChildAlive[9]
XCHILDGENDER_10_	XChildGender[10]
XCHILDGENDER_11_	XChildGender[11]
XCHILDGENDER_12_	XChildGender[12]
XCHILDGENDER_13_	XChildGender[13]
XCHILDGENDER_14_	XChildGender[14]
XCHILDGENDER_15_	XChildGender[15]
XCHILDGENDER_16_	XChildGender[16]
XCHILDGENDER_1_	XChildGender[1]
XCHILDGENDER_2_	XChildGender[2]
XCHILDGENDER_3_	XChildGender[3]
XCHILDGENDER_4_	XChildGender[4]
XCHILDGENDER_5_	XChildGender[5]
XCHILDGENDER_6_	XChildGender[6]
XCHILDGENDER_7_	XChildGender[7]
XCHILDGENDER_8_	XChildGender[8]
XCHILDGENDER_9_	XChildGender[9]
XCHILDTYPE_10_	XChildType[10]
XCHILDTYPE_11_	XChildType[11]
XCHILDTYPE_12_	XChildType[12]
XCHILDTYPE_13_	XChildType[13]
XCHILDTYPE_14_	XChildType[14]
XCHILDTYPE_15_	XChildType[15]
XCHILDTYPE_16_	XChildType[16]
XCHILDTYPE_1_	XChildType[1]
XCHILDTYPE_2_	XChildType[2]
XCHILDTYPE_3_	XChildType[3]
XCHILDTYPE_4_	XChildType[4]
XCHILDTYPE_5_	XChildType[5]
XCHILDTYPE_6_	XChildType[6]
XCHILDTYPE_7_	XChildType[7]
XCHILDTYPE_8_	XChildType[8]
XCHILDTYPE_9_	XChildType[9]

**Any Weekly Contact with Parents/Parents-in-law in Person**

Wave	Variable	Label	Type
1	H1PCNT	h1pcnt:w1 any weekly contact w/ parents/parents-in-law in pe	Categ
2	H2PCNT	h2pcnt:w2 any weekly contact w/ parents/parents-in-law in pe	Categ
3	H3PCNT	h3pcnt:w3 any weekly contact w/ parents/parents-in-law in pe	Categ
4	H4PCNT	h4pcnt:w4 any weekly contact w/ parents/parents-in-law in pe	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1PCNT	8466	0.60	0.49	0.00	1.00
H2PCNT	8185	0.55	0.50	0.00	1.00
H3PCNT	7240	0.51	0.50	0.00	1.00
H4PCNT	8539	0.61	0.49	0.00	1.00

**Categorical Variable Codes**

Value-----	H1PCNT	H2PCNT	H3PCNT	H4PCNT
.d:dk	8			
.m:missing	248	654	558	524
.n:No parent alive	8980	9773	13299	10753
.r:refuse	6			
0.no	3401	3704	3562	3298
1.yes	5065	4481	3678	5241

**How Constructed:**

In CHARLS, the family respondent is asked about contact frequency with both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwfFAMR.

HwPCNT indicates whether the family respondent and spouse have any weekly in-person contact with parents/parents-in-law. HwPCNT is assigned 0 if the family respondent reports no weekly in-person contact with parents/parents-in-law. HwPCNT is assigned 1 if the family respondent reports any in-person contact with parents/parents-in-law at least once a week. HwPCNT is also assigned 1 if any parent/parent-in-law co-resides with the family respondent and spouse. Special missing value (.n) is assigned if the family respondent and spouse do not have any living parents. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwPCNT is coded as blank missing (.) if the family respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Wave 1, family respondents are asked to report in-person contact frequency with only non-co-residing parents/parents-in-law. Starting at Wave 3, family respondents are asked to report in-person contact frequency with all parents/parents-in-law, even those that co-reside with the respondent and spouse.

At Wave 1, family respondents are asked to report how often they and their spouse see their non-co-residing mother, father, mother-in-law, and father-in-law.

At Wave 2, family respondents are asked to report how often they and their spouse see their non-co-residing mother, father, mother-in-law, father-in-law, parents, and parents-in-law.

At Wave 3, family respondents are asked to report how often they and their spouse see their non-co-residing biological mother, adoptive mother, stepmother, biological father, adoptive father, stepfather, biological mother-in-law, adoptive mother-in-law, stepmother-in-law, biological father-in-law, adoptive father-in-law, and stepfather-in-law.

At Wave 4, family respondents are asked to report how often they and their spouse see their non-co-residing biological mother, adoptive mother, biological father, adoptive father, biological mother-in-law, adoptive mother-in-law, biological father-in-law, and adoptive father-in-law.

## Differences with the RAND HRS/Harmonized HRS

These variables are not available in the RAND HRS, but users can construct an identical variable from the HRS.

### CHARLS Variables Used:

#### Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CD002_1_	HOW OFTEN DO YOU SEE YOUR FATHER
CD002_2_	HOW OFTEN DO YOU SEE YOUR FATHER
CD002_3_	HOW OFTEN DO YOU SEE YOUR FATHER
CD002_4_	HOW OFTEN DO YOU SEE YOUR FATHER

#### Wave 2:

A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_15_	Gender of Household Member
A002_16_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You

A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CD002_1_	See Your Father
CD002_2_	See Your Mother
CD002_3_	See Your Father-in-law
CD002_4_	See Your Mother-in-law
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_13_	Relationship to You
ZA006_14_	Relationship to You
ZA006_15_	Relationship to You
ZA006_16_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You
Wave 3:	
CD002_10_	How Ofen Do R Or Spouse See Spouse's Stepmother
CD002_11_	How Ofen Do R Or Spouse See Spouse's Adopted Father
CD002_12_	How Ofen Do R Or Spouse See Spouse's Adopted Mother
CD002_1_	How Ofen Do R Or Spouse See R's Biological Father
CD002_2_	How Ofen Do R Or Spouse See R's Biological Mother
CD002_3_	How Ofen Do R Or Spouse See R's Stepfather
CD002_4_	How Ofen Do R Or Spouse See R's Stepmother
CD002_5_	How Ofen Do R Or Spouse See R's Adopted Father
CD002_6_	How Ofen Do R Or Spouse See R's Adopted Mother
CD002_7_	How Ofen Do R Or Spouse See Spouse's Biological Father
CD002_8_	How Ofen Do R Or Spouse See Spouse's Biological Mother
CD002_9_	How Ofen Do R Or Spouse See Spouse's Stepfather
Wave 4:	
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
CA016_1_	Where is [ParType[1]] Living Regularly

---

CA016_2_	Where is [ParType[2]] Living Regularly
CA016_3_	Where is [ParType[3]] Living Regularly
CA016_4_	Where is [ParType[4]] Living Regularly
CA016_5_	Where is [ParType[5]] Living Regularly
CA016_6_	Where is [ParType[6]] Living Regularly
CA016_7_	Where is [ParType[7]] Living Regularly
CA016_8_	Where is [ParType[8]] Living Regularly
CD001_W4_1_	Who Live with XConParName[1]
CD001_W4_2_	Who Live with XConParName[2]
CD001_W4_3_	Who Live with XConParName[3]
CD001_W4_4_	Who Live with XConParName[4]
CD001_W4_5_	Who Live with XConParName[5]
CD001_W4_6_	Who Live with XConParName[6]
CD001_W4_7_	Who Live with XConParName[7]
CD001_W4_8_	Who Live with XConParName[8]
CD002_W4_1_	Frequency Visiting XConParName[1]
CD002_W4_2_	Frequency Visiting XConParName[2]
CD002_W4_3_	Frequency Visiting XConParName[3]
CD002_W4_4_	Frequency Visiting XConParName[4]
CD002_W4_5_	Frequency Visiting XConParName[5]
CD002_W4_6_	Frequency Visiting XConParName[6]
CD002_W4_7_	Frequency Visiting XConParName[7]
CD002_W4_8_	Frequency Visiting XConParName[8]

<b>Any Weekly Contact with Children in Person, by Phone, Mail or E-mail</b>
---

Wave	Variable	Label	Type
1	H1KCNTF	h1kcntf:w1 any weekly contact w/ children in person	Categ
2	H2KCNTF	h2kcntf:w2 any weekly contact w/ children in person	Categ
3	H3KCNTF	h3kcntf:w3 any weekly contact w/ children in person	Categ
4	H4KCNTF	h4kcntf:w4 any weekly contact w/ children in person	Categ
1	H1KCNTPM	h1kcntpm:w1 any weekly contact w/ children-phone/email	Categ
2	H2KCNTPM	h2kcntpm:w2 any weekly contact w/ children-phone/email	Categ
3	H3KCNTPM	h3kcntpm:w3 any weekly contact w/ children-phone/email	Categ
4	H4KCNTPM	h4kcntpm:w4 any weekly contact w/ children-phone/email	Categ
1	H1KCNT	h1kcnt:w1 any weekly contact w/ children in person/phone/ema	Categ
2	H2KCNT	h2kcnt:w2 any weekly contact w/ children in person/phone/ema	Categ
3	H3KCNT	h3kcnt:w3 any weekly contact w/ children in person/phone/ema	Categ
4	H4KCNT	h4kcnt:w4 any weekly contact w/ children in person/phone/ema	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1KCNTF	17261	0.83	0.38	0.00	1.00
H2KCNTF	17783	0.79	0.41	0.00	1.00
H3KCNTF	20761	0.78	0.42	0.00	1.00
H4KCNTF	19404	0.68	0.47	0.00	1.00
H1KCNTPM	13059	0.57	0.49	0.00	1.00
H2KCNTPM	11926	0.53	0.50	0.00	1.00
H3KCNTPM	15443	0.57	0.49	0.00	1.00
H4KCNTPM	14921	0.64	0.48	0.00	1.00
H1KCNT	17259	0.93	0.26	0.00	1.00
H2KCNT	17791	0.91	0.28	0.00	1.00
H3KCNT	20767	0.92	0.27	0.00	1.00
H4KCNT	19404	0.90	0.30	0.00	1.00

### Categorical Variable Codes

Value-----	H1KCNTF	H2KCNTF	H3KCNTF	H4KCNTF
.d:dk	6			
.k:No Kid	424	391	271	204
.m:missing	15	438	65	208
.r:refuse	2			
0.no	2995	3739	4622	6242
1.yes	14266	14044	16139	13162
Value-----	H1KCNTPM	H2KCNTPM	H3KCNTPM	H4KCNTPM
.d:dk	32			
.k:No Kid	424	392	271	204
.m:missing	17	445	84	209
.r:refuse	8			
.s:skip	4168	5849	5299	4482
0.no	5582	5600	6565	5306
1.yes	7477	6326	8878	9615
Value-----	H1KCNT	H2KCNT	H3KCNT	H4KCNT
.d:dk	6			
.k:No Kid	424	391	271	204
.m:missing	17	430	59	208
.r:refuse	2			
0.no	1280	1577	1631	1936
1.yes	15979	16214	19136	17468

**How Constructed:**

In CHARLS, the family respondent is asked about contact frequency with both his or her own children and their spouse's children. The family respondent can be identified using RwfAMR.

HwKCNTF indicates whether the family respondent and spouse had any weekly in-person contact with their children. HwKCNTF is assigned 0 if the family respondent reports no weekly in-person contact with their children. HwKCNTF is assigned 1 if the family respondent reports any in-person-contact with their children at least once a week. HwKCNTF is also assigned 1 if any of their children co-reside with the family respondent and spouse.

HwKCNTPM indicates whether the family respondent and spouse had any weekly contact with their children by phone, text message, mail, or e-mail. HwKCNTPMA is assigned 0 if the family respondent reports no weekly contact with their children by phone, mail, or e-mail. HwKCNTPMA is assigned 1 if the family respondent reports any contact with their children by phone, text message, mail, or e-mail at least once a week. Special missing value (.s) is assigned if the family respondent was not asked the weekly contact by phone, text message, mail, or e-mail question because they gave an affirmative answer to the weekly in-person contact question.

HwKCNT indicates whether the family respondent and spouse had any weekly contact with any of their children in person or by phone, text message, mail, or e-mail. HwKCNT is derived using HwKCNTF and HwKCNTPM. HwKCNT is assigned 0 if the family respondent reports no weekly contact with their children in-person or by phone, text message, mail, or e-mail. HwKCNT is assigned 1 if the family respondent reports any contact with their children in-person or by phone, text message, mail, or e-mail at least once a week. HwKCNT is also assigned 1 if any of their children co-reside with the family respondent and spouse.

Special missing value (.k) is assigned if the respondent and spouse do not have any children. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwKCNTF, HwKCNTPM, and HwKCNT are coded as blank missing (.) if the family respondent did not respond to this wave.

**Cross Wave Differences in CHARLS**

At Waves 1 to 3, family respondents are asked to report how often they and their spouse have contact with their non-co-residing children by phone, text message, mail, or e-mail.

At Wave 4, family respondents are asked to report how often they and their spouse have contact with their non-co-residing children by phone, message, WeChat, mail, or e-mail.

**Differences with the RAND HRS/Harmonized HRS**

These variables are not available in the RAND HRS, but users can construct an identical variable from the HRS.

**CHARLS Variables Used:**

Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR



A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR
A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CD003_10_	How often do you see CHILD
CD003_11_	How often do you see CHILD
CD003_12_	How often do you see CHILD
CD003_13_	How often do you see CHILD
CD003_14_	How often do you see CHILD
CD003_1_	How often do you see CHILD
CD003_2_	How often do you see CHILD
CD003_3_	How often do you see CHILD
CD003_4_	How often do you see CHILD
CD003_5_	How often do you see CHILD
CD003_6_	How often do you see CHILD
CD003_7_	How often do you see CHILD
CD003_8_	How often do you see CHILD
CD003_9_	How often do you see CHILD
CD004_10_	How often do you have contact with CHILD
CD004_11_	How often do you have contact with CHILD
CD004_12_	How often do you have contact with CHILD
CD004_13_	How often do you have contact with CHILD
CD004_14_	How often do you have contact with CHILD
CD004_1_	How often do you have contact with CHILD
CD004_2_	How often do you have contact with CHILD
CD004_3_	How often do you have contact with CHILD
CD004_4_	How often do you have contact with CHILD
CD004_5_	How often do you have contact with CHILD
CD004_6_	How often do you have contact with CHILD
CD004_7_	How often do you have contact with CHILD
CD004_8_	How often do you have contact with CHILD
CD004_9_	How often do you have contact with CHILD
Wave 2:	
A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_15_	Gender of Household Member
A002_16_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You
A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You

A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CD003_10_	See Child 10
CD003_11_	See Child 11
CD003_1_	See Child 1
CD003_2_	See Child 2
CD003_3_	See Child 3
CD003_4_	See Child 4
CD003_5_	See Child 5
CD003_6_	See Child 6
CD003_7_	See Child 7
CD003_8_	See Child 8
CD003_9_	See Child 9
CD004_10_	Contact with Child 10
CD004_11_	Contact with Child 11
CD004_1_	Contact with Child 1
CD004_2_	Contact with Child 2
CD004_3_	Contact with Child 3
CD004_4_	Contact with Child 4
CD004_5_	Contact with Child 5
CD004_6_	Contact with Child 6
CD004_7_	Contact with Child 7
CD004_8_	Contact with Child 8
CD004_9_	Contact with Child 9
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_13_	Relationship to You
ZA006_14_	Relationship to You
ZA006_15_	Relationship to You
ZA006_16_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You
Wave 3:	
CD002_10_	How Ofen Do R Or Spouse See Spouse's Stepmother
CD002_11_	How Ofen Do R Or Spouse See Spouse's Adopted Father
CD002_12_	How Ofen Do R Or Spouse See Spouse's Adopted Mother
CD002_1_	How Ofen Do R Or Spouse See R's Biological Father
CD002_2_	How Ofen Do R Or Spouse See R's Biological Mother
CD002_3_	How Ofen Do R Or Spouse See R's Stepfather
CD002_4_	How Ofen Do R Or Spouse See R's Stepmother
CD002_5_	How Ofen Do R Or Spouse See R's Adopted Father
CD002_6_	How Ofen Do R Or Spouse See R's Adopted Mother
CD002_7_	How Ofen Do R Or Spouse See Spouse's Biological Father
CD002_8_	How Ofen Do R Or Spouse See Spouse's Biological Mother

CD002_9_	How Ofen Do R Or Spouse See Spouse's Stepfather
CD003_10_	How Ofen Do You See Child 10
CD003_11_	How Ofen Do You See Child 11
CD003_12_	How Ofen Do You See Child 12
CD003_13_	How Ofen Do You See Child 13
CD003_14_	How Ofen Do You See Child 14
CD003_15_	How Ofen Do You See Child 15
CD003_16_	How Ofen Do You See Child 16
CD003_1_	How Ofen Do You See Child 1
CD003_2_	How Ofen Do You See Child 2
CD003_3_	How Ofen Do You See Child 3
CD003_4_	How Ofen Do You See Child 4
CD003_5_	How Ofen Do You See Child 5
CD003_6_	How Ofen Do You See Child 6
CD003_7_	How Ofen Do You See Child 7
CD003_8_	How Ofen Do You See Child 8
CD003_9_	How Ofen Do You See Child 9
CD004_10_	How Often Do You Have Contact with Child 10
CD004_11_	How Often Do You Have Contact with Child 11
CD004_12_	How Often Do You Have Contact with Child 12
CD004_13_	How Often Do You Have Contact with Child 13
CD004_14_	How Often Do You Have Contact with Child 14
CD004_15_	How Often Do You Have Contact with Child 15
CD004_16_	How Often Do You Have Contact with Child 16
CD004_1_	How Often Do You Have Contact with Child 1
CD004_2_	How Often Do You Have Contact with Child 2
CD004_3_	How Often Do You Have Contact with Child 3
CD004_4_	How Often Do You Have Contact with Child 4
CD004_5_	How Often Do You Have Contact with Child 5
CD004_6_	How Often Do You Have Contact with Child 6
CD004_7_	How Often Do You Have Contact with Child 7
CD004_8_	How Often Do You Have Contact with Child 8
CD004_9_	How Often Do You Have Contact with Child 9

## Wave 4:

CD003_10_	Frequency Visiting XChildName[10]
CD003_11_	Frequency Visiting XChildName[11]
CD003_12_	Frequency Visiting XChildName[12]
CD003_13_	Frequency Visiting XChildName[13]
CD003_14_	Frequency Visiting XChildName[14]
CD003_15_	Frequency Visiting XChildName[15]
CD003_1_	Frequency Visiting XChildName[1]
CD003_2_	Frequency Visiting XChildName[2]
CD003_3_	Frequency Visiting XChildName[3]
CD003_4_	Frequency Visiting XChildName[4]
CD003_5_	Frequency Visiting XChildName[5]
CD003_6_	Frequency Visiting XChildName[6]
CD003_7_	Frequency Visiting XChildName[7]
CD003_8_	Frequency Visiting XChildName[8]
CD003_9_	Frequency Visiting XChildName[9]
CD004_1_	Frequency Contacting XChildName[1]
CD004_2_	Frequency Contacting XChildName[2]
CD004_3_	Frequency Contacting XChildName[3]
CD004_4_	Frequency Contacting XChildName[4]
CD004_5_	Frequency Contacting XChildName[5]
CD004_6_	Frequency Contacting XChildName[6]
CD004_7_	Frequency Contacting XChildName[7]
CD004_8_	Frequency Contacting XChildName[8]
CD004_9_	Frequency Contacting XChildName[9]

<b>Participates in Social Groups</b>
--------------------------------------

Wave	Variable	Label	Type
1	R1SOCWK	r1socwk:w1 r participate in social activities	Categ
2	R2SOCWK	r2socwk:w2 r participate in social activities	Categ
3	R3SOCWK	r3socwk:w3 r participate in social activities	Categ
4	R4SOCWK	r4socwk:w4 r participate in social activities	Categ
1	S1SOCWK	s1socwk:w1 s participate in social activities	Categ
2	S2SOCWK	s2socwk:w2 s participate in social activities	Categ
3	S3SOCWK	s3socwk:w3 s participate in social activities	Categ
4	S4SOCWK	s4socwk:w4 s participate in social activities	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SOCWK	16224	0.47	0.50	0.00	1.00
R2SOCWK	16819	0.53	0.50	0.00	1.00
R3SOCWK	19696	0.50	0.50	0.00	1.00
R4SOCWK	19730	0.45	0.50	0.00	1.00
S1SOCWK	13705	0.47	0.50	0.00	1.00
S2SOCWK	14221	0.53	0.50	0.00	1.00
S3SOCWK	16753	0.50	0.50	0.00	1.00
S4SOCWK	16342	0.45	0.50	0.00	1.00

### Categorical Variable Codes

Value-----	R1SOCWK	R2SOCWK	R3SOCWK	R4SOCWK
.d:dk	12			
.m:missing	155	1322	172	86
.p:proxy	1315	471	1229	
.r:refuse	2			
0.no	8631	7852	9912	10908
1.yes	7593	8967	9784	8822

  

Value-----	S1SOCWK	S2SOCWK	S3SOCWK	S4SOCWK
.d:dk	10			
.m:missing	68	1006	58	20
.p:proxy	1126	353	913	
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	7310	6717	8438	9021
1.yes	6395	7504	8315	7321

### How Constructed:

RwSOCWK indicates whether the respondent participated in any social activities in the past month. Rwsocwk is assigned 0 if the respondent did not participate in any of the social activities. Rwsocwk is assigned 1 if the respondent participated in at least one of the social activities.

The social activities listed include:

1. Interacted with friends
2. Played Ma-jong, played chess, played cards, or went to community club
3. Went to a sport, social, or other kind of club
4. Took part in a community-related organization
5. Done voluntary or charity work

## 6. Attended an educational or training course

At Waves 1 to 3, special missing value (.p) is assigned if the question was skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwsOCWK is coded as blank missing (.) if the respondent did not respond to this wave.

At Wave 2, there is a higher percentage of (.m) missing values that cannot be explained given the current release of CHARLS data.

SwSOCWK indicates whether the respondent's spouse participated in any social activities in the past month. SwSOCWK is taken from the spouse's values to RwsOCWK. In addition to the special missing values used in RwsOCWK, SwSOCWK employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

At Waves 1 to 3, this question is skipped for proxy respondents.

At Wave 2, there is a higher percentage of (.m) missing values that cannot be explained given the current release of CHARLS data.

**Differences with the RAND HRS/Harmonized HRS**

This variable is not available in the RAND HRS.

**CHARLS Variables Used:**

## Wave 1:

DA056S1	Do Activities LM of Interacted With Friends
DA056S10	Do Activities LM of Used the Internet
DA056S11	Do Activities LM of Other
DA056S12	Do Activities LM of None of These
DA056S2	Do Activities LM of Played Ma-jong/Cards/Chess or Went to Commu
DA056S3	Do Activities LM of Provided Help to People Who Lived Apart
DA056S4	Do Activities LM of Went to Club
DA056S5	Do Activities LM of Took Part In A Community-related Organizati
DA056S6	Do Activities LM of Voluntary or Charity
DA056S7	Do Activities LM of Cared for A Sick or Disabled Adult Who Live
DA056S8	Do Activities LM of Attended An Educational or Training Course
DA056S9	Do Activities LM of Stock Investment

## Wave 2:

DA056S1	Do Activities
DA056S10	Do Activities
DA056S11	Do Activities
DA056S12	Do Activities
DA056S2	Do Activities
DA056S3	Do Activities
DA056S4	Do Activities
DA056S5	Do Activities
DA056S6	Do Activities
DA056S7	Do Activities
DA056S8	Do Activities
DA056S9	Do Activities

## Wave 3:

A056S1	
DA056S10	Do Activities
DA056S11	Do Activities
DA056S12	Do Activities
DA056S2	Do Activities
DA056S3	Do Activities
DA056S4	Do Activities
DA056S5	Do Activities
DA056S6	Do Activities
DA056S7	Do Activities

---

DA056S8	Do Activities
DA056S9	Do Activities
Wave 4:	
DA056_S1	Activities in Last Month
DA056_S10	Activities in Last Month
DA056_S11	Activities in Last Month
DA056_S12	Activities in Last Month
DA056_S2	Activities in Last Month
DA056_S3	Activities in Last Month
DA056_S4	Activities in Last Month
DA056_S5	Activities in Last Month
DA056_S6	Activities in Last Month
DA056_S7	Activities in Last Month
DA056_S8	Activities in Last Month
DA056_S9	Activities in Last Month

**Transfers from Children or Grandchildren**

Wave	Variable	Label	Type
1	H1FCANY	h1fcany:w1 any transfer from children/grandchildren	Categ
2	H2FCANY	h2fcany:w2 any transfer from children/grandchildren	Categ
3	H3FCANY	h3fcany:w3 any transfer from children/grandchildren	Categ
4	H4FCANY	h4fcany:w4 any transfer from children/grandchildren	Categ
1	H1FCAMT	h1fcamt:w1 amount of transfers from children/grandchildren	Cont
2	H2FCAMT	h2fcamt:w2 amount of transfers from children/grandchildren	Cont
3	H3FCAMT	h3fcamt:w3 amount of transfers from children/grandchildren	Cont
4	H4FCAMT	h4fcamt:w4 amount of transfers from children/grandchildren	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FCANY	17627	0.34	0.47	0.00	1.00
H2FCANY	16206	0.65	0.48	0.00	1.00
H3FCANY	20826	0.74	0.44	0.00	1.00
H4FCANY	19612	0.74	0.44	0.00	1.00
H1FCAMT	17520	1641.87	8175.64	0.00	288000.00
H2FCAMT	16206	3235.88	10227.38	0.00	525000.00
H3FCAMT	20826	5402.18	15944.10	0.00	750000.00
H4FCAMT	19612	4683.42	11278.18	0.00	380300.00

**Categorical Variable Codes**

Value	H1FCANY	H2FCANY	H3FCANY	H4FCANY
.d:dk	9			
.m:missing	71	2406	271	204
.r:refuse	1			
0.no	11606	5730	5435	5190
1.yes	6021	10476	15391	14422

**How Constructed:**

In CHARLS, the family respondent is asked about economic assistance received from both his or her children and their spouse's children. The family respondent can be identified using RwfAMR.

HwFCANY indicates whether the family respondent and spouse received any economic assistance from their children/grandchildren in the past year. HwFCANY includes both regular and non-regular, monetary and in-kind assistance. HwFCANY is assigned 0 if the family respondent does not report receiving any economic support from children/grandchildren. HwFCANY is assigned 1 if the family respondent reports receiving some economic support from children/grandchildren.

HwFCAMT is the amount of economic assistance that the family respondent and spouse received from their children/grandchildren in the past year. HwFCAMT is a summary variable that includes both regular and non-regular, monetary and in-kind transfers.

At Wave 1, the family respondent reports regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support from non-co-resident children/grandchildren in monthly, quarterly, half-yearly, or yearly transfers.

At Wave 2, the family respondent reports monetary regular and in-kind support from non-co-resident children/grandchildren in yearly transfers. At Wave 3, the family respondent reports monetary regular and in-kind support from all living children in yearly transfers. At Wave 4, the family respondent reports monetary regular and in-kind support from non-co-resident children in yearly transfers. Regular transfers include living expenses, water, electricity, telephone, loan payments, or mortgage/rent. Non-regular transfers include money for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes, and others expenses.

Don't know, refused, and other missing responses are assigned special missing codes (.d), (.r), and (.m), respectively. If the questions were skipped because the family respondent does not have any children or there are no non-co-residing children or grandchildren, HwFCANY and HwFCAMT are assigned a value of zero. HwFCANY and HwFCAMT are coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 2, there is a higher percentage of (.m) missing values that cannot be explained given the current release of CHARLS data.

### Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked to report the amount of regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support received from non-co-resident children/children-in-law/grandchildren in the past year. The family respondent may report the amount of transfers as monthly, quarterly, half-yearly, or yearly values.

At Wave 2, family respondents are asked to report the amount of monetary support and in-kind support received from non-co-resident children/children-in-law/grandchildren in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

At Wave 3, family respondents are asked to report the amount of monetary support and in-kind support received from all living children/children-in-law in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

At Wave 3, family respondents are asked to report the amount of monetary support and in-kind support received from non-co-residing children/children-in-law in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

Starting at Wave 2, CHARLS does not ask an entry question, i.e., whether a family respondent receives economic support, and only the amount received is asked.

At Wave 2, there is a higher percentage of (.m) missing values that cannot be explained given the current release of CHARLS data.

### Differences with the RAND HRS/Harmonized HRS

The amount of economic assistance a respondent and spouse received from their children or grandchildren in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of this data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked the total amount of economic assistance. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from children and/or children-in-law.

### CHARLS Variables Used:

Wave 1:

CE007	any transfer from non-coresident children
CE009_10_1	regular monetary support
CE009_10_1 EVERY	time interval
CE009_10_2	regular in-kind support
CE009_10_2 EVERY	time interval
CE009_10_3	non-regular monetary support
CE009_10_4	non-regular in-kind support
CE009_1_1	regular monetary support
CE009_1_1 EVERY	time interval
CE009_1_2	regular in-kind support
CE009_1_2 EVERY	time interval
CE009_1_3	non-regular monetary support
CE009_1_4	non-regular in-kind support
CE009_2_1	regular monetary support
CE009_2_1 EVERY	time interval
CE009_2_2	regular in-kind support
CE009_2_2 EVERY	time interval



CE009_2_3	non-regular monetary support
CE009_2_4	non-regular in-kind support
CE009_3_1	regular monetary support
CE009_3_1 EVERY	time interval
CE009_3_2	regular in-kind support
CE009_3_2 EVERY	time interval
CE009_3_3	non-regular monetary support
CE009_3_4	non-regular in-kind support
CE009_4_1	regular monetary support
CE009_4_1 EVERY	time interval
CE009_4_2	regular in-kind support
CE009_4_2 EVERY	time interval
CE009_4_3	non-regular monetary support
CE009_4_4	non-regular in-kind support
CE009_5_1	regular monetary support
CE009_5_1 EVERY	time interval
CE009_5_2	regular in-kind support
CE009_5_2 EVERY	time interval
CE009_5_3	non-regular monetary support
CE009_5_4	non-regular in-kind support
CE009_6_1	regular monetary support
CE009_6_1 EVERY	time interval
CE009_6_2	regular in-kind support
CE009_6_2 EVERY	time interval
CE009_6_3	non-regular monetary support
CE009_6_4	non-regular in-kind support
CE009_7_1	regular monetary support
CE009_7_1 EVERY	time interval
CE009_7_2	regular in-kind support
CE009_7_2 EVERY	time interval
CE009_7_3	non-regular monetary support
CE009_7_4	non-regular in-kind support
CE009_8_1	regular monetary support
CE009_8_1 EVERY	time interval
CE009_8_2	regular in-kind support
CE009_8_2 EVERY	time interval
CE009_8_3	non-regular monetary support
CE009_8_4	non-regular in-kind support
CE009_9_1	regular monetary support
CE009_9_1 EVERY	time interval
CE009_9_2	regular in-kind support
CE009_9_2 EVERY	time interval
CE009_9_3	non-regular monetary support
CE009_9_4	non-regular in-kind support
CE011	any transfer from non-coresident grandchildren
CE013_10_1	regular monetary support
CE013_10_1 EVERY	time interval
CE013_10_2	regular in-kind support
CE013_10_2 EVERY	time interval
CE013_10_3	non-regular monetary support
CE013_10_4	non-regular in-kind support
CE013_1_1	regular monetary support
CE013_1_1 EVERY	time interval
CE013_1_2	regular in-kind support
CE013_1_2 EVERY	time interval
CE013_1_3	non-regular monetary support
CE013_1_4	non-regular in-kind support
CE013_2_1	regular monetary support
CE013_2_1 EVERY	time interval
CE013_2_2	regular in-kind support
CE013_2_2 EVERY	time interval
CE013_2_3	non-regular monetary support
CE013_2_4	non-regular in-kind support
CE013_3_1	regular monetary support
CE013_3_1 EVERY	time interval
CE013_3_2	regular in-kind support
CE013_3_2 EVERY	time interval
CE013_3_3	non-regular monetary support
CE013_3_4	non-regular in-kind support

CE013_4_1	regular monetary support
CE013_4_1 EVERY	time interval
CE013_4_2	regular in-kind support
CE013_4_2 EVERY	time interval
CE013_4_3	non-regular monetary support
CE013_4_4	non-regular in-kind support
CE013_5_1	regular monetary support
CE013_5_1 EVERY	time interval
CE013_5_2	regular in-kind support
CE013_5_2 EVERY	time interval
CE013_5_3	non-regular monetary support
CE013_5_4	non-regular in-kind support
CE013_6_1	regular monetary support
CE013_6_1 EVERY	time interval
CE013_6_2	regular in-kind support
CE013_6_2 EVERY	time interval
CE013_6_3	non-regular monetary support
CE013_6_4	non-regular in-kind support
CE013_7_1	regular monetary support
CE013_7_1 EVERY	time interval
CE013_7_2	regular in-kind support
CE013_7_2 EVERY	time interval
CE013_7_3	non-regular monetary support
CE013_7_4	non-regular in-kind support
CE013_8_1	regular monetary support
CE013_8_1 EVERY	time interval
CE013_8_2	regular in-kind support
CE013_8_2 EVERY	time interval
CE013_8_3	non-regular monetary support
CE013_8_4	non-regular in-kind support
CE013_9_1	regular monetary support
CE013_9_1 EVERY	time interval
CE013_9_2	regular in-kind support
CE013_9_2 EVERY	time interval
CE013_9_3	non-regular monetary support
CE013_9_4	non-regular in-kind support

## Wave 2:

CE009_1_10_	Total Money Support from Child10 in the Past Year
CE009_1_11_	Total Money Support from Child11 in the Past Year
CE009_1_15_	Total Money Support from Child15 in the Past Year
CE009_1_1_	Total Money Support from Child1 in the Past Year
CE009_1_2_	Total Money Support from Child2 in the Past Year
CE009_1_3_	Total Money Support from Child3 in the Past Year
CE009_1_4_	Total Money Support from Child4 in the Past Year
CE009_1_5_	Total Money Support from Child5 in the Past Year
CE009_1_6_	Total Money Support from Child6 in the Past Year
CE009_1_7_	Total Money Support from Child7 in the Past Year
CE009_1_8_	Total Money Support from Child8 in the Past Year
CE009_1_9_	Total Money Support from Child9 in the Past Year
CE009_3_10_	Total In-kind Support from Child10 in the Past Year
CE009_3_11_	Total In-kind Support from Child11 in the Past Year
CE009_3_15_	Total In-kind Support from Child15 in the Past Year
CE009_3_1_	Total In-kind Support from Child1 in the Past Year
CE009_3_2_	Total In-kind Support from Child2 in the Past Year
CE009_3_3_	Total In-kind Support from Child3 in the Past Year
CE009_3_4_	Total In-kind Support from Child4 in the Past Year
CE009_3_5_	Total In-kind Support from Child5 in the Past Year
CE009_3_6_	Total In-kind Support from Child6 in the Past Year
CE009_3_7_	Total In-kind Support from Child7 in the Past Year
CE009_3_8_	Total In-kind Support from Child8 in the Past Year
CE009_3_9_	Total In-kind Support from Child9 in the Past Year
CE012S99	Giving or Receiving from children of child 99
CE013_1_10_	Total Money Support from Children of Child10 in the Past Year
CE013_1_11_	Total Money Support from Children of Child11 in the Past Year
CE013_1_1_	Total Money Support from Children of Child1 in the Past Year
CE013_1_2_	Total Money Support from Children of Child2 in the Past Year
CE013_1_3_	Total Money Support from Children of Child3 in the Past Year
CE013_1_4_	Total Money Support from Children of Child4 in the Past Year
CE013_1_5_	Total Money Support from Children of Child5 in the Past Year

CE013_1_6_	Total Money Support from Children of Child6 in the Past Year
CE013_1_7_	Total Money Support from Children of Child7 in the Past Year
CE013_1_8_	Total Money Support from Children of Child8 in the Past Year
CE013_1_9_	Total Money Support from Children of Child9 in the Past Year
CE013_3_10_	Total In-kind Support from Children of Child10 in the Past Year
CE013_3_11_	Total In-kind Support from Children of Child11 in the Past Year
CE013_3_1_	Total In-kind Support from Children of Child1 in the Past Year
CE013_3_2_	Total In-kind Support from Children of Child2 in the Past Year
CE013_3_3_	Total In-kind Support from Children of Child3 in the Past Year
CE013_3_4_	Total In-kind Support from Children of Child4 in the Past Year
CE013_3_5_	Total In-kind Support from Children of Child5 in the Past Year
CE013_3_6_	Total In-kind Support from Children of Child6 in the Past Year
CE013_3_7_	Total In-kind Support from Children of Child7 in the Past Year
CE013_3_8_	Total In-kind Support from Children of Child8 in the Past Year
CE013_3_9_	Total In-kind Support from Children of Child9 in the Past Year
Wave 3:	
CE009_1_10_	Total Money Support From Non-Coresident Child 10 in The Past Ye
CE009_1_11_	Total Money Support From Non-Coresident Child 11 in The Past Ye
CE009_1_12_	Total Money Support From Non-Coresident Child 12 in The Past Ye
CE009_1_13_	Total Money Support From Non-Coresident Child 13 in The Past Ye
CE009_1_14_	Total Money Support From Non-Coresident Child 14 in The Past Ye
CE009_1_15_	Total Money Support From Non-Coresident Child 15 in The Past Ye
CE009_1_16_	Total Money Support From Non-Coresident Child 16 in The Past Ye
CE009_1_1_	Total Money Support From Non-Coresident Child 1 in The Past Yea
CE009_1_2_	Total Money Support From Non-Coresident Child 2 in The Past Yea
CE009_1_3_	Total Money Support From Non-Coresident Child 3 in The Past Yea
CE009_1_4_	Total Money Support From Non-Coresident Child 4 in The Past Yea
CE009_1_5_	Total Money Support From Non-Coresident Child 5 in The Past Yea
CE009_1_6_	Total Money Support From Non-Coresident Child 6 in The Past Yea
CE009_1_7_	Total Money Support From Non-Coresident Child 7 in The Past Yea
CE009_1_8_	Total Money Support From Non-Coresident Child 8 in The Past Yea
CE009_1_9_	Total Money Support From Non-Coresident Child 9 in The Past Yea
CE009_3_10_	Total in-Kind Support From Non-Coresident Child 10 in The Past
CE009_3_11_	Total in-Kind Support From Non-Coresident Child 11 in The Past
CE009_3_12_	Total in-Kind Support From Non-Coresident Child 12 in The Past
CE009_3_13_	Total in-Kind Support From Non-Coresident Child 13 in The Past
CE009_3_14_	Total in-Kind Support From Non-Coresident Child 14 in The Past
CE009_3_15_	Total in-Kind Support From Non-Coresident Child 15 in The Past
CE009_3_16_	Total in-Kind Support From Non-Coresident Child 16 in The Past
CE009_3_1_	Total in-Kind Support From Non-Coresident Child 1 in The Past Y
CE009_3_2_	Total in-Kind Support From Non-Coresident Child 2 in The Past Y
CE009_3_3_	Total in-Kind Support From Non-Coresident Child 3 in The Past Y
CE009_3_4_	Total in-Kind Support From Non-Coresident Child 4 in The Past Y
CE009_3_5_	Total in-Kind Support From Non-Coresident Child 5 in The Past Y
CE009_3_6_	Total in-Kind Support From Non-Coresident Child 6 in The Past Y
CE009_3_7_	Total in-Kind Support From Non-Coresident Child 7 in The Past Y
CE009_3_8_	Total in-Kind Support From Non-Coresident Child 8 in The Past Y
CE009_3_9_	Total in-Kind Support From Non-Coresident Child 9 in The Past Y
Wave 4:	
CE009_1_10_	Total Money Support from XChildName[10]
CE009_1_11_	Total Money Support from XChildName[11]
CE009_1_12_	Total Money Support from XChildName[12]
CE009_1_13_	Total Money Support from XChildName[13]
CE009_1_14_	Total Money Support from XChildName[14]
CE009_1_15_	Total Money Support from XChildName[15]
CE009_1_1_	Total Money Support from XChildName[1]
CE009_1_2_	Total Money Support from XChildName[2]
CE009_1_3_	Total Money Support from XChildName[3]
CE009_1_4_	Total Money Support from XChildName[4]
CE009_1_5_	Total Money Support from XChildName[5]
CE009_1_6_	Total Money Support from XChildName[6]
CE009_1_7_	Total Money Support from XChildName[7]
CE009_1_8_	Total Money Support from XChildName[8]
CE009_1_9_	Total Money Support from XChildName[9]
CE009_3_10_	Total In_kind Support from XChildName[10]
CE009_3_11_	Total In_kind Support from XChildName[11]
CE009_3_12_	Total In_kind Support from XChildName[12]
CE009_3_13_	Total In_kind Support from XChildName[13]
CE009_3_14_	Total In_kind Support from XChildName[14]

---

CE009_3_15_	Total	In_kind	Support	from	XChildName[15]
CE009_3_1_	Total	In_kind	Support	from	XChildName[1]
CE009_3_2_	Total	In_kind	Support	from	XChildName[2]
CE009_3_3_	Total	In_kind	Support	from	XChildName[3]
CE009_3_4_	Total	In_kind	Support	from	XChildName[4]
CE009_3_5_	Total	In_kind	Support	from	XChildName[5]
CE009_3_6_	Total	In_kind	Support	from	XChildName[6]
CE009_3_7_	Total	In_kind	Support	from	XChildName[7]
CE009_3_8_	Total	In_kind	Support	from	XChildName[8]
CE009_3_9_	Total	In_kind	Support	from	XChildName[9]

**Transfers to Children or Grandchildren**

Wave	Variable	Label	Type
1	H1TCANY	h1tcany:w1 any transfer to children/grandchildren	Categ
2	H2TCANY	h2tcany:w2 any transfer to children/grandchildren	Categ
3	H3TCANY	h3tcany:w3 any transfer to children/grandchildren	Categ
4	H4TCANY	h4tcany:w4 any transfer to children/grandchildren	Categ
1	H1TCAMT	h1tcamt:w1 amount of transfers to children/grandchildren	Cont
2	H2TCAMT	h2tcamt:w2 amount of transfers to children/grandchildren	Cont
3	H3TCAMT	h3tcamt:w3 amount of transfers to children/grandchildren	Cont
4	H4TCAMT	h4tcamt:w4 amount of transfers to children/grandchildren	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TCANY	17615	0.17	0.38	0.00	1.00
H2TCANY	16259	0.38	0.48	0.00	1.00
H3TCANY	20826	0.49	0.50	0.00	1.00
H4TCANY	19612	0.43	0.49	0.00	1.00
H1TCAMT	17549	1329.22	12404.87	0.00	600000.00
H2TCAMT	16259	2620.64	15842.21	0.00	500000.00
H3TCAMT	20826	6556.48	24208.72	0.00	800000.00
H4TCAMT	19612	5249.55	32357.27	0.00	1202000.00

**Categorical Variable Codes**

Value	H1TCANY	H2TCANY	H3TCANY	H4TCANY
.d:dk	6			
.m:missing	85	2353	271	204
.r:refuse	2			
0.no	14611	10123	10544	11265
1.yes	3004	6136	10282	8347

**How Constructed:**

In CHARLS, the family respondent is asked about economic assistance provided to both his or her children and their spouse's children. The family respondent can be identified using RwfAMR.

HwTCANY indicates whether the family respondent and spouse provided any economic assistance to their children/grandchildren in the past year. HwTCANY includes both regular and non-regular, monetary and in-kind assistance. HwTCANY is assigned 0 if the family respondent does not report providing any economic support to children/grandchildren. HwTCANY is assigned 1 if the family respondent reports providing some economic support to children/grandchildren.

HwTCAMT is the amount of economic assistance that the family respondent and spouse provided to their children/grandchildren in the past year. HwTCAMT is a summary variable that includes both regular and non-regular, monetary and in-kind transfers.

At Wave 1, the family respondent reports regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support to non-co-resident children/grandchildren in monthly, quarterly, half-yearly, or yearly transfers.

At Wave 2, the family respondent reports monetary regular and in-kind support to non-co-resident children/grandchildren in yearly transfers. At Wave 3, the family respondent reports monetary regular and in-kind support to all living children in yearly transfers. At Wave 4, the family respondent reports monetary regular and in-kind support to non-co-resident children in yearly transfers. Regular transfers include living expenses, water, electricity, telephone, loan payments, or mortgage/rent. Non-regular transfers include money for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes, and others expenses.

Don't know, refused, and other missing responses are assigned special missing codes (.d), (.r), and (.m), respectively. If the questions were skipped because the family respondent does not have any children or there are no non-co-residing children or grandchildren, HwTCANY and HwTCAMT are assigned a value of zero. HwTCANY and HwTCAMT are coded as blank missing (.) if the family respondent did not respond to this wave.

## Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked to report the amount of regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support provided to non-co-resident children/children-in-law/grandchildren in the past year. The family respondent may report the amount of transfers as monthly, quarterly, half-yearly, or yearly values.

At Wave 2, family respondents are asked to report the amount of monetary support and in-kind support provided to non-co-resident children/children-in-law/grandchildren in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

At Wave 3, family respondents are asked to report the amount of monetary support and in-kind support provided to all living children/children-in-law in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

At Wave 3, family respondents are asked to report the amount of monetary support and in-kind support provided to non-co-residing children/children-in-law in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

Starting at Wave 2, CHARLS does not ask an entry question, i.e., whether a family respondent provides economic support, and only the amount provided is asked.

## Differences with the RAND HRS/Harmonized HRS

The amount of economic assistance a respondent and spouse provided to their children or grandchildren in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of this data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked the total amount of economic assistance. Unlike HRS, CHARLS asked regular transfer and non-regular transfer to children and/or children-in-law.

## CHARLS Variables Used:

Wave 1:

CE027	any transfer to non-coresident children
CE029_10_1	regular monetary support
CE029_10_1 EVERY	time interval
CE029_10_2	regular in-kind support
CE029_10_2 EVERY	time interval
CE029_10_3	non-regular monetary support
CE029_10_4	non-regular in-kind support
CE029_1_1	regular monetary support
CE029_1_1 EVERY	time interval
CE029_1_2	regular in-kind support
CE029_1_2 EVERY	time interval
CE029_1_3	non-regular monetary support
CE029_1_4	non-regular in-kind support
CE029_2_1	regular monetary support
CE029_2_1 EVERY	time interval
CE029_2_2	regular in-kind support
CE029_2_2 EVERY	time interval
CE029_2_3	non-regular monetary support
CE029_2_4	non-regular in-kind support
CE029_3_1	regular monetary support
CE029_3_1 EVERY	time interval
CE029_3_2	regular in-kind support
CE029_3_2 EVERY	time interval

CE029_3_3	non-regular monetary support
CE029_3_4	non-regular in-kind support
CE029_4_1	regular monetary support
CE029_4_1 EVERY	time interval
CE029_4_2	regular in-kind support
CE029_4_2 EVERY	time interval
CE029_4_3	non-regular monetary support
CE029_4_4	non-regular in-kind support
CE029_5_1	regular monetary support
CE029_5_1 EVERY	time interval
CE029_5_2	regular in-kind support
CE029_5_2 EVERY	time interval
CE029_5_3	non-regular monetary support
CE029_5_4	non-regular in-kind support
CE029_6_1	regular monetary support
CE029_6_1 EVERY	time interval
CE029_6_2	regular in-kind support
CE029_6_2 EVERY	time interval
CE029_6_3	non-regular monetary support
CE029_6_4	non-regular in-kind support
CE029_7_1	regular monetary support
CE029_7_1 EVERY	time interval
CE029_7_2	regular in-kind support
CE029_7_2 EVERY	time interval
CE029_7_3	non-regular monetary support
CE029_7_4	non-regular in-kind support
CE029_8_1	regular monetary support
CE029_8_1 EVERY	time interval
CE029_8_2	regular in-kind support
CE029_8_2 EVERY	time interval
CE029_8_3	non-regular monetary support
CE029_8_4	non-regular in-kind support
CE029_9_1	regular monetary support
CE029_9_1 EVERY	time interval
CE029_9_2	regular in-kind support
CE029_9_2 EVERY	time interval
CE029_9_3	non-regular monetary support
CE029_9_4	non-regular in-kind support
CE031	any transfer to non-coresident grandchildren
CE033_10_1	regular monetary support
CE033_10_1 EVERY	time interval
CE033_10_2	regular in-kind support
CE033_10_2 EVERY	time interval
CE033_10_3	non-regular monetary support
CE033_10_4	non-regular in-kind support
CE033_1_1	regular monetary support
CE033_1_1 EVERY	time interval
CE033_1_2	regular in-kind support
CE033_1_2 EVERY	time interval
CE033_1_3	non-regular monetary support
CE033_1_4	non-regular in-kind support
CE033_2_1	regular monetary support
CE033_2_1 EVERY	time interval
CE033_2_2	regular in-kind support
CE033_2_2 EVERY	time interval
CE033_2_3	non-regular monetary support
CE033_2_4	non-regular in-kind support
CE033_3_1	regular monetary support
CE033_3_1 EVERY	time interval
CE033_3_2	regular in-kind support
CE033_3_2 EVERY	time interval
CE033_3_3	non-regular monetary support
CE033_3_4	non-regular in-kind support
CE033_4_1	regular monetary support
CE033_4_1 EVERY	time interval
CE033_4_2	regular in-kind support
CE033_4_2 EVERY	time interval
CE033_4_3	non-regular monetary support
CE033_4_4	non-regular in-kind support

CE033_5_1	regular monetary support
CE033_5_1 EVERY	time interval
CE033_5_2	regular in-kind support
CE033_5_2 EVERY	time interval
CE033_5_3	non-regular monetary support
CE033_5_4	non-regular in-kind support
CE033_6_1	regular monetary support
CE033_6_1 EVERY	time interval
CE033_6_2	regular in-kind support
CE033_6_2 EVERY	time interval
CE033_6_3	non-regular monetary support
CE033_6_4	non-regular in-kind support
CE033_7_1	regular monetary support
CE033_7_1 EVERY	time interval
CE033_7_2	regular in-kind support
CE033_7_2 EVERY	time interval
CE033_7_3	non-regular monetary support
CE033_7_4	non-regular in-kind support
CE033_8_1	regular monetary support
CE033_8_1 EVERY	time interval
CE033_8_2	regular in-kind support
CE033_8_2 EVERY	time interval
CE033_8_3	non-regular monetary support
CE033_8_4	non-regular in-kind support
CE033_9_1	regular monetary support
CE033_9_1 EVERY	time interval
CE033_9_2	regular in-kind support
CE033_9_2 EVERY	time interval
CE033_9_3	non-regular monetary support
CE033_9_4	non-regular in-kind support

## Wave 2:

CE012S99	Giving or Receiving from children of child 99
CE029_1_10_	Total Money Support to Child10 in the Past Year
CE029_1_11_	Total Money Support to Child11 in the Past Year
CE029_1_15_	Total Money Support to Child15 in the Past Year
CE029_1_1_	Total Money Support to Child1 in the Past Year
CE029_1_2_	Total Money Support to Child2 in the Past Year
CE029_1_3_	Total Money Support to Child3 in the Past Year
CE029_1_4_	Total Money Support to Child4 in the Past Year
CE029_1_5_	Total Money Support to Child5 in the Past Year
CE029_1_6_	Total Money Support to Child6 in the Past Year
CE029_1_7_	Total Money Support to Child7 in the Past Year
CE029_1_8_	Total Money Support to Child8 in the Past Year
CE029_1_9_	Total Money Support to Child9 in the Past Year
CE029_3_10_	Total In-kind Support to Child10 in the Past Year
CE029_3_11_	Total In-kind Support to Child11 in the Past Year
CE029_3_15_	Total In-kind Support to Child15 in the Past Year
CE029_3_1_	Total In-kind Support to Child1 in the Past Year
CE029_3_2_	Total In-kind Support to Child2 in the Past Year
CE029_3_3_	Total In-kind Support to Child3 in the Past Year
CE029_3_4_	Total In-kind Support to Child4 in the Past Year
CE029_3_5_	Total In-kind Support to Child5 in the Past Year
CE029_3_6_	Total In-kind Support to Child6 in the Past Year
CE029_3_7_	Total In-kind Support to Child7 in the Past Year
CE029_3_8_	Total In-kind Support to Child8 in the Past Year
CE029_3_9_	Total In-kind Support to Child9 in the Past Year
CE031_1_10_	Total Money Support to Children of Child10 in the Past Year
CE031_1_11_	Total Money Support to Children of Child11 in the Past Year
CE031_1_1_	Total Money Support to Children of Child1 in the Past Year
CE031_1_2_	Total Money Support to Children of Child2 in the Past Year
CE031_1_3_	Total Money Support to Children of Child3 in the Past Year
CE031_1_4_	Total Money Support to Children of Child4 in the Past Year
CE031_1_5_	Total Money Support to Children of Child5 in the Past Year
CE031_1_6_	Total Money Support to Children of Child6 in the Past Year
CE031_1_7_	Total Money Support to Children of Child7 in the Past Year
CE031_1_8_	Total Money Support to Children of Child8 in the Past Year
CE031_1_9_	Total Money Support to Children of Child9 in the Past Year
CE031_3_10_	Total In-kind Support to Children of Child10 in the Past Year
CE031_3_11_	Total In-kind Support to Children of Child11 in the Past Year



CE031_3_1_	Total In-kind Support to Children of Child1 in the Past Year
CE031_3_2_	Total In-kind Support to Children of Child2 in the Past Year
CE031_3_3_	Total In-kind Support to Children of Child3 in the Past Year
CE031_3_4_	Total In-kind Support to Children of Child4 in the Past Year
CE031_3_5_	Total In-kind Support to Children of Child5 in the Past Year
CE031_3_6_	Total In-kind Support to Children of Child6 in the Past Year
CE031_3_7_	Total In-kind Support to Children of Child7 in the Past Year
CE031_3_8_	Total In-kind Support to Children of Child8 in the Past Year
CE031_3_9_	Total In-kind Support to Children of Child9 in the Past Year
Wave 3:	
CE029_1_10_	Total Money Support to Non-Coresident Child 10 in The Past Year
CE029_1_11_	Total Money Support to Non-Coresident Child 11 in The Past Year
CE029_1_12_	Total Money Support to Non-Coresident Child 12 in The Past Year
CE029_1_13_	Total Money Support to Non-Coresident Child 13 in The Past Year
CE029_1_14_	Total Money Support to Non-Coresident Child 14 in The Past Year
CE029_1_15_	Total Money Support to Non-Coresident Child 15 in The Past Year
CE029_1_16_	Total Money Support to Non-Coresident Child 16 in The Past Year
CE029_1_1_	Total Money Support to Non-Coresident Child 1 in The Past Year
CE029_1_2_	Total Money Support to Non-Coresident Child 2 in The Past Year
CE029_1_3_	Total Money Support to Non-Coresident Child 3 in The Past Year
CE029_1_4_	Total Money Support to Non-Coresident Child 4 in The Past Year
CE029_1_5_	Total Money Support to Non-Coresident Child 5 in The Past Year
CE029_1_6_	Total Money Support to Non-Coresident Child 6 in The Past Year
CE029_1_7_	Total Money Support to Non-Coresident Child 7 in The Past Year
CE029_1_8_	Total Money Support to Non-Coresident Child 8 in The Past Year
CE029_1_9_	Total Money Support to Non-Coresident Child 9 in The Past Year
CE029_3_10_	Total in-Kind Support to Non-Coresident Child 10 in The Past Ye
CE029_3_11_	Total in-Kind Support to Non-Coresident Child 11 in The Past Ye
CE029_3_12_	Total in-Kind Support to Non-Coresident Child 12 in The Past Ye
CE029_3_13_	Total in-Kind Support to Non-Coresident Child 13 in The Past Ye
CE029_3_14_	Total in-Kind Support to Non-Coresident Child 14 in The Past Ye
CE029_3_15_	Total in-Kind Support to Non-Coresident Child 15 in The Past Ye
CE029_3_16_	Total in-Kind Support to Non-Coresident Child 16 in The Past Ye
CE029_3_1_	Total in-Kind Support to Non-Coresident Child 1 in The Past Yea
CE029_3_2_	Total in-Kind Support to Non-Coresident Child 2 in The Past Yea
CE029_3_3_	Total in-Kind Support to Non-Coresident Child 3 in The Past Yea
CE029_3_4_	Total in-Kind Support to Non-Coresident Child 4 in The Past Yea
CE029_3_5_	Total in-Kind Support to Non-Coresident Child 5 in The Past Yea
CE029_3_6_	Total in-Kind Support to Non-Coresident Child 6 in The Past Yea
CE029_3_7_	Total in-Kind Support to Non-Coresident Child 7 in The Past Yea
CE029_3_8_	Total in-Kind Support to Non-Coresident Child 8 in The Past Yea
CE029_3_9_	Total in-Kind Support to Non-Coresident Child 9 in The Past Yea
Wave 4:	
CE029_1_10_	Total Money Support for XChildName[10]
CE029_1_11_	Total Money Support for XChildName[11]
CE029_1_12_	Total Money Support for XChildName[12]
CE029_1_13_	Total Money Support for XChildName[13]
CE029_1_14_	Total Money Support for XChildName[14]
CE029_1_15_	Total Money Support for XChildName[15]
CE029_1_1_	Total Money Support for XChildName[1]
CE029_1_2_	Total Money Support for XChildName[2]
CE029_1_3_	Total Money Support for XChildName[3]
CE029_1_4_	Total Money Support for XChildName[4]
CE029_1_5_	Total Money Support for XChildName[5]
CE029_1_6_	Total Money Support for XChildName[6]
CE029_1_7_	Total Money Support for XChildName[7]
CE029_1_8_	Total Money Support for XChildName[8]
CE029_1_9_	Total Money Support for XChildName[9]
CE029_3_10_	Total In_kind Support for XChildName[10]
CE029_3_11_	Total In_kind Support for XChildName[11]
CE029_3_12_	Total In_kind Support for XChildName[12]
CE029_3_13_	Total In_kind Support for XChildName[13]
CE029_3_14_	Total In_kind Support for XChildName[14]
CE029_3_15_	Total In_kind Support for XChildName[15]
CE029_3_1_	Total In_kind Support for XChildName[1]
CE029_3_2_	Total In_kind Support for XChildName[2]
CE029_3_3_	Total In_kind Support for XChildName[3]
CE029_3_4_	Total In_kind Support for XChildName[4]
CE029_3_5_	Total In_kind Support for XChildName[5]

---

CE029_3_6_	Total In_kind Support for XChildName[6]
CE029_3_7_	Total In_kind Support for XChildName[7]
CE029_3_8_	Total In_kind Support for XChildName[8]
CE029_3_9_	Total In_kind Support for XChildName[9]

**Transfers from Parents or Parents-in-law**

Wave	Variable	Label	Type
1	H1FPANY	h1fpany:w1 any transfer from parents/parents-in-law	Categ
2	H2FPANY	h2fpany:w2 any transfer from parents/parents-in-law	Categ
3	H3FPANY	h3fpany:w3 any transfer from parents/parents-in-law	Categ
4	H4FPANY	h4fpany:w4 any transfer from parents/parents-in-law	Categ
1	H1FPAMT	h1fpamt:w1 amount of transfers from parents/parents-in-law	Cont
2	H2FPAMT	h2fpamt:w2 amount of transfers from parents/parents-in-law	Cont
3	H3FPAMT	h3fpamt:w3 amount of transfers from parents/parents-in-law	Cont
4	H4FPAMT	h4fpamt:w4 amount of transfers from parents/parents-in-law	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FPANY	17372	0.02	0.13	0.00	1.00
H2FPANY	17432	0.03	0.18	0.00	1.00
H3FPANY	21075	0.03	0.18	0.00	1.00
H4FPANY	19598	0.06	0.24	0.00	1.00
H1FPAMT	17355	71.23	1154.36	0.00	60000.00
H2FPAMT	17432	78.95	1312.66	0.00	100000.00
H3FPAMT	21075	210.54	7562.59	0.00	750000.00
H4FPAMT	19598	226.45	3164.22	0.00	201000.00

**Categorical Variable Codes**

Value	H1FPANY	H2FPANY	H3FPANY	H4FPANY
.d:dk	6			
.m:missing	324	1180	22	218
.r:refuse	6			
0.no	17062	16868	20353	18425
1.yes	310	564	722	1173

**How Constructed:**

In CHARLS, the family respondent is asked about economic assistance received from both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwfFAMR.

HwFPANY indicates whether the family respondent and spouse received any economic assistance from their parents/parents-in-law in the past year. HwFPANY includes both regular and non-regular, monetary and in-kind assistance. HwFPANY is assigned 0 if the family respondent does not report receiving any economic support from parents/parents-in-law. HwFPANY is assigned 1 if the family respondent reports receiving some economic support from parents/parents-in-law.

HwFPAMT is the amount of economic assistance that the family respondent and spouse received from their parents/parents-in-law in the past year. HwFPAMT is a summary variable that includes both regular and non-regular, monetary and in-kind transfers.

At Wave 1, the family respondent reports regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support from non-co-resident parents/parents-in-law in monthly, quarterly, half-yearly, or yearly transfers. Starting at Wave 2, the family respondent reports monetary regular and in-kind support from non-co-resident parents/parents-in-law in yearly transfers. Regular transfers include living expenses, water, electricity, telephone, loan payments, or mortgage/rent. Non-regular transfers include money for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes, and others expenses.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. If the question was skipped because both parents/parents-in-law or one of the parents/parents-in-law are household members or died before the previous wave, HwFPANY and HwFPAMT

are assigned a value of zero. HwFPANY and HwFPAMT are coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 2, there is a higher percentage of (.m) missing values that cannot be explained given the current release of CHARLS data.

### Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked to report the amount of regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support received from non-co-resident parents/parents-in-law in the past year. The family respondent may report the amount of transfers as monthly, quarterly, half-yearly, or yearly values.

Starting at Wave 2, family respondents are asked to report the amount of monetary support and in-kind support received from non-co-resident parents/parents-in-law in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

Starting at Wave 2, CHARLS does not ask an entry question, i.e., whether a family respondent receives economic support, and only the amount received is asked.

At Wave 2, there is a higher percentage of (.m) missing values that cannot be explained given the current release of CHARLS data.

### Differences with the RAND HRS/Harmonized HRS

The amount of economic assistance a respondent and spouse received from their parents or parents-in-law in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of this data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked the total amount of economic assistance. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from parents and/or parents-in-law.

### CHARLS Variables Used:

#### Wave 1:

CA001_1_	STILL LIVING
CA001_2_	STILL LIVING
CA001_3_	STILL LIVING
CA001_4_	STILL LIVING
CE001	any transfer from non-coresident parents
CE002_1	regular monetary support
CE002_1 EVERY	time interval
CE002_2	regular in-kind support
CE002_3	non-regular monetary support
CE002_4	non-regular in-kind support
CE004	any transfer from non-coresident parents-in-law
CE005_1	regular monetary support
CE005_1 EVERY	time interval
CE005_2	regular in-kind support
CE005_2 EVERY	time interval
CE005_3	non-regular monetary support
CE005_4	non-regular in-kind support

#### Wave 2:

CA001_1_	Is Your Father Living
CA001_2_	Is Your Mother Living
CA001_3_	Is Your Father-in-law Living
CA001_4_	Is Your Mother-in-law Living
CE002_1	Total Money Support from Parents in the Past Year
CE002_3	Total In-kind Support from Parents in the Past Year
CE005_1	Total Money Support from Parents-in-law in the Past Year
CE005_3	Total In-kind Support from Parents-in-law in the Past Year

#### Wave 3:

CE002_1_1_	Total Money Support From Non-Coresident Parents Type 1 in The P
CE002_1_2_	Total Money Support From Non-Coresident Parents Type 2 in The P
CE002_1_3_	Total Money Support From Non-Coresident Parents Type 3 in The P

CE002_1_4_	Total Money Support From Non-Coresident Parents Type 4 in The P
CE002_1_5_	Total Money Support From Non-Coresident Parents Type 5 in The P
CE002_1_6_	Total Money Support From Non-Coresident Parents Type 6 in The P
CE002_1_7_	Total Money Support From Non-Coresident Parents Type 7 in The P
CE002_1_8_	Total Money Support From Non-Coresident Parents Type 8 in The P
CE002_3_1_	Total in-Kind Support From Non-Coresident Parents Type 1 in The
CE002_3_2_	Total in-Kind Support From Non-Coresident Parents Type 2 in The
CE002_3_3_	Total in-Kind Support From Non-Coresident Parents Type 3 in The
CE002_3_4_	Total in-Kind Support From Non-Coresident Parents Type 4 in The
CE002_3_5_	Total in-Kind Support From Non-Coresident Parents Type 5 in The
CE002_3_6_	Total in-Kind Support From Non-Coresident Parents Type 6 in The
CE002_3_7_	Total in-Kind Support From Non-Coresident Parents Type 7 in The
CE002_3_8_	Total in-Kind Support From Non-Coresident Parents Type 8 in The

## Wave 4:

CE002_1_1_	Total Money Support from XConParName[1]
CE002_1_2_	Total Money Support from XConParName[2]
CE002_1_3_	Total Money Support from XConParName[3]
CE002_1_4_	Total Money Support from XConParName[4]
CE002_1_5_	Total Money Support from XConParName[5]
CE002_1_6_	Total Money Support from XConParName[6]
CE002_1_7_	Total Money Support from XConParName[7]
CE002_1_8_	Total Money Support from XConParName[8]
CE002_3_1_	Total In_kind Support from XConParName[1]
CE002_3_2_	Total In_kind Support from XConParName[2]
CE002_3_3_	Total In_kind Support from XConParName[3]
CE002_3_4_	Total In_kind Support from XConParName[4]
CE002_3_5_	Total In_kind Support from XConParName[5]
CE002_3_6_	Total In_kind Support from XConParName[6]
CE002_3_7_	Total In_kind Support from XConParName[7]
CE002_3_8_	Total In_kind Support from XConParName[8]

**Transfers to Parents or Parents-in-law**

Wave	Variable	Label	Type
1	H1TPANY	h1tpany:w1 any transfer to parents/parents-in-law	Categ
2	H2TPANY	h2tpany:w2 any transfer to parents/parents-in-law	Categ
3	H3TPANY	h3tpany:w3 any transfer to parents/parents-in-law	Categ
4	H4TPANY	h4tpany:w4 any transfer to parents/parents-in-law	Categ
1	H1TPAMT	h1tpamt:w1 amount of transfers to parents/parents-in-law	Cont
2	H2TPAMT	h2tpamt:w2 amount of transfers to parents/parents-in-law	Cont
3	H3TPAMT	h3tpamt:w3 amount of transfers to parents/parents-in-law	Cont
4	H4TPAMT	h4tpamt:w4 amount of transfers to parents/parents-in-law	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TPANY	17384	0.25	0.43	0.00	1.00
H2TPANY	17211	0.34	0.47	0.00	1.00
H3TPANY	21075	0.29	0.45	0.00	1.00
H4TPANY	19598	0.35	0.48	0.00	1.00
H1TPAMT	17266	436.46	3232.91	0.00	200000.00
H2TPAMT	17211	646.40	2274.29	0.00	68400.00
H3TPAMT	21075	587.34	2034.39	0.00	50000.00
H4TPAMT	19598	970.67	3517.25	0.00	150600.00

**Categorical Variable Codes**

Value	H1TPANY	H2TPANY	H3TPANY	H4TPANY
.d:dk	7			
.m:missing	315	1401	22	218
.r:refuse	2			
0.no	13114	11392	15033	12797
1.yes	4270	5819	6042	6801

**How Constructed:**

In CHARLS, the family respondent is asked about economic assistance provided to both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwfFAMR.

HwTPANY indicates whether the family respondent and spouse provided any economic assistance to their parents/parents-in-law in the past year. HwTPANY includes both regular and non-regular, monetary and in-kind assistance. HwTPANY is assigned 0 if the family respondent does not report providing any economic support to parents/parents-in-law. HwTPANY is assigned 1 if the family respondent reports providing some economic support to parents/parents-in-law.

HwTPAMT is the amount of economic assistance that the family respondent and spouse provided to their parents/parents-in-law in the past year. HwTPAMT is a summary variable that includes both regular and non-regular, monetary and in-kind transfers.

At Wave 1, the family respondent reports regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support to non-co-resident parents/parents-in-law in monthly, quarterly, half-yearly, or yearly transfers. Starting at Wave 2, the family respondent reports monetary regular and in-kind support to non-co-resident parents/parents-in-law in yearly transfers. Regular transfers include living expenses, water, electricity, telephone, loan payments, or mortgage/rent. Non-regular transfers include money for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes, and others expenses.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. If the question was skipped because both parents/parents-in-law or one of the parents/parents-in-law are household members or died before the previous wave, HwTPANY and HwTPAMT

are assigned a value of zero. HwTPANY and HwTPAMT are coded as blank missing (.) if the family respondent did not respond to this wave.

## Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked to report the amount of regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support provided to non-co-resident parents/parents-in-law in the past year. The family respondent may report the amount of transfers as monthly, quarterly, half-yearly, or yearly values.

Starting at Wave 2, family respondents are asked to report the amount of monetary support and in-kind support provided to non-co-resident parents/parents-in-law in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

Starting at Wave 2, CHARLS does not ask an entry question, i.e., whether a family respondent provides economic support, and only the amount provided is asked.

## Differences with the RAND HRS/Harmonized HRS

The amount of economic assistance a respondent and spouse provided to their parents or parents-in-law in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of this data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked the total amount of economic assistance. Unlike HRS, CHARLS asked regular transfer and non-regular transfer to parents and/or parents-in-law.

## CHARLS Variables Used:

### Wave 1:

CA001_1_	STILL LIVING
CA001_2_	STILL LIVING
CA001_3_	STILL LIVING
CA001_4_	STILL LIVING
CE021	any transfer to non-coresident parents
CE022_1	regular monetary support
CE022_1_EVERY	time interval
CE022_2	regular in-kind support
CE022_2_EVERY	time interval
CE022_3	non-regular monetary support
CE022_4	non-regular in-kind support
CE024	any transfer to non-coresident parents-in-law
CE025_1	regular monetary support
CE025_1_EVERY	time interval
CE025_2	regular in-kind support
CE025_2_EVERY	time interval
CE025_3	non-regular monetary support
CE025_4	non-regular in-kind support

### Wave 2:

CA001_1_	Is Your Father Living
CA001_2_	Is Your Mother Living
CA001_3_	Is Your Father-in-law Living
CA001_4_	Is Your Mother-in-law Living
CE022_1	Total Money Support to Parents in the Past Year
CE022_3	Total In-kind Support to Parents in the Past Year
CE025_1	Total Money Support to Parents-in-law in the Past Year
CE025_3	Total In-kind Support to Parents-in-law in the Past Year

### Wave 3:

CE022_1_1_	Total Money Support to Non-Coresident Parents Type 1 in The Pas
CE022_1_2_	Total Money Support to Non-Coresident Parents Type 2 in The Pas
CE022_1_3_	Total Money Support to Non-Coresident Parents Type 3 in The Pas
CE022_1_4_	Total Money Support to Non-Coresident Parents Type 4 in The Pas
CE022_1_5_	Total Money Support to Non-Coresident Parents Type 5 in The Pas
CE022_1_6_	Total Money Support to Non-Coresident Parents Type 6 in The Pas
CE022_1_7_	Total Money Support to Non-Coresident Parents Type 7 in The Pas
CE022_1_8_	Total Money Support to Non-Coresident Parents Type 8 in The Pas

CE022_3_1_	Total in-Kind Support to Non-Coresident Parents Type 1 in The P
CE022_3_2_	Total in-Kind Support to Non-Coresident Parents Type 2 in The P
CE022_3_3_	Total in-Kind Support to Non-Coresident Parents Type 3 in The P
CE022_3_4_	Total in-Kind Support to Non-Coresident Parents Type 4 in The P
CE022_3_5_	Total in-Kind Support to Non-Coresident Parents Type 5 in The P
CE022_3_6_	Total in-Kind Support to Non-Coresident Parents Type 6 in The P
CE022_3_7_	Total in-Kind Support to Non-Coresident Parents Type 7 in The P
CE022_3_8_	Total in-Kind Support to Non-Coresident Parents Type 8 in The P
Wave 4:	
CE022_1_1_	Total Money Support for XConParName[1]
CE022_1_2_	Total Money Support for XConParName[2]
CE022_1_3_	Total Money Support for XConParName[3]
CE022_1_4_	Total Money Support for XConParName[4]
CE022_1_5_	Total Money Support for XConParName[5]
CE022_1_6_	Total Money Support for XConParName[6]
CE022_1_7_	Total Money Support for XConParName[7]
CE022_1_8_	Total Money Support for XConParName[8]
CE022_3_1_	Total In_kind Support for XConParName[1]
CE022_3_2_	Total In_kind Support for XConParName[2]
CE022_3_3_	Total In_kind Support for XConParName[3]
CE022_3_4_	Total In_kind Support for XConParName[4]
CE022_3_5_	Total In_kind Support for XConParName[5]
CE022_3_6_	Total In_kind Support for XConParName[6]
CE022_3_7_	Total In_kind Support for XConParName[7]
CE022_3_8_	Total In_kind Support for XConParName[8]



<b>Transfers from Relatives or Others</b>
---

Wave	Variable	Label	Type
1	H1FOANY	h1foany:w1 any transfer from others	Categ
2	H2FOANY	h2foany:w2 any transfer from others	Categ
3	H3FOANY	h3foany:w3 any transfer from others	Categ
4	H4FOANY	h4foany:w4 any transfer from others	Categ
1	H1FOAMT	h1fotmt:w1 amount of transfers from others	Cont
2	H2FOAMT	h2foamt:w2 amount of transfers from others	Cont
3	H3FOAMT	h3foamt:w3 amount of transfers from others	Cont
4	H4FOAMT	h4foamt:w4 amount of transfers from others	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FOANY	17517	0.06	0.24	0.00	1.00
H2FOANY	18127	0.24	0.42	0.00	1.00
H3FOANY	16887	0.16	0.37	0.00	1.00
H4FOANY	19442	0.24	0.43	0.00	1.00
H1FOAMT	17485	413.84	10049.77	0.00	842000.00
H2FOAMT	18127	1259.79	7509.48	0.00	250000.00
H3FOAMT	16887	1086.75	6770.92	0.00	300000.00
H4FOAMT	19442	1793.98	8523.42	0.00	256000.00

### Categorical Variable Codes

Value	H1FOANY	H2FOANY	H3FOANY	H4FOANY
.d:dk	19		3	
.m:missing	165	485	4207	374
.r:refuse	7			
0.no	16414	13864	14161	14711
1.yes	1103	4263	2726	4731

### How Constructed:

In CHARLS, the family respondent is asked about economic assistance received from both his or her siblings, other relatives, and friends and their spouse's siblings, other relatives, and friends. The family respondent can be identified using RwfAMR.

HwFOANY indicates whether the family respondent and spouse received any economic assistance from siblings, other relatives, or non-relatives in the past year. HwFOANY includes both regular and non-regular, monetary and in-kind assistance. HwFOANY is assigned 0 if the family respondent does not report receiving any economic support from siblings, other relatives, or non-relatives. HwFOANY is assigned 1 if the family respondent reports receiving some economic support from siblings, relatives, or non-relatives.

HwFOAMT is the amount of economic assistance that the family respondent and spouse received from their siblings, other relatives or non-relatives in the past year. HwFOAMT is a summary variable that includes both regular and non-regular, monetary and in-kind transfers.

At Wave 1, the family respondent reports regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support from non-co-resident other relatives and non-relatives in monthly, quarterly, half-yearly, or yearly transfers. At Waves 2 and 3, the family respondent reports monetary regular and in-kind support from non-co-resident siblings, other relatives, and non-relatives in yearly transfers. At Wave 4, the family respondent reports monetary regular and in-kind support from all living siblings and non-co-resident other relatives and non-relatives in yearly transfers. Regular transfers include living expenses, water, electricity, telephone, loan payments, or mortgage/rent. Non-regular transfers include money for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes, and others expenses.

Starting at Wave 2, CHARLS does not ask an entry question, i.e., whether a family respondent receives economic support, and only the amount received is asked.

Starting a Wave 3, the family respondent is asked which of their siblings they and their spouse received financial support from or provided financial support to in the past year (CE072\_W3). For each sibling identified, the respondent is then asked to report the amount of financial support received and the amount of financial support provided. However, the current release of CHARLS Wave 4 data does not include the CE072\_W3 variable, thus it is not possible to identify whether the respondent reported they had no financial support to/from siblings. To derive H4FOAMT, H4FOANY, H4TOAMT, and H4TOANY, we assume that if the respondent did not provide any financial support amounts that they did not receive any financial support received from or provided to siblings and we assign 0 values. The Wave 4 CHARLS data does include unfolding bracket questions for the financial support to/from sibling values. If it is clear in the data that there is a missing support value because there are values provided as part of the unfolding brackets, it is assumed that a value is missing and H4FOAMT and H4TOAMT are left as missing as they all for all other waves when it is clear that a component value is missing.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwFOANY and HwFOAMT are coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 1, many fewer respondent reported receiving economic support from other relatives and non-relatives than at Waves 2-4. This discrepancy cannot be explained given the current release of CHARLS data.

At Wave 3, there is a high percentage of (.m) missing values due to in part to respondents who reported receiving economic support from or providing economic support to specific siblings but then did not provide a value for the amount of support.

At Wave 3, there is a high percentage of (.m) missing values due to in part to respondents who did not provide a value for the amount of cash gifts received from and provided to family/friends.

## Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked to report the amount of regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support received from non-co-resident other relatives and non-relatives in the past year. The family respondent may report the amount of transfers as monthly, quarterly, half-yearly, or yearly values.

At Waves 2 and 3, family respondents are asked to report the amount of monetary support and in-kind support received from non-co-resident siblings, other relatives, and non-relatives in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

At Wave 4, family respondents are asked to report the amount of monetary support and in-kind support received from all living siblings and non-co-resident other relatives and non-relatives in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

Starting a Wave 3, the family respondent is asked which of their siblings they and their spouse received financial support from or provided financial support to in the past year (CE072\_W3). For each sibling identified, the respondent is then asked to report the amount of financial support received and the amount of financial support provided. However, the current release of CHARLS Wave 4 data does not include the CE072\_W3 variable, thus it is not possible to identify whether the respondent reported they had no financial support to/from siblings. To derive H4FOAMT, H4FOANY, H4TOAMT, and H4TOANY, we assume that if the respondent did not provide any financial support amounts that they did not receive any financial support received from or provided to siblings and we assign 0 values. The Wave 4 CHARLS data does include unfolding bracket questions for the financial support to/from sibling values. If it is clear in the data that there is a missing support value because there are values provided as part of the unfolding brackets, it is assumed that a value is missing and H4FOAMT and H4TOAMT are left as missing as they all for all other waves when it is clear that a component value is missing.

At Wave 1, many fewer respondent reported receiving economic support from other relatives and non-relatives than at Waves 2-4. This discrepancy cannot be explained given the current release of CHARLS data.

At Wave 3, there is a high percentage of (.m) missing values due to in part to respondents who reported receiving economic support from or providing economic support to specific siblings but then did not provide a value for the amount of support.

At Wave 3, there is a high percentage of (.m) missing values due to in part to respondents who did not provide a value for the amount of cash gifts received from and provided to family/friends.

### Differences with the RAND HRS/Harmonized HRS

The amount of economic assistance a respondent and spouse received from relatives or others in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of this data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked the total amount of economic assistance. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from others.

### CHARLS Variables Used:

#### Wave 1:

CE015	any transfer from non-coresident other relatives
CE016_1	regular monetary support
CE016_1_EVERY	time interval
CE016_2	regular in-kind support
CE016_2_EVERY	time interval
CE016_3	non-regular monetary support
CE016_4	non-regular in-kind support
CE018	any transfer from friends
CE019_1	regular monetary support
CE019_1_EVERY	time interval
CE019_2	regular in-kind support
CE019_2_EVERY	time interval
CE019_3	non-regular monetary support
CE019_4	non-regular in-kind support

#### Wave 2:

CE016	Total Support from Relatives or Friends in the Past Year
CE072_W2	Total Support from Siblings in the Past Year

#### Wave 3:

CE016	Economic Support From Other Non-Coresident Relatives or Friends
CE016_W3	Cash Gift From Other Non-Coresident Relatives or Friends in The
CE072_W2_1_10_	Total Money Support From Non-Coresident Sibling 10 in The Past
CE072_W2_1_16_	Total Money Support From Non-Coresident Sibling 16 in The Past
CE072_W2_1_17_	Total Money Support From Non-Coresident Sibling 17 in The Past
CE072_W2_1_18_	Total Money Support From Non-Coresident Sibling 18 in The Past
CE072_W2_1_19_	Total Money Support From Non-Coresident Sibling 19 in The Past
CE072_W2_1_1_	Total Money Support From Non-Coresident Sibling 1 in The Past Y
CE072_W2_1_20_	Total Money Support From Non-Coresident Sibling 20 in The Past
CE072_W2_1_21_	Total Money Support From Non-Coresident Sibling 21 in The Past
CE072_W2_1_22_	Total Money Support From Non-Coresident Sibling 22 in The Past
CE072_W2_1_2_	Total Money Support From Non-Coresident Sibling 2 in The Past Y
CE072_W2_1_3_	Total Money Support From Non-Coresident Sibling 3 in The Past Y
CE072_W2_1_4_	Total Money Support From Non-Coresident Sibling 4 in The Past Y
CE072_W2_1_5_	Total Money Support From Non-Coresident Sibling 5 in The Past Y
CE072_W2_1_6_	Total Money Support From Non-Coresident Sibling 6 in The Past Y
CE072_W2_1_7_	Total Money Support From Non-Coresident Sibling 7 in The Past Y
CE072_W2_1_8_	Total Money Support From Non-Coresident Sibling 8 in The Past Y
CE072_W2_1_9_	Total Money Support From Non-Coresident Sibling 9 in The Past Y
CE072_W2_3_10_	Total in-Kind Support From Non-Coresident Sibling 10 in The Pas
CE072_W2_3_16_	Total in-Kind Support From Non-Coresident Sibling 16 in The Pas
CE072_W2_3_17_	Total in-Kind Support From Non-Coresident Sibling 17 in The Pas
CE072_W2_3_18_	Total in-Kind Support From Non-Coresident Sibling 18 in The Pas
CE072_W2_3_19_	Total in-Kind Support From Non-Coresident Sibling 19 in The Pas
CE072_W2_3_1_	Total in-Kind Support From Non-Coresident Sibling 1 in The Past
CE072_W2_3_20_	Total in-Kind Support From Non-Coresident Sibling 20 in The Pas
CE072_W2_3_21_	Total in-Kind Support From Non-Coresident Sibling 21 in The Pas
CE072_W2_3_22_	Total in-Kind Support From Non-Coresident Sibling 22 in The Pas
CE072_W2_3_2_	Total in-Kind Support From Non-Coresident Sibling 2 in The Past

CE072_W2_3_3_	Total in-Kind Support From Non-Coresident Sibling 3 in The Past
CE072_W2_3_4_	Total in-Kind Support From Non-Coresident Sibling 4 in The Past
CE072_W2_3_5_	Total in-Kind Support From Non-Coresident Sibling 5 in The Past
CE072_W2_3_6_	Total in-Kind Support From Non-Coresident Sibling 6 in The Past
CE072_W2_3_7_	Total in-Kind Support From Non-Coresident Sibling 7 in The Past
CE072_W2_3_8_	Total in-Kind Support From Non-Coresident Sibling 8 in The Past
CE072_W2_3_9_	Total in-Kind Support From Non-Coresident Sibling 9 in The Past
CE072_W3S99	Non-coresident sibling Has Economic Support with You and Your

## Wave 4:

CE016	Economic Supports from Relatives
CE016_W3	Cash Gift from Relatives
CE072_W2_1_10_	Total Money Support from Siblings[10]
CE072_W2_1_10__MA	Max Bracket of ce072_w2_1_10_
CE072_W2_1_10__MI	Min Bracket of ce072_w2_1_10_'
CE072_W2_1_11_	Total Money Support from Siblings[11]
CE072_W2_1_16_	Total Money Support from Siblings[16]
CE072_W2_1_16__MA	Max Bracket of ce072_w2_1_16_
CE072_W2_1_16__MI	Min Bracket of ce072_w2_1_16_'
CE072_W2_1_17_	Total Money Support from Siblings[17]
CE072_W2_1_17__MA	Max Bracket of ce072_w2_1_17_
CE072_W2_1_17__MI	Min Bracket of ce072_w2_1_17_'
CE072_W2_1_18_	Total Money Support from Siblings[18]
CE072_W2_1_18__MA	Max Bracket of ce072_w2_1_18_
CE072_W2_1_18__MI	Min Bracket of ce072_w2_1_18_'
CE072_W2_1_19_	Total Money Support from Siblings[19]
CE072_W2_1_1_	Total Money Support from Siblings[1]
CE072_W2_1_1__MAX	Max Bracket of ce072_w2_1_1_
CE072_W2_1_1__MIN	Min Bracket of ce072_w2_1_1_'
CE072_W2_1_20_	Total Money Support from Siblings[20]
CE072_W2_1_21_	Total Money Support from Siblings[21]
CE072_W2_1_22_	Total Money Support from Siblings[22]
CE072_W2_1_23_	Total Money Support from Siblings[23]
CE072_W2_1_24_	Total Money Support from Siblings[24]
CE072_W2_1_25_	Total Money Support from Siblings[25]
CE072_W2_1_26_	Total Money Support from Siblings[26]
CE072_W2_1_27_	Total Money Support from Siblings[27]
CE072_W2_1_2_	Total Money Support from Siblings[2]
CE072_W2_1_2__MAX	Max Bracket of ce072_w2_1_2_
CE072_W2_1_2__MIN	Min Bracket of ce072_w2_1_2_'
CE072_W2_1_3_	Total Money Support from Siblings[3]
CE072_W2_1_3__MAX	Max Bracket of ce072_w2_1_3_
CE072_W2_1_3__MIN	Min Bracket of ce072_w2_1_3_'
CE072_W2_1_4_	Total Money Support from Siblings[4]
CE072_W2_1_4__MAX	Max Bracket of ce072_w2_1_4_
CE072_W2_1_4__MIN	Min Bracket of ce072_w2_1_4_'
CE072_W2_1_5_	Total Money Support from Siblings[5]
CE072_W2_1_5__MAX	Max Bracket of ce072_w2_1_5_
CE072_W2_1_5__MIN	Min Bracket of ce072_w2_1_5_'
CE072_W2_1_6_	Total Money Support from Siblings[6]
CE072_W2_1_6__MAX	Max Bracket of ce072_w2_1_6_
CE072_W2_1_6__MIN	Min Bracket of ce072_w2_1_6_'
CE072_W2_1_7_	Total Money Support from Siblings[7]
CE072_W2_1_7__MAX	Max Bracket of ce072_w2_1_7_
CE072_W2_1_7__MIN	Min Bracket of ce072_w2_1_7_'
CE072_W2_1_8_	Total Money Support from Siblings[8]
CE072_W2_1_8__MAX	Max Bracket of ce072_w2_1_8_
CE072_W2_1_8__MIN	Min Bracket of ce072_w2_1_8_'
CE072_W2_1_9_	Total Money Support from Siblings[9]
CE072_W2_1_9__MAX	Max Bracket of ce072_w2_1_9_
CE072_W2_1_9__MIN	Min Bracket of ce072_w2_1_9_'
CE072_W2_3_10_	Total In_kind Support from Siblings[10]
CE072_W2_3_10__MA	Max Bracket of ce072_w2_3_10_
CE072_W2_3_10__MI	Min Bracket of ce072_w2_3_10_'
CE072_W2_3_11_	Total In_kind Support from Siblings[11]
CE072_W2_3_16_	Total In_kind Support from Siblings[16]
CE072_W2_3_16__MA	Max Bracket of ce072_w2_3_16_
CE072_W2_3_16__MI	Min Bracket of ce072_w2_3_16_'
CE072_W2_3_17_	Total In_kind Support from Siblings[17]
CE072_W2_3_17__MA	Max Bracket of ce072_w2_3_17_

CE072\_w2\_3\_17\_MI Min Bracket of ce072\_w2\_3\_17\_'  
CE072\_w2\_3\_18\_ Total In\_kind Support from Siblings[18]  
CE072\_w2\_3\_18\_MA Max Bracket of ce072\_w2\_3\_18\_'  
CE072\_w2\_3\_18\_MI Min Bracket of ce072\_w2\_3\_18\_'  
CE072\_w2\_3\_19\_ Total In\_kind Support from Siblings[19]  
CE072\_w2\_3\_1\_ Total In\_kind Support from Siblings[1]  
CE072\_w2\_3\_1\_MAX Max Bracket of ce072\_w2\_3\_1\_'  
CE072\_w2\_3\_1\_MIN Min Bracket of ce072\_w2\_3\_1\_'  
CE072\_w2\_3\_20\_ Total In\_kind Support from Siblings[20]  
CE072\_w2\_3\_21\_ Total In\_kind Support from Siblings[21]  
CE072\_w2\_3\_22\_ Total In\_kind Support from Siblings[22]  
CE072\_w2\_3\_23\_ Total In\_kind Support from Siblings[23]  
CE072\_w2\_3\_24\_ Total In\_kind Support from Siblings[24]  
CE072\_w2\_3\_25\_ Total In\_kind Support from Siblings[25]  
CE072\_w2\_3\_26\_ Total In\_kind Support from Siblings[26]  
CE072\_w2\_3\_27\_ Total In\_kind Support from Siblings[27]  
CE072\_w2\_3\_2\_ Total In\_kind Support from Siblings[2]  
CE072\_w2\_3\_2\_MAX Max Bracket of ce072\_w2\_3\_2\_'  
CE072\_w2\_3\_2\_MIN Min Bracket of ce072\_w2\_3\_2\_'  
CE072\_w2\_3\_3\_ Total In\_kind Support from Siblings[3]  
CE072\_w2\_3\_3\_MAX Max Bracket of ce072\_w2\_3\_3\_'  
CE072\_w2\_3\_3\_MIN Min Bracket of ce072\_w2\_3\_3\_'  
CE072\_w2\_3\_4\_ Total In\_kind Support from Siblings[4]  
CE072\_w2\_3\_4\_MAX Max Bracket of ce072\_w2\_3\_4\_'  
CE072\_w2\_3\_4\_MIN Min Bracket of ce072\_w2\_3\_4\_'  
CE072\_w2\_3\_5\_ Total In\_kind Support from Siblings[5]  
CE072\_w2\_3\_5\_MAX Max Bracket of ce072\_w2\_3\_5\_'  
CE072\_w2\_3\_5\_MIN Min Bracket of ce072\_w2\_3\_5\_'  
CE072\_w2\_3\_6\_ Total In\_kind Support from Siblings[6]  
CE072\_w2\_3\_6\_MAX Max Bracket of ce072\_w2\_3\_6\_'  
CE072\_w2\_3\_6\_MIN Min Bracket of ce072\_w2\_3\_6\_'  
CE072\_w2\_3\_7\_ Total In\_kind Support from Siblings[7]  
CE072\_w2\_3\_7\_MAX Max Bracket of ce072\_w2\_3\_7\_'  
CE072\_w2\_3\_7\_MIN Min Bracket of ce072\_w2\_3\_7\_'  
CE072\_w2\_3\_8\_ Total In\_kind Support from Siblings[8]  
CE072\_w2\_3\_8\_MAX Max Bracket of ce072\_w2\_3\_8\_'  
CE072\_w2\_3\_8\_MIN Min Bracket of ce072\_w2\_3\_8\_'  
CE072\_w2\_3\_9\_ Total In\_kind Support from Siblings[9]  
CE072\_w2\_3\_9\_MAX Max Bracket of ce072\_w2\_3\_9\_'  
CE072\_w2\_3\_9\_MIN Min Bracket of ce072\_w2\_3\_9\_'

**Transfers to Relatives or Others**

Wave	Variable	Label	Type
1	H1TOANY	h1toany:w1 any transfer to others	Categ
2	H2TOANY	h2toany:w2 any transfer to others	Categ
3	H3TOANY	h3toany:w3 any transfer to others	Categ
4	H4TOANY	h4toany:w4 any transfer to others	Categ
1	H1TOAMT	h1toamt:w1 amount of transfers to others	Cont
2	H2TOAMT	h2toamt:w2 amount of transfers to others	Cont
3	H3TOAMT	h3toamt:w3 amount of transfers to others	Cont
4	H4TOAMT	h4toamt:w4 amount of transfers to others	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TOANY	17516	0.04	0.20	0.00	1.00
H2TOANY	18095	0.40	0.49	0.00	1.00
H3TOANY	16663	0.50	0.50	0.00	1.00
H4TOANY	19267	0.59	0.49	0.00	1.00
H1TOAMT	17497	172.19	2893.34	0.00	180000.00
H2TOAMT	18095	1290.25	4261.45	0.00	150000.00
H3TOAMT	16663	2115.81	5633.87	0.00	140000.00
H4TOAMT	19267	2518.18	8302.59	0.00	606000.00

**Categorical Variable Codes**

Value	H1TOANY	H2TOANY	H3TOANY	H4TOANY
.d:dk	17			
.m:missing	166	517	4434	549
.r:refuse	9			
0.no	16796	10850	8249	7892
1.yes	720	7245	8414	11375

**How Constructed:**

In CHARLS, the family respondent is asked about economic assistance provided to both his or her siblings, other relatives, and friends and their spouse's siblings, other relatives, and friends. The family respondent can be identified using RwfAMR.

HwTOANY indicates whether the family respondent and spouse provided any economic assistance to siblings, other relatives, or non-relatives in the past year. HwTOANY includes both regular and non-regular, monetary and in-kind assistance. HwTOANY is assigned 0 if the family respondent does not report providing any economic support to siblings, other relatives, or non-relatives. HwTOANY is assigned 1 if the family respondent reports providing some economic support to siblings, relatives, or non-relatives.

HwTOAMT is the amount of economic assistance that the family respondent and spouse provided to their siblings, other relatives or non-relatives in the past year. HwTOAMT is a summary variable that includes both regular and non-regular, monetary and in-kind transfers.

At Wave 1, the family respondent reports regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support to non-co-resident other relatives and non-relatives in monthly, quarterly, half-yearly, or yearly transfers. At Waves 2 and 3, the family respondent reports monetary regular and in-kind support to non-co-resident siblings, other relatives, and non-relatives in yearly transfers. At Wave 4, the family respondent reports monetary regular and in-kind support to all living siblings and non-co-resident other relatives and non-relatives in yearly transfers. Regular transfers include living expenses, water, electricity, telephone, loan payments, or mortgage/rent. Non-regular transfers include money for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes, and others expenses.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwTOANY and HwTOAMT are coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 1, many fewer respondent reported providing economic support to other relatives and non-relatives than at Waves 2-4. This discrepancy cannot be explained given the current release of CHARLS data.

### Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked to report the amount of regular monetary support, regular in-kind support, non-regular monetary support, and non-regular in-kind support provided to non-co-resident other relatives and non-relatives in the past year. The family respondent may report the amount of transfers as monthly, quarterly, half-yearly, or yearly values.

At Waves 2 and 3, family respondents are asked to report the amount of monetary support and in-kind support provided to non-co-resident siblings, other relatives, and non-relatives in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

At Wave 4, family respondents are asked to report the amount of monetary support and in-kind support provided to all living siblings and non-co-resident other relatives and non-relatives in the past year. The family respondent reports the total amount of the transfer and is then asked how much the regular transfer is among the total transfer.

Starting at Wave 2, CHARLS does not ask an entry question, i.e., whether a family respondent receives economic support, and only the amount received is asked.

At Wave 1, many fewer respondent reported providing economic support to other relatives and non-relatives than at Waves 2-4. This discrepancy cannot be explained given the current release of CHARLS data.

The current release of CHARLS data contains empty variables for economic assistance from siblings at Wave 3, which leads us to believe that economic assistance from siblings is not currently accounted for in Wave 3.

### Differences with the RAND HRS/Harmonized HRS

The amount of economic assistance a respondent and spouse provided to relatives or others in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of this data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked the total amount of economic assistance. Unlike HRS, CHARLS asked regular transfer and non-regular transfer to others.

### CHARLS Variables Used:

#### Wave 1:

CE035	any transfer to other non-coresident relatives
CE036_1	regular monetary support
CE036_1_EVERY	time interval
CE036_2	regular in-kind support
CE036_2_EVERY	time interval
CE036_3	non-regular monetary support
CE036_4	non-regular in-kind support
CE038	any transfer to non-coresident non-relative (e.g. friends)
CE039_1	regular monetary support
CE039_1_EVERY	time interval
CE039_2	regular in-kind support
CE039_2_EVERY	time interval
CE039_3	non-regular monetary support
CE039_4	non-regular in-kind support

#### Wave 2:

CE036	Total Support to Relatives or Friends in the Past Year
CE074_W2	Total Support to Siblings in the Past Year

#### Wave 3:

CE036	Economic Support to Other Non-Coresident Relatives or Friends i
CE036_W3	Cash Gift to Other Non-Coresident Relatives or Friends in The P
CE072_W3S99	Non-coresident sibling Has Economic Support with You and Your
CE074_W2_1_10_	Total Money Support to Non-Coresident Sibling 10 in The Past Ye
CE074_W2_1_16_	Total Money Support to Non-Coresident Sibling 16 in The Past Ye
CE074_W2_1_17_	Total Money Support to Non-Coresident Sibling 17 in The Past Ye
CE074_W2_1_18_	Total Money Support to Non-Coresident Sibling 18 in The Past Ye
CE074_W2_1_19_	Total Money Support to Non-Coresident Sibling 19 in The Past Ye
CE074_W2_1_1_	Total Money Support to Non-Coresident Sibling 1 in The Past Yea
CE074_W2_1_20_	Total Money Support to Non-Coresident Sibling 20 in The Past Ye
CE074_W2_1_21_	Total Money Support to Non-Coresident Sibling 21 in The Past Ye
CE074_W2_1_22_	Total Money Support to Non-Coresident Sibling 22 in The Past Ye
CE074_W2_1_2_	Total Money Support to Non-Coresident Sibling 2 in The Past Yea
CE074_W2_1_3_	Total Money Support to Non-Coresident Sibling 3 in The Past Yea
CE074_W2_1_4_	Total Money Support to Non-Coresident Sibling 4 in The Past Yea
CE074_W2_1_5_	Total Money Support to Non-Coresident Sibling 5 in The Past Yea
CE074_W2_1_6_	Total Money Support to Non-Coresident Sibling 6 in The Past Yea
CE074_W2_1_7_	Total Money Support to Non-Coresident Sibling 7 in The Past Yea
CE074_W2_1_8_	Total Money Support to Non-Coresident Sibling 8 in The Past Yea
CE074_W2_1_9_	Total Money Support to Non-Coresident Sibling 9 in The Past Yea
CE074_W2_3_10_	Total in-Kind Support to Non-Coresident Sibling 10 in The Past
CE074_W2_3_16_	Total in-Kind Support to Non-Coresident Sibling 16 in The Past
CE074_W2_3_17_	Total in-Kind Support to Non-Coresident Sibling 17 in The Past
CE074_W2_3_18_	Total in-Kind Support to Non-Coresident Sibling 18 in The Past
CE074_W2_3_19_	Total in-Kind Support to Non-Coresident Sibling 19 in The Past
CE074_W2_3_1_	Total in-Kind Support to Non-Coresident Sibling 1 in The Past Y
CE074_W2_3_20_	Total in-Kind Support to Non-Coresident Sibling 20 in The Past
CE074_W2_3_21_	Total in-Kind Support to Non-Coresident Sibling 21 in The Past
CE074_W2_3_22_	Total in-Kind Support to Non-Coresident Sibling 22 in The Past
CE074_W2_3_2_	Total in-Kind Support to Non-Coresident Sibling 2 in The Past Y
CE074_W2_3_3_	Total in-Kind Support to Non-Coresident Sibling 3 in The Past Y
CE074_W2_3_4_	Total in-Kind Support to Non-Coresident Sibling 4 in The Past Y
CE074_W2_3_5_	Total in-Kind Support to Non-Coresident Sibling 5 in The Past Y
CE074_W2_3_6_	Total in-Kind Support to Non-Coresident Sibling 6 in The Past Y
CE074_W2_3_7_	Total in-Kind Support to Non-Coresident Sibling 7 in The Past Y
CE074_W2_3_8_	Total in-Kind Support to Non-Coresident Sibling 8 in The Past Y
CE074_W2_3_9_	Total in-Kind Support to Non-Coresident Sibling 9 in The Past Y

## Wave 4:

CE036	Economic Supports for Relatives
CE036_W3	Cash Gift for Relatives
CE074_W2_1_10_	Total Money Support for Siblings[10]
CE074_W2_1_11_	Total Money Support for Siblings[11]
CE074_W2_1_16_	Total Money Support for Siblings[16]
CE074_W2_1_16__MA	Max Bracket of ce074_w2_1_16_
CE074_W2_1_16__MI	Min Bracket of ce074_w2_1_16_
CE074_W2_1_17_	Total Money Support for Siblings[17]
CE074_W2_1_17__MA	Max Bracket of ce074_w2_1_17_
CE074_W2_1_17__MI	Min Bracket of ce074_w2_1_17_
CE074_W2_1_18_	Total Money Support for Siblings[18]
CE074_W2_1_18__MA	Max Bracket of ce074_w2_1_18_
CE074_W2_1_18__MI	Min Bracket of ce074_w2_1_18_
CE074_W2_1_19_	Total Money Support for Siblings[19]
CE074_W2_1_1_	Total Money Support for Siblings[1]
CE074_W2_1_1__MAX	Max Bracket of ce074_w2_1_1_
CE074_W2_1_1__MIN	Min Bracket of ce074_w2_1_1_
CE074_W2_1_20_	Total Money Support for Siblings[20]
CE074_W2_1_20__MAX	Max Bracket of ce074_w2_1_20_
CE074_W2_1_20__MIN	Min Bracket of ce074_w2_1_20_
CE074_W2_1_21_	Total Money Support for Siblings[21]
CE074_W2_1_22_	Total Money Support for Siblings[22]
CE074_W2_1_23_	Total Money Support for Siblings[23]
CE074_W2_1_24_	Total Money Support for Siblings[24]
CE074_W2_1_25_	Total Money Support for Siblings[25]
CE074_W2_1_26_	Total Money Support for Siblings[26]
CE074_W2_1_27_	Total Money Support for Siblings[27]
CE074_W2_1_2_	Total Money Support for Siblings[2]
CE074_W2_1_2__MAX	Max Bracket of ce074_w2_1_2_
CE074_W2_1_2__MIN	Min Bracket of ce074_w2_1_2_
CE074_W2_1_3_	Total Money Support for Siblings[3]



CE074\_w2\_1\_3\_\_MAX Max Bracket of ce074\_w2\_1\_3\_  
CE074\_w2\_1\_3\_\_MIN Min Bracket of ce074\_w2\_1\_3\_  
CE074\_w2\_1\_4\_ Total Money Support for Siblings[4]  
CE074\_w2\_1\_4\_\_MAX Max Bracket of ce074\_w2\_1\_4\_  
CE074\_w2\_1\_4\_\_MIN Min Bracket of ce074\_w2\_1\_4\_  
CE074\_w2\_1\_5\_ Total Money Support for Siblings[5]  
CE074\_w2\_1\_5\_\_MAX Max Bracket of ce074\_w2\_1\_5\_  
CE074\_w2\_1\_5\_\_MIN Min Bracket of ce074\_w2\_1\_5\_  
CE074\_w2\_1\_6\_ Total Money Support for Siblings[6]  
CE074\_w2\_1\_6\_\_MAX Max Bracket of ce074\_w2\_1\_6\_  
CE074\_w2\_1\_6\_\_MIN Min Bracket of ce074\_w2\_1\_6\_  
CE074\_w2\_1\_7\_ Total Money Support for Siblings[7]  
CE074\_w2\_1\_7\_\_MAX Max Bracket of ce074\_w2\_1\_7\_  
CE074\_w2\_1\_7\_\_MIN Min Bracket of ce074\_w2\_1\_7\_  
CE074\_w2\_1\_8\_ Total Money Support for Siblings[8]  
CE074\_w2\_1\_9\_ Total Money Support for Siblings[9]  
CE074\_w2\_3\_10\_ Total In\_kind Support for Siblings[10]  
CE074\_w2\_3\_11\_ Total In\_kind Support for Siblings[11]  
CE074\_w2\_3\_16\_ Total In\_kind Support for Siblings[16]  
CE074\_w2\_3\_16\_\_MA Max Bracket of ce074\_w2\_1\_16\_  
CE074\_w2\_3\_16\_\_MI Min Bracket of ce074\_w2\_1\_16\_  
CE074\_w2\_3\_17\_ Total In\_kind Support for Siblings[17]  
CE074\_w2\_3\_17\_\_MA Max Bracket of ce074\_w2\_1\_17\_  
CE074\_w2\_3\_17\_\_MI Min Bracket of ce074\_w2\_1\_17\_  
CE074\_w2\_3\_18\_ Total In\_kind Support for Siblings[18]  
CE074\_w2\_3\_18\_\_MA Max Bracket of ce074\_w2\_1\_18\_  
CE074\_w2\_3\_18\_\_MI Min Bracket of ce074\_w2\_1\_18\_  
CE074\_w2\_3\_19\_ Total In\_kind Support for Siblings[19]  
CE074\_w2\_3\_1\_ Total In\_kind Support for Siblings[1]  
CE074\_w2\_3\_1\_\_MAX Max Bracket of ce074\_w2\_3\_1\_  
CE074\_w2\_3\_1\_\_MIN Min Bracket of ce074\_w2\_3\_1\_  
CE074\_w2\_3\_20\_ Total In\_kind Support for Siblings[20]  
CE074\_w2\_3\_20\_\_MAX Max Bracket of ce074\_w2\_3\_20\_  
CE074\_w2\_3\_20\_\_MIN Min Bracket of ce074\_w2\_3\_20\_  
CE074\_w2\_3\_21\_ Total In\_kind Support for Siblings[21]  
CE074\_w2\_3\_22\_ Total In\_kind Support for Siblings[22]  
CE074\_w2\_3\_23\_ Total In\_kind Support for Siblings[23]  
CE074\_w2\_3\_24\_ Total In\_kind Support for Siblings[24]  
CE074\_w2\_3\_25\_ Total In\_kind Support for Siblings[25]  
CE074\_w2\_3\_26\_ Total In\_kind Support for Siblings[26]  
CE074\_w2\_3\_27\_ Total In\_kind Support for Siblings[27]  
CE074\_w2\_3\_2\_ Total In\_kind Support for Siblings[2]  
CE074\_w2\_3\_2\_\_MAX Max Bracket of ce074\_w2\_3\_2\_  
CE074\_w2\_3\_2\_\_MIN Min Bracket of ce074\_w2\_3\_2\_  
CE074\_w2\_3\_3\_ Total In\_kind Support for Siblings[3]  
CE074\_w2\_3\_3\_\_MAX Max Bracket of ce074\_w2\_3\_3\_  
CE074\_w2\_3\_3\_\_MIN Min Bracket of ce074\_w2\_3\_3\_  
CE074\_w2\_3\_4\_ Total In\_kind Support for Siblings[4]  
CE074\_w2\_3\_4\_\_MAX Max Bracket of ce074\_w2\_3\_4\_  
CE074\_w2\_3\_4\_\_MIN Min Bracket of ce074\_w2\_3\_4\_  
CE074\_w2\_3\_5\_ Total In\_kind Support for Siblings[5]  
CE074\_w2\_3\_5\_\_MAX Max Bracket of ce074\_w2\_3\_5\_  
CE074\_w2\_3\_5\_\_MIN Min Bracket of ce074\_w2\_3\_5\_  
CE074\_w2\_3\_6\_ Total In\_kind Support for Siblings[6]  
CE074\_w2\_3\_6\_\_MAX Max Bracket of ce074\_w2\_3\_6\_  
CE074\_w2\_3\_6\_\_MIN Min Bracket of ce074\_w2\_3\_6\_  
CE074\_w2\_3\_7\_ Total In\_kind Support for Siblings[7]  
CE074\_w2\_3\_7\_\_MAX Max Bracket of ce074\_w2\_3\_7\_  
CE074\_w2\_3\_7\_\_MIN Min Bracket of ce074\_w2\_3\_7\_  
CE074\_w2\_3\_8\_ Total In\_kind Support for Siblings[8]  
CE074\_w2\_3\_9\_ Total In\_kind Support for Siblings[9]

<b>Total Family Financial Transfers</b>
---

Wave	Variable	Label	Type
1	H1FREC	h1frec:w1 total amount of transfers received	Cont
2	H2FREC	h2frec:w2 total amount of transfers received	Cont
3	H3FREC	h3frec:w3 total amount of transfers received	Cont
4	H4FREC	h4frec:w4 total amount of transfers received	Cont
1	H1TGIV	h1tgiv:w1 total amount of transfers given	Cont
2	H2TGIV	h2tgiv:w2 total amount of transfers given	Cont
3	H3TGIV	h3tgiv:w3 total amount of transfers given	Cont
4	H4TGIV	h4tgiv:w4 total amount of transfers given	Cont
1	H1FTOT	h1ftot:w1 net value of financial transfers	Cont
2	H2FTOT	h2ftot:w2 net value of financial transfers	Cont
3	H3FTOT	h3ftot:w3 net value of financial transfers	Cont
4	H4FTOT	h4ftot:w4 net value of financial transfers	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FREC	17132	2151.40	13160.53	0.00	842000.00
H2FREC	14959	4654.42	13356.01	0.00	525000.00
H3FREC	16716	6570.93	18293.03	0.00	755000.00
H4FREC	19084	6743.68	14849.32	0.00	384300.00
H1TGIV	17092	1916.68	13462.61	0.00	602000.00
H2TGIV	14812	4503.65	17104.62	0.00	502500.00
H3TGIV	16494	9315.80	26019.45	0.00	815000.00
H4TGIV	18902	8923.82	35304.40	0.00	1220000.00
H1FTOT	16951	237.90	18821.96	-602000.00	842000.00
H2FTOT	14605	137.49	18941.20	-485000.00	300000.00
H3FTOT	16396	-2727.47	30860.42	-808000.00	747000.00
H4FTOT	18748	-2170.63	36953.12	-1218000.00	384300.00

### How Constructed:

HwFREC indicates the total amount of financial transfers that the family respondent and spouse received in the past year. HwFREC is a summary variable, which includes the following components:

1. amount of transfers from children or grandchildren (HwFCAMT)
2. amount of transfers from parents or parents-in-law (HwFPAMT)
3. amount of transfers from others (HwFOAMT)

$$\text{HwFREC} = \text{HwFCAMT} + \text{HwFPAMT} + \text{HwFOAMT}$$

HwTGIV indicates the total amount of financial transfers that the family respondent and spouse provided in the past year. HwTGIV is a summary variable, which includes the following components:

1. amount of transfers to children or grandchildren (HwTCAMT)
2. amount of transfers to parents or parents-in-law (HwTPAMT)
3. amount of transfers to others (HwTOAMT)

$$\text{HwTGIV} = \text{HwTCAMT} + \text{HwTPAMT} + \text{HwTOAMT}$$

HwFTOT indicate the net value of financial transfers in the past year.

$$\text{HwFTOT} = \text{HwFREC} - \text{HwTGIV}$$

## Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify differences between waves.

### Differences with the RAND HRS/Harmonized HRS

The values in CHARLS are measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

### CHARLS Variables Used:

Wave 1:

CA001_1_	STILL LIVING
CA001_1_	STILL LIVING
CA001_2_	STILL LIVING
CA001_2_	STILL LIVING
CA001_3_	STILL LIVING
CA001_3_	STILL LIVING
CA001_4_	STILL LIVING
CA001_4_	STILL LIVING
CE001	any transfer from non-coresident parents
CE002_1	regular monetary support
CE002_1_EVERY	time interval
CE002_2	regular in-kind support
CE002_3	non-regular monetary support
CE002_4	non-regular in-kind support
CE004	any transfer from non-coresident parents-in-law
CE005_1	regular monetary support
CE005_1_EVERY	time interval
CE005_2	regular in-kind support
CE005_2_EVERY	time interval
CE005_3	non-regular monetary support
CE005_4	non-regular in-kind support
CE007	any transfer from non-coresident children
CE009_10_1	regular monetary support
CE009_10_1_EVERY	time interval
CE009_10_2	regular in-kind support
CE009_10_2_EVERY	time interval
CE009_10_3	non-regular monetary support
CE009_10_4	non-regular in-kind support
CE009_1_1	regular monetary support
CE009_1_1_EVERY	time interval
CE009_1_2	regular in-kind support
CE009_1_2_EVERY	time interval
CE009_1_3	non-regular monetary support
CE009_1_4	non-regular in-kind support
CE009_2_1	regular monetary support
CE009_2_1_EVERY	time interval
CE009_2_2	regular in-kind support
CE009_2_2_EVERY	time interval
CE009_2_3	non-regular monetary support
CE009_2_4	non-regular in-kind support
CE009_3_1	regular monetary support
CE009_3_1_EVERY	time interval
CE009_3_2	regular in-kind support
CE009_3_2_EVERY	time interval
CE009_3_3	non-regular monetary support
CE009_3_4	non-regular in-kind support
CE009_4_1	regular monetary support
CE009_4_1_EVERY	time interval
CE009_4_2	regular in-kind support
CE009_4_2_EVERY	time interval
CE009_4_3	non-regular monetary support

CE009_4_4	non-regular in-kind support
CE009_5_1	regular monetary support
CE009_5_1 EVERY	time interval
CE009_5_2	regular in-kind support
CE009_5_2 EVERY	time interval
CE009_5_3	non-regular monetary support
CE009_5_4	non-regular in-kind support
CE009_6_1	regular monetary support
CE009_6_1 EVERY	time interval
CE009_6_2	regular in-kind support
CE009_6_2 EVERY	time interval
CE009_6_3	non-regular monetary support
CE009_6_4	non-regular in-kind support
CE009_7_1	regular monetary support
CE009_7_1 EVERY	time interval
CE009_7_2	regular in-kind support
CE009_7_2 EVERY	time interval
CE009_7_3	non-regular monetary support
CE009_7_4	non-regular in-kind support
CE009_8_1	regular monetary support
CE009_8_1 EVERY	time interval
CE009_8_2	regular in-kind support
CE009_8_2 EVERY	time interval
CE009_8_3	non-regular monetary support
CE009_8_4	non-regular in-kind support
CE009_9_1	regular monetary support
CE009_9_1 EVERY	time interval
CE009_9_2	regular in-kind support
CE009_9_2 EVERY	time interval
CE009_9_3	non-regular monetary support
CE009_9_4	non-regular in-kind support
CE011	any transfer from non-coresident grandchildren
CE013_10_1	regular monetary support
CE013_10_1 EVERY	time interval
CE013_10_2	regular in-kind support
CE013_10_2 EVERY	time interval
CE013_10_3	non-regular monetary support
CE013_10_4	non-regular in-kind support
CE013_1_1	regular monetary support
CE013_1_1 EVERY	time interval
CE013_1_2	regular in-kind support
CE013_1_2 EVERY	time interval
CE013_1_3	non-regular monetary support
CE013_1_4	non-regular in-kind support
CE013_2_1	regular monetary support
CE013_2_1 EVERY	time interval
CE013_2_2	regular in-kind support
CE013_2_2 EVERY	time interval
CE013_2_3	non-regular monetary support
CE013_2_4	non-regular in-kind support
CE013_3_1	regular monetary support
CE013_3_1 EVERY	time interval
CE013_3_2	regular in-kind support
CE013_3_2 EVERY	time interval
CE013_3_3	non-regular monetary support
CE013_3_4	non-regular in-kind support
CE013_4_1	regular monetary support
CE013_4_1 EVERY	time interval
CE013_4_2	regular in-kind support
CE013_4_2 EVERY	time interval
CE013_4_3	non-regular monetary support
CE013_4_4	non-regular in-kind support
CE013_5_1	regular monetary support
CE013_5_1 EVERY	time interval
CE013_5_2	regular in-kind support
CE013_5_2 EVERY	time interval
CE013_5_3	non-regular monetary support
CE013_5_4	non-regular in-kind support
CE013_6_1	regular monetary support

CE013_6_1 EVERY	time interval
CE013_6_2	regular in-kind support
CE013_6_2 EVERY	time interval
CE013_6_3	non-regular monetary support
CE013_6_4	non-regular in-kind support
CE013_7_1	regular monetary support
CE013_7_1 EVERY	time interval
CE013_7_2	regular in-kind support
CE013_7_2 EVERY	time interval
CE013_7_3	non-regular monetary support
CE013_7_4	non-regular in-kind support
CE013_8_1	regular monetary support
CE013_8_1 EVERY	time interval
CE013_8_2	regular in-kind support
CE013_8_2 EVERY	time interval
CE013_8_3	non-regular monetary support
CE013_8_4	non-regular in-kind support
CE013_9_1	regular monetary support
CE013_9_1 EVERY	time interval
CE013_9_2	regular in-kind support
CE013_9_2 EVERY	time interval
CE013_9_3	non-regular monetary support
CE013_9_4	non-regular in-kind support
CE015	any transfer from non-coresident other relatives
CE016_1	regular monetary support
CE016_1 EVERY	time interval
CE016_2	regular in-kind support
CE016_2 EVERY	time interval
CE016_3	non-regular monetary support
CE016_4	non-regular in-kind support
CE018	any transfer from friends
CE019_1	regular monetary support
CE019_1 EVERY	time interval
CE019_2	regular in-kind support
CE019_2 EVERY	time interval
CE019_3	non-regular monetary support
CE019_4	non-regular in-kind support
CE021	any transfer to non-coresident parents
CE022_1	regular monetary support
CE022_1 EVERY	time interval
CE022_2	regular in-kind support
CE022_2 EVERY	time interval
CE022_3	non-regular monetary support
CE022_4	non-regular in-kind support
CE024	any transfer to non-coresident parents-in-law
CE025_1	regular monetary support
CE025_1 EVERY	time interval
CE025_2	regular in-kind support
CE025_2 EVERY	time interval
CE025_3	non-regular monetary support
CE025_4	non-regular in-kind support
CE027	any transfer to non-coresident children
CE029_10_1	regular monetary support
CE029_10_1 EVERY	time interval
CE029_10_2	regular in-kind support
CE029_10_2 EVERY	time interval
CE029_10_3	non-regular monetary support
CE029_10_4	non-regular in-kind support
CE029_1_1	regular monetary support
CE029_1_1 EVERY	time interval
CE029_1_2	regular in-kind support
CE029_1_2 EVERY	time interval
CE029_1_3	non-regular monetary support
CE029_1_4	non-regular in-kind support
CE029_2_1	regular monetary support
CE029_2_1 EVERY	time interval
CE029_2_2	regular in-kind support
CE029_2_2 EVERY	time interval
CE029_2_3	non-regular monetary support

CE029_2_4	non-regular in-kind support
CE029_3_1	regular monetary support
CE029_3_1 EVERY	time interval
CE029_3_2	regular in-kind support
CE029_3_2 EVERY	time interval
CE029_3_3	non-regular monetary support
CE029_3_4	non-regular in-kind support
CE029_4_1	regular monetary support
CE029_4_1 EVERY	time interval
CE029_4_2	regular in-kind support
CE029_4_2 EVERY	time interval
CE029_4_3	non-regular monetary support
CE029_4_4	non-regular in-kind support
CE029_5_1	regular monetary support
CE029_5_1 EVERY	time interval
CE029_5_2	regular in-kind support
CE029_5_2 EVERY	time interval
CE029_5_3	non-regular monetary support
CE029_5_4	non-regular in-kind support
CE029_6_1	regular monetary support
CE029_6_1 EVERY	time interval
CE029_6_2	regular in-kind support
CE029_6_2 EVERY	time interval
CE029_6_3	non-regular monetary support
CE029_6_4	non-regular in-kind support
CE029_7_1	regular monetary support
CE029_7_1 EVERY	time interval
CE029_7_2	regular in-kind support
CE029_7_2 EVERY	time interval
CE029_7_3	non-regular monetary support
CE029_7_4	non-regular in-kind support
CE029_8_1	regular monetary support
CE029_8_1 EVERY	time interval
CE029_8_2	regular in-kind support
CE029_8_2 EVERY	time interval
CE029_8_3	non-regular monetary support
CE029_8_4	non-regular in-kind support
CE029_9_1	regular monetary support
CE029_9_1 EVERY	time interval
CE029_9_2	regular in-kind support
CE029_9_2 EVERY	time interval
CE029_9_3	non-regular monetary support
CE029_9_4	non-regular in-kind support
CE031	any transfer to non-coresident grandchildren
CE033_10_1	regular monetary support
CE033_10_1 EVERY	time interval
CE033_10_2	regular in-kind support
CE033_10_2 EVERY	time interval
CE033_10_3	non-regular monetary support
CE033_10_4	non-regular in-kind support
CE033_1_1	regular monetary support
CE033_1_1 EVERY	time interval
CE033_1_2	regular in-kind support
CE033_1_2 EVERY	time interval
CE033_1_3	non-regular monetary support
CE033_1_4	non-regular in-kind support
CE033_2_1	regular monetary support
CE033_2_1 EVERY	time interval
CE033_2_2	regular in-kind support
CE033_2_2 EVERY	time interval
CE033_2_3	non-regular monetary support
CE033_2_4	non-regular in-kind support
CE033_3_1	regular monetary support
CE033_3_1 EVERY	time interval
CE033_3_2	regular in-kind support
CE033_3_2 EVERY	time interval
CE033_3_3	non-regular monetary support
CE033_3_4	non-regular in-kind support
CE033_4_1	regular monetary support

CE033_4_1 EVERY	time interval
CE033_4_2	regular in-kind support
CE033_4_2 EVERY	time interval
CE033_4_3	non-regular monetary support
CE033_4_4	non-regular in-kind support
CE033_5_1	regular monetary support
CE033_5_1 EVERY	time interval
CE033_5_2	regular in-kind support
CE033_5_2 EVERY	time interval
CE033_5_3	non-regular monetary support
CE033_5_4	non-regular in-kind support
CE033_6_1	regular monetary support
CE033_6_1 EVERY	time interval
CE033_6_2	regular in-kind support
CE033_6_2 EVERY	time interval
CE033_6_3	non-regular monetary support
CE033_6_4	non-regular in-kind support
CE033_7_1	regular monetary support
CE033_7_1 EVERY	time interval
CE033_7_2	regular in-kind support
CE033_7_2 EVERY	time interval
CE033_7_3	non-regular monetary support
CE033_7_4	non-regular in-kind support
CE033_8_1	regular monetary support
CE033_8_1 EVERY	time interval
CE033_8_2	regular in-kind support
CE033_8_2 EVERY	time interval
CE033_8_3	non-regular monetary support
CE033_8_4	non-regular in-kind support
CE033_9_1	regular monetary support
CE033_9_1 EVERY	time interval
CE033_9_2	regular in-kind support
CE033_9_2 EVERY	time interval
CE033_9_3	non-regular monetary support
CE033_9_4	non-regular in-kind support
CE035	any transfer to other non-coresident relatives
CE036_1	regular monetary support
CE036_1 EVERY	time interval
CE036_2	regular in-kind support
CE036_2 EVERY	time interval
CE036_3	non-regular monetary support
CE036_4	non-regular in-kind support
CE038	any transfer to non-coresident non-relative (e.g. friends)
CE039_1	regular monetary support
CE039_1 EVERY	time interval
CE039_2	regular in-kind support
CE039_2 EVERY	time interval
CE039_3	non-regular monetary support
CE039_4	non-regular in-kind support

## Wave 2:

CA001_1_	Is Your Father Living
CA001_1_	Is Your Father Living
CA001_2_	Is Your Mother Living
CA001_2_	Is Your Mother Living
CA001_3_	Is Your Father-in-law Living
CA001_3_	Is Your Father-in-law Living
CA001_4_	Is Your Mother-in-law Living
CA001_4_	Is Your Mother-in-law Living
CE002_1	Total Money Support from Parents in the Past Year
CE002_3	Total In-kind Support from Parents in the Past Year
CE005_1	Total Money Support from Parents-in-law in the Past Year
CE005_3	Total In-kind Support from Parents-in-law in the Past Year
CE009_1_10_	Total Money Support from Child10 in the Past Year
CE009_1_11_	Total Money Support from Child11 in the Past Year
CE009_1_15_	Total Money Support from Child15 in the Past Year
CE009_1_1_	Total Money Support from Child1 in the Past Year
CE009_1_2_	Total Money Support from Child2 in the Past Year
CE009_1_3_	Total Money Support from Child3 in the Past Year
CE009_1_4_	Total Money Support from Child4 in the Past Year

CE009_1_5_	Total Money Support from Child5 in the Past Year
CE009_1_6_	Total Money Support from Child6 in the Past Year
CE009_1_7_	Total Money Support from Child7 in the Past Year
CE009_1_8_	Total Money Support from Child8 in the Past Year
CE009_1_9_	Total Money Support from Child9 in the Past Year
CE009_3_10_	Total In-kind Support from Child10 in the Past Year
CE009_3_11_	Total In-kind Support from Child11 in the Past Year
CE009_3_15_	Total In-kind Support from Child15 in the Past Year
CE009_3_1_	Total In-kind Support from Child1 in the Past Year
CE009_3_2_	Total In-kind Support from Child2 in the Past Year
CE009_3_3_	Total In-kind Support from Child3 in the Past Year
CE009_3_4_	Total In-kind Support from Child4 in the Past Year
CE009_3_5_	Total In-kind Support from Child5 in the Past Year
CE009_3_6_	Total In-kind Support from Child6 in the Past Year
CE009_3_7_	Total In-kind Support from Child7 in the Past Year
CE009_3_8_	Total In-kind Support from Child8 in the Past Year
CE009_3_9_	Total In-kind Support from Child9 in the Past Year
CE012S99	Giving or Receiving from children of child 99
CE013_1_10_	Total Money Support from Children of Child10 in the Past Year
CE013_1_11_	Total Money Support from Children of Child11 in the Past Year
CE013_1_1_	Total Money Support from Children of Child1 in the Past Year
CE013_1_2_	Total Money Support from Children of Child2 in the Past Year
CE013_1_3_	Total Money Support from Children of Child3 in the Past Year
CE013_1_4_	Total Money Support from Children of Child4 in the Past Year
CE013_1_5_	Total Money Support from Children of Child5 in the Past Year
CE013_1_6_	Total Money Support from Children of Child6 in the Past Year
CE013_1_7_	Total Money Support from Children of Child7 in the Past Year
CE013_1_8_	Total Money Support from Children of Child8 in the Past Year
CE013_1_9_	Total Money Support from Children of Child9 in the Past Year
CE013_3_10_	Total In-kind Support from Children of Child10 in the Past Year
CE013_3_11_	Total In-kind Support from Children of Child11 in the Past Year
CE013_3_1_	Total In-kind Support from Children of Child1 in the Past Year
CE013_3_2_	Total In-kind Support from Children of Child2 in the Past Year
CE013_3_3_	Total In-kind Support from Children of Child3 in the Past Year
CE013_3_4_	Total In-kind Support from Children of Child4 in the Past Year
CE013_3_5_	Total In-kind Support from Children of Child5 in the Past Year
CE013_3_6_	Total In-kind Support from Children of Child6 in the Past Year
CE013_3_7_	Total In-kind Support from Children of Child7 in the Past Year
CE013_3_8_	Total In-kind Support from Children of Child8 in the Past Year
CE013_3_9_	Total In-kind Support from Children of Child9 in the Past Year
CE016	Total Support from Relatives or Friends in the Past Year
CE022_1	Total Money Support to Parents in the Past Year
CE022_3	Total In-kind Support to Parents in the Past Year
CE025_1	Total Money Support to Parents-in-law in the Past Year
CE025_3	Total In-kind Support to Parents-in-law in the Past Year
CE029_1_10_	Total Money Support to Child10 in the Past Year
CE029_1_11_	Total Money Support to Child11 in the Past Year
CE029_1_15_	Total Money Support to Child15 in the Past Year
CE029_1_1_	Total Money Support to Child1 in the Past Year
CE029_1_2_	Total Money Support to Child2 in the Past Year
CE029_1_3_	Total Money Support to Child3 in the Past Year
CE029_1_4_	Total Money Support to Child4 in the Past Year
CE029_1_5_	Total Money Support to Child5 in the Past Year
CE029_1_6_	Total Money Support to Child6 in the Past Year
CE029_1_7_	Total Money Support to Child7 in the Past Year
CE029_1_8_	Total Money Support to Child8 in the Past Year
CE029_1_9_	Total Money Support to Child9 in the Past Year
CE029_3_10_	Total In-kind Support to Child10 in the Past Year
CE029_3_11_	Total In-kind Support to Child11 in the Past Year
CE029_3_15_	Total In-kind Support to Child15 in the Past Year
CE029_3_1_	Total In-kind Support to Child1 in the Past Year
CE029_3_2_	Total In-kind Support to Child2 in the Past Year
CE029_3_3_	Total In-kind Support to Child3 in the Past Year
CE029_3_4_	Total In-kind Support to Child4 in the Past Year
CE029_3_5_	Total In-kind Support to Child5 in the Past Year
CE029_3_6_	Total In-kind Support to Child6 in the Past Year
CE029_3_7_	Total In-kind Support to Child7 in the Past Year
CE029_3_8_	Total In-kind Support to Child8 in the Past Year
CE029_3_9_	Total In-kind Support to Child9 in the Past Year



CE031_1_10_	Total Money Support to Children of Child10 in the Past Year
CE031_1_11_	Total Money Support to Children of Child11 in the Past Year
CE031_1_1_	Total Money Support to Children of Child1 in the Past Year
CE031_1_2_	Total Money Support to Children of Child2 in the Past Year
CE031_1_3_	Total Money Support to Children of Child3 in the Past Year
CE031_1_4_	Total Money Support to Children of Child4 in the Past Year
CE031_1_5_	Total Money Support to Children of Child5 in the Past Year
CE031_1_6_	Total Money Support to Children of Child6 in the Past Year
CE031_1_7_	Total Money Support to Children of Child7 in the Past Year
CE031_1_8_	Total Money Support to Children of Child8 in the Past Year
CE031_1_9_	Total Money Support to Children of Child9 in the Past Year
CE031_3_10_	Total In-kind Support to Children of Child10 in the Past Year
CE031_3_11_	Total In-kind Support to Children of Child11 in the Past Year
CE031_3_1_	Total In-kind Support to Children of Child1 in the Past Year
CE031_3_2_	Total In-kind Support to Children of Child2 in the Past Year
CE031_3_3_	Total In-kind Support to Children of Child3 in the Past Year
CE031_3_4_	Total In-kind Support to Children of Child4 in the Past Year
CE031_3_5_	Total In-kind Support to Children of Child5 in the Past Year
CE031_3_6_	Total In-kind Support to Children of Child6 in the Past Year
CE031_3_7_	Total In-kind Support to Children of Child7 in the Past Year
CE031_3_8_	Total In-kind Support to Children of Child8 in the Past Year
CE031_3_9_	Total In-kind Support to Children of Child9 in the Past Year
CE036	Total Support to Relatives or Friends in the Past Year
CE072_W2	Total Support from Siblings in the Past Year
CE074_W2	Total Support to Siblings in the Past Year

## Wave 3:

CE002_1_1_	Total Money Support From Non-Coresident Parents Type 1 in The P
CE002_1_2_	Total Money Support From Non-Coresident Parents Type 2 in The P
CE002_1_3_	Total Money Support From Non-Coresident Parents Type 3 in The P
CE002_1_4_	Total Money Support From Non-Coresident Parents Type 4 in The P
CE002_1_5_	Total Money Support From Non-Coresident Parents Type 5 in The P
CE002_1_6_	Total Money Support From Non-Coresident Parents Type 6 in The P
CE002_1_7_	Total Money Support From Non-Coresident Parents Type 7 in The P
CE002_1_8_	Total Money Support From Non-Coresident Parents Type 8 in The P
CE002_3_1_	Total in-Kind Support From Non-Coresident Parents Type 1 in The
CE002_3_2_	Total in-Kind Support From Non-Coresident Parents Type 2 in The
CE002_3_3_	Total in-Kind Support From Non-Coresident Parents Type 3 in The
CE002_3_4_	Total in-Kind Support From Non-Coresident Parents Type 4 in The
CE002_3_5_	Total in-Kind Support From Non-Coresident Parents Type 5 in The
CE002_3_6_	Total in-Kind Support From Non-Coresident Parents Type 6 in The
CE002_3_7_	Total in-Kind Support From Non-Coresident Parents Type 7 in The
CE002_3_8_	Total in-Kind Support From Non-Coresident Parents Type 8 in The
CE009_1_10_	Total Money Support From Non-Coresident Child 10 in The Past Ye
CE009_1_11_	Total Money Support From Non-Coresident Child 11 in The Past Ye
CE009_1_12_	Total Money Support From Non-Coresident Child 12 in The Past Ye
CE009_1_13_	Total Money Support From Non-Coresident Child 13 in The Past Ye
CE009_1_14_	Total Money Support From Non-Coresident Child 14 in The Past Ye
CE009_1_15_	Total Money Support From Non-Coresident Child 15 in The Past Ye
CE009_1_16_	Total Money Support From Non-Coresident Child 16 in The Past Ye
CE009_1_1_	Total Money Support From Non-Coresident Child 1 in The Past Yea
CE009_1_2_	Total Money Support From Non-Coresident Child 2 in The Past Yea
CE009_1_3_	Total Money Support From Non-Coresident Child 3 in The Past Yea
CE009_1_4_	Total Money Support From Non-Coresident Child 4 in The Past Yea
CE009_1_5_	Total Money Support From Non-Coresident Child 5 in The Past Yea
CE009_1_6_	Total Money Support From Non-Coresident Child 6 in The Past Yea
CE009_1_7_	Total Money Support From Non-Coresident Child 7 in The Past Yea
CE009_1_8_	Total Money Support From Non-Coresident Child 8 in The Past Yea
CE009_1_9_	Total Money Support From Non-Coresident Child 9 in The Past Yea
CE009_3_10_	Total in-Kind Support From Non-Coresident Child 10 in The Past
CE009_3_11_	Total in-Kind Support From Non-Coresident Child 11 in The Past
CE009_3_12_	Total in-Kind Support From Non-Coresident Child 12 in The Past
CE009_3_13_	Total in-Kind Support From Non-Coresident Child 13 in The Past
CE009_3_14_	Total in-Kind Support From Non-Coresident Child 14 in The Past
CE009_3_15_	Total in-Kind Support From Non-Coresident Child 15 in The Past
CE009_3_16_	Total in-Kind Support From Non-Coresident Child 16 in The Past
CE009_3_1_	Total in-Kind Support From Non-Coresident Child 1 in The Past Y
CE009_3_2_	Total in-Kind Support From Non-Coresident Child 2 in The Past Y
CE009_3_3_	Total in-Kind Support From Non-Coresident Child 3 in The Past Y
CE009_3_4_	Total in-Kind Support From Non-Coresident Child 4 in The Past Y

CE009_3_5_	Total in-Kind Support From Non-Coresident Child 5 in The Past Y
CE009_3_6_	Total in-Kind Support From Non-Coresident Child 6 in The Past Y
CE009_3_7_	Total in-Kind Support From Non-Coresident Child 7 in The Past Y
CE009_3_8_	Total in-Kind Support From Non-Coresident Child 8 in The Past Y
CE009_3_9_	Total in-Kind Support From Non-Coresident Child 9 in The Past Y
CE016	Economic Support From Other Non-Coresident Relatives or Friends
CE016_W3	Cash Gift From Other Non-Coresident Relatives or Friends in The
CE022_1_1_	Total Money Support to Non-Coresident Parents Type 1 in The Pas
CE022_1_2_	Total Money Support to Non-Coresident Parents Type 2 in The Pas
CE022_1_3_	Total Money Support to Non-Coresident Parents Type 3 in The Pas
CE022_1_4_	Total Money Support to Non-Coresident Parents Type 4 in The Pas
CE022_1_5_	Total Money Support to Non-Coresident Parents Type 5 in The Pas
CE022_1_6_	Total Money Support to Non-Coresident Parents Type 6 in The Pas
CE022_1_7_	Total Money Support to Non-Coresident Parents Type 7 in The Pas
CE022_1_8_	Total Money Support to Non-Coresident Parents Type 8 in The Pas
CE022_3_1_	Total in-Kind Support to Non-Coresident Parents Type 1 in The P
CE022_3_2_	Total in-Kind Support to Non-Coresident Parents Type 2 in The P
CE022_3_3_	Total in-Kind Support to Non-Coresident Parents Type 3 in The P
CE022_3_4_	Total in-Kind Support to Non-Coresident Parents Type 4 in The P
CE022_3_5_	Total in-Kind Support to Non-Coresident Parents Type 5 in The P
CE022_3_6_	Total in-Kind Support to Non-Coresident Parents Type 6 in The P
CE022_3_7_	Total in-Kind Support to Non-Coresident Parents Type 7 in The P
CE022_3_8_	Total in-Kind Support to Non-Coresident Parents Type 8 in The P
CE029_1_10_	Total Money Support to Non-Coresident Child 10 in The Past Year
CE029_1_11_	Total Money Support to Non-Coresident Child 11 in The Past Year
CE029_1_12_	Total Money Support to Non-Coresident Child 12 in The Past Year
CE029_1_13_	Total Money Support to Non-Coresident Child 13 in The Past Year
CE029_1_14_	Total Money Support to Non-Coresident Child 14 in The Past Year
CE029_1_15_	Total Money Support to Non-Coresident Child 15 in The Past Year
CE029_1_16_	Total Money Support to Non-Coresident Child 16 in The Past Year
CE029_1_1_	Total Money Support to Non-Coresident Child 1 in The Past Year
CE029_1_2_	Total Money Support to Non-Coresident Child 2 in The Past Year
CE029_1_3_	Total Money Support to Non-Coresident Child 3 in The Past Year
CE029_1_4_	Total Money Support to Non-Coresident Child 4 in The Past Year
CE029_1_5_	Total Money Support to Non-Coresident Child 5 in The Past Year
CE029_1_6_	Total Money Support to Non-Coresident Child 6 in The Past Year
CE029_1_7_	Total Money Support to Non-Coresident Child 7 in The Past Year
CE029_1_8_	Total Money Support to Non-Coresident Child 8 in The Past Year
CE029_1_9_	Total Money Support to Non-Coresident Child 9 in The Past Year
CE029_3_10_	Total in-Kind Support to Non-Coresident Child 10 in The Past Ye
CE029_3_11_	Total in-Kind Support to Non-Coresident Child 11 in The Past Ye
CE029_3_12_	Total in-Kind Support to Non-Coresident Child 12 in The Past Ye
CE029_3_13_	Total in-Kind Support to Non-Coresident Child 13 in The Past Ye
CE029_3_14_	Total in-Kind Support to Non-Coresident Child 14 in The Past Ye
CE029_3_15_	Total in-Kind Support to Non-Coresident Child 15 in The Past Ye
CE029_3_16_	Total in-Kind Support to Non-Coresident Child 16 in The Past Ye
CE029_3_1_	Total in-Kind Support to Non-Coresident Child 1 in The Past Yea
CE029_3_2_	Total in-Kind Support to Non-Coresident Child 2 in The Past Yea
CE029_3_3_	Total in-Kind Support to Non-Coresident Child 3 in The Past Yea
CE029_3_4_	Total in-Kind Support to Non-Coresident Child 4 in The Past Yea
CE029_3_5_	Total in-Kind Support to Non-Coresident Child 5 in The Past Yea
CE029_3_6_	Total in-Kind Support to Non-Coresident Child 6 in The Past Yea
CE029_3_7_	Total in-Kind Support to Non-Coresident Child 7 in The Past Yea
CE029_3_8_	Total in-Kind Support to Non-Coresident Child 8 in The Past Yea
CE029_3_9_	Total in-Kind Support to Non-Coresident Child 9 in The Past Yea
CE036	Economic Support to Other Non-Coresident Ralatives or Friends i
CE036_W3	Cash Gift to Other Non-Coresident Relatives or Friends in The P
CE072_W2_1_10_	Total Money Support From Non-Coresident Sibling 10 in The Past
CE072_W2_1_16_	Total Money Support From Non-Coresident Sibling 16 in The Past
CE072_W2_1_17_	Total Money Support From Non-Coresident Sibling 17 in The Past
CE072_W2_1_18_	Total Money Support From Non-Coresident Sibling 18 in The Past
CE072_W2_1_19_	Total Money Support From Non-Coresident Sibling 19 in The Past
CE072_W2_1_1_	Total Money Support From Non-Coresident Sibling 1 in The Past Y
CE072_W2_1_20_	Total Money Support From Non-Coresident Sibling 20 in The Past
CE072_W2_1_21_	Total Money Support From Non-Coresident Sibling 21 in The Past
CE072_W2_1_22_	Total Money Support From Non-Coresident Sibling 22 in The Past
CE072_W2_1_2_	Total Money Support From Non-Coresident Sibling 2 in The Past Y
CE072_W2_1_3_	Total Money Support From Non-Coresident Sibling 3 in The Past Y
CE072_W2_1_4_	Total Money Support From Non-Coresident Sibling 4 in The Past Y

CE072_W2_1_5_	Total Money Support From Non-Coresident Sibling 5 in The Past Y
CE072_W2_1_6_	Total Money Support From Non-Coresident Sibling 6 in The Past Y
CE072_W2_1_7_	Total Money Support From Non-Coresident Sibling 7 in The Past Y
CE072_W2_1_8_	Total Money Support From Non-Coresident Sibling 8 in The Past Y
CE072_W2_1_9_	Total Money Support From Non-Coresident Sibling 9 in The Past Y
CE072_W2_3_10_	Total in-Kind Support From Non-Coresident Sibling 10 in The Pas
CE072_W2_3_16_	Total in-Kind Support From Non-Coresident Sibling 16 in The Pas
CE072_W2_3_17_	Total in-Kind Support From Non-Coresident Sibling 17 in The Pas
CE072_W2_3_18_	Total in-Kind Support From Non-Coresident Sibling 18 in The Pas
CE072_W2_3_19_	Total in-Kind Support From Non-Coresident Sibling 19 in The Pas
CE072_W2_3_1_	Total in-Kind Support From Non-Coresident Sibling 1 in The Past
CE072_W2_3_20_	Total in-Kind Support From Non-Coresident Sibling 20 in The Pas
CE072_W2_3_21_	Total in-Kind Support From Non-Coresident Sibling 21 in The Pas
CE072_W2_3_22_	Total in-Kind Support From Non-Coresident Sibling 22 in The Pas
CE072_W2_3_2_	Total in-Kind Support From Non-Coresident Sibling 2 in The Past
CE072_W2_3_3_	Total in-Kind Support From Non-Coresident Sibling 3 in The Past
CE072_W2_3_4_	Total in-Kind Support From Non-Coresident Sibling 4 in The Past
CE072_W2_3_5_	Total in-Kind Support From Non-Coresident Sibling 5 in The Past
CE072_W2_3_6_	Total in-Kind Support From Non-Coresident Sibling 6 in The Past
CE072_W2_3_7_	Total in-Kind Support From Non-Coresident Sibling 7 in The Past
CE072_W2_3_8_	Total in-Kind Support From Non-Coresident Sibling 8 in The Past
CE072_W2_3_9_	Total in-Kind Support From Non-Coresident Sibling 9 in The Past
CE072_W3S99	Non-coresident sibling Has Economic Support with You and Your
CE074_W2_1_10_	Total Money Support to Non-Coresident Sibling 10 in The Past Ye
CE074_W2_1_16_	Total Money Support to Non-Coresident Sibling 16 in The Past Ye
CE074_W2_1_17_	Total Money Support to Non-Coresident Sibling 17 in The Past Ye
CE074_W2_1_18_	Total Money Support to Non-Coresident Sibling 18 in The Past Ye
CE074_W2_1_19_	Total Money Support to Non-Coresident Sibling 19 in The Past Ye
CE074_W2_1_1_	Total Money Support to Non-Coresident Sibling 1 in The Past Yea
CE074_W2_1_20_	Total Money Support to Non-Coresident Sibling 20 in The Past Ye
CE074_W2_1_21_	Total Money Support to Non-Coresident Sibling 21 in The Past Ye
CE074_W2_1_22_	Total Money Support to Non-Coresident Sibling 22 in The Past Ye
CE074_W2_1_2_	Total Money Support to Non-Coresident Sibling 2 in The Past Yea
CE074_W2_1_3_	Total Money Support to Non-Coresident Sibling 3 in The Past Yea
CE074_W2_1_4_	Total Money Support to Non-Coresident Sibling 4 in The Past Yea
CE074_W2_1_5_	Total Money Support to Non-Coresident Sibling 5 in The Past Yea
CE074_W2_1_6_	Total Money Support to Non-Coresident Sibling 6 in The Past Yea
CE074_W2_1_7_	Total Money Support to Non-Coresident Sibling 7 in The Past Yea
CE074_W2_1_8_	Total Money Support to Non-Coresident Sibling 8 in The Past Yea
CE074_W2_1_9_	Total Money Support to Non-Coresident Sibling 9 in The Past Yea
CE074_W2_3_10_	Total in-Kind Support to Non-Coresident Sibling 10 in The Past
CE074_W2_3_16_	Total in-Kind Support to Non-Coresident Sibling 16 in The Past
CE074_W2_3_17_	Total in-Kind Support to Non-Coresident Sibling 17 in The Past
CE074_W2_3_18_	Total in-Kind Support to Non-Coresident Sibling 18 in The Past
CE074_W2_3_19_	Total in-Kind Support to Non-Coresident Sibling 19 in The Past
CE074_W2_3_1_	Total in-Kind Support to Non-Coresident Sibling 1 in The Past Y
CE074_W2_3_20_	Total in-Kind Support to Non-Coresident Sibling 20 in The Past
CE074_W2_3_21_	Total in-Kind Support to Non-Coresident Sibling 21 in The Past
CE074_W2_3_22_	Total in-Kind Support to Non-Coresident Sibling 22 in The Past
CE074_W2_3_2_	Total in-Kind Support to Non-Coresident Sibling 2 in The Past Y
CE074_W2_3_3_	Total in-Kind Support to Non-Coresident Sibling 3 in The Past Y
CE074_W2_3_4_	Total in-Kind Support to Non-Coresident Sibling 4 in The Past Y
CE074_W2_3_5_	Total in-Kind Support to Non-Coresident Sibling 5 in The Past Y
CE074_W2_3_6_	Total in-Kind Support to Non-Coresident Sibling 6 in The Past Y
CE074_W2_3_7_	Total in-Kind Support to Non-Coresident Sibling 7 in The Past Y
CE074_W2_3_8_	Total in-Kind Support to Non-Coresident Sibling 8 in The Past Y
CE074_W2_3_9_	Total in-Kind Support to Non-Coresident Sibling 9 in The Past Y
Wave 4:	
CE002_1_1_	Total Money Support from XConParName[1]
CE002_1_2_	Total Money Support from XConParName[2]
CE002_1_3_	Total Money Support from XConParName[3]
CE002_1_4_	Total Money Support from XConParName[4]
CE002_1_5_	Total Money Support from XConParName[5]
CE002_1_6_	Total Money Support from XConParName[6]
CE002_1_7_	Total Money Support from XConParName[7]
CE002_1_8_	Total Money Support from XConParName[8]
CE002_3_1_	Total In_kind Support from XConParName[1]
CE002_3_2_	Total In_kind Support from XConParName[2]
CE002_3_3_	Total In_kind Support from XConParName[3]

CE002_3_4_	Total In_kind Support from XConParName[4]
CE002_3_5_	Total In_kind Support from XConParName[5]
CE002_3_6_	Total In_kind Support from XConParName[6]
CE002_3_7_	Total In_kind Support from XConParName[7]
CE002_3_8_	Total In_kind Support from XConParName[8]
CE009_1_10_	Total Money Support from XChildName[10]
CE009_1_11_	Total Money Support from XChildName[11]
CE009_1_12_	Total Money Support from XChildName[12]
CE009_1_13_	Total Money Support from XChildName[13]
CE009_1_14_	Total Money Support from XChildName[14]
CE009_1_15_	Total Money Support from XChildName[15]
CE009_1_1_	Total Money Support from XChildName[1]
CE009_1_2_	Total Money Support from XChildName[2]
CE009_1_3_	Total Money Support from XChildName[3]
CE009_1_4_	Total Money Support from XChildName[4]
CE009_1_5_	Total Money Support from XChildName[5]
CE009_1_6_	Total Money Support from XChildName[6]
CE009_1_7_	Total Money Support from XChildName[7]
CE009_1_8_	Total Money Support from XChildName[8]
CE009_1_9_	Total Money Support from XChildName[9]
CE009_3_10_	Total In_kind Support from XChildName[10]
CE009_3_11_	Total In_kind Support from XChildName[11]
CE009_3_12_	Total In_kind Support from XChildName[12]
CE009_3_13_	Total In_kind Support from XChildName[13]
CE009_3_14_	Total In_kind Support from XChildName[14]
CE009_3_15_	Total In_kind Support from XChildName[15]
CE009_3_1_	Total In_kind Support from XChildName[1]
CE009_3_2_	Total In_kind Support from XChildName[2]
CE009_3_3_	Total In_kind Support from XChildName[3]
CE009_3_4_	Total In_kind Support from XChildName[4]
CE009_3_5_	Total In_kind Support from XChildName[5]
CE009_3_6_	Total In_kind Support from XChildName[6]
CE009_3_7_	Total In_kind Support from XChildName[7]
CE009_3_8_	Total In_kind Support from XChildName[8]
CE009_3_9_	Total In_kind Support from XChildName[9]
CE016	Economic Supports from Relatives
CE016_W3	Cash Gift from Relatives
CE022_1_1_	Total Money Support for XConParName[1]
CE022_1_2_	Total Money Support for XConParName[2]
CE022_1_3_	Total Money Support for XConParName[3]
CE022_1_4_	Total Money Support for XConParName[4]
CE022_1_5_	Total Money Support for XConParName[5]
CE022_1_6_	Total Money Support for XConParName[6]
CE022_1_7_	Total Money Support for XConParName[7]
CE022_1_8_	Total Money Support for XConParName[8]
CE022_3_1_	Total In_kind Support for XConParName[1]
CE022_3_2_	Total In_kind Support for XConParName[2]
CE022_3_3_	Total In_kind Support for XConParName[3]
CE022_3_4_	Total In_kind Support for XConParName[4]
CE022_3_5_	Total In_kind Support for XConParName[5]
CE022_3_6_	Total In_kind Support for XConParName[6]
CE022_3_7_	Total In_kind Support for XConParName[7]
CE022_3_8_	Total In_kind Support for XConParName[8]
CE029_1_10_	Total Money Support for XChildName[10]
CE029_1_11_	Total Money Support for XChildName[11]
CE029_1_12_	Total Money Support for XChildName[12]
CE029_1_13_	Total Money Support for XChildName[13]
CE029_1_14_	Total Money Support for XChildName[14]
CE029_1_15_	Total Money Support for XChildName[15]
CE029_1_1_	Total Money Support for XChildName[1]
CE029_1_2_	Total Money Support for XChildName[2]
CE029_1_3_	Total Money Support for XChildName[3]
CE029_1_4_	Total Money Support for XChildName[4]
CE029_1_5_	Total Money Support for XChildName[5]
CE029_1_6_	Total Money Support for XChildName[6]
CE029_1_7_	Total Money Support for XChildName[7]
CE029_1_8_	Total Money Support for XChildName[8]
CE029_1_9_	Total Money Support for XChildName[9]
CE029_3_10_	Total In_kind Support for XChildName[10]

CE029\_3\_11\_ Total In\_kind Support for XChildName[11]  
 CE029\_3\_12\_ Total In\_kind Support for XChildName[12]  
 CE029\_3\_13\_ Total In\_kind Support for XChildName[13]  
 CE029\_3\_14\_ Total In\_kind Support for XChildName[14]  
 CE029\_3\_15\_ Total In\_kind Support for XChildName[15]  
 CE029\_3\_1\_ Total In\_kind Support for XChildName[1]  
 CE029\_3\_2\_ Total In\_kind Support for XChildName[2]  
 CE029\_3\_3\_ Total In\_kind Support for XChildName[3]  
 CE029\_3\_4\_ Total In\_kind Support for XChildName[4]  
 CE029\_3\_5\_ Total In\_kind Support for XChildName[5]  
 CE029\_3\_6\_ Total In\_kind Support for XChildName[6]  
 CE029\_3\_7\_ Total In\_kind Support for XChildName[7]  
 CE029\_3\_8\_ Total In\_kind Support for XChildName[8]  
 CE029\_3\_9\_ Total In\_kind Support for XChildName[9]  
 CE036 Economic Supports for Relatives  
 CE036\_w3 Cash Gift for Relatives  
 CE072\_w2\_1\_10\_ Total Money Support from Siblings[10]  
 CE072\_w2\_1\_10\_\_MA Max Bracket of ce072\_w2\_1\_10\_  
 CE072\_w2\_1\_10\_\_MI Min Bracket of ce072\_w2\_1\_10\_  
 CE072\_w2\_1\_11\_ Total Money Support from Siblings[11]  
 CE072\_w2\_1\_16\_ Total Money Support from Siblings[16]  
 CE072\_w2\_1\_16\_\_MA Max Bracket of ce072\_w2\_1\_16\_  
 CE072\_w2\_1\_16\_\_MI Min Bracket of ce072\_w2\_1\_16\_  
 CE072\_w2\_1\_17\_ Total Money Support from Siblings[17]  
 CE072\_w2\_1\_17\_\_MA Max Bracket of ce072\_w2\_1\_17\_  
 CE072\_w2\_1\_17\_\_MI Min Bracket of ce072\_w2\_1\_17\_  
 CE072\_w2\_1\_18\_ Total Money Support from Siblings[18]  
 CE072\_w2\_1\_18\_\_MA Max Bracket of ce072\_w2\_1\_18\_  
 CE072\_w2\_1\_18\_\_MI Min Bracket of ce072\_w2\_1\_18\_  
 CE072\_w2\_1\_19\_ Total Money Support from Siblings[19]  
 CE072\_w2\_1\_1\_ Total Money Support from Siblings[1]  
 CE072\_w2\_1\_1\_\_MAX Max Bracket of ce072\_w2\_1\_1\_  
 CE072\_w2\_1\_1\_\_MIN Min Bracket of ce072\_w2\_1\_1\_  
 CE072\_w2\_1\_20\_ Total Money Support from Siblings[20]  
 CE072\_w2\_1\_21\_ Total Money Support from Siblings[21]  
 CE072\_w2\_1\_22\_ Total Money Support from Siblings[22]  
 CE072\_w2\_1\_23\_ Total Money Support from Siblings[23]  
 CE072\_w2\_1\_24\_ Total Money Support from Siblings[24]  
 CE072\_w2\_1\_25\_ Total Money Support from Siblings[25]  
 CE072\_w2\_1\_26\_ Total Money Support from Siblings[26]  
 CE072\_w2\_1\_27\_ Total Money Support from Siblings[27]  
 CE072\_w2\_1\_2\_ Total Money Support from Siblings[2]  
 CE072\_w2\_1\_2\_\_MAX Max Bracket of ce072\_w2\_1\_2\_  
 CE072\_w2\_1\_2\_\_MIN Min Bracket of ce072\_w2\_1\_2\_  
 CE072\_w2\_1\_3\_ Total Money Support from Siblings[3]  
 CE072\_w2\_1\_3\_\_MAX Max Bracket of ce072\_w2\_1\_3\_  
 CE072\_w2\_1\_3\_\_MIN Min Bracket of ce072\_w2\_1\_3\_  
 CE072\_w2\_1\_4\_ Total Money Support from Siblings[4]  
 CE072\_w2\_1\_4\_\_MAX Max Bracket of ce072\_w2\_1\_4\_  
 CE072\_w2\_1\_4\_\_MIN Min Bracket of ce072\_w2\_1\_4\_  
 CE072\_w2\_1\_5\_ Total Money Support from Siblings[5]  
 CE072\_w2\_1\_5\_\_MAX Max Bracket of ce072\_w2\_1\_5\_  
 CE072\_w2\_1\_5\_\_MIN Min Bracket of ce072\_w2\_1\_5\_  
 CE072\_w2\_1\_6\_ Total Money Support from Siblings[6]  
 CE072\_w2\_1\_6\_\_MAX Max Bracket of ce072\_w2\_1\_6\_  
 CE072\_w2\_1\_6\_\_MIN Min Bracket of ce072\_w2\_1\_6\_  
 CE072\_w2\_1\_7\_ Total Money Support from Siblings[7]  
 CE072\_w2\_1\_7\_\_MAX Max Bracket of ce072\_w2\_1\_7\_  
 CE072\_w2\_1\_7\_\_MIN Min Bracket of ce072\_w2\_1\_7\_  
 CE072\_w2\_1\_8\_ Total Money Support from Siblings[8]  
 CE072\_w2\_1\_8\_\_MAX Max Bracket of ce072\_w2\_1\_8\_  
 CE072\_w2\_1\_8\_\_MIN Min Bracket of ce072\_w2\_1\_8\_  
 CE072\_w2\_1\_9\_ Total Money Support from Siblings[9]  
 CE072\_w2\_1\_9\_\_MAX Max Bracket of ce072\_w2\_1\_9\_  
 CE072\_w2\_1\_9\_\_MIN Min Bracket of ce072\_w2\_1\_9\_  
 CE072\_w2\_3\_10\_ Total In\_kind Support from Siblings[10]  
 CE072\_w2\_3\_10\_\_MA Max Bracket of ce072\_w2\_3\_10\_  
 CE072\_w2\_3\_10\_\_MI Min Bracket of ce072\_w2\_3\_10\_  
 CE072\_w2\_3\_11\_ Total In\_kind Support from Siblings[11]

CE072\_w2\_3\_16\_ Total In\_kind Support from Siblings[16]  
CE072\_w2\_3\_16\_\_MA Max Bracket of ce072\_w2\_3\_16\_  
CE072\_w2\_3\_16\_\_MI Min Bracket of ce072\_w2\_3\_16\_  
CE072\_w2\_3\_17\_ Total In\_kind Support from Siblings[17]  
CE072\_w2\_3\_17\_\_MA Max Bracket of ce072\_w2\_3\_17\_  
CE072\_w2\_3\_17\_\_MI Min Bracket of ce072\_w2\_3\_17\_  
CE072\_w2\_3\_18\_ Total In\_kind Support from Siblings[18]  
CE072\_w2\_3\_18\_\_MA Max Bracket of ce072\_w2\_3\_18\_  
CE072\_w2\_3\_18\_\_MI Min Bracket of ce072\_w2\_3\_18\_  
CE072\_w2\_3\_19\_ Total In\_kind Support from Siblings[19]  
CE072\_w2\_3\_1\_ Total In\_kind Support from Siblings[1]  
CE072\_w2\_3\_1\_\_MAX Max Bracket of ce072\_w2\_3\_1\_  
CE072\_w2\_3\_1\_\_MIN Min Bracket of ce072\_w2\_3\_1\_  
CE072\_w2\_3\_20\_ Total In\_kind Support from Siblings[20]  
CE072\_w2\_3\_21\_ Total In\_kind Support from Siblings[21]  
CE072\_w2\_3\_22\_ Total In\_kind Support from Siblings[22]  
CE072\_w2\_3\_23\_ Total In\_kind Support from Siblings[23]  
CE072\_w2\_3\_24\_ Total In\_kind Support from Siblings[24]  
CE072\_w2\_3\_25\_ Total In\_kind Support from Siblings[25]  
CE072\_w2\_3\_26\_ Total In\_kind Support from Siblings[26]  
CE072\_w2\_3\_27\_ Total In\_kind Support from Siblings[27]  
CE072\_w2\_3\_2\_ Total In\_kind Support from Siblings[2]  
CE072\_w2\_3\_2\_\_MAX Max Bracket of ce072\_w2\_3\_2\_  
CE072\_w2\_3\_2\_\_MIN Min Bracket of ce072\_w2\_3\_2\_  
CE072\_w2\_3\_3\_ Total In\_kind Support from Siblings[3]  
CE072\_w2\_3\_3\_\_MAX Max Bracket of ce072\_w2\_3\_3\_  
CE072\_w2\_3\_3\_\_MIN Min Bracket of ce072\_w2\_3\_3\_  
CE072\_w2\_3\_4\_ Total In\_kind Support from Siblings[4]  
CE072\_w2\_3\_4\_\_MAX Max Bracket of ce072\_w2\_3\_4\_  
CE072\_w2\_3\_4\_\_MIN Min Bracket of ce072\_w2\_3\_4\_  
CE072\_w2\_3\_5\_ Total In\_kind Support from Siblings[5]  
CE072\_w2\_3\_5\_\_MAX Max Bracket of ce072\_w2\_3\_5\_  
CE072\_w2\_3\_5\_\_MIN Min Bracket of ce072\_w2\_3\_5\_  
CE072\_w2\_3\_6\_ Total In\_kind Support from Siblings[6]  
CE072\_w2\_3\_6\_\_MAX Max Bracket of ce072\_w2\_3\_6\_  
CE072\_w2\_3\_6\_\_MIN Min Bracket of ce072\_w2\_3\_6\_  
CE072\_w2\_3\_7\_ Total In\_kind Support from Siblings[7]  
CE072\_w2\_3\_7\_\_MAX Max Bracket of ce072\_w2\_3\_7\_  
CE072\_w2\_3\_7\_\_MIN Min Bracket of ce072\_w2\_3\_7\_  
CE072\_w2\_3\_8\_ Total In\_kind Support from Siblings[8]  
CE072\_w2\_3\_8\_\_MAX Max Bracket of ce072\_w2\_3\_8\_  
CE072\_w2\_3\_8\_\_MIN Min Bracket of ce072\_w2\_3\_8\_  
CE072\_w2\_3\_9\_ Total In\_kind Support from Siblings[9]  
CE072\_w2\_3\_9\_\_MAX Max Bracket of ce072\_w2\_3\_9\_  
CE072\_w2\_3\_9\_\_MIN Min Bracket of ce072\_w2\_3\_9\_  
CE074\_w2\_1\_10\_ Total Money Support for Siblings[10]  
CE074\_w2\_1\_11\_ Total Money Support for Siblings[11]  
CE074\_w2\_1\_16\_ Total Money Support for Siblings[16]  
CE074\_w2\_1\_16\_\_MA Max Bracket of ce074\_w2\_1\_16\_  
CE074\_w2\_1\_16\_\_MI Min Bracket of ce074\_w2\_1\_16\_  
CE074\_w2\_1\_17\_ Total Money Support for Siblings[17]  
CE074\_w2\_1\_17\_\_MA Max Bracket of ce074\_w2\_1\_17\_  
CE074\_w2\_1\_17\_\_MI Min Bracket of ce074\_w2\_1\_17\_  
CE074\_w2\_1\_18\_ Total Money Support for Siblings[18]  
CE074\_w2\_1\_18\_\_MA Max Bracket of ce074\_w2\_1\_18\_  
CE074\_w2\_1\_18\_\_MI Min Bracket of ce074\_w2\_1\_18\_  
CE074\_w2\_1\_19\_ Total Money Support for Siblings[19]  
CE074\_w2\_1\_1\_ Total Money Support for Siblings[1]  
CE074\_w2\_1\_1\_\_MAX Max Bracket of ce074\_w2\_1\_1\_  
CE074\_w2\_1\_1\_\_MIN Min Bracket of ce074\_w2\_1\_1\_  
CE074\_w2\_1\_20\_ Total Money Support for Siblings[20]  
CE074\_w2\_1\_20\_\_MAX Max Bracket of ce074\_w2\_1\_20\_  
CE074\_w2\_1\_20\_\_MIN Min Bracket of ce074\_w2\_1\_20\_  
CE074\_w2\_1\_21\_ Total Money Support for Siblings[21]  
CE074\_w2\_1\_22\_ Total Money Support for Siblings[22]  
CE074\_w2\_1\_23\_ Total Money Support for Siblings[23]  
CE074\_w2\_1\_24\_ Total Money Support for Siblings[24]  
CE074\_w2\_1\_25\_ Total Money Support for Siblings[25]  
CE074\_w2\_1\_26\_ Total Money Support for Siblings[26]

CE074\_w2\_1\_27\_ Total Money Support for Siblings[27]  
CE074\_w2\_1\_2\_ Total Money Support for Siblings[2]  
CE074\_w2\_1\_2\_\_MAX Max Bracket of ce074\_w2\_1\_2\_  
CE074\_w2\_1\_2\_\_MIN Min Bracket of ce074\_w2\_1\_2\_  
CE074\_w2\_1\_3\_ Total Money Support for Siblings[3]  
CE074\_w2\_1\_3\_\_MAX Max Bracket of ce074\_w2\_1\_3\_  
CE074\_w2\_1\_3\_\_MIN Min Bracket of ce074\_w2\_1\_3\_  
CE074\_w2\_1\_4\_ Total Money Support for Siblings[4]  
CE074\_w2\_1\_4\_\_MAX Max Bracket of ce074\_w2\_1\_4\_  
CE074\_w2\_1\_4\_\_MIN Min Bracket of ce074\_w2\_1\_4\_  
CE074\_w2\_1\_5\_ Total Money Support for Siblings[5]  
CE074\_w2\_1\_5\_\_MAX Max Bracket of ce074\_w2\_1\_5\_  
CE074\_w2\_1\_5\_\_MIN Min Bracket of ce074\_w2\_1\_5\_  
CE074\_w2\_1\_6\_ Total Money Support for Siblings[6]  
CE074\_w2\_1\_6\_\_MAX Max Bracket of ce074\_w2\_1\_6\_  
CE074\_w2\_1\_6\_\_MIN Min Bracket of ce074\_w2\_1\_6\_  
CE074\_w2\_1\_7\_ Total Money Support for Siblings[7]  
CE074\_w2\_1\_7\_\_MAX Max Bracket of ce074\_w2\_1\_7\_  
CE074\_w2\_1\_7\_\_MIN Min Bracket of ce074\_w2\_1\_7\_  
CE074\_w2\_1\_8\_ Total Money Support for Siblings[8]  
CE074\_w2\_1\_9\_ Total Money Support for Siblings[9]  
CE074\_w2\_3\_10\_ Total In\_kind Support for Siblings[10]  
CE074\_w2\_3\_11\_ Total In\_kind Support for Siblings[11]  
CE074\_w2\_3\_16\_ Total In\_kind Support for Siblings[16]  
CE074\_w2\_3\_16\_\_MA Max Bracket of ce074\_w2\_3\_16\_  
CE074\_w2\_3\_16\_\_MI Min Bracket of ce074\_w2\_3\_16\_  
CE074\_w2\_3\_17\_ Total In\_kind Support for Siblings[17]  
CE074\_w2\_3\_17\_\_MA Max Bracket of ce074\_w2\_3\_17\_  
CE074\_w2\_3\_17\_\_MI Min Bracket of ce074\_w2\_3\_17\_  
CE074\_w2\_3\_18\_ Total In\_kind Support for Siblings[18]  
CE074\_w2\_3\_18\_\_MA Max Bracket of ce074\_w2\_3\_18\_  
CE074\_w2\_3\_18\_\_MI Min Bracket of ce074\_w2\_3\_18\_  
CE074\_w2\_3\_19\_ Total In\_kind Support for Siblings[19]  
CE074\_w2\_3\_1\_ Total In\_kind Support for Siblings[1]  
CE074\_w2\_3\_1\_\_MAX Max Bracket of ce074\_w2\_3\_1\_  
CE074\_w2\_3\_1\_\_MIN Min Bracket of ce074\_w2\_3\_1\_  
CE074\_w2\_3\_20\_ Total In\_kind Support for Siblings[20]  
CE074\_w2\_3\_20\_\_MAX Max Bracket of ce074\_w2\_3\_20\_  
CE074\_w2\_3\_20\_\_MIN Min Bracket of ce074\_w2\_3\_20\_  
CE074\_w2\_3\_21\_ Total In\_kind Support for Siblings[21]  
CE074\_w2\_3\_22\_ Total In\_kind Support for Siblings[22]  
CE074\_w2\_3\_23\_ Total In\_kind Support for Siblings[23]  
CE074\_w2\_3\_24\_ Total In\_kind Support for Siblings[24]  
CE074\_w2\_3\_25\_ Total In\_kind Support for Siblings[25]  
CE074\_w2\_3\_26\_ Total In\_kind Support for Siblings[26]  
CE074\_w2\_3\_27\_ Total In\_kind Support for Siblings[27]  
CE074\_w2\_3\_2\_ Total In\_kind Support for Siblings[2]  
CE074\_w2\_3\_2\_\_MAX Max Bracket of ce074\_w2\_3\_2\_  
CE074\_w2\_3\_2\_\_MIN Min Bracket of ce074\_w2\_3\_2\_  
CE074\_w2\_3\_3\_ Total In\_kind Support for Siblings[3]  
CE074\_w2\_3\_3\_\_MAX Max Bracket of ce074\_w2\_3\_3\_  
CE074\_w2\_3\_3\_\_MIN Min Bracket of ce074\_w2\_3\_3\_  
CE074\_w2\_3\_4\_ Total In\_kind Support for Siblings[4]  
CE074\_w2\_3\_4\_\_MAX Max Bracket of ce074\_w2\_3\_4\_  
CE074\_w2\_3\_4\_\_MIN Min Bracket of ce074\_w2\_3\_4\_  
CE074\_w2\_3\_5\_ Total In\_kind Support for Siblings[5]  
CE074\_w2\_3\_5\_\_MAX Max Bracket of ce074\_w2\_3\_5\_  
CE074\_w2\_3\_5\_\_MIN Min Bracket of ce074\_w2\_3\_5\_  
CE074\_w2\_3\_6\_ Total In\_kind Support for Siblings[6]  
CE074\_w2\_3\_6\_\_MAX Max Bracket of ce074\_w2\_3\_6\_  
CE074\_w2\_3\_6\_\_MIN Min Bracket of ce074\_w2\_3\_6\_  
CE074\_w2\_3\_7\_ Total In\_kind Support for Siblings[7]  
CE074\_w2\_3\_7\_\_MAX Max Bracket of ce074\_w2\_3\_7\_  
CE074\_w2\_3\_7\_\_MIN Min Bracket of ce074\_w2\_3\_7\_  
CE074\_w2\_3\_8\_ Total In\_kind Support for Siblings[8]  
CE074\_w2\_3\_9\_ Total In\_kind Support for Siblings[9]





## **Section H: Employment History**

<b>Currently Working</b>
--------------------------

Wave	Variable	Label	Type
1	R1WORK	r1work:w1 r currently working	Categ
2	R2WORK	r2work:w2 r currently working	Categ
3	R3WORK	r3work:w3 r currently working	Categ
4	R4WORK	r4work:w4 r currently working	Categ
1	S1WORK	s1work:w1 s currently working	Categ
2	S2WORK	s2work:w2 s currently working	Categ
3	S3WORK	s3work:w3 s currently working	Categ
4	S4WORK	s4work:w4 s currently working	Categ
1	R1WORK2	r1work2:w1 r works more than one job	Categ
2	R2WORK2	r2work2:w2 r works more than one job	Categ
3	R3WORK2	r3work2:w3 r works more than one job	Categ
4	R4WORK2	r4work2:w4 r works more than one job	Categ
1	S1WORK2	s1work2:w1 s works more than one job	Categ
2	S2WORK2	s2work2:w2 s works more than one job	Categ
3	S3WORK2	s3work2:w3 s works more than one job	Categ
4	S4WORK2	s4work2:w4 s works more than one job	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORK	17257	0.63	0.48	0.00	1.00
R2WORK	18074	0.66	0.48	0.00	1.00
R3WORK	20470	0.67	0.47	0.00	1.00
R4WORK	19718	0.64	0.48	0.00	1.00
S1WORK	14645	0.67	0.47	0.00	1.00
S2WORK	15255	0.69	0.46	0.00	1.00
S3WORK	17330	0.70	0.46	0.00	1.00
S4WORK	16343	0.68	0.47	0.00	1.00
R1WORK2	10877	0.02	0.13	0.00	1.00
R2WORK2	11863	0.02	0.13	0.00	1.00
R3WORK2	13676	0.03	0.17	0.00	1.00
R4WORK2	12570	0.04	0.19	0.00	1.00
S1WORK2	9803	0.02	0.13	0.00	1.00
S2WORK2	10563	0.02	0.13	0.00	1.00
S3WORK2	12235	0.03	0.17	0.00	1.00
S4WORK2	11133	0.04	0.19	0.00	1.00

### Categorical Variable Codes

Value	R1WORK	R2WORK	R3WORK	R4WORK
.d:dk	37			
.m:missing	411	539	627	98
.r:refuse	3			
0.no	6394	6223	6823	7148
1.yes	10863	11851	13647	12570
Value	S1WORK	S2WORK	S3WORK	S4WORK
.d:dk	30			
.m:missing	233	325	394	19
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	4853	4701	5122	5210
1.yes	9792	10554	12208	11133

Value-----	R1WORK2	R2WORK2	R3WORK2	R4WORK2
.m:missing	451	538	624	98
.w:not working	6380	6212	6797	7148
0.no	10693	11663	13282	12117
1.yes	184	200	394	453
Value-----	S1WORK2	S2WORK2	S3WORK2	S4WORK2
.m:missing	265	325	392	19
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:not working	4842	4692	5097	5210
0.no	9645	10379	11877	10704
1.yes	158	184	358	429

### How Constructed:

RwWORK indicates whether the respondent engaged in any work in the past year. RwWORK is derived from the labor force status variable. RwWORK is assigned 0 if the respondent is unemployed, retired, or never worked per their labor force status. RwWORK is assigned 1 if the respondent reports engaging in agricultural work, non-agricultural employed work, non-agricultural self-employed work, or non-agricultural unpaid family business work per their labor force status.

RwWORK2 indicates whether the respondent is currently working more than one job. RwWORK2 is assigned 0 if the respondent reports they do not hold more than job, excluding their main job. RwWORK2 is assigned 1 if the respondent reports they hold 1 or more jobs, excluding their main job. Special missing code (.w) is assigned if the respondents is not currently working.

Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwWORK and RwWORK2 are coded as blank missing (.) if the respondent did not respond to this wave.

SwWORK indicates whether the respondent's spouse engages in any work in the past year. SwWORK2 indicates whether the respondent's spouse is currently working more than one job. SwWORK and SwWORK2 are taken from the spouse's values of RwWORK and RwWORK2, respectively. In addition to the special missing values used in RwWORK and RwWORK2, SwWORK and SwWORK2 employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

RwWORK is derived from RwLBRF\_C. RwLBRF\_C differs between waves. Please refer to RwLBRF\_C for the differences between waves of this harmonized variable.

At Waves 1 to 3, CHARLS asks respondents whether they hold more than one non-agricultural job, besides agricultural work. For respondents who report holding more than one non-agricultural job, CHARLS asks how many jobs they currently hold, excluding their main job.

Starting at Wave 4, CHARLS asks respondents who report engaging in agricultural employed and agricultural self-employed work, but not non-agricultural work, whether they hold more than one paid agricultural job, excluding agricultural work for their own household. CHARLS asks respondents who report engaging in agricultural self-employed and non-agricultural work, but non-agricultural employed work, whether they hold more than one non-agricultural job, excluding agricultural work for their own household. CHARLS asks respondents who report engaging in agricultural employed work, but not agricultural self-employed work or non-agricultural work, whether they are engaged on more than one paid agricultural job. CHARLS asks respondents who report engaging in non-agricultural work, but not agricultural employed or agricultural self-employed work, whether they are engaged on more than one non-agricultural job. For respondents who report holding more than one agricultural or non-agricultural job, CHARLS asks how many jobs they currently hold, excluding their main job and household agricultural work.

### Differences with the RAND HRS/Harmonized HRS

The HRS asks respondents "are you doing any work for pay at the present time". Thus, the RAND HRS assign a code of 1 for RwWORK if the respondent reports they are currently working for pay and a code of 0 if the respondent reports they are not currently working for pay. The time span of the CHARLS is specific to the last year rather than the present time.

Also different from RwwORK in the RAND HRS is that the Harmonized CHARLS indicates not only paid work, but also unpaid family business. Additionally, in the CHARLS, respondents are asked if they engage in agricultural or non-agricultural work.

### CHARLS Variables Used:

#### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC019	DO YOU CURRENTLY HAVE MORE THAN ONE JOB
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FJ001	HOW MANY JOBS DO YOU CURRENTLY HAVE EXCLUDING THE MAIN JOB
FK002	search for a new job

#### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FJ001	How Many Side Jobs
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

#### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC019	More than One Non-Agricultural Job
FC020	Main Job
FC021	Type of Non-Agricultural Job
FJ001	How Many Side Jobs
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

#### Wave 4:

FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_B	More than One Employed Agricultural Job or Not
FC019_W4_C	More than One Non-Agricultural Job or Not

---

FC019_W4_E	More than One Employed Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FJ001_W4	Number of Side Jobs
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

<b>Whether Self-Employed (non-agricultural)</b>
---

Wave	Variable	Label	Type
1	R1SLFEMP	r1slfemp:w1 r whether self-employed (non-agricultural)	Categ
2	R2SLFEMP	r2slfemp:w2 r whether self-employed (non-agricultural)	Categ
3	R3SLFEMP	r3slfemp:w3 r whether self-employed (non-agricultural)	Categ
4	R4SLFEMP	r4slfemp:w4 r whether self-employed (non-agricultural)	Categ
1	S1SLFEMP	s1slfemp:w1 s whether self-employed (non-agricultural)	Categ
2	S2SLFEMP	s2slfemp:w2 s whether self-employed (non-agricultural)	Categ
3	S3SLFEMP	s3slfemp:w3 s whether self-employed (non-agricultural)	Categ
4	S4SLFEMP	s4slfemp:w4 s whether self-employed (non-agricultural)	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SLFEMP	17257	0.07	0.25	0.00	1.00
R2SLFEMP	18074	0.07	0.26	0.00	1.00
R3SLFEMP	20470	0.08	0.26	0.00	1.00
R4SLFEMP	19718	0.07	0.25	0.00	1.00
S1SLFEMP	14645	0.07	0.26	0.00	1.00
S2SLFEMP	15255	0.08	0.27	0.00	1.00
S3SLFEMP	17330	0.08	0.27	0.00	1.00
S4SLFEMP	16343	0.07	0.26	0.00	1.00

### Categorical Variable Codes

Value-----	R1SLFEMP	R2SLFEMP	R3SLFEMP	R4SLFEMP
.d:dk	37			
.m:missing	411	539	627	98
.r:refuse	3			
0.not self-employed	16116	16747	18917	18393
1.self-employed	1141	1327	1553	1325

  

Value-----	S1SLFEMP	S2SLFEMP	S3SLFEMP	S4SLFEMP
.d:dk	30			
.m:missing	233	325	394	19
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.no	13618	14057	15914	15125
1.yes	1027	1198	1416	1218

### How Constructed:

RwSLFEMP indicates whether the respondent is self-employed. RwSLFEMP is derived from the labor force status variable. RwSLFEMP is assigned 0 if the respondent reports engaging in agricultural work, non-agricultural employed work, or non-agricultural unpaid family business work, or if the respondent is unemployed, retired, or never worked per their labor force status. RwSLFEMP is assigned 1 if the respondent reports engaging in non-agricultural self-employed work per their labor force status. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwSLFEMP is coded as blank missing (.) if the respondent did not respond to this wave.

SwSLFEMP indicates whether the respondent's spouse is self-employed. SwSLFEMP is taken from the spouse's value of RwSLFEMP. In addition to the special missing values used in RwSLFEMP, SwSLFEMP employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

RwSLFEMP is derived from RwLBRF\_C. RwLBRF\_C differs between waves. Please refer to RwLBRF\_C for the differences between waves of this harmonized variable.

### Differences with the RAND HRS/Harmonized HRS

In the HRS, there is a direct question asking about self-employment: "do you work for someone else, are you self-employed, or what?" In the CHARLS, self-employment is determined by respondents reporting their main job is self-employment or if the respondent describes their non-agricultural job as self-employment.

### CHARLS Variables Used:

#### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FK002	search for a new job

#### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

#### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

#### Wave 4:

FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not

---

FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work



<b>Work Status</b>
--------------------

Wave	Variable	Label	Type
1	R1LBRF_C	r1lbrf_c:w1 r labor force status	Categ
2	R2LBRF_C	r2lbrf_c:w2 r labor force status	Categ
3	R3LBRF_C	r3lbrf_c:w3 r labor force status	Categ
4	R4LBRF_C	r4lbrf_c:w4 r labor force status	Categ
1	S1LBRF_C	s1lbrf_c:w1 s labor force status	Categ
2	S2LBRF_C	s2lbrf_c:w2 s labor force status	Categ
3	S3LBRF_C	s3lbrf_c:w3 s labor force status	Categ
4	S4LBRF_C	s4lbrf_c:w4 s labor force status	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LBRF_C	17257	4.20	2.29	1.00	8.00
R2LBRF_C	18074	4.09	2.25	1.00	8.00
R3LBRF_C	20470	4.10	2.21	1.00	8.00
R4LBRF_C	19718	4.17	2.25	1.00	8.00
S1LBRF_C	14645	4.02	2.24	1.00	8.00
S2LBRF_C	15255	3.93	2.20	1.00	8.00
S3LBRF_C	17330	3.94	2.15	1.00	8.00
S4LBRF_C	16343	3.99	2.19	1.00	8.00

### Categorical Variable Codes

Value-----	R1LBRF_C	R2LBRF_C	R3LBRF_C	R4LBRF_C
.d:dk	37			
.m:missing	411	539	627	98
.r:refuse	3			
1.Agric employed	465	552	653	665
2.Agric self-employed	5904	6422	6336	6138
3.Non-agric employed	3069	3152	4575	4178
4.Non-agric self-employed	1141	1327	1553	1325
5.Non-agric family business	284	398	530	264
6.Unemployed	55	56	77	87
7.Retired	5982	5903	6376	6806
8.Never work	357	264	370	255

Value-----	S1LBRF_C	S2LBRF_C	S3LBRF_C	S4LBRF_C
.d:dk	30			
.m:missing	233	325	394	19
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Agric employed	425	495	596	596
2.Agric self-employed	5288	5663	5557	5294
3.Non-agric employed	2805	2854	4165	3789
4.Non-agric self-employed	1027	1198	1416	1218
5.Non-agric family business	247	344	474	236
6.Unemployed	50	48	68	71
7.Retired	4538	4468	4786	4967
8.Never work	265	185	268	172

### How Constructed:

CHARLS asks each respondent a series of questions to determine their work status. Though these questions have changed over the different waves of CHARLS, they generally differentiate between agricultural work for your own household, agricultural work for other farmers, non-agricultural work for a wage, self-employed non-agricultural work, and unpaid work for a non-agricultural family business. Respondents in CHARLS can report participating in multiple types of work.

RwLBRF\_C summarizes the labor force status for the respondent as being: 1. agricultural employed, 2. agricultural self-employed, 3. non-agricultural employed, 4. non-agricultural self-employed, 5. non-agricultural unpaid family business, 6. unemployed, 7. retired, and 8. never worked. If the respondent reports engaging in two employment activities during the past year, preference is given to non-agricultural work and to work for wages.

RwLBRF\_C is assigned 1 if the respondent reports working for other farmers for wage for at least ten days in the past year. RwLBRF\_C is assigned 2 if the respondent reports working for their own household for at least ten days in the past year. RwLBRF\_C is assigned 3 if the respondent reports their main job is employment or if they describe their non-agricultural job as employment. RwLBRF\_C is assigned 4 if the respondent reports their main job is self-employment or if they describe their non-agricultural job as self-employment. RwLBRF\_C is assigned 5 if the respondent reports their main job is unpaid family business or they describe their non-agricultural job as unpaid family business. RwLBRF\_C is assigned 6 if the respondent reports not currently engaging in agricultural or non-agricultural work but has worked for at least three months during their lifetime and has searched for a job in the past month. RwLBRF\_C is assigned 7 if the respondent is not currently engaged in agricultural or non-agricultural work but has worked for at least three months during their lifetime and has not searched for a job during the past month. In addition, at Waves 1 to 3, RwLBRF\_C is assigned 7 if the respondent reports engaging agricultural work for more than 10 days in the past year, but reports not working for other farmers in wage for at least 10 days in the past year, not working for their own household for at least 10 days in the past year, and not engaging in non-agricultural work. RwLBRF\_C is assigned 8 if the respondent reports having never worked for at least three months during their lifetime (including agricultural and non-agricultural work, regardless if earned wages or not, but excluding housework). Don't know, refused, and missing are assigned special missing values (.d), (.r), and (.m), respectively. RwLBRF\_C is coded as blank missing (.) if the respondent did not respond to this wave.

SwLBRF\_C summarizes the labor force status for the respondent's spouse. SwLBRF\_C is taken from the spouse's value of RwLBRF\_C. In addition to the special missing values used in RwLBRF\_C, SwLBRF\_C employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 to 3, CHARLS asks respondents whether they engaged in agricultural work for more than 10 days in the past year. If the respondent reports engaging in agricultural work for more than 10 days in the past year, respondents are then asked whether they engaged in agricultural work for other farmers for at least 10 days in the past year and whether they engaged in agricultural work for their own household for at least 10 days in the past year. Starting at Wave 4, CHARLS no longer asks respondents whether they engaged in agricultural work for more than 10 days in the past year. Respondents are still asked whether they engaged in agricultural work for other farmers for at least 10 days in the past year and whether they engaged in agricultural work for their own household for at least 10 days in the past year.

At Waves 1 to 3, CHARLS asks respondents who report engaging in agricultural work for more than 10 days in the past year and/or working for at least one hour last week whether they hold more than one non-agricultural job. If the respondent reports not holding more than one non-agricultural job, the respondent is then asked if they would describe their non-agricultural job as "employed", "self-employed", or "unpaid family business". If the respondent reports holding more than one non-agricultural job, the respondent is then asked if their main job is "employed", "self-employed", or "unpaid family business".

Starting at Wave 4, CHARLS asks different questions to different groups of respondents. CHARLS classifies respondents as "agricultural self-employed" if they report engaging in agricultural work for at least 10 days in the past year for their own household. CHARLS classifies respondents as "agricultural employed" if they report working for other farmers for a wage for at least 10 days in the past year. CHARLS classified respondents as "non-agricultural work" if they report working for at least one hour in the previous week. Respondents are also classified as "non-agricultural work" if they report having a job but being on vacation, on sick or other leave, or in job training and they either expect to go back to this job at a definite time in the future or within 6 months or they are still receiving salary or income from this work.

Starting at Wave 4, CHARLS asks the following questions these respondents:

1. Respondents classified as "engaged in agricultural employed, agricultural self-employed, and non-agricultural work" are asked whether their main job, except agricultural work for their own household, is "non-agricultural employed", "non-agricultural self-employed", "unpaid help for family business", or "agricultural employed".

2. Respondents classified as "engaged in agricultural employed, agricultural self-employed, but not non-agricultural work" are asked whether they are engaged in more than one paid agricultural job, except agricultural work for their own household.

3. Respondents classified as "engaged in agricultural self-employed, non-agricultural work, but not agricultural employed" are asked whether they are engaged in more than one non-agricultural job, except agricultural work for their own household. If the respondent reports not holding more than one non-agricultural job, the respondent is then asked if they would describe their current job as "non-agricultural employed", "non-agricultural self-employed", or "unpaid help for family business". If the respondent reports holding more than one non-agricultural job, the respondent is then asked if their main job is "non-agricultural employed", "non-agricultural self-employed", or "unpaid help for family business".

4. Respondents classified as "engaged in agricultural employed, non-agricultural work, but not agricultural self-employed" are asked whether their main job is "non-agricultural employed", "non-agricultural self-employed", "unpaid help for family business", or "agricultural employed".

5. Respondents classified as "engaged in agricultural employed, but not agricultural self-employed and non-agricultural work" are asked whether they are engaged in more than one paid agricultural job.

6. Respondents classified as "non-agricultural work, but not agricultural self-employed and agricultural employed" are asked whether they are engaged in more than one non-agricultural job. If the respondent reports not holding more than one non-agricultural job, the respondent is then asked if they would describe their current job as "non-agricultural employed", "non-agricultural self-employed", or "unpaid help for family business". If the respondent reports holding more than one non-agricultural job, the respondent is then asked if their main job is "non-agricultural employed", "non-agricultural self-employed", or "unpaid help for family business".

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the CHARLS use different categories to classify the labor force such as different kinds of agricultural work and working unpaid for a family business. Because of these differences and others, RwLBRF\_C in the Harmonized CHARLS uses a different categorization than RwLBRF in the RAND HRS. One significant difference is that CHARLS does not ask respondents specifically whether they are retired. As a result, RwLBRF\_C in the Harmonized CHARLS considers respondents as retired if they are not currently engaged in agricultural or non-agricultural work, has worked at some point in their lifetime, but has not searched for a job during the last month. Retirement status in RwLBRF in the RAND HRS is based on a respondent's report of being retired.

## CHARLS Variables Used:

### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other farmers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FK002	search for a new job

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_w2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months

FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 3:	
FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 4:	
FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

<b>Hours of work per week at current job</b>
--

Wave	Variable	Label	Type
1	R1JHOURS_C	r1jhours_c:w1 r total hours worked per week on main job	Cont
2	R2JHOURS_C	r2jhours_c:w2 r total hours worked per week on main job	Cont
3	R3JHOURS_C	r3jhours_c:w3 r total hours worked per week on main job	Cont
4	R4JHOURS_C	r4jhours_c:w4 r total hours worked per week on main job	Cont
1	S1JHOURS_C	s1jhours_c:w1 s total hours worked per week on main job	Cont
2	S2JHOURS_C	s2jhours_c:w2 s total hours worked per week on main job	Cont
3	S3JHOURS_C	s3jhours_c:w3 s total hours worked per week on main job	Cont
4	S4JHOURS_C	s4jhours_c:w4 s total hours worked per week on main job	Cont
1	R1JHOUR2	r1jhour2:w1 r hours worked/week on other jobs	Cont
2	R2JHOUR2	r2jhour2:w2 r hours worked/week on other jobs	Cont
3	R3JHOUR2	r3jhour2:w3 r hours worked/week on other jobs	Cont
4	R4JHOUR2	r4jhour2:w4 r hours worked/week on other jobs	Cont
1	S1JHOUR2	s1jhour2:w1 s hours worked/week on other jobs	Cont
2	S2JHOUR2	s2jhour2:w2 s hours worked/week on other jobs	Cont
3	S3JHOUR2	s3jhour2:w3 s hours worked/week on other jobs	Cont
4	S4JHOUR2	s4jhour2:w4 s hours worked/week on other jobs	Cont
1	R1JHOURTOT	r1jhourtot:w1 r total hours worked/week	Cont
2	R2JHOURTOT	r2jhourtot:w2 r total hours worked/week	Cont
3	R3JHOURTOT	r3jhourtot:w3 r total hours worked/week	Cont
4	R4JHOURTOT	r4jhourtot:w4 r total hours worked/week	Cont
1	S1JHOURTOT	s1jhourtot:w1 s total hours worked/week	Cont
2	S2JHOURTOT	s2jhourtot:w2 s total hours worked/week	Cont
3	S3JHOURTOT	s3jhourtot:w3 s total hours worked/week	Cont
4	S4JHOURTOT	s4jhourtot:w4 s total hours worked/week	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JHOURS_C	10562	46.19	23.36	0.00	168.00
R2JHOURS_C	11522	43.59	24.71	0.00	140.00
R3JHOURS_C	12919	43.30	25.16	0.00	168.00
R4JHOURS_C	12328	41.44	26.08	0.04	168.00
S1JHOURS_C	9513	46.77	23.13	0.00	168.00
S2JHOURS_C	10259	44.33	24.61	0.00	140.00
S3JHOURS_C	11583	43.84	25.03	0.00	168.00
S4JHOURS_C	10935	42.17	25.87	0.04	168.00
R1JHOUR2	144	11.91	18.68	0.00	105.00
R2JHOUR2	188	8.96	16.68	0.00	105.00
R3JHOUR2	364	9.57	19.17	0.00	144.00
R4JHOUR2	453	25.54	25.36	0.00	100.00
S1JHOUR2	124	11.56	17.90	0.00	105.00
S2JHOUR2	173	9.15	16.57	0.00	105.00
S3JHOUR2	330	9.51	19.34	0.00	144.00
S4JHOUR2	429	25.82	25.43	0.00	100.00
R1JHOURTOT	10568	46.32	23.54	0.00	168.00
R2JHOURTOT	11528	43.71	24.84	0.00	161.00
R3JHOURTOT	12934	43.52	25.54	0.00	312.00
R4JHOURTOT	12345	42.32	27.25	0.00	196.00
S1JHOURTOT	9519	46.89	23.28	0.00	168.00
S2JHOURTOT	10264	44.47	24.74	0.00	161.00
S3JHOURTOT	11597	44.06	25.40	0.00	312.00
S4JHOURTOT	10950	43.12	27.11	0.04	196.00

## How Constructed:

RwJHOURS\_C indicates the number of hours per week the respondent worked at their main job in the past year. CHARLS allows respondents to report engaging in multiple types of work (e.g. being employed and working in an unpaid family business). For each type of work the respondent reports engaging in, CHARLS asks about both the number of days worked per week on average in the past year and the number of hours worked per day on average in the past year. RwJHOURS\_C is derived by multiplying the number of days worked per week by the number of hours worked per day, so that RwJHOURS\_C is expressed as number of hours per week. In cases where respondents report working more than 7 days per week, RwJHOURS\_C is calculated as number of hours worked per day multiplied by 7 days per week. If the respondent reports engaging in agricultural work per their labor force status, RwJHOURS\_C is based on the number of hours per week the respondent spent engaging in agricultural work for their own household or agricultural work for other farmers, whichever is greater. If the respondent reports engaging in non-agricultural employed work per their labor force status, RwJHOURS\_C is based on the number of hours per week the respondent spent engaging in non-agricultural employed work. If the respondent reports engaging in non-agricultural self-employed work or non-agricultural unpaid family business work per their labor force status, RwJHOURS\_C is based on the number of hours per week the respondent spent engaging in non-agricultural self-employed work or non-agricultural unpaid family business work. Special missing value (.w) is assigned if the respondent is not currently working.

Starting at Wave 3, CHARLS no longer asks respondents to report either the number of days per week or the number of hours per day spent engaging in agricultural work for other farmers in the past year. As such, starting at Wave 3, if the respondent reports engaging in agricultural work per their labor force status, RwJHOURS\_C is based on the number of hours per week the respondent spent engaging in agricultural work for their own household.

RwJHOUR2 indicates the number of hours per week the respondent worked at other jobs (side jobs) in the past year. In cases where respondents report working more than 168 hours per week, RwJHOUR2 is top-coded at 168 hours. Special missing value (.w) is assigned if the respondent is not currently working more than one job.

RwJHOURTOT indicates the total number of hours per week the respondent worked at their main job and other jobs (side jobs) in the past year. RwJHOURTOT sums the number of hours per week the respondent worked at their main job and the number of hours per week the respondent worked at other jobs (side jobs), and as such, the total number of hours may exceed 168. RwJHOURTOT is calculated as long as there is a value for at least one of the components. Special missing value (.w) is assigned if the respondent is not currently working.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwJHOURS\_C, RwJHOUR2, and RwJHOURTOT are coded as blank missing (.) if the respondent did not respond to this wave.

SwJHOURS\_C indicates the number of hours per week the respondent's spouse worked at their main job in the past year. SwJHOUR2 indicates the number of hours per week the respondent's spouse worked at other jobs (side jobs) in the past year. SwJHOURTOT indicates the total number of hours per week the respondent's spouse worked at their main job and other jobs (side jobs) in the past year. SwJHOURS\_C, SwJHOUR2, and SwJHOURTOT are taken from the spouse's values of RwJHOURS\_C, RwJHOUR2, and RwJHOURTOT, respectively. In addition to the special missing values used in RwJHOURS\_C, RwJHOUR2, and RwJHOURTOT, SwJHOURS\_C, SwJHOUR2, and SwJHOURTOT employ two additional special missing codes. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

CHARLS allows respondents to report engaging in multiple types of work (e.g. being employed and working in an unpaid family business). For each type of work the respondent reports engaging in, CHARLS asks about both the number of days worked per week on average in the past year and the number of hours worked per day on average in the past year.

At Waves 1 and 2, CHARLS asks respondents to report the number of days per week and the number of hours per day spent engaging in agricultural work for other farmers in the past year. Starting at Wave 3, CHARLS no longer asks respondents to report either the number of days per week or the number of hours per day spent engaging in agricultural work for other farmers in the past year.

## Differences with the RAND HRS/Harmonized HRS

In the HRS, a respondent reports the average number of working hours a week at their main job. Unlike the HRS, the CHARLS asks the number of hours separately for working as an employee, working as self-employed, working for other farmers (wave 1 and 2 only), and working at one's own farm. RwjHOURS\_C is the number of hours worked per week at the main job as identified in RwlBRF\_C.

### CHARLS Variables Used:

#### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC004	How many months did you work on [;] in wage for other famers i
FC005	How many months did you work on [;] in wage for other famers i
FC006	How many months did you work on [;] in wage for other famers i
FC008	Did you work for your own household for at least ten days in th
FC009	THE NUMBER OF MONTHS WORKING ON AGRICULTURE PER YEAR
FC010	THE NUMBER OF DAYS WORKING ON AGRICULTURE PER WEEK
FC011	THE NUMBER OF HOURS WORKING PER DAY
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FE001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FE002	HOW MANY DAYS A WEEK DO YOU USUALLY WORK
FE003	HOW MANY HOURS DO YOU USUALLY WORK PER DAY
FH001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FH002	HOW MANY DAYS DO YOU USUALLY WORK PER month
FH003	HOW MANY HOURS DO YOU USUALLY WORK PER day
FJ002	HOW MANY HOURS A WEEK DO YOU WORK ON AVERAGE AT YOUR SIDE JOB
FK002	search for a new job

#### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_w2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC004	How Many Months Did You Work for Other Farmers
FC005	How Many Days Did You Work for Other Farmers per Week
FC006	How Many Hours Did You Work for Other Farmers per Day
FC008	Any Work for Own Household
FC009	How Many Months Did You Work for Own Household
FC010	How Many Days Did You Work for Own Household per Week
FC011	How Many Hours Did You Work for Own Household per Day
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in the Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FH001	How Many Months Did You Work in the Past Year
FH002	How Many Days Did You Work per Week
FH003	How Many Hours Did You Work per Day
FJ002	How Many Hours Do You Work per Week
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

#### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave

FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC009	Months for Household Agricultural Work
FC010	Days for Household Agricultural Work
FC011	Hours for Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in The Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FH001	How Many Months Did You Work in The Past Year
FH002	How Many Days Did You Work per Week
FH003	How Many Hours Did You Work per Day
FJ002	How Many Hours Do You Work per Week
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 4:	
FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC009	Months for Household Agricultural Work
FC010	Days for Household Agricultural Work
FC011	Hours for Household Agricultural Work
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FE001	How Many Months Did You Work in The Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FH001	How Many Months Did You Work in The Past Year
FH002	How Many Days Did You Work per Week
FH003	How Many Hours Did You Work per Day
FJ002_W4	Working Hours on Side Jobs per Week
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work



**Weeks worked per year at main job**

Wave	Variable	Label	Type
1	R1JWEEKS_C	r1jweeks_c:w1 r weeks worked per year on main job	Cont
2	R2JWEEKS_C	r2jweeks_c:w2 r weeks worked per year on main job	Cont
3	R3JWEEKS_C	r3jweeks_c:w3 r weeks worked per year on main job	Cont
4	R4JWEEKS_C	r4jweeks_c:w4 r weeks worked per year on main job	Cont
1	S1JWEEKS_C	s1jweeks_c:w1 s weeks worked per year on main job	Cont
2	S2JWEEKS_C	s2jweeks_c:w2 s weeks worked per year on main job	Cont
3	S3JWEEKS_C	s3jweeks_c:w3 s weeks worked per year on main job	Cont
4	S4JWEEKS_C	s4jweeks_c:w4 s weeks worked per year on main job	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JWEEKS_C	10693	34.30	17.62	0.00	52.14
R2JWEEKS_C	11708	34.61	18.22	0.00	52.14
R3JWEEKS_C	13300	33.76	18.04	0.00	52.14
R4JWEEKS_C	12468	32.83	18.58	0.00	52.14
S1JWEEKS_C	9637	34.47	17.54	0.00	52.14
S2JWEEKS_C	10428	34.68	18.14	0.00	52.14
S3JWEEKS_C	11919	33.75	17.98	0.00	52.14
S4JWEEKS_C	11050	33.04	18.49	0.00	52.14

**How Constructed:**

RwJWEEKS\_C indicates the number of weeks the respondent worked at their main job in the past year. CHARLS allows respondents to report engaging in multiple types of work (e.g. being employed and working in an unpaid family business). For each type of work the respondent reports engaging in, CHARLS asks about the number of months worked in the past year. RwJWEEKS\_C is derived by multiplying the number of months by 4.345, so that RwJWEEKS\_C is expressed in number of weeks. If the respondent reports engaging in agricultural work per their labor force status, RwJWEEKS\_C is based on the number of weeks the respondent spent engaging in agricultural work for their own household or agricultural work for other farmers, whichever is greater. If the respondent reports engaging in non-agricultural employed work per their labor force status, RwJWEEKS\_C is based on the number of weeks the respondent spent engaging in non-agricultural employed work. If the respondent reports engaging in non-agricultural self-employed work or non-agricultural unpaid family business work per their labor force status, RwJWEEKS\_C is based on the number of weeks the respondent spent engaging in non-agricultural self-employed work or non-agricultural unpaid family business work. Special missing value (.w) is assigned if the respondent is not currently working. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwJWEEKS\_C is coded as blank missing (.) if the respondent did not respond to this wave.

Starting at Wave 3, CHARLS no longer asks respondents to report the number of months spent engaging in agricultural work for other farmers in the past year. As such, starting at Wave 3, if the respondent reports engaging in agricultural work per their labor force status, RwJWEEKS\_C is based on the number of weeks the respondent spent engaging in agricultural work for their own household.

SwJWEEKS\_C indicates the number of weeks the respondent's spouse worked at their main job in the past year. SwJWEEKS\_C is taken from the spouse's values of RwJWEEKS\_C. In addition to the special missing values used in RwJWEEKS\_C, SwJWEEKS\_C employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

**Cross Wave Differences in CHARLS**

CHARLS allows respondents to report engaging in multiple types of work (e.g. being employed and working in an unpaid family business). For each type of work the respondent reports engaging in, CHARLS asks about the number of months worked in the past year.

At Waves 1 and 2, CHARLS asks respondents to report the number of months spent engaging in agricultural work for other farmers in the past year. Starting at Wave 3, CHARLS no longer asks respondents to report the number of months spent engaging in agricultural work for other farmers in the past year.

### Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents report the average number of working weeks per year at their main job. Unlike the HRS, the CHARLS asks the number of hours separately for working as an employee, working as self-employed, working for other farmers (wave 1 and 2 only), and working at one's own farm. `RwJWEEKS_C` is the number of weeks worked per year at the main job as identified in `RwLBRF_C`. Also different from `RwJWEEKS` in the RAND HRS, `RwJWEEKS_C` is calculated using the number of months times 4.33 so that `RwJWEEKS_C` is expressed in number of weeks.

### CHARLS Variables Used:

#### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC004	How many months did you work on [;] in wage for other famers i
FC005	How many months did you work on [;] in wage for other famers i
FC006	How many months did you work on [;] in wage for other famers i
FC008	Did you work for your own household for at least ten days in th
FC009	THE NUMBER OF MONTHS WORKING ON AGRICULTURE PER YEAR
FC010	THE NUMBER OF DAYS WORKING ON AGRICULTURE PER WEEK
FC011	THE NUMBER OF HOURS WORKING PER DAY
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FE001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FE002	HOW MANY DAYS A WEEK DO YOU USUALLY WORK
FE003	HOW MANY HOURS DO YOU USUALLY WORK PER DAY
FH001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
FH002	HOW MANY DAYS DO YOU USUALLY WORK PER month
FH003	HOW MANY HOURS DO YOU USUALLY WORK PER day
FK002	search for a new job

#### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_w2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC004	How Many Months Did You Work for Other Farmers
FC005	How Many Days Did You Work for Other Farmers per Week
FC006	How Many Hours Did You Work for Other Farmers per Day
FC008	Any Work for Own Household
FC009	How Many Months Did You Work for Own Household
FC010	How Many Days Did You Work for Own Household per Week
FC011	How Many Hours Did You Work for Own Household per Day
FC020	Main Job
FC021	Type of Non-Agricultural Job
FE001	How Many Months Did You Work in the Past Year
FE002	How Many Days Did You Work per Week
FE003	How Many Hours Did You Work per Day
FH001	How Many Months Did You Work in the Past Year
FH002	How Many Days Did You Work per Week
FH003	How Many Hours Did You Work per Day
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW

ZF14 Preload Working Status in LastIW

Wave 3:

FA001 Engage in Agricultural Work for More Than 10 Days

FA002 Work for at Least One Hour Last Month

FA003 Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave

FA005 Do You Expect to Go Back to This Job

FA006 Do You Receive Any Salary from This Job

FA007 Ever Work 3 Months

FA008 Never Work 3 Months

FC001 Do Farm Employed

FC008 Do Household Agricultural Work

FC009 Months for Household Agricultural Work

FC010 Days for Household Agricultural Work

FC011 Hours for Household Agricultural Work

FC020 Main Job

FC021 Type of Non-Agricultural Job

FE001 How Many Months Did You Work in The Past Year

FE002 How Many Days Did You Work per Week

FE003 How Many Hours Did You Work per Day

FH001 How Many Months Did You Work in The Past Year

FH002 How Many Days Did You Work per Week

FH003 How Many Hours Did You Work per Day

FK002 Did You Search for a Job Last Month

ZF13 Working in LastIW

ZF14 Preload Working Status in LastIW

Wave 4:

FA002\_W4 Nonfarm Work (for at Least One Hour Last Month) or Not

FA003 Temporarily Laid off, on Sick or Other Leave, On-the-job Traini

FA005 Expect to Return to the Job or Not

FA006 Still Get Paid on the Job or Not

FA007 Ever Worked for Three Months or Not

FA008 Never Worked for Three Months or Not

FC001 Farm Employed or Not

FC008 Self-Employed (Household) Farm Work (for at Least One Month Las

FC009 Months for Household Agricultural Work

FC010 Days for Household Agricultural Work

FC011 Hours for Household Agricultural Work

FC019\_W4\_C More than One Non-Agricultural Job or Not

FC019\_W4\_F More than One Non-Agricultural Job or Not

FC020\_W4\_A Main Job Employed or Self Employed

FC020\_W4\_C Main Job Employed or Self Employed

FC020\_W4\_D Main Job Employed or Self Employed

FC020\_W4\_F Main Job Employed or Self Employed

FC021\_W4\_C The Job Being Employed or Self-Employed

FC021\_W4\_F The Job Being Employed or Self-Employed

FE001 How Many Months Did You Work in The Past Year

FE002 How Many Days Did You Work per Week

FE003 How Many Hours Did You Work per Day

FH001 How Many Months Did You Work in The Past Year

FH002 How Many Days Did You Work per Week

FH003 How Many Hours Did You Work per Day

FK002 Did You Search for a Job Last Month

ZF1 (Preloaded from the LastIW) Ever Worked, but Currently Not Work

## Whether Employed by Government

Wave	Variable	Label	Type
1	R1JGOVTEMP	r1jgovtemp: w1 r employed by government	Categ
2	R2JGOVTEMP	r2jgovtemp: w2 r employed by government	Categ
3	R3JGOVTEMP	r3jgovtemp: w3 r employed by government	Categ
4	R4JGOVTEMP	r4jgovtemp: w4 r employed by government	Categ
1	S1JGOVTEMP	s1jgovtemp: w1 s employed by government	Categ
2	S2JGOVTEMP	s2jgovtemp: w2 s employed by government	Categ
3	S3JGOVTEMP	s3jgovtemp: w3 s employed by government	Categ
4	S4JGOVTEMP	s4jgovtemp: w4 s employed by government	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JGOVTEMP	3042	0.06	0.24	0.00	1.00
R2JGOVTEMP	3130	0.08	0.28	0.00	1.00
R3JGOVTEMP	4572	0.08	0.27	0.00	1.00
R4JGOVTEMP	4843	0.08	0.27	0.00	1.00
S1JGOVTEMP	2781	0.06	0.23	0.00	1.00
S2JGOVTEMP	2830	0.09	0.28	0.00	1.00
S3JGOVTEMP	4161	0.08	0.27	0.00	1.00
S4JGOVTEMP	4385	0.08	0.27	0.00	1.00

### Categorical Variable Codes

Value-----	R1JGOVTEMP	R2JGOVTEMP	R3JGOVTEMP	R4JGOVTEMP
.a:agricultural work	6369	6974	6941	6138
.d:dk	12			
.f:working for family business	279	389	522	264
.l:self-employed	1115	1303	1532	1325
.m:missing	497	594	708	98
.w:not working	6394	6223	6822	7148
0.not employed by government	2863	2864	4205	4447
1.employed by government	179	266	367	396

Value-----	S1JGOVTEMP	S2JGOVTEMP	S3JGOVTEMP	S4JGOVTEMP
.a:agricultural work	5713	6158	6111	5294
.d:dk	11			
.f:working for family business	242	336	467	236
.l:self-employed	1004	1176	1399	1218
.m:missing	306	379	465	19
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:not working	4853	4701	5121	5210
0.not employed by government	2622	2589	3831	4027
1.employed by government	159	241	330	358

### How Constructed:

RwJGOVTEMP indicates whether the respondent currently works for a government organization. RwJGOVTEMP is assigned 0 if the respondent is not employed by a government organization. RwJGOVTEMP is assigned 1 if the respondent is employed by a government organization. This question is only asked to respondents who report engaging in non-agricultural employed work. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.a) is assigned if the respondent reports engaging in agricultural work per their labor force status. Special missing value (.l) is assigned if the respondent reports engaging in non-agricultural self-employed work per their labor force status. Special missing value (.f) is assigned if the respondent reports engaging in non-agricultural unpaid family business work per their labor force status. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m),

respectively. RwJGOVTEMP is coded as blank missing (.) if the respondent did not respond to this wave.

SwJGOVTEMP indicates whether the respondent's spouse currently works for a government organization. SwJGOVTEMP is taken from the spouse's value of RwJGOVTEMP. In addition to the special missing values used in RwJGOVTEMP, SwJGOVTEMP employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

No differences known.

## Differences with the RAND HRS/Harmonized HRS

These variables are not currently created as part of the RAND HRS or Harmonized HRS.

## CHARLS Variables Used:

### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FD002	TYPE OF THE WORK UNIT
FK002	search for a new job

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FD002	Type of Employer
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FD002	Type of Employer
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

### Wave 4:

FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FD002	Type of the Employer
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

<b>Whether Paid Salary or Wages</b>
-------------------------------------

Wave	Variable	Label	Type
1	R1JSALARY_C	r1jsalary_c: w1 r paid salary or wages	Categ
2	R2JSALARY_C	r2jsalary_c: w2 r paid salary or wages	Categ
3	R3JSALARY_C	r3jsalary_c: w3 r paid salary or wages	Categ
4	R4JSALARY_C	r4jsalary_c: w4 r paid salary or wages	Categ
1	S1JSALARY_C	s1jsalary_c: w1 s paid salary or wages	Categ
2	S2JSALARY_C	s2jsalary_c: w2 s paid salary or wages	Categ
3	S3JSALARY_C	s3jsalary_c: w3 s paid salary or wages	Categ
4	S4JSALARY_C	s4jsalary_c: w4 s paid salary or wages	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JSALARY_C	2522	1.22	0.41	1.00	2.00
R2JSALARY_C	2581	1.23	0.42	1.00	2.00
R3JSALARY_C	3775	1.23	0.42	1.00	2.00
R4JSALARY_C	3867	1.26	0.44	1.00	2.00
S1JSALARY_C	2312	1.22	0.41	1.00	2.00
S2JSALARY_C	2324	1.23	0.42	1.00	2.00
S3JSALARY_C	3429	1.24	0.43	1.00	2.00
S4JSALARY_C	3513	1.26	0.44	1.00	2.00

### Categorical Variable Codes

Value-----	R1JSALARY_C	R2JSALARY_C	R3JSALARY_C	R4JSALARY_C
.a:agricultural work	6369	6974	6989	6138
.d:dk	13			
.f:working for family business	284	397	530	264
.l:self-employed	1137	1326	1552	1325
.m:missing	534	597	720	99
.o:Other	455	515	708	975
.w:not working	6394	6223	6823	7148
1.paid salary	1979	1983	2893	2866
2.paid wages	543	598	882	1001

  

Value-----	S1JSALARY_C	S2JSALARY_C	S3JSALARY_C	S4JSALARY_C
.a:agricultural work	5713	6158	6153	5294
.d:dk	12			
.f:working for family business	247	343	474	236
.l:self-employed	1024	1197	1416	1218
.m:missing	340	378	474	19
.o:Other	409	479	656	872
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:not working	4853	4701	5122	5210
1.paid salary	1810	1785	2614	2597
2.paid wages	502	539	815	916

### How Constructed:

RwJSALARY\_C indicates whether the respondent is paid by salary or wages in their current job. RwJSALARY\_C is assigned 1 if the respondent is paid by salary. RwJSALARY\_C is assigned 2 if the respondent is paid by wages. This question is only asked to respondents who report engaging in non-agricultural employed work. Special missing value (.o) is assigned if the respondent is paid by another method (e.g. contract-based, performance-based, etc.). Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.a) is assigned if the respondent reports engaging in agricultural work per their labor force status. Special missing value (.l) is assigned if the respondent reports engaging in non-agricultural self-employed work per their labor force status. Special missing value (.f) is assigned if the respondent reports

engaging in non-agricultural unpaid family business work per their labor force status. Don't know, refused, and missing responses are assigned special missing codes (.d), (.r), and (.m), respectively. RwJSALARY\_C is coded as blank missing (.) if the respondent did not respond to this wave.

SwJSALARY\_C indicates whether the respondent's spouse is paid by salary or wages in their current job. SwJSALARY\_C is taken from the spouse's value of RwJSALARY\_C. In addition to the special missing values used in RwJSALARY\_C, SwJSALARY\_C employs two additional special missing codes. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

No differences known.

## Differences with the RAND HRS/Harmonized HRS

These variables are not currently created as part of the RAND HRS or Harmonized HRS.

## CHARLS Variables Used:

### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FH003	HOW MANY HOURS DO YOU USUALLY WORK PER day
FK002	search for a new job

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FF001	Pattern of Wage Payment
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FF001	Pattern of Wage Payment
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW



ZF14	Preload Working Status in LastIW
Wave 4:	
FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FF001	Periodic Pattern of Wage Payment
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

<b>Bonuses</b>
----------------

Wave	Variable	Label	Type
2	R2JBONUS	r2jbonus: w2 r amount of bonus in past year	Cont
3	R3JBONUS	r3jbonus: w3 r amount of bonus in past year	Cont
4	R4JBONUS	r4jbonus: w4 r amount of bonus in past year	Cont
2	S2JBONUS	s2jbonus: w2 s amount of bonus in past year	Cont
3	S3JBONUS	s3jbonus: w3 s amount of bonus in past year	Cont
4	S4JBONUS	s4jbonus: w4 s amount of bonus in past year	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2JBONUS	3028	3794.89	13026.78	0.00	270000.00
R3JBONUS	4435	3791.78	14652.59	0.00	496000.00
R4JBONUS	4807	3794.97	14247.78	0.00	324000.00
S2JBONUS	2738	3799.60	13211.67	0.00	270000.00
S3JBONUS	4045	3803.78	14812.16	0.00	496000.00
S4JBONUS	4360	3917.68	14690.80	0.00	324000.00

### How Constructed:

RwJBONUS indicates the amount of bonuses the respondent received in the past year and is only available starting at Wave 2. Bonus amounts are only asked to respondents who report engaging in non-agricultural employed work. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.a) is assigned if the respondent reports engaging in agricultural work per their labor force status. Special missing value (.l) is assigned if the respondent reports engaging in non-agricultural self-employed work per their labor force status. Special missing value (.f) is assigned if the respondent reports engaging in non-agricultural unpaid family business work per their labor force status. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwJBONUS is coded as blank missing (.) if the respondent did not respond to this wave.

At Wave 1, CHARLS asks respondents to report the amount of after-tax salary/wage including bonuses. However, respondents are not asked to distinguish the amount or percentage of that salary/wage which is attributable to bonuses, unlike later waves. Wave 1 does ask employed respondents to report the value of all other bonuses not paid at the same time as their regular salary/wage. Because it is not possible to capture bonus amounts which are paid at the same time as regular salary/wages at Wave 1, the Harmonized CHARLS does not construct RwJBONUS for Wave 1.

At Waves 2 and 3, CHARLS asks respondents to report the amount of after-tax bonus paid as part of their regular salary/wage and/or the percentage of their total after-tax salary/wage which should be attributed to bonuses. Respondents are then asked to report the value of all other bonuses not paid at the same time as their regular salary/wage. Different respondents are asked about the amount of bonus with different periodicity (e.g. workers receiving a monthly salary/wage are asked to report the amount of their monthly bonus). RwJBONUS is derived as the amount of after-tax bonus paid at the same time as their regular salary/wage or the percentage of total after-tax salary/wage due to bonuses, plus the amount of any bonuses not paid at the same time as their regular salary/wage. For respondents who report both the amount of after-tax bonus paid as part of their regular salary/wage and the percentage of their total after-tax salary/wage which should be attributed to bonuses, RwJBONUS gives preference to the amount of after-tax bonus paid as part of their regular salary/wage. All bonus amounts have been scaled into yearly values for RwJBONUS.

Starting at Wave 4, CHARLS asks respondents to report the amount of bonus paid as part of their regular salary/wage. Respondents are then asked to report the value of all other bonuses not paid at the same time as their regular salary/wage. Different respondents are asked the amount of bonus with different periodicity (e.g. workers receiving a monthly salary/wage are asked to report the amount of their monthly bonus). RwJBONUS is derived as the amount of bonuses paid at the same time as their regular salary/wage plus the amount of any bonuses not paid at the same time as their regular salary/wage. All bonus amounts have been scaled into yearly values for RwJBONUS.

SwJBONUS indicates the amount of bonuses the respondent's spouse received in the past year. SwJBONUS is taken from the spouse's value of RwJBONUS. In addition to the special missing values used in RwJBONUS, SwJBONUS employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, CHARLS asks respondents to report the amount of after-tax salary/wage including bonuses. However, respondents are not asked to distinguish the amount or percentage of that salary/wage which is attributable to bonuses, unlike later waves. Wave 1 does ask employed respondents to report the value of all other bonuses not paid at the same time as their regular salary/wage.

At Waves 2 and 3, CHARLS asks respondents to report the amount of after-tax bonus paid as part of their regular salary/wage and/or the percentage of their total after-tax salary/wage which should be attributed to bonuses. Respondents are then asked to report the value of all other bonuses not paid at the same time as their regular salary/wage. Different respondents are asked the amount of bonus with different periodicity (e.g. workers receiving a monthly salary/wage are asked to report the amount of their monthly bonus).

Starting at Wave 4, CHARLS asks respondents to report the amount of bonuses paid as part of their regular salary/wage. Respondents are then asked to report the value of all other bonuses not paid at the same time as their regular salary/wage. Different respondents are asked the amount of bonus with different periodicity (e.g. workers receiving a monthly salary/wage are asked to report the amount of their monthly bonus).

## Differences with the RAND HRS/Harmonized HRS

These variables are not currently created as part of the RAND HRS or Harmonized HRS.

## CHARLS Variables Used:

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FF001	Pattern of Wage Payment
FF002_1	After-tax Salary of Last Year(Yuan)
FF002_2	After-tax Salary of Last Year(Bonus)
FF002_3	After-tax Salary of Last Year(Percentage of Bonus)
FF004_1	After-tax Salary of Last Month(Yuan)
FF004_2	After-tax Salary of Last Month(Bonus)
FF004_3	After-tax Salary of Last Month(Percentage of Bonus)
FF012_1	How Much Do You Receive Last Month(Yuan)
FF012_2	How Much Do You Receive Last Month(Bonus)
FF012_3	How Much Do You Receive Last Month(Percentage of Bonus)
FF014	All Other Bonus in the Past Year
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months

FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FF001	Pattern of Wage Payment
FF002_1	After-tax Salary of Last Year(Yuan)
FF002_2	After-tax Salary of Last Year(Bonus)
FF002_3	After-tax Salary of Last Year(Percentage of Bonus)
FF004_1	After-tax Salary of Last Month(Yuan)
FF004_2	After-tax Salary of Last Month(Bonus)
FF004_3	After-tax Salary of Last Month(Percentage of Bonus)
FF012_1	How Much Do You Receive Last Month(Yuan)
FF012_2	How Much Do You Receive Last Month(Bonus)
FF012_3	How Much Do You Receive Last Month(Percentage of Bonus)
FF014	All Other Bonus in The Past Year
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

## Wave 4:

FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FF001	Periodic Pattern of Wage Payment
FF002_W4_B	Bonus Included in the Salary Last Year (in Yuan)
FF004_W4_B	Bonus Included in the Salary Last Month (in Yuan)
FF012_W4_B	Bonus Included in Total Salary Last Month (in Yuan) if Not Paid
FF014	All Other Bonuses Last Year
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

<b>Sick Days</b>
------------------

Wave	Variable	Label	Type
1	R1JMSICK	r1jmsick: w1 r missed work because of sick	Categ
2	R2JMSICK	r2jmsick: w2 r missed work because of sick	Categ
3	R3JMSICK	r3jmsick: w3 r missed work because of sick	Categ
4	R4JMSICK	r4jmsick: w4 r missed work because of sick	Categ
1	S1JMSICK	s1jmsick: w1 s missed work because of sick	Categ
2	S2JMSICK	s2jmsick: w2 s missed work because of sick	Categ
3	S3JMSICK	s3jmsick: w3 s missed work because of sick	Categ
4	S4JMSICK	s4jmsick: w4 s missed work because of sick	Categ
1	R1JNSICKAGR	r1jnsickagr: w1 r # days missed agricultural work because si	Cont
2	R2JNSICKAGR	r2jnsickagr: w2 r # days missed agricultural work because si	Cont
3	R3JNSICKAGR	r3jnsickagr: w3 r # days missed agricultural work because si	Cont
4	R4JNSICKAGR	r4jnsickagr: w4 r # days missed agricultural work because si	Cont
1	S1JNSICKAGR	s1jnsickagr: w1 s # days missed agricultural work because si	Cont
2	S2JNSICKAGR	s2jnsickagr: w2 s # days missed agricultural work because si	Cont
3	S3JNSICKAGR	s3jnsickagr: w3 s # days missed agricultural work because si	Cont
4	S4JNSICKAGR	s4jnsickagr: w4 s # days missed agricultural work because si	Cont
1	R1JNSICKEMP	r1jnsickemp: w1 r # days missed employed work because sick	Cont
2	R2JNSICKEMP	r2jnsickemp: w2 r # days missed employed work because sick	Cont
3	R3JNSICKEMP	r3jnsickemp: w3 r # days missed employed work because sick	Cont
4	R4JNSICKEMP	r4jnsickemp: w4 r # days missed employed work because sick	Cont
1	S1JNSICKEMP	s1jnsickemp: w1 s # days missed employed work because sick	Cont
2	S2JNSICKEMP	s2jnsickemp: w2 s # days missed employed work because sick	Cont
3	S3JNSICKEMP	s3jnsickemp: w3 s # days missed employed work because sick	Cont
4	S4JNSICKEMP	s4jnsickemp: w4 s # days missed employed work because sick	Cont
1	R1JNSICKSF	r1jnsicksf: w1 r # days missed self-employed work because si	Cont
2	R2JNSICKSF	r2jnsicksf: w2 r # days missed self-employed work because si	Cont
3	R3JNSICKSF	r3jnsicksf: w3 r # days missed self-employed work because si	Cont
4	R4JNSICKSF	r4jnsicksf: w4 r # days missed self-employed work because si	Cont
1	S1JNSICKSF	s1jnsicksf: w1 s # days missed self-employed work because si	Cont
2	S2JNSICKSF	s2jnsicksf: w2 s # days missed self-employed work because si	Cont
3	S3JNSICKSF	s3jnsicksf: w3 s # days missed self-employed work because si	Cont
4	S4JNSICKSF	s4jnsicksf: w4 s # days missed self-employed work because si	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JMSICK	11491	0.31	0.46	0.00	1.00
R2JMSICK	11944	0.33	0.47	0.00	1.00
R3JMSICK	13143	0.32	0.47	0.00	1.00
R4JMSICK	12568	0.34	0.47	0.00	1.00
S1JMSICK	10351	0.30	0.46	0.00	1.00
S2JMSICK	10632	0.33	0.47	0.00	1.00
S3JMSICK	11797	0.32	0.46	0.00	1.00
S4JMSICK	11133	0.33	0.47	0.00	1.00
R1JNSICKAGR	8977	16.72	47.64	0.00	365.00
R2JNSICKAGR	9128	17.67	47.71	0.00	365.00
R3JNSICKAGR	8898	16.03	42.88	0.00	365.00
R4JNSICKAGR	9088	16.58	44.38	0.00	365.00
S1JNSICKAGR	8105	16.21	46.48	0.00	365.00
S2JNSICKAGR	8118	17.20	46.71	0.00	365.00
S3JNSICKAGR	7978	15.38	41.74	0.00	365.00
S4JNSICKAGR	8037	16.00	43.25	0.00	365.00

R1JNSICKEMP	2930	2.36	15.91	0.00	365.00
R2JNSICKEMP	3023	3.17	16.64	0.00	365.00
R3JNSICKEMP	4441	2.88	17.25	0.00	365.00
R4JNSICKEMP	4724	3.84	19.77	0.00	365.00
S1JNSICKEMP	2679	2.16	13.42	0.00	365.00
S2JNSICKEMP	2736	3.15	16.87	0.00	365.00
S3JNSICKEMP	4056	2.86	16.92	0.00	365.00
S4JNSICKEMP	4287	3.84	19.96	0.00	365.00
R1JNSICKSF	1376	8.23	31.24	0.00	350.00
R2JNSICKSF	1702	8.68	32.21	0.00	365.00
R3JNSICKSF	2004	11.31	41.32	0.00	365.00
R4JNSICKSF	1589	9.18	31.15	0.00	365.00
S1JNSICKSF	1231	8.22	31.61	0.00	350.00
S2JNSICKSF	1530	8.00	29.59	0.00	365.00
S3JNSICKSF	1827	11.10	40.73	0.00	365.00
S4JNSICKSF	1454	8.89	30.31	0.00	365.00

### Categorical Variable Codes

Value-----	R1JMSICK	R2JMSICK	R3JMSICK	R4JMSICK
.a:agricultural work for other farmers			3	
.d:dk	223			
.m:missing	474	904	1131	100
.r:refuse	1			
.w:not working	5519	5765	6820	7148
0.no	7984	7972	8930	8292
1.yes	3507	3972	4213	4276

Value-----	S1JMSICK	S2JMSICK	S3JMSICK	S4JMSICK
.a:agricultural work for other farmers			3	
.d:dk	178			
.m:missing	284	638	804	19
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:not working	4096	4310	5120	5210
0.no	7234	7138	8071	7410
1.yes	3117	3494	3726	3723

### How Constructed:

RwJMSICK indicates whether the respondent missed work in the past year due to health problems. RwJMSICK is assigned 0 if the respondent reports that they missed no days of work in the past year due to health problems. RwJMSICK is assigned 1 if the respondent reports missing at least one day of work in the past year due to health problems. Special missing value (.w) is assigned if the respondent is not currently working. At Wave 3, special missing value (.a) is assigned if the respondent reports engaging in agricultural work per their labor force status but does not report doing agricultural work for own household.

RwJNSICKAGR indicates the number of days of agricultural work the respondent missed in the past year due to health problems. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.n) is assigned if the respondent reports engaging in non-agricultural employed work, non-agricultural self-employed work, or non-agricultural unpaid family business work per their labor force status. At Wave 3, special missing value (.a) is assigned if the respondent reports engaging in agricultural work per their labor force status but does not report doing agricultural work for own household.

RwJNSICKEMP indicates the number of days of non-agricultural employed work the respondent missed work in the past year due to health problems. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.n) is assigned if the respondent reports engaging in agricultural work, non-agricultural self-employed work, or non-agricultural unpaid family business work per their labor force status.

RwJNSICKSF indicates the number of days of non-agricultural self-employed work and/or non-agricultural unpaid family business work the respondent missed in the past year due to health problems. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.n) is assigned if the respondent reports engaging in agricultural work or non-agricultural employed work per their labor force status.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwJMSICK, RwJNSICKAGR, RwJNSICKEMP, and RwJNSICKSF are coded as blank missing (.) if the respondent did not respond to this wave.

SwJMSICK indicates whether the respondent's spouse missed work in the past year due to health problems. SwJNSICKAGR, SwJNSICKEMP and SwJNSICKSF indicate the number of days of agricultural work, non-agricultural employed work, and non-agricultural self-employed work and/or non-agricultural unpaid family business work, respectively, the respondent's spouse missed the past year due to health problems. SwJMSICK, SwJNSICKAGR, SwJNSICKEMP, and SwJNSICKSF are taken from the spouse's values of RwJMSICK, RwJNSICKAGR, RwJNSICKEMP, and RwJNSICKSF, respectively. In addition to the special missing values used in RwJMSICK, RwJNSICKAGR, RwJNSICKEMP, and RwJNSICKSF, SwJMSICK, SwJNSICKAGR, SwJNSICKEMP, and SwJNSICKSF employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1, 2, and 4, all respondents who report engaging in agricultural work for their own household or others are asked how many days of agricultural work they missed in the past year due to health problems. At Wave 3, respondents who report engaging in agricultural work but do not report doing agricultural work for their own household are not asked how many days of agricultural work they missed in the past year due to health problems.

## Differences with the RAND HRS/Harmonized HRS

These variables are not currently created as part of the RAND HRS or Harmonized HRS.

## CHARLS Variables Used:

### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other farmers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC013	THE NUMBER OF DAYS MISSING LAST YEAR DUE TO HEALTH PROBLEMS
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FD030	THE NUMBER OF DAYS OF WORK YOU MISSED
FH004	DAYS MISSING FOR HEALTH PROBLEMS
FK002	search for a new job

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_w2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC013	Days No Work due to Health Problems
FC020	Main Job
FC021	Type of Non-Agricultural Job
FD030	Days of Sick Leave
FH004	Days of Sick leave

FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 3:	
FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC013	Days No Work due to Health Problems
FC020	Main Job
FC021	Type of Non-Agricultural Job
FD030	Days of Sick Leave
FH004	Days of Sick leave
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 4:	
FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC013	Days Not Working due to Health Problems
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FD030	Days of Sick Leaves
FH004	Days of Sick Leave
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work



<b>When Current Job Began</b>
-------------------------------

Wave	Variable	Label	Type
1	R1JBGYR	r1jbgyr: w1 r year job began	Cont
2	R2JBGYR	r2jbgyr: w2 r year job began	Cont
3	R3JBGYR	r3jbgyr: w3 r year job began	Cont
4	R4JBGYR	r4jbgyr: w4 r year job began	Cont
1	S1JBGYR	s1jbgyr: w1 s year job began	Cont
2	S2JBGYR	s2jbgyr: w2 s year job began	Cont
3	S3JBGYR	s3jbgyr: w3 s year job began	Cont
4	S4JBGYR	s4jbgyr: w4 s year job began	Cont
1	R1JBGMO	r1jbgmo: w1 r month job began	Cont
2	R2JBGMO	r2jbgmo: w2 r month job began	Cont
3	R3JBGMO	r3jbgmo: w3 r month job began	Cont
4	R4JBGMO	r4jbgmo: w4 r month job began	Cont
1	S1JBGMO	s1jbgmo: w1 s month job began	Cont
2	S2JBGMO	s2jbgmo: w2 s month job began	Cont
3	S3JBGMO	s3jbgmo: w3 s month job began	Cont
4	S4JBGMO	s4jbgmo: w4 s month job began	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JBGYR	4122	2000.23	12.33	1900.00	2012.00
R2JBGYR	4412	2002.66	11.37	1950.00	2013.00
R3JBGYR	6098	2005.77	10.86	1945.00	2015.00
R4JBGYR	6414	2009.49	10.74	1900.00	2018.00
S1JBGYR	3752	2000.38	12.15	1900.00	2012.00
S2JBGYR	3991	2002.63	11.35	1950.00	2013.00
S3JBGYR	5560	2005.69	10.84	1945.00	2015.00
S4JBGYR	5822	2009.39	10.80	1900.00	2018.00
R1JBGMO	4123	3.59	3.68	0.00	12.00
R2JBGMO	4411	3.86	3.72	0.00	12.00
R3JBGMO	6098	4.42	3.59	0.00	12.00
R4JBGMO	6387	4.72	3.49	0.00	12.00
S1JBGMO	3753	3.57	3.66	0.00	12.00
S2JBGMO	3990	3.85	3.72	0.00	12.00
S3JBGMO	5560	4.42	3.59	0.00	12.00
S4JBGMO	5800	4.74	3.49	0.00	12.00

### How Constructed:

RwJBGYR and RwJBGMO indicate the year and month the respondent began their current job, respectively. CHARLS allows respondents to report engaging in multiple types of work (e.g. being employed and working in an unpaid family business). For respondents who report multiple job types, CHARLS asks the respondent when they began each job. For respondents who report multiple job types, RwJBGYR and RwJBGMO give preference to when their non-agricultural employed job started, then when their non-agricultural self-employed job started, and lastly when their non-agricultural unpaid family business job started. Respondents who report only doing agricultural work are not asked when they started their current agricultural job. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.a) is assigned if the respondent reports engaging in agricultural work per their labor force status. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwJBGYR and RwJBGMO are coded as blank missing (.) if the respondent did not respond to this wave.

Starting at Wave 2, re-interview respondents who reported engaging in non-agricultural employed work, non-agricultural self-employed work, and/or non-agricultural unpaid family business work at the previous wave are asked if they are still working for the same employer as the previous wave.

If the respondent reports working for the same employer as the previous wave, RwJBGYR and RwJBGMO use the beginning year and month reported from the previous interview.

SwJBGYR and SwJBGMO indicate the year and month the respondent's spouse began their current job, respectively. SwJBGYR and SwJBGMO are taken from the spouse's values of RwJBGYR and RwJBGMO, respectively. In addition to the special missing values used in RwJBGYR and RwJBGMO, SwJBGYR and SwJBGMO employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 2, re-interview respondents who reported engaging in non-agricultural employed work, non-agricultural self-employed work, and/or non-agricultural unpaid family business work at the previous wave are asked if they are still working for the same employer as the previous wave.

## Differences with the RAND HRS/Harmonized HRS

These variables are not currently created as part of the RAND HRS or Harmonized HRS.

## CHARLS Variables Used:

### Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FC001	Did you work for other famers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FD011_1	year
FD011_2	month
FH008_1	year
FH008_2	month
FH018_1	How many family members, relatives or friends who work without
FH018_2	How many family members, relatives or friends who work without
FK002	search for a new job

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_2A_3	Are You Still Working for This Employer?
FA006_W2_2B_3	Are You Still Running This Company/Business?
FA006_W2_2C_3	Are You Still Working for This Family Business?
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FC001	Any Work for Other Farmers in Wage
FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FD011_1	When Did You Start Working for This Employer(Year)
FD011_2	When Did You Start Working for This Employer(Month)
FH008_1	When Did Your Start Working at Current Company(Year)
FH008_2	When Did Your Start Working at Current Company(Month)
FH018_1	When Did You Start Working at Current Company(Year)
FH018_2	When Did You Start Working at Current Company(Month)
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

### Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_2A_3	Are You Still Working for This Employer?
FA006_W2_2B_3	Are You Still Running This Company/Business?
FA006_W2_2C_3	Are You Still Working for This Family Business?
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FD011_1	When Did You Start Working for This Employer(Year)
FD011_2	When Did You Start Working for This Employer(Month)
FH008_1	When Did Your Start Working at Current Company(Year)
FH008_2	When Did Your Start Working at Current Company(Month)
FH018_1	When Did You Start Working at Current Company(Year)
FH018_2	When Did You Start Working at Current Company(Month)
FK002	Did You Search for a Job Last Month
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW

## Wave 4:

FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FD003_W4_1	Same Employer as in the LastIW
FD003_W4_2	Same Employer as in the LastIW if Employer Missing in the Recor
FD011_1	When Did You Start Working for This Employer(Year)
FD011_2	When Did You Start Working for This Employer(Month)
FH005_W4_1	Same Self Employment Business as in the LastIW
FH005_W4_2	Same Self Employment Business as in the LastIW if Missing in th
FH008_1	When Started the Business (Year)
FH008_2	When Started the Business (Month)
FH012_W4_1	Same Family Business as in the LastIW
FH012_W4_2	Same Family Business as in the LastIW if Missing in the Record
FH018_1	When Did You Start Working at the Family Business (Year)
FH018_2	When Did You Start Working at the Family Business (Month)
FK002	Did You Search for a Job Last Month
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

## Reason Left Last Employer

Wave	Variable	Label	Type
1	R1JRSLEFT	r1jrsleft: w1 r reason left employer (if not working)	Categ
2	R2JRSLEFT	r2jrsleft: w2 r reason left employer (if not working)	Categ
3	R3JRSLEFT	r3jrsleft: w3 r reason left employer (if not working)	Categ
1	S1JRSLEFT	s1jrsleft: w1 s reason left employer (if not working)	Categ
2	S2JRSLEFT	s2jrsleft: w2 s reason left employer (if not working)	Categ
3	S3JRSLEFT	s3jrsleft: w3 s reason left employer (if not working)	Categ
1	R1JRSLEFT_C	r1jrsleft_c: w1 r reason left employer (if not working)	Categ
2	R2JRSLEFT_C	r2jrsleft_c: w2 r reason left employer (if not working)	Categ
3	R3JRSLEFT_C	r3jrsleft_c: w3 r reason left employer (if not working)	Categ
4	R4JRSLEFT_C	r4jrsleft_c: w4 r reason left employer (if not working)	Categ
1	S1JRSLEFT_C	s1jrsleft_c: w1 s reason left employer (if not working)	Categ
2	S2JRSLEFT_C	s2jrsleft_c: w2 s reason left employer (if not working)	Categ
3	S3JRSLEFT_C	s3jrsleft_c: w3 s reason left employer (if not working)	Categ
4	S4JRSLEFT_C	s4jrsleft_c: w4 s reason left employer (if not working)	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JRSLEFT	4919	4.09	2.63	1.00	8.00
R2JRSLEFT	4662	4.08	2.55	1.00	8.00
R3JRSLEFT	5530	4.27	2.47	1.00	8.00
S1JRSLEFT	3676	4.02	2.63	1.00	8.00
S2JRSLEFT	3481	3.97	2.55	1.00	8.00
S3JRSLEFT	4140	4.21	2.49	1.00	8.00
R1JRSLEFT_C	4919	3.16	1.90	1.00	6.00
R2JRSLEFT_C	4662	3.15	1.84	1.00	6.00
R3JRSLEFT_C	5530	3.28	1.79	1.00	6.00
R4JRSLEFT_C	6108	3.23	1.67	1.00	6.00
S1JRSLEFT_C	3676	3.10	1.90	1.00	6.00
S2JRSLEFT_C	3481	3.07	1.84	1.00	6.00
S3JRSLEFT_C	4140	3.24	1.80	1.00	6.00
S4JRSLEFT_C	4489	3.19	1.68	1.00	6.00

## Categorical Variable Codes

Value-----	R1JRSLEFT	R2JRSLEFT	R3JRSLEFT
.d:dk	63	37	20
.m:missing	1527	1377	1441
.n:never worked	356	248	289
.r:refuse	15	6	4
.w:currently working	10828	11905	13636
.x:refute working last wave		378	177
1.Retired	1516	1365	1329
2.Fired	45	51	62
3.Laid off	268	219	294
4.Health reason	1465	1536	1935
5.Family reason	312	334	498
6.New job	64	58	70
7.Quit	76	71	89
8.Other	1173	1028	1253
Value-----	S1JRSLEFT	S2JRSLEFT	S3JRSLEFT
.d:dk	49	27	11
.m:missing	1144	983	1018

.n:never worked	264	174	211	
.r:refuse	11	3	2	
.u:unmar	2260	2401	2719	
.v:sp nr	538	622	650	
.w:currently working	9766	10610	12205	
.x:refute working last wave		302	137	
1.Retired	1185	1090	1065	
2.Fired	31	36	43	
3.Laid off	215	177	241	
4.Health reason	1046	1091	1353	
5.Family reason	244	256	392	
6.New job	53	49	60	
7.Quit	62	56	75	
8.Other	840	726	911	
Value-----	R1JRSLEFT_C	R2JRSLEFT_C	R3JRSLEFT_C	R4JRSLEFT_C
.d:dk	63	37	20	15
.m:missing	1527	1377	1441	927
.n:never worked	356	248	289	192
.r:refuse	15	6	4	4
.w:currently working	10828	11905	13636	12570
.x:refute working last wave		378	177	
1.Retired	1516	1365	1329	1326
2.Fired/laid off	313	270	356	388
3.Health reason	1465	1536	1935	2400
4.Family reason	312	334	498	728
5.New job/quit	140	129	159	91
6.Other	1173	1028	1253	1175
Value-----	S1JRSLEFT_C	S2JRSLEFT_C	S3JRSLEFT_C	S4JRSLEFT_C
.d:dk	49	27	11	8
.m:missing	1144	983	1018	603
.n:never worked	264	174	211	129
.r:refuse	11	3	2	
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:currently working	9766	10610	12205	11133
.x:refute working last wave		302	137	
1.Retired	1185	1090	1065	1031
2.Fired/laid off	246	213	284	300
3.Health reason	1046	1091	1353	1682
4.Family reason	244	256	392	563
5.New job/quit	115	105	135	71
6.Other	840	726	911	842

**How Constructed:**

RwJRSLEFT indicates the reason the respondent left their last job, if they are not currently working. RwJRSLEFT is only available at Waves 1 to 3. CHARLS allows respondents to report multiple reasons for why they left their last job. At Waves 1 and 2, new respondents who report having worked in their life but are not currently working and who have not processed retirement or have process retirement but not from their last job are asked why they left their last employer. At Wave 3, new respondents who report having worked in their life but are not currently working are asked why they left their last employer. The respondent is then given a list of 16 possible reasons, including one "other" reason, and the interviewer is instructed to not probe but to check all the reasons that apply. At Waves 2 and 3, re-interview respondents who reported working at the previous wave but are now not working are asked why they stopped working and given a list of 15 possible reasons, including one "other" reason.

RwJRSLEFT is assigned 1 to indicate the respondent retired from their last job if the respondent reports they processed retirement at their last job or if the respondent selected the reason "I retired" when asked why they left their last job. RwJRSLEFT is assigned 2 to indicate the respondent was fired from their last job if the respondent selected the reason "I was fired" when asked why they left their last job. RwJRSLEFT is assigned 3 to indicate the respondent was laid-off from their last job if the respondent selected the reason "business closed" or "I was laid-off" when asked why they left their last job. RwJRSLEFT is assigned 4 to indicate the respondent left their last job due to health reasons if the respondent selected the reason "I stopped working for health reasons" when asked why they left their last job. RwJRSLEFT is assigned 5 to indicate the

respondent left their last job due to family reasons if the respondent selected the reason "I stopped working for family reasons" when asked why they left their last job. `RwJRSLEFT` is assigned 6 to indicate the respondent left their last job for a new job if the respondent selected the reason "I was transferred to another job", "I was sent down to the countryside to do manual labor", "I started working off-farm locally", "I went to work away from home", "better job in local area", or "better job in another location" when asked why they left their last job. `RwJRSLEFT` is assigned 7 to indicate the respondent reported quitting their last job if the respondent selected the reason "quit" when asked why they left their last job. `RwJRSLEFT` is assigned 8 to indicate the respondent left their last job for other reasons if the respondent selected the reason "went to school", "went abroad", or "other" when asked why they left their last job. For respondents who reported multiple reasons for why they left their last job `RwJRSLEFT` gives preference to being fired, followed by being laid-off, leaving due to health reasons, leaving due to family reasons, leaving to obtain a new job, quitting, leaving due to other reasons, and being retired.

`RwJRSLEFT_C` indicates the reason the respondent left their last job using a condensed scale of reasons, if they are not currently working. `RwJRSLEFT_C` is available for all waves. At Wave 4, new respondents who report not currently working are asked why they left their last employer. At Wave 4, re-interview respondents who reported working at the previous wave but are now not working are asked why they stopped working. The respondent is then given a list of 5 possible reasons, including one "other" reason.

`RwJRSLEFT_C` is assigned 1 to indicate the respondent retired from their last job if the respondent reports they processed retirement at their last job or if the respondent selected the reason "I retired" or "Retirement" when asked why they left their last job. `RwJRSLEFT_C` is assigned 2 to indicate the respondent was fired/laid off from their last job if the respondent selected the reason "I was fired", "business closed", "I was laid off", or "forced to leave" when asked why they left their last job. `RwJRSLEFT_C` is assigned 3 to indicate the respondent left their last job due to health reasons if the respondent selected the reason "I stopped working for health reasons" or "health reasons" when asked why they left their last job. `RwJRSLEFT_C` is assigned 4 to indicate the respondent left their last job due to family reasons if the respondent selected the reason "I stopped working for family reasons" or "caring for family members" when asked why they left their last job. `RwJRSLEFT_C` is assigned 5 to indicate the respondent quit or left their last job for a new job if the respondent selected the reason "I was transferred to another job", "I was sent down to the countryside to do manual labor", "I started working off-farm locally", "I went to work away from home", "better job in local area", "better job in another location", or "quit" when asked why they left their last job. `RwJRSLEFT_C` is assigned 6 to indicate the respondent left their last job for other reasons if the respondent selected the reason "went to school", "went abroad", or "other" when asked why they left their last job. For respondents who reported multiple reasons for why they left their last job `RwJRSLEFT` gives preference to being fired/laid off, followed by leaving due to health reasons, leaving due to family reasons, quitting/leaving to obtain a new job, leaving due to other reasons, and being retired.

Starting at Wave 2, if a re-interview respondent is not currently working and reported a reason for leaving the last employer in the previous wave, the reason left the last employer in the previous wave (including don't know and refused responses) are fed-forward to the current wave. Special missing value (.w) is assigned if the respondent is not currently working. Special missing value (.n) is assigned if the respondent has never worked. Starting at Wave 2, special missing (.x) is assigned if the respondent refutes working at the previous wave. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. `RwJRSLEFT` and `RwJRSLEFT_C` are coded as blank missing (.) if the respondent did not respond to this wave.

`SwJRSLEFT` indicates the reason the respondent's spouse left their last job, if the respondent's spouse is not currently working. `SwJRSLEFT_C` indicates the reason the respondent's spouse left their last job, if the respondent's spouse is not currently working. `SwJRSLEFT` and `SwJRSLEFT_C` are taken from the spouse's values of `RwJRSLEFT` and `RwJRSLEFT_C`, respectively. In addition to the special missing values used in `RwJRSLEFT` and `RwJRSLEFT_C`, `SwJRSLEFT` and `SwJRSLEFT_C` employ two additional missing codes. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1 and 2, new respondents who report having worked in their life but are not currently working and who have not processed retirement or have process retirement but not from their last job are asked why they left their last employer. At Wave 3, new respondents who report having worked in their life but are not currently working are asked why they left their last employer. For these questions, the respondent is given a list of 16 possible reasons, including one "other" reason:

1. Business closed
2. Quit
3. I was laid off
4. I was fired
5. I went to school
6. I went abroad
7. I stopped working for health reasons
8. I stopped working for family reasons
9. I was transferred to another job
10. I was sent down to the countryside to do manual labor
11. I started working off-farm locally
12. I went to work away from home
13. Better job in local area
14. Better job in another location
15. I retired
16. Other

At Waves 2 and 3, re-interview respondents who reported working at the previous wave but are now not working are asked why they stopped working. For this question, the respondent is given a list of 15 possible reasons, including one "other" reason:

1. Business closed
2. Quit
3. I was laid off
4. I was fired
5. I went to school
6. I went abroad
7. I stopped working for health reasons
8. I stopped working for family reasons
9. I was transferred to another job
10. I started working off-farm locally
11. I went to work away from home
12. Better job in local area
13. Better job in another location
14. I retired
15. Other

At Wave 4, respondents who reported working at the previous interview but are not currently working are asked why they stopped working since the previous interview. At Wave 4, new respondents who are

not currently working are asked why they left their last employer. For these questions, the respondent is given a list of 5 possible reasons, including one "other" reason:

1. Forced to leave (lost the most recent job due to passive reasons, such as being fired by the company, the shop was demolished, the land was expropriated)

2. Health reason

3. Caring for family members

4. Retirement

5. Others

## Differences with the RAND HRS/Harmonized HRS

These variables are not currently created as part of the RAND HRS or Harmonized HRS.

## CHARLS Variables Used:

Wave 1:

FA001	ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
FA002	WORK FOR AT LEAST ONE HOUR LAST MONTH
FA003	HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHER LEAVE
FA005	DO YOU EXPECT TO GO BACK TO THIS JOB
FA006	DO YOU RECEIVE ANY SALARY FROM THIS JOB
FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FC001	Did you work for other famers in wage for at least ten days in
FC008	Did you work for your own household for at least ten days in th
FC020	DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
FC021	How do you describe your non-agricultural job? Do you earn a wa
FK002	search for a new job
FL018	IS THIS THE BUSINESS WHERE YOU PROCESSED RETIREMENT
FL020S1	THE REASON FOR LEAVING
FL020S10	THE REASON FOR LEAVING
FL020S11	THE REASON FOR LEAVING
FL020S12	THE REASON FOR LEAVING
FL020S13	THE REASON FOR LEAVING
FL020S14	THE REASON FOR LEAVING
FL020S15	THE REASON FOR LEAVING
FL020S16	THE REASON FOR LEAVING
FL020S2	THE REASON FOR LEAVING
FL020S3	THE REASON FOR LEAVING
FL020S4	THE REASON FOR LEAVING
FL020S5	THE REASON FOR LEAVING
FL020S6	THE REASON FOR LEAVING
FL020S7	THE REASON FOR LEAVING
FL020S8	THE REASON FOR LEAVING
FL020S9	THE REASON FOR LEAVING

Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_1	You Told Us That You Were Doing Agricultural Work in The Last I
FA006_W2_1A	What Was The Reason for You to Stop Doing This Job?
FA006_W2_2A_3	Are You Still Working for This Employer?
FA006_W2_2B_3	Are You Still Running This Company/Business?
FA006_W2_2C_3	Are You Still Working for This Family Business?
FA006_W2_4	What Was The Reason for You to Stop Doing This Job?
FA006_W2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FC001	Any Work for Other Farmers in Wage



FC008	Any Work for Own Household
FC020	Main Job
FC021	Type of Non-Agricultural Job
FK002	Did You Search for a Job Last Month
FL018	Is This the Business Where You Processed Retirement
FL020S1	Why Did You Leave That Employer? Business Closed
FL020S10	Why Did You Leave That Employer? To The Countryside to Do Manual
FL020S11	Why Did You Leave That Employer? Off-farm Locally
FL020S12	Why Did You Leave That Employer? Work away from Home
FL020S13	Why Did You Leave That Employer? Better Job in Local Area
FL020S14	Why Did You Leave That Employer? Better Job in Another Area
FL020S14	Why Did You Leave That Employer? Better Job in Another Area
FL020S15	Why Did You Leave That Employer? Retired
FL020S16	Why Did You Leave That Employer? Other
FL020S2	Why Did You Leave That Employer? Quit
FL020S3	Why Did You Leave That Employer? Laid off
FL020S4	Why Did You Leave That Employer? Fired
FL020S5	Why Did You Leave That Employer? Went to School
FL020S6	Why Did You Leave That Employer? Abroad
FL020S7	Why Did You Leave That Employer? Health Reasons
FL020S8	Why Did You Leave That Employer? Family Reason
FL020S9	Why Did You Leave That Employer? Transferred to Another Job
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 3:	
FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA005	Do You Expect to Go Back to This Job
FA006	Do You Receive Any Salary from This Job
FA006_W2_1	You Told Us That You Were Doing Agricultural Work in The Last I
FA006_W2_1A	What Was The Reason for You to Stop Doing This Job?
FA006_W2_2A_3	Are You Still Working for This Employer?
FA006_W2_2B_3	Are You Still Running This Company/Business?
FA006_W2_2C_3	Are You Still Working for This Family Business?
FA006_W2_4	What Was The Reason for You to Stop Doing This Job?
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FC001	Do Farm Employed
FC008	Do Household Agricultural Work
FC020	Main Job
FC021	Type of Non-Agricultural Job
FK002	Did You Search for a Job Last Month
FL020S1	Why Did You Leave That Employer? Business Closed
FL020S10	Why Did You Leave That Employer? To The Countryside to Do Manual
FL020S11	Why Did You Leave That Employer? Off-farm Locally
FL020S12	Why Did You Leave That Employer? Work away from Home
FL020S13	Why Did You Leave That Employer? Better Job in Local Area
FL020S14	Why Did You Leave That Employer? Better Job in Another Area
FL020S15	Why Did You Leave That Employer? Retired
FL020S16	Why Did You Leave That Employer? Other
FL020S2	Why Did You Leave That Employer? Quit
FL020S3	Why Did You Leave That Employer? Laid off
FL020S4	Why Did You Leave That Employer? Fired
FL020S5	Why Did You Leave That Employer? Went to School
FL020S6	Why Did You Leave That Employer? Abroad
FL020S7	Why Did You Leave That Employer? Health Reasons
FL020S8	Why Did You Leave That Employer? Family Reason
FL020S9	Why Did You Leave That Employer? Transferred to Another Job
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
Wave 4:	
FA002_W4	Nonfarm Work (for at Least One Hour Last Month) or Not
FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA005	Expect to Return to the Job or Not
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FA011_W4_1	Since When Stopped Working After the LastIW

FA011_W4_3	Reason to Stop Working
FA012_W4_1	Since When at Work Other than Self-Employed Farming after the L
FA012_W4_3	Reason to Have a Job Other than Self-Employed Farming
FA013_W4_1	Since When Stopped Working on Jobs Other than Self-Employed Far
FA013_W4_3	Reason to Only Have a Job of Self-Employed Farming
FA014_W4_1	Since When Left the Employed Nonfarm Work Reported in the LastI
FA014_W4_3	Reason to Switch from Employed to Self-Employed Jobs
FA015_W4_1	Since When Left the Self-Employed Nonfarm Work Reported in the
FA015_W4_3	Reason to Switch from Self-Employed to Employed Jobs
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FC019_W4_C	More than One Non-Agricultural Job or Not
FC019_W4_F	More than One Non-Agricultural Job or Not
FC020_W4_A	Main Job Employed or Self Employed
FC020_W4_C	Main Job Employed or Self Employed
FC020_W4_D	Main Job Employed or Self Employed
FC020_W4_F	Main Job Employed or Self Employed
FC021_W4_C	The Job Being Employed or Self-Employed
FC021_W4_F	The Job Being Employed or Self-Employed
FD003_W4_3	Reason for the Employer Change
FH005_W4_3	Reason for the Business Change
FH012_W4_3	Reason for the Business Change
FK002	Did You Search for a Job Last Month
FL020_W4	Reason to Leave the Last Job and Stop Working
ZF1	(Preloaded from the LastIW) Ever Worked, but Currently Not Work

## **Section I: Retirement**

<b>Whether Retired: Retired Employment Status</b>
---

Wave	Variable	Label	Type
1	R1RETEMP	r1retemp:w1 r whether retired	Categ
2	R2RETEMP	r2retemp:w2 r whether retired	Categ
3	R3RETEMP	r3retemp:w3 r whether retired	Categ
4	R4RETEMP	r4retemp:w4 r whether retired	Categ
1	S1RETEMP	s1retemp:w1 s whether retired	Categ
2	S2RETEMP	s2retemp:w2 s whether retired	Categ
3	S3RETEMP	s3retemp:w3 s whether retired	Categ
4	S4RETEMP	s4retemp:w4 s whether retired	Categ
1	R1FRET_C	r1fret_c:w1 r whether formal retirement	Categ
2	R2FRET_C	r2fret_c:w2 r whether formal retirement	Categ
3	R3FRET_C	r3fret_c:w3 r whether formal retirement	Categ
4	R4FRET_C	r4fret_c:w4 r whether formal retirement	Categ
1	S1FRET_C	s1fret_c:w1 s whether formal retirement	Categ
2	S2FRET_C	s2fret_c:w2 s whether formal retirement	Categ
3	S3FRET_C	s3fret_c:w3 s whether formal retirement	Categ
4	S4FRET_C	s4fret_c:w4 s whether formal retirement	Categ
1	R1FRETF_C	r1fretf_c:w1 r flag dispute chg formal retirement	Categ
2	R2FRETF_C	r2fretf_c:w2 r flag dispute chg formal retirement	Categ
3	R3FRETF_C	r3fretf_c:w3 r flag dispute chg formal retirement	Categ
4	R4FRETF_C	r4fretf_c:w4 r flag dispute chg formal retirement	Categ
1	S1FRETF_C	s1fretf_c:w1 s flag dispute chg formal retirement	Categ
2	S2FRETF_C	s2fretf_c:w2 s flag dispute chg formal retirement	Categ
3	S3FRETF_C	s3fretf_c:w3 s flag dispute chg formal retirement	Categ
4	S4FRETF_C	s4fretf_c:w4 s flag dispute chg formal retirement	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETEMP	17257	0.35	0.48	0.00	1.00
R2RETEMP	18074	0.33	0.47	0.00	1.00
R3RETEMP	20470	0.31	0.46	0.00	1.00
R4RETEMP	19718	0.35	0.48	0.00	1.00
S1RETEMP	14645	0.31	0.46	0.00	1.00
S2RETEMP	15255	0.29	0.46	0.00	1.00
S3RETEMP	17330	0.28	0.45	0.00	1.00
S4RETEMP	16343	0.30	0.46	0.00	1.00
R1FRET_C	17124	0.13	0.33	0.00	1.00
R2FRET_C	18232	0.15	0.35	0.00	1.00
R3FRET_C	20570	0.13	0.34	0.00	1.00
R4FRET_C	19562	0.14	0.35	0.00	1.00
S1FRET_C	14539	0.12	0.33	0.00	1.00
S2FRET_C	15377	0.15	0.35	0.00	1.00
S3FRET_C	17414	0.14	0.34	0.00	1.00
S4FRET_C	16223	0.14	0.35	0.00	1.00
R1FRETF_C	17124	0.02	0.35	0.00	6.00
R2FRETF_C	18232	0.02	0.35	0.00	6.00
R3FRETF_C	20570	0.02	0.37	0.00	6.00
R4FRETF_C	19562	0.01	0.22	0.00	4.00
S1FRETF_C	14539	0.00	0.00	0.00	0.00
S2FRETF_C	15377	0.00	0.00	0.00	0.00
S3FRETF_C	17414	0.00	0.00	0.00	0.00
S4FRETF_C	16223	0.01	0.22	0.00	4.00

## Categorical Variable Codes

Value-----	R1RETEMP	R2RETEMP	R3RETEMP	R4RETEMP
.d:dk	37			
.m:missing	411	539	627	98
.r:refuse	3			
0.No	11275	12171	14094	12912
1.Yes	5982	5903	6376	6806
Value-----	S1RETEMP	S2RETEMP	S3RETEMP	S4RETEMP
.d:dk	30			
.m:missing	233	325	394	19
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	10107	10787	12544	11376
1.Yes	4538	4468	4786	4967
Value-----	R1FRET_C	R2FRET_C	R3FRET_C	R4FRET_C
.d:dk	13			
.m:missing	219	274	307	197
.w Never worked	352	107	220	57
0.No	14940	15577	17858	16763
1.Yes	2184	2655	2712	2799
Value-----	S1FRET_C	S2FRET_C	S3FRET_C	S4FRET_C
.d:dk	10			
.m:missing	101	122	140	98
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w Never worked	260	81	170	41
0.No	12746	13116	15062	13901
1.Yes	1793	2261	2352	2322
Value-----	R1FRET_C	R2FRET_C	R3FRET_C	R4FRET_C
0.No dispute	17066	18171	20490	19476
3.Disp last iw Y -> N, still no				59
4.Disp last iw Y -> N, now yes				27
6.Disp aft, Y -> N	58	61	80	
Value-----	S1FRET_C	S2FRET_C	S3FRET_C	S4FRET_C
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No dispute	14539	15377	17414	16155
3.Disp last iw Y -> N, still no				46
4.Disp last iw Y -> N, now yes				22

### How Constructed:

RwRETEMP indicates whether the respondent is retired. RwRETEMP is derived from the labor force status variable RwLBRF\_C. RwRETEMP is assigned 0 if the respondent reports engaging in agricultural work, non-agricultural employed work, non-agricultural self-employed work, or non-agricultural unpaid family business work, or if the respondent is unemployed or never worked per their labor force status. RwRETEMP is assigned 1 if the respondent is retired per their labor force status.

RwFRET\_C indicates whether the respondent has completed the retirement process. RwFRET\_C is derived from the following questions:

1. Have you completed retirement procedures (including early retirement) or internal retirement (Note: Retirement from government departments, enterprises and institutions, not including retirement in the sense of getting agricultural insurance)?

2. Have you completed receding position procedures?

RwFRET\_C is assigned 0 if the respondent reports they have not completed retirement or receding position procedures. RwFRET\_C is assigned 1 if the respondent reports they have completed

retirement or receding position procedures. Starting at Wave 2, 1 is also assigned if the respondent reported completing retirement or receding position procedures at the previous wave. Special missing value (.w) is assigned if the respondent reports not working for at least three months during their lifetime.

RwFRET\_C indicates whether the respondent's previous report is disputed at the current interview or a later interview. This flag variable differentiates between instances where the respondent was asked to dispute a positive previous report and report they have not completed the retirement process since the previous interview and dispute a positive previous report but report that they have completed the retirement process since the previous interview. The codes for the flag variable is: 0) no dispute and no change to previous wave variable; 3) disputes the previous interview's report of having completed the retirement process and reports that they have also not completed the retirement process since the previous interview, both current and previous wave variables are set to 0.no; 4) disputes the previous interview's report of having completed the retirement process but reports they have completed the retirement process since the previous interview, the current variable is set to 1.yes and the previous wave variable is set to 0.no; 6) the current wave's report of having completed the retirement process was disputed at a previous wave, the current wave variable has been changed to 0.no.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they have completed retirement or receding position procedures, regardless of their response to the second question.

Starting at Wave 2, re-interview respondents who reported they have completed retirement or receding position procedures at the previous wave are not asked whether they have completed retirement or receding position procedures at the current wave.

Starting at Wave 4, the respondent re-interview respondents who reported they have completed retirement or receding position procedures at the previous wave are asked whether this answer was correct. Respondents can agree or disagree with their previous report. If the respondent previously reported they have completed retirement or receding position procedures and then disagrees with their previous report, they are then asked whether they have completed retirement or receding position procedures since the previous interview. If any previous report is disputed, the variable for the previous wave is changed based on the dispute. For example, if a respondent reported they have completing retirement or receding position procedures at Wave 3, but then disputed the Wave 3 report at Wave 4, then R3FRET\_C is changed to 0.no.

At Wave 4, there is a large number of respondents who reported they have completed retirement or receding position procedures at the previous wave and have a missing response to the question that asks if this previous report was correct. For these respondents, RwFRET\_C is assigned 1 to indicate they have completed retirement or receding position procedures.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwRETEMP, RwFRET\_C, and RwFRET\_C are coded as blank missing (.) if the respondent did not respond to this wave.

SwRETEMP indicates whether the respondent's spouse is retired. SwFRET\_C indicates whether the respondent's spouse has completed the retirement process. RwFRET\_C indicates whether the respondent's spouse's previous report is disputed at the current interview or a later interview. SwRETEMP, SwFRET\_C, and SwFRET\_C are taken from the spouse's values of RwRETEMP, RwFRET\_C, and RwFRET\_C, respectively. In addition to the special missing values used in RwRETEMP, RwFRET\_C, and RwFRET\_C, SwRETEMP, SwFRET\_C, and SwFRET\_C employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

RwLBRF\_C is used to derive RwRETEMP and RwFRET\_C. RwLBRF\_C differs between waves. Please refer to RwLBRF\_C for the differences between waves of this harmonized variable.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they have completed retirement or receding position procedures, regardless of their response to the second question.

Starting at Wave 2, re-interview respondents who reported they have completed retirement or receding position procedures at the previous wave are not asked whether they have completed retirement or receding position procedures at the current wave.

Starting at Wave 4, the respondent re-interview respondents who reported they have completed retirement or receding position procedures at the previous wave are asked whether this answer was correct. Respondents can agree or disagree with their previous report. If the respondent previously reported they have completed retirement or receding position procedures and then disagrees with their previous report, they are then asked whether they have completed retirement or receding position procedures since the previous interview. If any previous report is disputed, the variable for the previous wave is changed based on the dispute.

### Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, whether retired is self-reported in the HRS where the respondent can report a retired status in addition to other statuses, such as working, disabled, or unemployed. In the CHARLS, there is no question where respondents self-identify as retired. Rather, the respondent is asked to report if they have completed the retirement procedures, internal retirement or receding position procedures.

### CHARLS Variables Used:

#### Wave 1:

FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FB012	Have you completed receding position procedures ?

#### Wave 2:

FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding position Status

#### Wave 3:

FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding Position Status

#### Wave 4:

FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM000_W4	Retirement Processed in the LastIW
XZF17	Updated ZF17
XZF18	Updated ZF18
XZF19	Updated ZF19
XZF20	Updated ZF20
XZF21	Updated ZF21
ZF17	(Preloaded from the LastIW) Retirement Processed
ZF18	(Preloaded from the LastIW) Internal Retirement Processed
ZF19	(Preloaded from the LastIW) Position Receding Processed
ZF20	(Preloaded from the LastIW) Internal Retirement Processed, but

ZF21

(Preloaded from the LastIW) No (Internal) Retirement or Recedin



<b>Whether Retired: Retirement Month and Year, if Says Retired</b>
--

Wave	Variable	Label	Type
1	R1RETMON	r1retmon:w1 r month retired/receded	Cont
2	R2RETMON	r2retmon:w2 r month retired/receded	Cont
3	R3RETMON	r3retmon:w3 r month retired/receded	Cont
4	R4RETMON	r4retmon:w4 r month retired/receded	Cont
1	S1RETMON	s1retmon:w1 s month retired/receded	Cont
2	S2RETMON	s2retmon:w2 s month retired/receded	Cont
3	S3RETMON	s3retmon:w3 s month retired/receded	Cont
4	S4RETMON	s4retmon:w4 s month retired/receded	Cont
1	R1RETYR	r1retyr:w1 r year retired/receded	Cont
2	R2RETYR	r2retyr:w2 r year retired/receded	Cont
3	R3RETYR	r3retyr:w3 r year retired/receded	Cont
4	R4RETYR	r4retyr:w4 r year retired/receded	Cont
1	S1RETYR	s1retyr:w1 s year retired/receded	Cont
2	S2RETYR	s2retyr:w2 s year retired/receded	Cont
3	S3RETYR	s3retyr:w3 s year retired/receded	Cont
4	S4RETYR	s4retyr:w4 s year retired/receded	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETMON	1715	6.91	3.57	1.00	12.00
R2RETMON	1988	6.96	3.53	1.00	12.00
R3RETMON	2330	6.95	3.51	1.00	12.00
R4RETMON	2606	6.90	3.53	1.00	12.00
S1RETMON	1405	6.88	3.59	1.00	12.00
S2RETMON	1659	6.92	3.54	1.00	12.00
S3RETMON	1965	6.95	3.51	1.00	12.00
S4RETMON	2163	6.88	3.53	1.00	12.00
R1RETYR	2167	1999.54	8.57	1945.00	2011.00
R2RETYR	2468	2001.03	8.99	1945.00	2013.00
R3RETYR	2607	2002.82	9.08	1956.00	2015.00
R4RETYR	2869	2004.91	9.93	1900.00	2018.00
S1RETYR	1764	2000.35	7.82	1960.00	2011.00
S2RETYR	2049	2001.80	8.46	1945.00	2013.00
S3RETYR	2173	2003.50	8.59	1956.00	2015.00
S4RETYR	2357	2005.90	9.19	1900.00	2018.00

### How Constructed:

RwRETMON and RwRETYR indicate the month and year the respondent completed the retirement process, respectively. RwRETMON and RwRETYR are derived only for respondents who report they have completed retirement procedures, internal retirement, or receding position procedures. Internal retirement involves retirement from government departments, enterprises and institutions, not including retirement in the sense of getting agricultural insurance. Receding position involves no longer able to work due to illness or disability but have not reached the required retirement age, length of service, or provided enough contributions to their pension fund to fully retire and receive a pension. After approval by a hospital official and the government, the respondent is able to receive a "receding position" stipend to help cover costs while they recover. Special missing value (.w) is assigned if the respondent reports not working for at least three months during their lifetime. Special missing value (.x) is assigned if the respondent reports they have not completed the retirement process. Special missing value (.i) is assigned if the respondent reports an invalid value (e.g. a retirement year that is in the future). Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwRETMON and RwRETYR are coded as blank missing (.) if the respondent did not respond to this wave.

Starting at Wave 2, re-interview respondents who reported they have completed retirement or receding position procedures at the previous wave are not asked whether they have completed retirement or receding position procedures at the current wave. If the respondent reports they have completed retirement or receding position procedures at the previous wave, `RwRETMON` and `RwRETYR` use the retirement month and year from the previous interview.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they have completed retirement or receding position procedures, regardless of their response to the second question.

`SwRETMON` and `SwRETYR` indicate the month and year the respondent's spouse completed the retirement process, respectively. `SwRETMON` and `SwRETYR` are taken from the spouse's values of `RwRETMON` and `RwRETYR`, respectively. In addition to the special missing values used in `RwRETMON` and `RwRETYR`, `SwRETMON` and `SwRETYR` employ two additional missing special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

`RwLBRF_C` is used to derive `RwRETMON` and `RwRETYR`. `RwLBRF_C` differs between waves. Please refer to `RwLBRF_C` for the differences between waves of this harmonized variable.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they have completed retirement or receding position procedures, regardless of their response to the second question.

Starting at Wave 2, re-interview respondents who reported they have completed retirement or receding position procedures at the previous wave are not asked whether they have completed retirement or receding position procedures at the current wave.

## Differences with the RAND HRS/Harmonized HRS

Please note that HRS asks if the respondent is completely or partially retired. CHARLS asks if the respondent is retired, internal retired or completed receding position procedures.

## CHARLS Variables Used:

Wave 1:

<code>FA007</code>	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
<code>FB011</code>	PROCESSED RETIREMENT
<code>FB012</code>	Have you completed receding position procedures ?
<code>FM005_1</code>	In what month and year did you recede from your position?
<code>FM005_2</code>	month
<code>FM011</code>	TYPE OF RETIREMENT
<code>FM014_1</code>	year
<code>FM014_2</code>	month
<code>FM025_1</code>	year
<code>FM025_2</code>	month
<code>FM030_1</code>	year
<code>FM030_2</code>	month

Wave 2:

FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM005_1	When Did You Recede from Position(Year)
FM005_2	When Did You Recede from Position(Month)
FM011	Type of Retirement
FM014_1	When Did You Process Retirement(Year)
FM014_2	When Did You Process Retirement(Month)
FM025_1	When Did You Take Internal Retirement(Year)
FM025_2	When Did You Take Internal Retirement(Month)
FM030_1	When Did You Process Formal Retirement(Year)
FM030_2	When Did You Process Formal Retirement(Month)
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding position Status

## Wave 3:

FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM005_1	When Did You Recede from Position(Year)
FM005_2	When Did You Recede from Position(Month)
FM011	Type of Retirement
FM014_1	When Did You Process Retirement(Year)
FM014_2	When Did You Process Retirement(Month)
FM025_1	When Did You Take Internal Retirement(Year)
FM025_2	When Did You Take Internal Retirement(Month)
FM030_1	When Did You Process Formal Retirement(Year)
FM030_2	When Did You Process Formal Retirement(Month)
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding Position Status

## Wave 4:

FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM000_W4	Retirement Processed in the LastIW
FM005_1	When Did You Receded from the Position (Year)
FM005_2	When Did You Receded from the Position (Month)
FM011	Type of Retirement
FM014_1	When Did You Process Retirement(Year)
FM014_2	When Did You Process Retirement(Month)
FM025_1	When Did You Take Internal Retirement(Year)
FM025_2	When Did You Take Internal Retirement(Month)
FM030_1	When Did You Process Formal Retirement(Year)
FM030_2	When Did You Process Formal Retirement(Month)
XZF17	Updated ZF17
XZF18	Updated ZF18
XZF19	Updated ZF19
XZF20	Updated ZF20
XZF21	Updated ZF21
ZF17	(Preloaded from the LastIW) Retirement Processed
ZF18	(Preloaded from the LastIW) Internal Retirement Processed
ZF19	(Preloaded from the LastIW) Position Receding Processed
ZF20	(Preloaded from the LastIW) Internal Retirement Processed, but
ZF21	(Preloaded from the LastIW) No (Internal) Retirement or Recedin

<b>Planned Retirement Year</b>
--------------------------------

Wave	Variable	Label	Type
1	R1RPLNYA	r1rplnya:w1 when r plans to stop work	Cont
2	R2RPLNYA	r2rplnya:w2 when r plans to stop work	Cont
3	R3RPLNYA	r3rplnya:w3 when r plans to stop work	Cont
4	R4RPLNYA	r4rplnya:w4 when r plans to stop work	Cont
1	S1RPLNYA	s1rplnya:w1 when s plans to stop work	Cont
2	S2RPLNYA	s2rplnya:w2 when s plans to stop work	Cont
3	S3RPLNYA	s3rplnya:w3 when s plans to stop work	Cont
4	S4RPLNYA	s4rplnya:w4 when s plans to stop work	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RPLNYA	2683	2019.67	6.37	2011.00	2066.00
R2RPLNYA	3304	2020.82	5.90	2013.00	2067.00
R3RPLNYA	4411	2023.02	6.04	2015.00	2062.00
R4RPLNYA	4728	2025.16	5.68	2018.00	2071.00
S1RPLNYA	2398	2019.75	6.20	2011.00	2056.00
S2RPLNYA	2964	2020.97	5.85	2013.00	2064.00
S3RPLNYA	3972	2023.24	6.06	2015.00	2062.00
S4RPLNYA	4257	2025.33	5.75	2018.00	2071.00

### How Constructed:

RwRPLNYA indicates the year the respondent plans to stop working. At Wave 1, special missing value (.e) is assigned if the respondent first reports not working for at least three months during their lifetime, and then changes their mind after CHARLS as them if they are sure that is correct. At Waves 1 to 3, special missing value (.s) is assigned if the respondent is not currently engaged in agricultural or non-agricultural work, but has worked for at least three months during their lifetime, and has not searched for a job during the past month. At Waves 1 to 3, special missing value (.h) is assigned if the respondent plans to keep working as long as they are physically capable. Starting at Wave 4, special missing value (.s) is assigned if the respondent is not currently engaged in agricultural or non-agricultural work, has not reported never working for at least three months during their lifetime, and has not searched for a job during the past month. Special missing value (.i) is assigned if the respondent reports an invalid value (e.g. a year that is in the past). Special missing value (.w) is assigned if the respondent reports not working for at least three months during their lifetime. Special missing value (.a) is assigned if the respondent report they have completed the retirement process. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RWRPLNYR and RWRPLNYA are coded as blank missing (.) if the respondent did not respond to this wave.

At all waves, CHARLS asks respondents when they plan to stop working. At all waves, respondents may either report an age when they plan to stop working or say they plan to keep working as long as they are physically capable. At Waves 1 to 3, a majority of respondents report planning to keep working as long as they are physically capable. However, according to the current release of CHARLS data, no respondents report planning to keep working as long as they are physically capable at Wave 4. This may contribute to the large number of missing values for RWRPLNYA at Wave 4.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them when they plan to process formal retirement or stop working, regardless of their response to the second question.

SwRPLNYA indicates the year the respondent's spouse plans to stop working. SwRPLNYA is taken from the spouse's value of RwPLNYA. In addition to the special missing values used in RwrPLNYA, SwRPLNYA employ two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

RwLBRF\_C is used to derive RwrPLNYA. RwLBRF\_C differs between waves. Please refer to RwLBRF\_C for the differences between waves of this harmonized variable.

At all waves, CHARLS asks respondents when they plan to stop working. At all waves, respondents may either report an age when they plan to stop working or say they plan to keep working as long as they are physically capable. At Waves 1 to 3, a majority of respondents report planning to keep working as long as they are physically capable. However, according to the current release of CHARLS data, no respondents report planning to keep working as long as they are physically capable at Wave 4.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them when they plan to process formal retirement or plan to stop working, regardless of their response to the second question.

## Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, CHARLS asked the retirement plan question four times separately in four different sub-modules at Waves 1 and 2: Household Agricultural Work, Fringe Benefits, Social insurance questions for the self-employed, and Unemployment and Job Search Activities. Similarly, Wave 3 asks this question in two sub-modules: Household Agricultural Work and Unemployment and Job Search Activities. Starting at Wave 4, CHARLS only asks this question in the Retirement sub-module.

## CHARLS Variables Used:

### Wave 1:

FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FA008	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FB012	Have you completed receding position procedures ?
FC018	AT WHAT AGE DO YOU PLAN TO STOP WORKING
FG015	AT WHAT AGE DO YOU PLAN TO STOP WORKING
FI012	AT WHAT AGE DO YOU PLAN TO RETIRE
FK002	search for a new job
FK003	WHEN DO YOU PLAN TO STOP WORKING

### Wave 2:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA006_w2_5	How Many Other Jobs Have You Been Doing from Last IWR?
FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC018	Expected Age Stop Working
FG015	Expected Age Stop Working
FI012	Expected Age Stop Working
FK002	Did You Search for a Job Last Month
FK003	Expected Age Stop Working
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding position Status

## Wave 3:

FA001	Engage in Agricultural Work for More Than 10 Days
FA002	Work for at Least One Hour Last Month
FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Other Leave
FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC018	Expected Age Stop Working
FK000_W3_2	Expected Age Stop Working
FK002	Did You Search for a Job Last Month
FK003	Expected Age Stop Working
ZF13	Working in LastIW
ZF14	Preload Working Status in LastIW
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding Position Status

## Wave 4:

FA003	Temporarily Laid off, on Sick or Other Leave, On-the-job Traini
FA006	Still Get Paid on the Job or Not
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FC001	Farm Employed or Not
FC008	Self-Employed (Household) Farm Work (for at Least One Month Las
FK000_W3_2	Expected Age When to Stop Working
FK002	Did You Search for a Job Last Month
FM000_W4	Retirement Processed in the LastIW
XZF17	Updated ZF17
XZF18	Updated ZF18
XZF19	Updated ZF19
XZF20	Updated ZF20
XZF21	Updated ZF21
ZF17	(Preloaded from the LastIW) Retirement Processed
ZF18	(Preloaded from the LastIW) Internal Retirement Processed
ZF19	(Preloaded from the LastIW) Position Receding Processed
ZF20	(Preloaded from the LastIW) Internal Retirement Processed, but
ZF21	(Preloaded from the LastIW) No (Internal) Retirement or Recedin

<b>Worked after Processed Retirement</b>
--

Wave	Variable	Label	Type
1	R1WKAFTRET	r1wkaf tret:w1 r worked after processed retirement	Categ
2	R2WKAFTRET	r2wkaf tret:w2 r worked after processed retirement	Categ
3	R3WKAFTRET	r3wkaf tret:w3 r worked after processed retirement	Categ
4	R4WKAFTRET	r4wkaf tret:w4 r worked after processed retirement	Categ
1	S1WKAFTRET	s1wkaf tret:w1 s worked after processed retirement	Categ
2	S2WKAFTRET	s2wkaf tret:w2 s worked after processed retirement	Categ
3	S3WKAFTRET	s3wkaf tret:w3 s worked after processed retirement	Categ
4	S4WKAFTRET	s4wkaf tret:w4 s worked after processed retirement	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WKAFTRET	2004	0.35	0.48	0.00	1.00
R2WKAFTRET	2104	0.51	0.50	0.00	1.00
R3WKAFTRET	2118	0.63	0.48	0.00	1.00
R4WKAFTRET	1753	0.83	0.37	0.00	1.00
S1WKAFTRET	1610	0.37	0.48	0.00	1.00
S2WKAFTRET	1763	0.51	0.50	0.00	1.00
S3WKAFTRET	1808	0.64	0.48	0.00	1.00
S4WKAFTRET	1498	0.83	0.37	0.00	1.00

### Categorical Variable Codes

Value-----	R1WKAFTRET	R2WKAFTRET	R3WKAFTRET	R4WKAFTRET
.d:dk	12			
.m:missing	421	870	1071	1357
.w Never worked	356	107	222	67
.x:Not formally retired	14915	15532	17686	16639
0.No	1296	1037	791	293
1.Yes	708	1067	1327	1460

  

Value-----	S1WKAFTRET	S2WKAFTRET	S3WKAFTRET	S4WKAFTRET
.d:dk	8			
.m:missing	283	621	761	1018
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w Never worked	264	81	172	50
.x:Not formally retired	12745	13115	14983	13796
0.No	1016	857	654	249
1.Yes	594	906	1154	1249

### How Constructed:

RwWKAFTRET indicates whether the respondent worked after they completed the retirement process. RwWKAFTRET is assigned 0 if the respondent reports not working after they completed the retirement process. RwWKAFTRET is assigned 1 if the respondent reports working after they completed the retirement process. Special missing value (.w) is assigned if the respondent reports not working for at least three months during their lifetime. Special missing value (.x) is assigned if the respondent reports they have not completed the retirement process. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwWKAFTRET is coded as blank missing (.) if the respondent did not respond to this wave.

Starting at Wave 2, re-interview respondents who reported they have worked after they completed the retirement process at a previous wave are not asked whether they have worked after they completed the retirement process at the current wave. If the respondent reports they have worked after they completed the retirement process at the previous wave, RwWKAFTRET is assigned 1.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they worked after they completed the retirement process, regardless of their response to the second question.

SwWKAFTRET indicates whether the respondent's spouse worked after they completed the retirement process. SwWKAFTRET is taken from the spouse's value of RwWKAFTRET. In addition to the special missing values used in RwWKAFTRET, SwWKAFTRET employs two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

RwLBRF\_C is used to derive RwWKAFTRET. RwLBRF\_C differs between waves. Please refer to RwLBRF\_C for the differences between waves of this harmonized variable.

Starting at Wave 2, re-interview respondents who reported they have worked after they completed the retirement process at a previous wave are not asked whether they have worked after they completed the retirement process at the current wave.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they worked after they completed the retirement process, regardless of their response to the second question.

## Differences with the RAND HRS/Harmonized HRS

Unlike the CHARLS, The HRS does not ask respondents who retired if they had worked after they processed retirement.

Please note that HRS asks if the respondent is completely or partially retired. CHARLS asks if the respondent is retired, internal retired or completed receding position procedures.

## CHARLS Variables Used:

### Wave 1:

FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FB012	Have you completed receding position procedures ?
FM052	Did you work after you processed [preload: normal retirement /
FM053	TAKING A BREAK BEFORE WORKING OR LOOKING FOR WORK AGAIN

### Wave 2:

FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM052	Did You Work After You Processed Retirement
FM052_W2	Did You Work in The Last Two Years
FM053	How Long Did You Start to Work Again
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding position Status

### Wave 3:

FA007	Ever Work 3 Months
-------	--------------------



FA008	Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM052	Did You Work After You Processed Retirement
FM052_W2	Did You Work in The Last Two Years
FM053	How Long Did You Start to Work Again
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding Position Status
Wave 4:	
FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM000_W4	Retirement Processed in the LastIW
FM052	Did You Work After You Processed Retirement
FM053	How Long Did You Start to Work Again After Retirement
XZF17	Updated ZF17
XZF18	Updated ZF18
XZF19	Updated ZF19
XZF20	Updated ZF20
XZF21	Updated ZF21
ZF17	(Preloaded from the LastIW) Retirement Processed
ZF18	(Preloaded from the LastIW) Internal Retirement Processed
ZF19	(Preloaded from the LastIW) Position Receding Processed
ZF20	(Preloaded from the LastIW) Internal Retirement Processed, but
ZF21	(Preloaded from the LastIW) No (Internal) Retirement or Recedin

<b>Reason for Early or Internal Retirement</b>
--

Wave	Variable	Label	Type
1	R1RETRS_C	r1retrs_c:w1 r reasons for early or internal retirement	Categ
2	R2RETRS_C	r2retrs_c:w2 r reasons for early or internal retirement	Categ
3	R3RETRS_C	r3retrs_c:w3 r reasons for early or internal retirement	Categ
4	R4RETRS_C	r4retrs_c:w4 r reasons for early or internal retirement	Categ
1	S1RETRS_C	s1retrs_c:w1 s reasons for early or internal retirement	Categ
2	S2RETRS_C	s2retrs_c:w2 s reasons for early or internal retirement	Categ
3	S3RETRS_C	s3retrs_c:w3 s reasons for early or internal retirement	Categ
4	S4RETRS_C	s4retrs_c:w4 s reasons for early or internal retirement	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETRS_C	468	3.07	1.37	1.00	5.00
R2RETRS_C	501	3.03	1.37	1.00	5.00
R3RETRS_C	614	2.98	1.40	1.00	5.00
R4RETRS_C	617	3.01	1.42	1.00	5.00
S1RETRS_C	402	3.03	1.35	1.00	5.00
S2RETRS_C	426	3.02	1.36	1.00	5.00
S3RETRS_C	527	2.97	1.41	1.00	5.00
S4RETRS_C	515	2.99	1.42	1.00	5.00

### Categorical Variable Codes

Value-----	R1RETRS_C	R2RETRS_C	R3RETRS_C	R4RETRS_C
.d:dk	2			
.m:missing	350	617	756	433
.n:Normal retirement	1628	1856	1865	2096
.r:refuse	1			
.w:Never worked	354	119	224	60
.x:Not formally retired	14905	15520	17638	16610
1.Reached age/terms agreeable	65	73	105	106
2.Redundant/company shut down	105	118	144	143
3.Personal health	151	155	175	166
4.Family reason	26	29	39	44
5.Other	121	126	151	158

Value-----	S1RETRS_C	S2RETRS_C	S3RETRS_C	S4RETRS_C
.d:dk	1			
.m:missing	209	434	535	316
.n:Normal retirement	1298	1523	1535	1702
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:Never worked	261	91	174	44
.x:Not formally retired	12738	13106	14953	13785
1.Reached age/terms agreeable	56	62	94	90
2.Redundant/company shut down	92	98	120	122
3.Personal health	135	138	151	139
4.Family reason	22	24	32	32
5.Other	97	104	130	132

### How Constructed:

RwRETRS\_C indicates the respondent's main reason for processing early or internal retirement. RwRETRS\_C is assigned 1 if the respondent retired because they had 30 years of work experience, which is enough for early retirement, their work unit belonged to the category of high-risk and hard manual labor and thus they were eligible for early retirement, or they were 5 years younger than the legal retirement age. RwRETRS\_C is assigned 2 if the respondent retired because their work

unit was restructuring or bankrupt. RWRRETRS\_C is assigned 3 if the respondent retired due to poor health. RWRRETRS\_C is assigned 4 if the respondent retired due to family reasons. RWRRETRS\_C is assigned 5 if the respondent retired due to other reasons. Special missing value (.w) is assigned if the respondent reports not working for at least three months during their lifetime. Special missing value (.x) is assigned if the respondent reports they have not completed the retirement process. Special missing value (.n) is assigned if the respondent processed normal retirement, so they were not asked the main reason they processed early or internal retirement. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RWRRETRS\_C is coded as blank missing (.) if the respondent did not respond to this wave.

SWRETRS\_C indicates whether the respondent's spouse's main reason for processing early or internal retirement. SWRETRS\_C is taken from the spouse's value of RWRRETRS\_C. In addition to the special missing values used in RWRRETRS\_C, SWRETRS\_C employs two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

RWLBRF\_C is used to derive RWRRETRS. RWLBRF\_C differs between waves. Please refer to RWLBRF\_C for the differences between waves of this harmonized variable.

At all waves, if the respondent is not currently engaged in agricultural or non-agricultural work and has never reported being engaged in agricultural or non-agricultural work at a previous wave (Wave 2 and forward), CHARLS asks them whether they have worked for at least three months during their lifetime. If the respondent reports not working for at least three months during their lifetime, CHARLS attempts to confirm this response. The respondent is reminded that work includes all kinds of labor, excluding doing their housework, whether they earn wages or not, and then CHARLS asks the respondent if they are sure they have not worked for at least three months during their lifetime. At Wave 1, if the respondent responds to the first question by reporting to have not worked for at least three months during their lifetime, CHARLS does not ask them whether they worked after they completed the retirement process, regardless of their response to the second question.

## Differences with the RAND HRS/Harmonized HRS

Please note that HRS asks if the respondent is completely or partially retired. CHARLS asks if the respondent is retired, internal retired or completed receding position procedures.

In the HRS, respondents are read a list of reasons why some people retire. They are then asked to report whether these reasons were very important reasons for retirement, moderately important, somewhat important, or not important at all.

In the CHARLS, respondents were asked to report their main reason for processing retirement if they had reported processing early retirement or internal retirement. Respondents who reported normal retirement were not asked about reasons for their retirement.

## CHARLS Variables Used:

### Wave 1:

FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FB012	Have you completed receding position procedures ?
FM011	TYPE OF RETIREMENT
FM015	THE MAIN REASON FOR EARLY RETIREMENT
FM026	THE MAIN REASON YOU PROCESSED INTERNAL RETIREMENT

### Wave 2:

FA007	Ever Work 3 Months
FA008	Sure Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM011	Type of Retirement
FM015	Reason You Processed Early Retirement
FM026	Reason You Processed Internal Retirement
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding position Status

### Wave 3:

FA007	Ever Work 3 Months
FA008	Never Work 3 Months
FB011	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM011	Type of Retirement
FM015	Reason You Processed Early Retirement
FM026	Reason You Processed Internal Retirement
ZF15	Preload LastIW Retirement Status
ZF16	Preload LastIW Receding Position Status

## Wave 4:

FA007	Ever Worked for Three Months or Not
FA008	Never Worked for Three Months or Not
FB011_W4	Completed Retirement Procedures or Internal Retirement
FB012	Completed Receding Position Procedures
FM000_W4	Retirement Processed in the LastIW
FM011	Type of Retirement
FM015	Reason You Processed Early Retirement
FM026	Reason You Processed Internal Retirement
XZF17	Updated ZF17
XZF18	Updated ZF18
XZF19	Updated ZF19
XZF20	Updated ZF20
XZF21	Updated ZF21
ZF17	(Preloaded from the LastIW) Retirement Processed
ZF18	(Preloaded from the LastIW) Internal Retirement Processed
ZF19	(Preloaded from the LastIW) Position Receding Processed
ZF20	(Preloaded from the LastIW) Internal Retirement Processed, but
ZF21	(Preloaded from the LastIW) No (Internal) Retirement or Recedin

## **Section J: Pension**

<b>Receives Any Public Pension</b>
------------------------------------

Wave	Variable	Label	Type
1	R1PUBPEN	r1pubpen:w1 r receives public pension	Categ
2	R2PUBPEN	r2pubpen:w2 r receives public pension	Categ
3	R3PUBPEN	r3pubpen:w3 r receives public pension	Categ
4	R4PUBPEN	r4pubpen:w4 r receives public pension	Categ
1	S1PUBPEN	s1pubpen:w1 s receives public pension	Categ
2	S2PUBPEN	s2pubpen:w2 s receives public pension	Categ
3	S3PUBPEN	s3pubpen:w3 s receives public pension	Categ
4	S4PUBPEN	s4pubpen:w4 s receives public pension	Categ
2	R2FPUBPEN	r2fpubpen:w2 flag: receives public pension	Categ
3	R3FPUBPEN	r3fpubpen:w3 flag: receives public pension	Categ
4	R4FPUBPEN	r4fpubpen:w4 flag: receives public pension	Categ
2	S2FPUBPEN	s2fpubpen:w2 flag: receives public pension	Categ
3	S3FPUBPEN	s3fpubpen:w3 flag: receives public pension	Categ
4	S4FPUBPEN	s4fpubpen:w4 flag: receives public pension	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUBPEN	17470	0.18	0.39	0.00	1.00
R2PUBPEN	18360	0.32	0.47	0.00	1.00
R3PUBPEN	20847	0.30	0.46	0.00	1.00
R4PUBPEN	19713	0.37	0.48	0.00	1.00
S1PUBPEN	14798	0.17	0.37	0.00	1.00
S2PUBPEN	15483	0.29	0.45	0.00	1.00
S3PUBPEN	17641	0.27	0.44	0.00	1.00
S4PUBPEN	16341	0.34	0.47	0.00	1.00
R2FPUBPEN	18360	0.33	0.48	0.00	2.00
R3FPUBPEN	20847	0.31	0.48	0.00	2.00
R4FPUBPEN	19713	0.38	0.51	0.00	2.00
S2FPUBPEN	15483	0.29	0.47	0.00	2.00
S3FPUBPEN	17641	0.28	0.46	0.00	2.00
S4FPUBPEN	16341	0.35	0.50	0.00	2.00

### Categorical Variable Codes

Value-----	R1PUBPEN	R2PUBPEN	R3PUBPEN	R4PUBPEN
.d:dk	38			
.m:missing	199	253	250	103
.r:refuse	1			
0.Not receiving	14292	12466	14544	12457
1.Currently receiving	3178	5894	6303	7256

Value-----	S1PUBPEN	S2PUBPEN	S3PUBPEN	S4PUBPEN
.d:dk	33			
.m:missing	79	97	83	21
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.Not receiving	12307	11043	12873	10780
1.Currently receiving	2491	4440	4768	5561

Value-----	R2FPUBPEN	R3FPUBPEN	R4FPUBPEN
0.Not receiving	12466	14544	12457
1.Receiving, with W1 types	5772	6155	6999
2.Receiving, with new types	122	148	257

Value-----	S2FPUBPEN	S3FPUBPEN	S4FPUBPEN
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
0.Not receiving	11043	12873	10780
1.Receiving, with W1 types	4342	4644	5346
2.Receiving, with new types	98	124	215

### How Constructed:

RwPUBPEN indicates whether the respondent is currently receiving a public pension without disability. RwPUBPEN is assigned 0 if the respondent does not report receiving a public pension without disability. RwPUBPEN is assigned 1 if the respondent reports receiving a public pension without disability. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwPUBPEN is coded as blank missing (.) if the respondent did not respond to this wave.

At Wave 1, public pension without disability is comprised of pension benefits from a social insurance agency, rural pension insurance, urban and rural resident pension insurance, urban resident pension insurance, pension subsidy for the oldest old, and new rural social pension insurance.

Starting at Wave 2, CHARLS no longer asks respondents about pension benefits from a social insurance agency. Starting at Wave 2, CHARLS asks respondents about pensions for land-expropriated farmers. At Wave 2, public pension without disability is comprised of rural pension insurance, urban and rural resident pension insurance, urban resident pension insurance, pension for land-expropriated farmers, pension subsidy for the oldest old, and new rural social pension insurance.

Starting at Wave 3, CHARLS no longer asks respondents about rural pension insurance. At Wave 3, public pension without disability is comprised of urban and rural resident pension insurance, urban resident pension insurance, pension for land-expropriated farmers, pension subsidy for the oldest old, and new rural social pension insurance.

Starting at Wave 4, CHARLS no longer asks respondents about pension subsidies for the oldest old. Starting at Wave 4, public pension without disability is comprised of urban and rural resident pension insurance, urban resident pension insurance, pension for land-expropriated farmers, and new rural social pension insurance.

RwFPUBPEN is a flag variable which indicates whether the respondent's value of RwPUBPEN is a result of receiving a pension from a program that was added to questionnaire after Wave 1. RwFPUBPEN is assigned 0 if the respondent does not report receiving a public pension without disability. RwFPUBPEN is assigned 1 if the respondent reports receiving a public pension without disability from a pension program that was included in the Wave 1 questionnaire. RwFPUBPEN is assigned 2 if the respondent reports only receiving a public pension without disability from a pension program that was added to the questionnaire at Wave 2 or later.

SwPUBPEN indicates whether the respondent's spouse is currently receiving a public pension without disability. SwFPUBPEN indicates whether the respondent's spouse's value in SwPUBPEN is a result of receiving a pension from a program that was added to the questionnaire after Wave 1. SwPUBPEN and SwFPUBPEN are taken from the spouse's values of RwPUBPEN and RwFPUBPEN, respectively. In addition to the special missing values used in RwPUBPEN and RwFPUBPEN, SwPUBPEN and SwFPUBPEN employ two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

Starting at Wave 2, CHARLS no longer asks respondents about pension benefits from a social insurance agency. Starting at Wave 2, CHARLS asks respondents about pensions for land-expropriated farmers.

Starting at Wave 3, CHARLS no longer asks respondents about rural pension insurance.

Starting at Wave 4, CHARLS no longer asks respondents about pension subsidies for the oldest old.

### Differences with the RAND HRS/Harmonized HRS

RwPUBPEN in the CHARLS is comparable to RASSRECV in the RAND HRS. While RwPUBPEN indicates whether

the respondent to CHARLS is receiving a public pension at each wave, RASSRECV indicates whether the respondent to HRS received social security income at any wave. Please note that CHARLS has a value for each wave of the study, while the HRS has a single value that encompasses all waves.

Components included in Harmonized CHARLS and RAND HRS is slightly different for public pensions representing different institutional arrangements in each country. However, we kept the concepts included as comparable as possible.

### CHARLS Variables Used:

#### Wave 1:

FM019S1	UNITS GIVING YOU PESION BENEFITS
FM019S2	UNITS GIVING YOU PESION BENEFITS
FM019S3	UNITS GIVING YOU PESION BENEFITS
FM019S4	UNITS GIVING YOU PESION BENEFITS
FM019S5	UNITS GIVING YOU PESION BENEFITS
FM033	Are you receiving pension benefits from the government, a previ
FN001	ARE YOU RECEIVING PENSION
FN002S1	TYPE OF PENSION
FN002S2	TYPE OF PENSION
FN002S3	TYPE OF PENSION
FN002S4	TYPE OF PENSION
FN002S5	TYPE OF PENSION
FN002S6	TYPE OF PENSION
FN002S7	TYPE OF PENSION
FN077	Did you start to receive pension benefit?

#### Wave 2:

FN001_W2S13	Are You Currently Participating/Receiving Following Pension
FN057_W2S1	Are You Currently Participating/Receiving Rural Pension
FN057_W2S2	Are You Currently Participating/Receiving Residents' Pension
FN057_W2S3	Are You Currently Participating/Receiving Urban Residents' Pens
FN057_W2S4	Are You Currently Participating/Receiving Following Pension
FN058_W2_1_	You Are Currently Participating or Receiving Rural Pension
FN058_W2_2_	You Are Currently Participating or Receiving Residents' Pension
FN058_W2_3_	You Are Currently Participating or Receiving Urban Residents' P
FN069_W2	Do You Participate in The New Rural Socail Pension Insurance
FN075_W2	Did You Start to Receive Benefits
FN079_W2_3	Are You Participation/Receiving Land Requisition Pension Benefi
FN080_W2	Are You Receiving The Pension Subsidy for The Oldest Old

#### Wave 3:

FN057_W3S1	Have New Rural Socail Pension Insurance?
FN057_W3S2	Have Residents' Pension?
FN057_W3S3	Have Urban Residents' Pension?
FN057_W3S4	Have Any Pension Insurance above?
FN058_W2_1_	You Are Currently Participating or Receiving New Rural Pension
FN058_W2_2_	You Are Currently Participating or Receiving Residents' Pension
FN058_W2_3_	You Are Currently Participating or Receiving Urban Residents' P
FN079_W2_3	Are You Participation/Receiving Land Requisition Pension Benefi
FN080_W2	Are You Receiving The Pension Subsidy for The Oldest Old

#### Wave 4:

FN057_W4_4	Old Enough to Receive Pension
FN058_W4	Residents/Newrural/Urban Residents Pension
FN058_W4_A	Which Pension
FN058_W4_B	Currently Receiving the Pension
FN069_W4	Eligible to Receive or Participate in Social Endowment Insuran
FN079_W2_3	Particcate in Land Expropriation Pension Insurance



<b>Age When Started to Receive Current Public Pension</b>
---

Wave	Variable	Label	Type
1	R1PUBAGE	r1pubage:w1 r age starts to receive public pension	Cont
2	R2PUBAGE	r2pubage:w2 r age starts to receive public pension	Cont
3	R3PUBAGE	r3pubage:w3 r age starts to receive public pension	Cont
4	R4PUBAGE	r4pubage:w4 r age starts to receive public pension	Cont
1	S1PUBAGE	s1pubage:w1 s age starts to receive public pension	Cont
2	S2PUBAGE	s2pubage:w2 s age starts to receive public pension	Cont
3	S3PUBAGE	s3pubage:w3 s age starts to receive public pension	Cont
4	S4PUBAGE	s4pubage:w4 s age starts to receive public pension	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUBAGE	2818	62.47	9.57	6.00	99.00
R2PUBAGE	5459	66.30	7.72	13.00	100.00
R3PUBAGE	5389	64.74	7.53	10.00	111.00
R4PUBAGE	7176	62.94	6.41	13.00	100.00
S1PUBAGE	2195	61.56	8.66	10.00	99.00
S2PUBAGE	4154	65.08	6.71	18.00	91.00
S3PUBAGE	4154	63.62	6.58	13.00	111.00
S4PUBAGE	5514	62.04	5.41	30.00	91.00

### How Constructed:

RwPUBAGE indicates the age the respondent started to receive their current public pension without disability. At all waves, if the respondent reports receiving a pension, CHARLS then asks them when they started to receive this pension, even if the respondent reported this information at a previous interview. RwPUBAGE is derived by subtracting the respondent's birth year from the year that they first received their public pension. If the respondent reported receiving multiple public pensions, the earliest date of all the pensions received is used to calculate RwPUBAGE. Special missing value (.x) is assigned if the respondent does not report receiving a public pension. Special missing value (.i) is assigned if the respondent reported an invalid value for the year they first started to receive their public pension (e.g. a year that is in the past). Don't know, refused, and missing assigned special missing values (.d), (.r), and (.m), respectively. RwPUBAGE is coded as blank missing (.) if the respondent did not respond to this wave.

SwPUBAGE indicates the age the respondent's spouse started to receive their current public pension without disability. SwPUBAGE is taken from the spouse's value of RwPUBAGE. In addition to the special missing values used in RwPUBAGE, SwPUBAGE employs two additional missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

RwPUBPEN is used to derive RwPUBAGE. RwPUBPEN differs between waves. Please refer to RwPUBPEN for the differences between waves of this harmonized variable.

### Differences with the RAND HRS/Harmonized HRS

RwPENAGE in the CHARLS is comparable to RASSAGEB in the RAND HRS. Please note that CHARLS has a value for each wave of the study, while the HRS has a single value that encompasses all waves.

Additionally, the HRS asks respondents the single age they began receiving Social Security, while CHARLS asks what year the respondent began receiving each public pension, and the earliest year reported is used to calculate RwPENAGE for CHARLS.

### CHARLS Variables Used:

## Wave 1:

FM018\_1 year  
 FM019S1 UNITS GIVING YOU PESION BENEFITS  
 FM019S2 UNITS GIVING YOU PESION BENEFITS  
 FM019S3 UNITS GIVING YOU PESION BENEFITS  
 FM019S4 UNITS GIVING YOU PESION BENEFITS  
 FM019S4 UNITS GIVING YOU PESION BENEFITS  
 FM033 Are you receiving pension benefits from the government, a previ  
 FN001 ARE YOU RECEIVING PENSION  
 FN002S1 TYPE OF PENSION  
 FN002S2 TYPE OF PENSION  
 FN002S3 TYPE OF PENSION  
 FN002S4 TYPE OF PENSION  
 FN002S5 TYPE OF PENSION  
 FN002S6 TYPE OF PENSION  
 FN002S7 TYPE OF PENSION  
 FN012\_1 year  
 FN017\_1 year  
 FN077 Did you start to receive pension benefit?  
 FN078\_1 Year

## Wave 2:

FN001\_W2S13 Are You Currently Participating/Receiving Following Pension  
 FN057\_W2S1 Are You Currently Participating/Receiving Rural Pension  
 FN057\_W2S2 Are You Currently Participating/Receiving Residents' Pension  
 FN057\_W2S3 Are You Currently Participating/Receiving Urban Residents' Pens  
 FN057\_W2S4 Are You Currently Participating/Receiving Following Pension  
 FN058\_W2\_1\_ You Are Currently Participating or Receiving Rural Pension  
 FN058\_W2\_2\_ You Are Currently Participating or Receiving Residents' Pension  
 FN058\_W2\_3\_ You Are Currently Participating or Receiving Urban Residents' P  
 FN067\_W2\_1\_1\_ When Did You Start to Receive This Pension Benefits(Year)(Rural  
 FN067\_W2\_1\_2\_ When Did You Start to Receive This Pension Benefits(Year)(Resid  
 FN067\_W2\_1\_3\_ When Did You Start to Receive This Pension Benefits(Year)(Urban  
 FN069\_W2 Do You Participate in The New Rural Socail Pension Insurance  
 FN075\_W2 Did You Start to Receive Benefits  
 FN076\_W2\_1 When Did You Start to Receive Pension Benefits(Year)  
 FN079\_W2\_10\_1 When Did You Start to Receive The Benefits(Year)  
 FN079\_W2\_3 Are You Participation/Receiving Land Requisition Pension Benefi  
 FN080\_W2 Are You Receiving The Pension Subsidy for The Oldest Old  
 FN081\_W2\_1 When Did You Start to Receive The Benefits(Year)

## Wave 3:

FN057\_W3S1 Have New Rural Socail Pension Insurance?  
 FN057\_W3S2 Have Residents' Pension?  
 FN057\_W3S3 Have Urban Residents' Pension?  
 FN057\_W3S4 Have Any Pension Insurance above?  
 FN058\_W2\_1\_ You Are Currently Participating or Receiving New Rural Pension  
 FN058\_W2\_2\_ You Are Currently Participating or Receiving Residents' Pension  
 FN058\_W2\_3\_ You Are Currently Participating or Receiving Urban Residents' P  
 FN067\_W2\_1\_1\_ When Did You Start to Receive This Pension Benefits(Year)(New R  
 FN067\_W2\_1\_2\_ When Did You Start to Receive This Pension Benefits(Year)(Resid  
 FN067\_W2\_1\_3\_ When Did You Start to Receive This Pension Benefits(Year)(Urban  
 FN079\_W2\_10\_1 When Did You Start to Receive The Benefits(Year)  
 FN079\_W2\_3 Are You Participation/Receiving Land Requisition Pension Benefi  
 FN080\_W2 Are You Receiving The Pension Subsidy for The Oldest Old  
 FN081\_W2\_1 When Did You Start to Receive The Benefits(Year)

## Wave 4:

FN057\_W4\_4 Old Enough to Receive Pension  
 FN058\_W4 Residents/Newrural/Urban Residents Pension  
 FN058\_W4\_A Which Pension  
 FN058\_W4\_B Currently Receiving the Pension  
 FN067\_W2\_1 Year of Receive Pension  
 FN069\_W4 Eligible to Receive or Participate in Social Endowment Insuran  
 FN079\_W2\_10\_1 Year of Receive Pension  
 FN079\_W2\_3 Particate in Land Expropriation Pension Insurance

**Currently Receiving Any Private (Including Occupational) Pension**

Wave	Variable	Label	Type
1	R1PENINC	r1peninc:w1 r receives private pension	Categ
2	R2PENINC	r2peninc:w2 r receives private pension	Categ
3	R3PENINC	r3peninc:w3 r receives private pension	Categ
4	R4PENINC	r4peninc:w4 r receives private pension	Categ
1	S1PENINC	s1peninc:w1 s receives private pension	Categ
2	S2PENINC	s2peninc:w2 s receives private pension	Categ
3	S3PENINC	s3peninc:w3 s receives private pension	Categ
4	S4PENINC	s4peninc:w4 s receives private pension	Categ
2	R2FPENINC	r2fpeninc:w2 r flag: receives private pension	Categ
3	R3FPENINC	r3fpeninc:w3 r flag: receives private pension	Categ
4	R4FPENINC	r4fpeninc:w4 r flag: receives private pension	Categ
2	S2FPENINC	s2fpeninc:w2 s flag: receives private pension	Categ
3	S3FPENINC	s3fpeninc:w3 s flag: receives private pension	Categ
4	S4FPENINC	s4fpeninc:w4 s flag: receives private pension	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PENINC	17468	0.07	0.26	0.00	1.00
R2PENINC	18349	0.12	0.33	0.00	1.00
R3PENINC	20861	0.08	0.27	0.00	1.00
R4PENINC	19713	0.14	0.35	0.00	1.00
S1PENINC	14796	0.07	0.26	0.00	1.00
S2PENINC	15473	0.12	0.33	0.00	1.00
S3PENINC	17646	0.08	0.27	0.00	1.00
S4PENINC	16341	0.14	0.34	0.00	1.00
R2FPENINC	18349	0.23	0.62	0.00	2.00
R3FPENINC	20861	0.16	0.53	0.00	2.00
R4FPENINC	19713	0.27	0.67	0.00	2.00
S2FPENINC	15473	0.23	0.62	0.00	2.00
S3FPENINC	17646	0.16	0.53	0.00	2.00
S4FPENINC	16341	0.26	0.67	0.00	2.00

**Categorical Variable Codes**

Value-----	R1PENINC	R2PENINC	R3PENINC	R4PENINC
.d:dk	40			
.m:missing	199	264	236	103
.r:refuse	1			
0.Not receiving	16169	16105	19172	16970
1.Currently receiving	1299	2244	1689	2743

Value-----	S1PENINC	S2PENINC	S3PENINC	S4PENINC
.d:dk	35			
.m:missing	79	107	78	21
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.Not receiving	13743	13588	16218	14113
1.Currently receiving	1053	1885	1428	2228

Value-----	R2FPENINC	R3FPENINC	R4FPENINC
0.Not receiving	16105	19172	16970
1.Receiving, with W1 types	304	128	214
2.Receiving, with new types	1940	1561	2529

Value-----	S2FPENINC	S3FPENINC	S4FPENINC
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
0.Not receiving	13588	16218	14113
1.Receiving, with W1 types	251	113	183
2.Receiving, with new types	1634	1315	2045

### How Constructed:

RwPENINC indicates whether the respondent is currently receiving a private (including occupational) pension. RwPENINC is assigned 0 if the respondent does not report receiving a private pension. RwPENINC is assigned 1 if the respondent reports receiving a private pension. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwPENINC is coded as blank missing (.) if the respondent did not respond to this wave.

At Wave 1, private pension is comprised of pension benefits from the government or a previous work unit, enterprise supplementary pension insurance (supplementary pension insurance of the firm), and commercial pension insurance.

Starting at Wave 2, CHARLS no longer asks respondents about pension benefits from a previous work unit. Starting at Wave 2, CHARLS asks respondents about enterprise establishment employee pension, and basic pension insurance for enterprise employees. At Wave 2, private pension is comprised of pensions for government agencies (public servants), enterprise establishment employee pension, basic pension insurance for enterprise employees, enterprise supplementary pension insurance, and commercial pension insurance.

At Wave 3, CHARLS does not ask about enterprise supplementary pension insurance. At Wave 3, CHARLS asks about supplementary pension insurance for government agencies, institutions, or enterprises. At Wave 3, private pension is comprised of pensions for government agencies (public servants), enterprise establishment employee pension, basic pension insurance for enterprise employees, supplementary pension insurance for government agencies, institutions, or enterprises, and commercial pension insurance.

Starting at Wave 4, CHARLS no longer asks respondents enterprise establishment employee pension. Starting at Wave 4, CHARLS asks respondents about pensions for public institution employees, supplemental pension for public servants, supplemental pension for public institution employees. Starting at Wave 4, private pension is comprised of pension for government agencies (public servants), pension for public institution employees, basic pension for enterprise employees, supplemental pension for government agencies (public servants), supplemental pension for public institution employees, enterprise supplementary pension insurance, and commercial pension insurance.

RwFPENINC is a flag variable which indicates whether the respondent's value in RwPENINC is a result of receiving a private pension from a program that was added to the questionnaire after Wave 1. RwFPENINC is assigned 0 if the respondent does not report receiving a private pension. RwFPENINC is assigned 1 if the respondent reports receiving a private pension from a pension program that was included in the Wave 1 questionnaire. RwFPENINC is assigned 2 if the respondent reports only receiving a private pension from a pension program that was added to the questionnaire at Wave 2 or later.

SwPENINC indicates whether the respondent's spouse is currently receiving a private (including occupational) pension. SwFPENINC indicates whether the respondent's spouse's value in SwPENINC is a result of receiving a pension from a program that was added to the questionnaire after Wave 1. SwPENINC and SwFPENINC are taken from the spouse's values of RwPENINC and RwFPENINC, respectively. In addition to the special missing values used in RwPENINC and RwFPENINC, SwPENINC and SwFPENINC employ two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

Starting at Wave 2, CHARLS no longer asks respondents about pension benefits from a previous work unit. Starting at Wave 2, CHARLS asks respondents about enterprise establishment employee pension, and basic pension insurance for enterprise employees.

At Wave 3, CHARLS does not ask about enterprise supplementary pension insurance. At Wave 3, CHARLS asks about supplementary pension insurance for government agencies, institutions, or enterprises.

Starting at Wave 4, CHARLS no longer asks respondents enterprise establishment employee pension. Starting at Wave 4, CHARLS asks respondents about pensions for public institution employees, supplemental pension for public servants, supplemental pension for public institution employees.

### Differences with the RAND HRS/Harmonized HRS

Components included in Harmonized CHARLS and RAND HRS are slightly different for private pensions representing different institutional arrangements in each country. However, we kept the concepts included as comparable as possible.

### CHARLS Variables Used:

#### Wave 1:

FM019S1	UNITS GIVING YOU PESION BENEFITS
FM019S2	UNITS GIVING YOU PESION BENEFITS
FM019S3	UNITS GIVING YOU PESION BENEFITS
FM019S4	UNITS GIVING YOU PESION BENEFITS
FM019S5	UNITS GIVING YOU PESION BENEFITS
FM033	Are you receiving pension benefits from the government, a previ
FN001	ARE YOU RECEIVING PENSION
FN002S1	TYPE OF PENSION
FN002S2	TYPE OF PENSION
FN002S3	TYPE OF PENSION
FN002S4	TYPE OF PENSION
FN002S5	TYPE OF PENSION
FN002S6	TYPE OF PENSION
FN002S7	TYPE OF PENSION

#### Wave 2:

FN001_W2S13	Are You Currently Participating/Receiving Following Pension
FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN002_W2S4	Are You Currently Receiving Following Pension?
FN030_W2	Are You Currently Participating/Receiving Supplement Pension of
FN043_W2	Are You Currently Participating/Receiving Commercial Pension In

#### Wave 3:

FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN002_W3	Did You Have Pension of Government, Institutions and Firms
FN030_W2	Are You Currently Participating/Receiving Supplement Pension
FN043_W2	Are You Currently Participating/Receiving Commercial Pension In

#### Wave 4:

FN002_W4_A_S1	Government Pension
FN002_W4_A_S2	Institutions Pension
FN002_W4_A_S3	Firm Pension
FN002_W4_A_S4	Don't Know the Type
FN002_W4_B_1_	Receive Government Pension
FN002_W4_B_2_	Receive Institutions Pension
FN002_W4_B_3_	Receive Firm Pension
FN002_W4_B_4_	Receive Government/Institutions/Firm Pension
FN030_W4	Receive/Particate Supplemental Pension
FN030_W4_A	Supplemental Pension
FN031_W4	Currently Receiving the Supplemental Pension
FN043_W4	Receive/Particate in Commercial Pension

<b>Currently Receiving Other Pension</b>
--

Wave	Variable	Label	Type
1	R1OTHPEN	r1othpen:w1 r receives other pension	Categ
2	R2OTHPEN	r2othpen:w2 r receives other pension	Categ
3	R3OTHPEN	r3othpen:w3 r receives other pension	Categ
4	R4OTHPEN	r4othpen:w4 r receives other pension	Categ
1	S1OTHPEN	s1othpen:w1 s receives other pension	Categ
2	S2OTHPEN	s2othpen:w2 s receives other pension	Categ
3	S3OTHPEN	s3othpen:w3 s receives other pension	Categ
4	S4OTHPEN	s4othpen:w4 s receives other pension	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OTHPEN	17469	0.02	0.14	0.00	1.00
R2OTHPEN	18337	0.00	0.05	0.00	1.00
R3OTHPEN	20808	0.00	0.06	0.00	1.00
R4OTHPEN	19713	0.01	0.08	0.00	1.00
S1OTHPEN	14797	0.02	0.13	0.00	1.00
S2OTHPEN	15467	0.00	0.05	0.00	1.00
S3OTHPEN	17617	0.00	0.05	0.00	1.00
S4OTHPEN	16341	0.01	0.08	0.00	1.00

### Categorical Variable Codes

Value-----	R1OTHPEN	R2OTHPEN	R3OTHPEN	R4OTHPEN
.d:dk	39			
.m:missing	199	276	289	103
.r:refuse	1			
0.Not receiving	17144	18296	20742	19577
1.Currently receiving	325	41	66	136

Value-----	S1OTHPEN	S2OTHPEN	S3OTHPEN	S4OTHPEN
.d:dk	34			
.m:missing	79	113	107	21
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.Not receiving	14531	15432	17566	16236
1.Currently receiving	266	35	51	105

### How Constructed:

RwOTHPEN indicates whether a respondent is currently receiving a pension from a source that is not included in the questionnaire. RwOTHPEN is assigned 0 if the respondent does not report receiving a pension from a source that is not included in the questionnaire. RwOTHPEN is assigned 1 if the respondent reports receiving a pension from a source that is not included in the questionnaire. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwOTHPEN is coded as blank missing (.) if the respondent did not respond to this wave.

SwOTHPEN indicates whether the respondent's spouse is currently receiving a pension from a source that is not included in the questionnaire. SwOTHPEN is taken from the spouse's value of RwOTHPEN. In addition to the special missing values used in RwOTHPEN, SwOTHPEN employs two additional missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

No differences known.

**Differences with the RAND HRS/Harmonized HRS**

This variable is not available in the RAND HRS.

**CHARLS Variables Used:**

## Wave 1:

FM019S1	UNITS GIVING YOU PENSION BENEFITS
FM019S2	UNITS GIVING YOU PENSION BENEFITS
FM019S3	UNITS GIVING YOU PENSION BENEFITS
FM019S4	UNITS GIVING YOU PENSION BENEFITS
FM019S5	UNITS GIVING YOU PENSION BENEFITS
FM033	Are you receiving pension benefits from the government, a previ
FN001	ARE YOU RECEIVING PENSION
FN002S1	TYPE OF PENSION
FN002S2	TYPE OF PENSION
FN002S3	TYPE OF PENSION
FN002S4	TYPE OF PENSION
FN002S5	TYPE OF PENSION
FN002S6	TYPE OF PENSION
FN002S7	TYPE OF PENSION

## Wave 2:

FN083_W2	Are You Currently Participatin Or Receiving Other Pension
----------	---

## Wave 3:

FN083_W2	Are You Currently Participatin Or Receiving Other Pension
----------	---

## Wave 4:

FN083_W2	Other Pension Program
FN084_W4	Receive Pension

<b>Pension from Current Job</b>
---------------------------------

Wave	Variable	Label	Type
1	R1JCPEN	r1jcpen:w1 r any pension from current job	Categ
2	R2JCPEN	r2jcpen:w2 r any pension from current job	Categ
3	R3JCPEN	r3jcpen:w3 r any pension from current job	Categ
4	R4JCPEN	r4jcpen:w4 r any pension from current job	Categ
1	S1JCPEN	s1jcpen:w1 s any pension from current job	Categ
2	S2JCPEN	s2jcpen:w2 s any pension from current job	Categ
3	S3JCPEN	s3jcpen:w3 s any pension from current job	Categ
4	S4JCPEN	s4jcpen:w4 s any pension from current job	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JCPEN	10410	0.04	0.19	0.00	1.00
R2JCPEN	11272	0.00	0.03	0.00	1.00
R3JCPEN	13202	0.01	0.11	0.00	1.00
R4JCPEN	11882	0.07	0.25	0.00	1.00
S1JCPEN	9392	0.04	0.20	0.00	1.00
S2JCPEN	10039	0.00	0.03	0.00	1.00
S3JCPEN	11814	0.01	0.11	0.00	1.00
S4JCPEN	10533	0.07	0.25	0.00	1.00

### Categorical Variable Codes

Value	R1JCPEN	R2JCPEN	R3JCPEN	R4JCPEN
.d:dk	16			
.g:Working, receiving pension		548	383	682
.m:missing	458	570	689	104
.r:refuse	1			
.w:Not working	6394	6223	6823	7148
.x:Working, completed retirement procedure	429			
0.No	10004	11264	13041	11082
1.Yes	406	8	161	800

  

Value	S1JCPEN	S2JCPEN	S3JCPEN	S4JCPEN
.d:dk	15			
.g:Working, receiving pension		488	342	598
.m:missing	269	352	446	21
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.w:Not working	4853	4701	5122	5210
.x:Working, completed retirement procedure	380			
0.No	9020	10032	11665	9801
1.Yes	372	7	149	732

### How Constructed:

RwJCPEN indicates whether the respondent is enrolled in a pension program through their current job. RwJCPEN is assigned 0 if the respondent does not report being enrolled in a pension program through their current job. RwJCPEN is assigned 1 if the respondent reports being enrolled in a pension program through their current job. Special missing value (.w) is assigned if the respondent is not currently working per their labor force status. At Wave 1, special missing value (.x) is assigned if the respondent reports they have completed retirement procedures (including early retirement) or internal retirement. At Waves 2 and 3, special missing value (.g) is assigned if the respondent reports receiving a pension for government agencies (public servants), enterprise establishment employee pension, and/or basic pension insurance for enterprise employees. Starting at Wave 4, special missing value (.g) is assigned if the respondent reports receiving a pension for government agencies (public servants), pension for public institution employees, and/or basic



pension for enterprise employees. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwjCPEN is coded as blank missing (.) if the respondent did not respond to this wave.

SwJCPEN indicates whether the respondent's spouse is enrolled in a pension program through their current job. SwJCPEN is taken from the spouse's value of RwjCPEN. In addition to the special missing values used in RwjCPEN, SwJCPEN employs two additional missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, all respondents who report that they have worked for at least three months in their lifetime and have not completed retirement procedures or internal retirement are asked whether they are enrolled in a government and public institutions pension program or corporate basic pension insurance. If the respondent reports that they are enrolled in a government and public institutions pension program or corporate basic pension insurance, CHARLS then asks them to report the work unit where they received this pension. Respondents are given the option to report they received the pension from their current work unit, their last work unit, the work unit that processed their retirement, or none of the above.

At Waves 2 and 3, all respondents who did not report they are currently receiving a pension for government agencies, enterprise establishment employee pension, or basic pension insurance for enterprise employees are asked whether they are currently enrolled in a government and public institution pension program or basic pension insurance for enterprise employees. If the respondent reports that they are enrolled in a government and public institutions pension program or basic pension insurance for enterprise employees, CHARLS then asks them to report the work unit where they received this pension. Respondents are given the option to report they received the pension from their current work unit, their last work unit, the work unit that processed their retirement, or none of the above.

Starting at Wave 4, all respondents who report they participate in but do not currently receive a pension for public servants, pension for public institution employees, or basic pension for enterprise employees are asked whether they participate in the pension plan by themselves or through their employer.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

FA007	HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
FB011	PROCESSED RETIREMENT
FN024	Are you enrolled in pension program of the government and insti
FN025	work units where you get the pension insurance you just told us

### Wave 2:

FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN006_W2	Are You Enrolled in Pension Program of Gov.&Inst. Or Basic Pens
FN007_W2_1_	From Which Work Unit Did You Get The Pension(From Government an
FN007_W2_2_	From Which Work Unit Did You Get The Pension(Form Firms)

### Wave 3:

FN002_W2S1	Are You Currently Receiving Pension Program of The Government?
FN002_W2S2	Are You Currently Receiving Pension Program of Staffing of Gove
FN002_W2S3	Are You Currently Receiving Pension Insurance of The Firms?
FN002_W3	Did You Have Pension of Government, Institutions and Firms
FN006_W2	Are You Enrolled in Pension Program of Gov.&Inst. Or Basic Pens
FN007_W2_1_	From Which Employer Did You Get The Pension(From Government and
FN007_W2_2_	From Which Employer Did You Get The Pension(Form Firms)

### Wave 4:

FN002_W4	Receive/Participate Government/Institutions/Firm Pension
FN002_W4_A_S1	Government Pension
FN002_W4_A_S2	Institutions Pension
FN002_W4_A_S3	Firm Pension

---

FN002_W4_A_S4	Don't Know the Type
FN002_W4_B_1_	Receive Government Pension
FN002_W4_B_2_	Receive Institutions Pension
FN002_W4_B_3_	Receive Firm Pension
FN002_W4_B_4_	Receive Government/Institutions/Firm Pension
FN008_W4_1_	Participate Pension by Yourself or through Company
FN008_W4_2_	Participate Pension by Yourself or through Company
FN008_W4_3_	Participate Pension by Yourself or through Company
FN008_W4_4_	Participate Pension by Yourself or through Company



## **Section K: Physical Measures**

<b>Timed Walk Measurements</b>
--------------------------------

Wave	Variable	Label	Type
1	R1WSPEED1	r1wspeed1:w1 r time for walking speed test 1(sec)	Cont
2	R2WSPEED1	r2wspeed1:w2 r time for walking speed test 1(sec)	Cont
3	R3WSPEED1	r3wspeed1:w3 r time for walking speed test 1(sec)	Cont
1	S1WSPEED1	s1wspeed1:w1 s time for walking speed test 1(sec)	Cont
2	S2WSPEED1	s2wspeed1:w2 s time for walking speed test 1(sec)	Cont
3	S3WSPEED1	s3wspeed1:w3 s time for walking speed test 1(sec)	Cont
1	R1WSPEED2	r1wspeed1:w1 r time for walking speed test 2(sec)	Cont
2	R2WSPEED2	r2wspeed1:w2 r time for walking speed test 2(sec)	Cont
3	R3WSPEED2	r3wspeed1:w3 r time for walking speed test 2(sec)	Cont
1	S1WSPEED2	s1wspeed2:w1 s time for walking speed test 2(sec)	Cont
2	S2WSPEED2	s2wspeed2:w2 s time for walking speed test 2(sec)	Cont
3	S3WSPEED2	s3wspeed2:w3 s time for walking speed test 2(sec)	Cont
1	R1WSPEED	r1wspeed:w1 r average time for walking speed test(sec)	Cont
2	R2WSPEED	r2wspeed:w2 r average time for walking speed test(sec)	Cont
3	R3WSPEED	r3wspeed:w3 r average time for walking speed test(sec)	Cont
1	S1WSPEED	s1wspeed:w1 s average time for walking speed test(sec)	Cont
2	S2WSPEED	s2wspeed:w2 s average time for walking speed test(sec)	Cont
3	S3WSPEED	s3wspeed:w3 s average time for walking speed test(sec)	Cont
1	R1WALKCOMP	r1walkcomp:w1 r willing and able to complete walking speed t	Categ
2	R2WALKCOMP	r2walkcomp:w2 r willing and able to complete walking speed t	Categ
3	R3WALKCOMP	r3walkcomp:w3 r willing and able to complete walking speed t	Categ
1	S1WALKCOMP	s1walkcomp:w1 s willing and able to complete walking speed t	Categ
2	S2WALKCOMP	s2walkcomp:w2 s willing and able to complete walking speed t	Categ
3	S3WALKCOMP	s3walkcomp:w3 s willing and able to complete walking speed t	Categ
1	R1WALKFLR_C	r1walkflr_c:w1 floor surface r's walking speed test	Categ
2	R2WALKFLR_C	r2walkflr_c:w2 floor surface r's walking speed test	Categ
3	R3WALKFLR_C	r3walkflr_c:w3 floor surface r's walking speed test	Categ
1	S1WALKFLR_C	s1walkflr_c:w1 floor surface s's walking speed test	Categ
2	S2WALKFLR_C	s2walkflr_c:w2 floor surface s's walking speed test	Categ
3	S3WALKFLR_C	s3walkflr_c:w3 floor surface s's walking speed test	Categ
1	R1WALKAID	r1walkaid:w1 type aid used during r's walking speed test	Categ
2	R2WALKAID	r2walkaid:w2 type aid used during r's walking speed test	Categ
3	R3WALKAID	r3walkaid:w3 type aid used during r's walking speed test	Categ
1	S1WALKAID	s1walkaid:w1 type aid used during s's walking speed test	Categ
2	S2WALKAID	s2walkaid:w2 type aid used during s's walking speed test	Categ
3	S3WALKAID	s3walkaid:w3 type aid used during s's walking speed test	Categ
1	R1WALKCOMPL	r1walkcompl:w1 r compliance walking speed test	Categ
2	R2WALKCOMPL	r2walkcompl:w2 r compliance walking speed test	Categ
3	R3WALKCOMPL	r3walkcompl:w3 r compliance walking speed test	Categ
1	S1WALKCOMPL	s1walkcompl:w1 s compliance walking speed test	Categ
2	S2WALKCOMPL	s2walkcompl:w2 s compliance walking speed test	Categ
3	S3WALKCOMPL	s3walkcompl:w3 s compliance walking speed test	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WSPEED1	5770	4.85	2.58	0.02	40.30
R2WSPEED1	6385	4.31	2.22	0.00	57.00
R3WSPEED1	8076	3.78	2.14	0.02	57.31

S1WSPEED1	4468	4.65	2.41	0.02	40.30
S2WSPEED1	5029	4.19	2.17	0.00	57.00
S3WSPEED1	6349	3.61	1.75	0.02	57.10
R1WSPEED2	5769	4.63	2.48	0.03	45.11
R2WSPEED2	6379	4.07	2.00	0.00	41.20
R3WSPEED2	8076	3.60	1.91	0.02	48.86
S1WSPEED2	4469	4.46	2.32	0.03	45.11
S2WSPEED2	5025	3.96	1.91	0.00	41.20
S3WSPEED2	6350	3.45	1.65	0.02	48.86
R1WSPEED	5742	4.74	2.47	0.03	41.85
R2WSPEED	6379	4.19	2.00	0.00	39.24
R3WSPEED	8070	3.69	1.99	0.02	52.98
S1WSPEED	4448	4.55	2.29	0.03	41.85
S2WSPEED	5025	4.07	1.92	0.00	31.35
S3WSPEED	6344	3.53	1.66	0.02	52.98
R1WALKCOMP	6261	0.93	0.26	0.00	1.00
R2WALKCOMP	6736	0.95	0.22	0.00	1.00
R3WALKCOMP	8368	0.97	0.18	0.00	1.00
S1WALKCOMP	4812	0.93	0.25	0.00	1.00
S2WALKCOMP	5272	0.95	0.21	0.00	1.00
S3WALKCOMP	6561	0.97	0.17	0.00	1.00
R1WALKFLR_C	5824	2.95	1.49	1.00	6.00
R2WALKFLR_C	6397	2.73	1.50	1.00	6.00
R3WALKFLR_C	8084	2.40	1.50	1.00	6.00
S1WALKFLR_C	4506	2.95	1.49	1.00	6.00
S2WALKFLR_C	5038	2.71	1.49	1.00	6.00
S3WALKFLR_C	6356	2.38	1.50	1.00	6.00
R1WALKAID	5823	1.02	0.21	1.00	5.00
R2WALKAID	6395	1.02	0.17	1.00	5.00
R3WALKAID	8079	1.02	0.18	1.00	5.00
S1WALKAID	4506	1.02	0.21	1.00	5.00
S2WALKAID	5036	1.01	0.13	1.00	5.00
S3WALKAID	6354	1.01	0.14	1.00	5.00
R1WALKCOMPL	5823	1.00	0.08	1.00	3.00
R2WALKCOMPL	6396	1.00	0.04	1.00	3.00
R3WALKCOMPL	8081	1.00	0.06	1.00	3.00
S1WALKCOMPL	4505	1.00	0.08	1.00	3.00
S2WALKCOMPL	5037	1.00	0.01	1.00	2.00
S3WALKCOMPL	6354	1.00	0.05	1.00	3.00

### Categorical Variable Codes

Value-----	R1WALKCOMP	R2WALKCOMP	R3WALKCOMP
.m:missing	154	128	161
.s:skip	19171	18722	17057
0.no	463	350	285
1.yes	5798	6386	8083

Value-----	S1WALKCOMP	S2WALKCOMP	S3WALKCOMP
.m:missing	130	108	134
.s:skip	9968	10200	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	322	242	205

1.yes	4490	5030	6356
Value-----	R1WALKFLR_C	R2WALKFLR_C	R3WALKFLR_C
.d:dk	2		5
.m:missing	142	125	171
.n:not willing or able	444	344	266
.r:refuse	4		3
.s:skip	19170	18720	17057
1.linoleum/tile/wood	2028	2678	4305
2.carpet	12	9	3
3.clay	377	239	116
4.concrete	3220	3393	3624
5.not sure	24	5	2
6.other	163	73	34
Value-----	S1WALKFLR_C	S2WALKFLR_C	S3WALKFLR_C
.d:dk	1		3
.m:missing	123	104	138
.n:not willing or able	309	239	196
.r:refuse	3		2
.s:skip	9968	10199	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.linoleum/tile/wood	1569	2127	3422
2.carpet	11	8	2
3.clay	285	186	92
4.concrete	2492	2662	2811
5.not sure	20	4	2
6.other	129	51	27
Value-----	R1WALKAID	R2WALKAID	R3WALKAID
.d:dk	2		6
.m:missing	142	127	172
.n:not willing or able	444	344	266
.r:refuse	5		6
.s:skip	19170	18720	17057
1.none	5745	6314	7927
2.walking stick/cane	64	71	140
3.elbow crutches	1	3	3
4.walking frame	1		5
5.other	12	7	4
Value-----	S1WALKAID	S2WALKAID	S3WALKAID
.d:dk	1		3
.m:missing	123	106	138
.n:not willing or able	309	239	196
.r:refuse	3		4
.s:skip	9968	10199	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.none	4467	4998	6277
2.walking stick/cane	28	34	71
3.elbow crutches		1	2
4.walking frame	1		3
5.other	10	3	1
Value-----	R1WALKCOMPL	R2WALKCOMPL	R3WALKCOMPL
.d:dk	1		3
.m:missing	142	126	175
.n:not willing or able	448	344	267
.r:refuse	2		3
.s:skip	19170	18720	17057
1.fully compliant	5801	6391	8063
2.prevented from being fully compliant	16	4	15
3.not fully compliant	6	1	3
Value-----	S1WALKCOMPL	S2WALKCOMPL	S3WALKCOMPL
.d:dk	1		2
.m:missing	123	105	139

.n:not willing or able	311	239	197
.r:refuse	2		3
.s:skip	9968	10199	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.fully compliant	4492	5036	6344
2.prevented from being fully compliant	8	1	8
3.not fully compliant	5		2

### How Constructed:

RwWSPEED1 and RwWSPEED2 indicate the number of seconds the respondent takes to walk 2.5 meters along a 4 meter, non-carpeted walking course during their first and second trials, respectively. RwWSPEED indicates the average of the first and second walking speed of the respondent in seconds. Special missing .s is assigned to respondents who did not have their biomarker measurements taken, or if the walking speed tests were skipped because the respondent was under the age of 60. Special missing .n is assigned if the respondent had a recent surgery, injury, or other health condition that would prevent them from walking or if the respondent did not understand the directions for the measurement. Special missing .x is assigned if the respondent tried but was unable to complete the measurement. Special missing .i is assigned if the time provided for the walking speed tests was 100 seconds or greater. Don't know, refused, or other missing responses for the walking tests are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwWSPEED1, SwWSPEED2, and SwWSPEED indicate the first, second, and average walking speed of the respondent's current wave's spouse, and are taken from RwWSPEED1, RwWSPEED2, and RwWSPEED. In addition to the special missing codes used for RwWSPEED1, RwWSPEED2, and RwWSPEED, SwWSPEED1, SwWSPEED2, and SwWSPEED employ two other missing codes, .u and .v. A special missing value of .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that some extreme values may remain in RwWSPEED1, RwWSPEED2, and RwWSPEED and have been left to the discretion of the user.

RwWALKCOMP indicates whether the respondent was willing and able to complete the walking speed tests. RwWALKCOMP is coded as 1 if the respondent did not report any surgery, injury, or other health conditions that might prevent them from walking, was willing to participate, felt safe doing the test, there was a suitable space available, and the respondent completed at least one walking speed test. RwWALKCOMP is coded as 0 if the respondent had a recent surgery, injury, or other health conditions that prevented them from walking, did not understand the instructions, refused to complete the walking speed tests, or the respondent failed to complete any walking speed tests. Special missing .s is assigned to respondents who did not have their biomarker measurements taken, or if the walking speed tests were skipped because the respondent was under the age of 60. Don't know, refused, or other missing responses for the walking tests are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwWALKCOMP indicates whether the respondent's current wave's spouse was willing and able to complete the walking speed test, and its values are taken from RwWALKCOMP. In addition to the special missing codes employed by RwWALKCOMP, SwWALKCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwWALKFLR\_C indicates the floor surface for the respondent's walking speed tests. RwWALKFLR\_C is coded as follows: 1.linoleum/tile/wood, 2.carpet, 3.clay, 4.concrete, 5.not sure, 6.other. RwWALKAID indicates what type of aid the respondent used during the walking speed tests. RwWALKAID is coded as follows: 1.none, 2.walking stick/cane, 3.elbow crutches, 4.walking frame, 5.other. RwWALKCOMPL indicates the respondent's compliance in completing the walking speed tests. RwWALKCOMPL is coded as follows: 1.fully compliant, 2.prevented from being fully compliant due to illness, pain, or other symptoms or discomforts, 3.not fully compliant, no obvious reason for this. Special missing .s is assigned to RwWALKFLR\_C and RwWALKAID if respondents did not have their biomarker measurements taken, or if the walking speed tests were skipped because the respondent was under the age of 60. Special missing .n is assigned to these variables if the respondent had a recent surgery, injury, or other health condition that would prevent them from walking or if the respondent did not understand the directions for the measurement. Don't know, refused, or other missing responses for the walking tests are assigned special missing codes .d, .r, .m,



respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwWALKFLR\_C, SwWALKAID, and SwWALKCOMPL indicate the floor surface, walking aid used, and the respondent's spouse's compliance during the respondent's spouse's walking speed tests, and their values taken from RwwALKFLR\_C, RwwALKAID, and RwwALKCOMPL. In addition to the special missing codes used for RwwALKFLR\_C, RwwALKAID, and RwwALKCOMPL, SwWALKFLR\_C, SwWALKAID, and SwWALKCOMPL employ two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including timed walk measurements.

## Differences with the RAND HRS/Harmonized HRS

The HRS conducts walking speed tests on respondents aged 65 and older, whereas the CHARLS conducts walking speed tests on respondents aged 60 and older.

The HRS and the CHARLS use different floor type categories for walking speed tests. The HRS uses the following floor categories: 1.linoleum/tile/wood, 2.low-pile carpet, 3.high-pile carpet, 4.concrete, 5.not sure, and 6.other. The CHARLS uses the following floor categories: 1.linoleum/tile/wood, 2.carpet, 3.clay, 4.concrete, 5.not sure, and 6.other. Because of the difference in categorization, the variable in the Harmonized CHARLS indicating floor surface for walking speed tests ends with "\_C".

Both the HRS and CHARLS conduct the walking speed test at a distance of 2.5 meters or 98.5 inches. However, the HRS sets up their walking course in a total area of 12 feet, while the CHARLS sets up their walking course in a total area of 4 meters (approximately 13.1 feet).

The walking speed tests are available starting in wave 7 of the HRS, with corresponding variables in the Harmonized HRS, while the walking speed tests are available in waves 1, 2, and 3 of CHARLS, with corresponding variables in the Harmonized CHARLS.

Both HRS and CHARLS ask how compliant the respondent was during the walking speed tests, which is presented as RwwALKCOMPL in the Harmonized HRS and the Harmonized CHARLS. However, the HRS stops asking this question and begins asking whether the respondent completed the walking speed tests as directed.

## CHARLS Variables Used:

### Wave 1:

BA002_1	Birth Year
BA002_2	Birth Month
BA004	Age
IMONTH	interview month
IYEAR	interview year
PG002	SAFE OR NOT
PG003	UNDERSTAND THE DIRECTIONS OR NOT
QG002	Walking Speed Time-1
QG003	Walking Speed Time-2
QG004	type of floor surface.
QG005	type of aid used

### Wave 2:

BA002_1	When were You Born:Year
BA002_2	When were You Born:Month
BA004	Your Age
IMONTH	Interview Month
IYEAR	Interview Year
PG002	Safe or Not
PG003	Understand The Directions or Not
QG002	Walking Speed Time-1
QG003	Walking Speed Time-2
QG004	Type of Floor Surface.
QG005	Type of Aid Used

### Wave 3:

BA002	When were Your Born
-------	---------------------

---

BA002_1	When were You Born: Year
BA002_2	When were You Born: Month
BA002_3	When were You Born: Day
BA004_W3_1	Birth Time on ID Card or Hukou:Year
BA004_W3_2	Birth Time on ID Card or Hukou:Month
BA004_W3_3	Birth Time on ID Card or Hukou:Day
IMONTH	Interview Month
IYEAR	Interview Year
PG002	SAFE OR NOT
PG003	UNDERSTAND THE DIRECTIONS OR NOT
QG002	Walking Speed Time-1
QG003	Walking Speed Time-2
QG004	The Type of Floor Surface
QG005	type of aid used

<b>Timed Walk Measurements: Reasons Didn't Complete</b>
---

Wave	Variable	Label	Type
1	R1WALKSFT	r1walksft:w1 r didn't complete walking: unsafe/health reason	Categ
2	R2WALKSFT	r2walksft:w2 r didn't complete walking: unsafe/health reason	Categ
3	R3WALKSFT	r3walksft:w3 r didn't complete walking: unsafe/health reason	Categ
1	S1WALKSFT	s1walksft:w1 s didn't complete walking: unsafe/health reason	Categ
2	S2WALKSFT	s2walksft:w2 s didn't complete walking: unsafe/health reason	Categ
3	S3WALKSFT	s3walksft:w3 s didn't complete walking: unsafe/health reason	Categ
1	R1WALKREF	r1walkref:w1 r didn't complete walking: refused	Categ
2	R2WALKREF	r2walkref:w2 r didn't complete walking: refused	Categ
3	R3WALKREF	r3walkref:w3 r didn't complete walking: refused	Categ
1	S1WALKREF	s1walkref:w1 s didn't complete walking: refused	Categ
2	S2WALKREF	s2walkref:w2 s didn't complete walking: refused	Categ
3	S3WALKREF	s3walkref:w3 s didn't complete walking: refused	Categ
1	R1WALKTRYU	r1walktryu:w1 r didn't complete walking: tried but unable	Categ
2	R2WALKTRYU	r2walktryu:w2 r didn't complete walking: tried but unable	Categ
3	R3WALKTRYU	r3walktryu:w3 r didn't complete walking: tried but unable	Categ
1	S1WALKTRYU	s1walktryu:w1 s didn't complete walking: tried but unable	Categ
2	S2WALKTRYU	s2walktryu:w2 s didn't complete walking: tried but unable	Categ
3	S3WALKTRYU	s3walktryu:w3 s didn't complete walking: tried but unable	Categ
1	R1WALKEQUP	r1walkequp:w1 r didn't complete walking: faulty equipment/sp	Categ
2	R2WALKEQUP	r2walkequp:w2 r didn't complete walking: faulty equipment/sp	Categ
3	R3WALKEQUP	r3walkequp:w3 r didn't complete walking: faulty equipment/sp	Categ
1	S1WALKEQUP	s1walkequp:w1 s didn't complete walking: faulty equipment/sp	Categ
2	S2WALKEQUP	s2walkequp:w2 s didn't complete walking: faulty equipment/sp	Categ
3	S3WALKEQUP	s3walkequp:w3 s didn't complete walking: faulty equipment/sp	Categ
1	R1WALKOTHR	r1walkothr:w1 r didn't complete walking: other reason	Categ
2	R2WALKOTHR	r2walkothr:w2 r didn't complete walking: other reason	Categ
3	R3WALKOTHR	r3walkothr:w3 r didn't complete walking: other reason	Categ
1	S1WALKOTHR	s1walkothr:w1 s didn't complete walking: other reason	Categ
2	S2WALKOTHR	s2walkothr:w2 s didn't complete walking: other reason	Categ
3	S3WALKOTHR	s3walkothr:w3 s didn't complete walking: other reason	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKSFT	462	0.65	0.48	0.00	1.00
R2WALKSFT	360	0.74	0.44	0.00	1.00
R3WALKSFT	295	0.86	0.34	0.00	1.00
S1WALKSFT	322	0.65	0.48	0.00	1.00
S2WALKSFT	251	0.73	0.44	0.00	1.00
S3WALKSFT	214	0.88	0.33	0.00	1.00
R1WALKREF	462	0.08	0.26	0.00	1.00
R2WALKREF	360	0.03	0.18	0.00	1.00
R3WALKREF	295	0.03	0.18	0.00	1.00
S1WALKREF	322	0.07	0.26	0.00	1.00
S2WALKREF	251	0.03	0.16	0.00	1.00
S3WALKREF	214	0.03	0.18	0.00	1.00
R1WALKTRYU	462	0.05	0.23	0.00	1.00
R2WALKTRYU	360	0.03	0.18	0.00	1.00
R3WALKTRYU	295	0.07	0.26	0.00	1.00

S1WALKTRYU	322	0.05	0.21	0.00	1.00
S2WALKTRYU	251	0.03	0.18	0.00	1.00
S3WALKTRYU	214	0.04	0.19	0.00	1.00
R1WALKEQUP	462	0.21	0.41	0.00	1.00
R2WALKEQUP	360	0.19	0.39	0.00	1.00
R3WALKEQUP	295	0.04	0.19	0.00	1.00
S1WALKEQUP	322	0.23	0.42	0.00	1.00
S2WALKEQUP	251	0.20	0.40	0.00	1.00
S3WALKEQUP	214	0.04	0.19	0.00	1.00
R1WALKOTHR	462	0.08	0.27	0.00	1.00
R2WALKOTHR	360	0.06	0.23	0.00	1.00
R3WALKOTHR	295	0.08	0.27	0.00	1.00
S1WALKOTHR	322	0.07	0.25	0.00	1.00
S2WALKOTHR	251	0.06	0.23	0.00	1.00
S3WALKOTHR	214	0.08	0.27	0.00	1.00

### Categorical Variable Codes

Value-----	R1WALKSFT	R2WALKSFT	R3WALKSFT
.c:completed test	5786	6375	8066
.d:dk	3		5
.m:missing	160	128	161
.r:refuse	4		2
.s:skip	19171	18723	17057
0.no	163	95	40
1.yes	299	265	255

Value-----	S1WALKSFT	S2WALKSFT	S3WALKSFT
.c:completed test	4479	5020	6342
.d:dk	3		3
.m:missing	135	108	134
.r:refuse	3		2
.s:skip	9968	10201	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	113	67	26
1.yes	209	184	188

Value-----	R1WALKREF	R2WALKREF	R3WALKREF
.c:completed test	5786	6375	8066
.d:dk	3		5
.m:missing	160	128	161
.r:refuse	4		2
.s:skip	19171	18723	17057
0.no	427	348	285
1.yes	35	12	10

Value-----	S1WALKREF	S2WALKREF	S3WALKREF
.c:completed test	4479	5020	6342
.d:dk	3		3
.m:missing	135	108	134
.r:refuse	3		2
.s:skip	9968	10201	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	298	244	207
1.yes	24	7	7

Value-----	R1WALKTRYU	R2WALKTRYU	R3WALKTRYU
.c:completed test	5786	6375	8066
.d:dk	3		5
.m:missing	160	128	161

.r:refuse	4		2
.s:skip	19171	18723	17057
0.no	437	348	274
1.yes	25	12	21
Value-----	S1WALKTRYU	S2WALKTRYU	S3WALKTRYU
.c:completed test	4479	5020	6342
.d:dk	3		3
.m:missing	135	108	134
.r:refuse	3		2
.s:skip	9968	10201	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	307	243	206
1.yes	15	8	8
Value-----	R1WALKEQUP	R2WALKEQUP	R3WALKEQUP
.c:completed test	5786	6375	8066
.d:dk	3		5
.m:missing	160	128	161
.r:refuse	4		2
.s:skip	19171	18723	17057
0.no	366	293	284
1.yes	96	67	11
Value-----	S1WALKEQUP	S2WALKEQUP	S3WALKEQUP
.c:completed test	4479	5020	6342
.d:dk	3		3
.m:missing	135	108	134
.r:refuse	3		2
.s:skip	9968	10201	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	249	202	206
1.yes	73	49	8
Value-----	R1WALKOTHR	R2WALKOTHR	R3WALKOTHR
.c:completed test	5786	6375	8066
.d:dk	3		5
.m:missing	160	128	161
.r:refuse	4		2
.s:skip	19171	18723	17057
0.no	425	339	271
1.yes	37	21	24
Value-----	S1WALKOTHR	S2WALKOTHR	S3WALKOTHR
.c:completed test	4479	5020	6342
.d:dk	3		3
.m:missing	135	108	134
.r:refuse	3		2
.s:skip	9968	10201	11029
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	301	237	197
1.yes	21	14	17

### How Constructed:

RwWALKSFT, RwWALKREF, RwWALKTRYU, RwWALKEQUP, and RwWALKOTHR indicate the reasons for the respondent not completing the walking speed tests as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the walking tests. RwWALKSFT indicates whether the respondent did not complete the walking tests because they felt it would not be safe, or the interviewer felt it would be unsafe, or due to a health condition of the respondent that prevented them from walking. RwWALKREF indicates whether the respondent did not complete the walking tests because the respondent refused or was not willing to complete the test. RwWALKTRYU indicates whether the respondent did not complete the walking tests because the respondent tried but was unable to complete the test. RwWALKEQUP indicates whether the respondent did not complete the walking tests because there was a problem with the equipment or supplies, or there was no

suitable space available. RwwALKOTHR indicates whether the respondent did not complete the walking tests because the respondent did not understand the instructions or because of another reason. RwwALKSFT, RwwALKREF, RwwALKTRYU, RwwALKEQUP, and RwwALKOTHR are coded as 0 if the specific reason was not given for the respondent not completing the walking tests, and are coded as 1 if the specific reason was given. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken, or if the walking speed tests were skipped because the respondent was under the age of 60. Special missing .c is assigned if the respondent completed at least one of the walking tests. Don't know, refused, or other missing responses to RwwALKSFT, RwwALKREF, RwwALKTRYU, RwwALKEQUP, and RwwALKOTHR are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwWALKSFT, SwWALKREF, SwWALKTRYU, SwWALKEQUP, and SwWALKOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the walking speed tests, and their values are taken from the spouse's values to RwwALKSFT, RwwALKREF, RwwALKTRYU, RwwALKEQUP, and RwwALKOTHR. In addition to the special missing codes employed by RwwALKSFT, RwwALKREF, RwwALKTRYU, RwwALKEQUP, and RwwALKOTHR, SwWALKSFT, SwWALKREF, SwWALKTRYU, SwWALKEQUP, and SwWALKOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including timed walk measurements.

## Differences with the RAND HRS/Harmonized HRS

The HRS conducts walking speed tests on respondents aged 65 and older, whereas the CHARLS conducts walking speed tests on respondents aged 60 and older.

Both the HRS and CHARLS conduct the walking speed test at a distance of 2.5 meters or 98.5 inches. However, the HRS sets up their walking course in a total area of 12 feet, while the CHARLS sets up their walking course in a total area of 4 meters (approximately 13.1 feet).

The walking speed tests are available starting in wave 7 of the HRS, with corresponding variables in the Harmonized HRS, while the walking speed tests are available in waves 1, 2, and 3 of CHARLS, with corresponding variables in the Harmonized CHARLS.

## CHARLS Variables Used:

### Wave 1:

BA002_1	Birth Year
BA002_2	Birth Month
BA004	Age
IMONTH	interview month
IYEAR	interview year
QG001S1	Why didn't R complete the WALKING SPEED measurement?
QG001S2	Why didn't R complete the WALKING SPEED measurement?
QG001S3	Why didn't R complete the WALKING SPEED measurement?
QG001S4	Why didn't R complete the WALKING SPEED measurement?
QG001S5	Why didn't R complete the WALKING SPEED measurement?
QG001S6	Why didn't R complete the WALKING SPEED measurement?
QG001S7	Why didn't R complete the WALKING SPEED measurement?
QG001S8	Why didn't R complete the WALKING SPEED measurement?
QG001S97	Why didn't R complete the WALKING SPEED measurement?
QG002	Walking Speed Time-1
QG003	Walking Speed Time-2

### Wave 2:

BA002_1	When were You Born:Year
BA002_2	When were You Born:Month
BA004	Your Age
IMONTH	Interview Month
IYEAR	Interview Year
QG001S1	Why didn't R Complete
QG001S2	Why didn't R Complete
QG001S3	Why didn't R Complete
QG001S4	Why didn't R Complete
QG001S5	Why didn't R Complete

QG001S6	Why didn't R Complete
QG001S7	Why didn't R Complete
QG001S8	Why didn't R Complete
QG001S97	Why didn't R Complete
QG002	Walking Speed Time-1
QG003	Walking Speed Time-2
Wave 3:	
BA002	When were Your Born
BA002_1	When were You Born: Year
BA002_2	When were You Born: Month
BA002_3	When were You Born: Day
BA004_W3_1	Birth Time on ID Card or Hukou:Year
BA004_W3_2	Birth Time on ID Card or Hukou:Month
BA004_W3_3	Birth Time on ID Card or Hukou:Day
IMONTH	Interview Month
IYEAR	Interview Year
QG001S1	Why Didn't R Complete The Walking Speed Measurement?
QG001S2	Why Didn't R Complete The Walking Speed Measurement?
QG001S3	Why Didn't R Complete The Walking Speed Measurement?
QG001S4	Why Didn't R Complete The Walking Speed Measurement?
QG001S5	Why Didn't R Complete The Walking Speed Measurement?
QG001S6	Why Didn't R Complete The Walking Speed Measurement?
QG001S7	Why Didn't R Complete The Walking Speed Measurement?
QG001S8	Why Didn't R Complete The Walking Speed Measurement?
QG001S97	Why Didn't R Complete The Walking Speed Measurement?
QG002	Walking Speed Time-1
QG003	Walking Speed Time-2

<b>Blood Pressure Measurements</b>
------------------------------------

Wave	Variable	Label	Type
1	R1SYSTO1	r1systo1:w1 r blood pressure measure (systolic) 1	Cont
2	R2SYSTO1	r2systo1:w2 r blood pressure measure (systolic) 1	Cont
3	R3SYSTO1	r3systo1:w3 r blood pressure measure (systolic) 1	Cont
1	S1SYSTO1	s1systo1:w1 s blood pressure measure (systolic) 1	Cont
2	S2SYSTO1	s2systo1:w2 s blood pressure measure (systolic) 1	Cont
3	S3SYSTO1	s3systo1:w3 s blood pressure measure (systolic) 1	Cont
1	R1SYSTO2	r1systo2:w1 r blood pressure measure (systolic) 2	Cont
2	R2SYSTO2	r2systo2:w2 r blood pressure measure (systolic) 2	Cont
3	R3SYSTO2	r3systo2:w3 r blood pressure measure (systolic) 2	Cont
1	S1SYSTO2	s1systo2:w1 s blood pressure measure (systolic) 2	Cont
2	S2SYSTO2	s2systo2:w2 s blood pressure measure (systolic) 2	Cont
3	S3SYSTO2	s3systo2:w3 s blood pressure measure (systolic) 2	Cont
1	R1SYSTO3	r1systo3:w1 r blood pressure measure (systolic) 3	Cont
2	R2SYSTO3	r2systo3:w2 r blood pressure measure (systolic) 3	Cont
3	R3SYSTO3	r3systo3:w3 r blood pressure measure (systolic) 3	Cont
1	S1SYSTO3	s1systo3:w1 s blood pressure measure (systolic) 3	Cont
2	S2SYSTO3	s2systo3:w2 s blood pressure measure (systolic) 3	Cont
3	S3SYSTO3	s3systo3:w3 s blood pressure measure (systolic) 3	Cont
1	R1SYSTO	r1systo:w1 r average blood pressure measure (systolic) 2 & 3	Cont
2	R2SYSTO	r2systo:w2 r average blood pressure measure (systolic) 2 & 3	Cont
3	R3SYSTO	r3systo:w3 r average blood pressure measure (systolic) 2 & 3	Cont
1	S1SYSTO	s1systo:w1 s average blood pressure measure (systolic) 2 & 3	Cont
2	S2SYSTO	s2systo:w2 s average blood pressure measure (systolic) 2 & 3	Cont
3	S3SYSTO	s3systo:w3 s average blood pressure measure (systolic) 2 & 3	Cont
1	R1DIASTO1	r1diastol1:w1 r blood pressure measure (diastolic) 1	Cont
2	R2DIASTO1	r2diastol1:w2 r blood pressure measure (diastolic) 1	Cont
3	R3DIASTO1	r3diastol1:w3 r blood pressure measure (diastolic) 1	Cont
1	S1DIASTO1	s1diastol1:w1 s blood pressure measure (diastolic) 1	Cont
2	S2DIASTO1	s2diastol1:w2 s blood pressure measure (diastolic) 1	Cont
3	S3DIASTO1	s3diastol1:w3 s blood pressure measure (diastolic) 1	Cont
1	R1DIASTO2	r1diasto2:w1 r blood pressure measure (diastolic) 2	Cont
2	R2DIASTO2	r2diasto2:w2 r blood pressure measure (diastolic) 2	Cont
3	R3DIASTO2	r3diasto2:w3 r blood pressure measure (diastolic) 2	Cont
1	S1DIASTO2	s1diasto2:w1 s blood pressure measure (diastolic) 2	Cont
2	S2DIASTO2	s2diasto2:w2 s blood pressure measure (diastolic) 2	Cont
3	S3DIASTO2	s3diasto2:w3 s blood pressure measure (diastolic) 2	Cont
1	R1DIASTO3	r1diasto3:w1 r blood pressure measure (diastolic) 3	Cont
2	R2DIASTO3	r2diasto3:w2 r blood pressure measure (diastolic) 3	Cont
3	R3DIASTO3	r3diasto3:w3 r blood pressure measure (diastolic) 3	Cont
1	S1DIASTO3	s1diasto3:w1 s blood pressure measure (diastolic) 3	Cont
2	S2DIASTO3	s2diasto3:w2 s blood pressure measure (diastolic) 3	Cont
3	S3DIASTO3	s3diasto3:w3 s blood pressure measure (diastolic) 3	Cont
1	R1DIASTO	r1diasto:w1 r average blood pressure measure (diastolic) 2 &	Cont
2	R2DIASTO	r2diasto:w2 r average blood pressure measure (diastolic) 2 &	Cont
3	R3DIASTO	r3diasto:w3 r average blood pressure measure (diastolic) 2 &	Cont
1	S1DIASTO	s1diasto:w1 s average blood pressure measure (diastolic) 2 &	Cont
2	S2DIASTO	s2diasto:w2 s average blood pressure measure (diastolic) 2 &	Cont
3	S3DIASTO	s3diasto:w3 s average blood pressure measure (diastolic) 2 &	Cont



1	R1PULSE1	r1pulse1:w1	r pulse measure 1	Cont
2	R2PULSE1	r2pulse1:w2	r pulse measure 1	Cont
3	R3PULSE1	r3pulse1:w3	r pulse measure 1	Cont
1	S1PULSE1	s1pulse1:w1	s pulse measure 1	Cont
2	S2PULSE1	s2pulse1:w2	s pulse measure 1	Cont
3	S3PULSE1	s3pulse1:w3	s pulse measure 1	Cont
1	R1PULSE2	r1pulse2:w1	r pulse measure 2	Cont
2	R2PULSE2	r2pulse2:w2	r pulse measure 2	Cont
3	R3PULSE2	r3pulse2:w3	r pulse measure 2	Cont
1	S1PULSE2	s1pulse2:w1	s pulse measure 2	Cont
2	S2PULSE2	s2pulse2:w2	s pulse measure 2	Cont
3	S3PULSE2	s3pulse2:w3	s pulse measure 2	Cont
1	R1PULSE3	r1pulse3:w1	r pulse measure 3	Cont
2	R2PULSE3	r2pulse3:w2	r pulse measure 3	Cont
3	R3PULSE3	r3pulse3:w3	r pulse measure 3	Cont
1	S1PULSE3	s1pulse3:w1	s pulse measure 3	Cont
2	S2PULSE3	s2pulse3:w2	s pulse measure 3	Cont
3	S3PULSE3	s3pulse3:w3	s pulse measure 3	Cont
1	R1PULSE	r1pulse:w1	r average pulse measure 2 & 3	Cont
2	R2PULSE	r2pulse:w2	r average pulse measure 2 & 3	Cont
3	R3PULSE	r3pulse:w3	r average pulse measure 2 & 3	Cont
1	S1PULSE	s1pulse:w1	s average pulse measure 2 & 3	Cont
2	S2PULSE	s2pulse:w2	s average pulse measure 2 & 3	Cont
3	S3PULSE	s3pulse:w3	s average pulse measure 2 & 3	Cont
1	R1BPCOMP	r1bpcomp:w1	r willing and able to complete blood pressure te	Categ
2	R2BPCOMP	r2bpcomp:w2	r willing and able to complete blood pressure te	Categ
3	R3BPCOMP	r3bpcomp:w3	r willing and able to complete blood pressure te	Categ
1	S1BPCOMP	s1bpcomp:w1	s willing and able to complete blood pressure te	Categ
2	S2BPCOMP	s2bpcomp:w2	s willing and able to complete blood pressure te	Categ
3	S3BPCOMP	s3bpcomp:w3	s willing and able to complete blood pressure te	Categ
1	R1BPACT30	r1bpact30:w1	r did activity last 30 minutes that affects BP	Categ
2	R2BPACT30	r2bpact30:w2	r did activity last 30 minutes that affects BP	Categ
3	R3BPACT30	r3bpact30:w3	r did activity last 30 minutes that affects BP	Categ
1	S1BPACT30	s1bpact30:w1	s did activity last 30 minutes that affects BP	Categ
2	S2BPACT30	s2bpact30:w2	s did activity last 30 minutes that affects BP	Categ
3	S3BPACT30	s3bpact30:w3	s did activity last 30 minutes that affects BP	Categ
1	R1BLDPOS	r1bldpos:w1	r position for blood pressure test	Categ
2	R2BLDPOS	r2bldpos:w2	r position for blood pressure test	Categ
3	R3BLDPOS	r3bldpos:w3	r position for blood pressure test	Categ
1	S1BLDPOS	s1bldpos:w1	s position for blood pressure test	Categ
2	S2BLDPOS	s2bldpos:w2	s position for blood pressure test	Categ
3	S3BLDPOS	s3bldpos:w3	s position for blood pressure test	Categ
1	R1BPARM	r1bparm:w1	r arm used for blood pressure test	Categ
2	R2BPARM	r2bparm:w2	r arm used for blood pressure test	Categ
3	R3BPARM	r3bparm:w3	r arm used for blood pressure test	Categ
1	S1BPARM	s1bparm:w1	s arm used for blood pressure test	Categ
2	S2BPARM	s2bparm:w2	s arm used for blood pressure test	Categ
3	S3BPARM	s3bparm:w3	s arm used for blood pressure test	Categ
1	R1BPCOMPL	r1bpcompl:w1	r compliance blood pressure test	Categ
2	R2BPCOMPL	r2bpcompl:w2	r compliance blood pressure test	Categ
3	R3BPCOMPL	r3bpcompl:w3	r compliance blood pressure test	Categ

1	S1BPCOMPL	s1bpcompl:w1 s	compliance blood pressure test	Categ
2	S2BPCOMPL	s2bpcompl:w2 s	compliance blood pressure test	Categ
3	S3BPCOMPL	s3bpcompl:w3 s	compliance blood pressure test	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SYSTO1	13772	132.89	22.69	61.00	245.00
R2SYSTO1	12984	133.10	22.76	45.00	200.00
R3SYSTO1	16241	130.54	21.39	45.00	200.00
S1SYSTO1	11735	131.70	22.08	61.00	245.00
S2SYSTO1	11003	132.15	22.26	45.00	200.00
S3SYSTO1	13843	129.59	20.89	56.00	200.00
R1SYSTO2	13740	130.19	22.14	60.00	235.00
R2SYSTO2	12959	130.04	21.96	31.00	200.00
R3SYSTO2	16203	127.47	20.65	40.00	200.00
S1SYSTO2	11713	129.04	21.55	60.00	235.00
S2SYSTO2	10987	129.13	21.45	31.00	200.00
S3SYSTO2	13818	126.54	20.19	40.00	200.00
R1SYSTO3	13710	128.92	21.55	61.00	227.00
R2SYSTO3	12930	128.71	21.57	32.00	200.00
R3SYSTO3	16160	126.30	20.32	52.00	200.00
S1SYSTO3	11692	127.87	21.00	61.00	227.00
S2SYSTO3	10965	127.81	21.10	32.00	200.00
S3SYSTO3	13779	125.44	19.89	52.00	200.00
R1SYSTO	13740	129.58	21.56	60.50	230.00
R2SYSTO	12958	129.41	21.44	50.00	200.00
R3SYSTO	16202	126.91	20.09	51.50	200.00
S1SYSTO	11713	128.47	20.98	60.50	230.00
S2SYSTO	10986	128.50	20.93	50.00	200.00
S3SYSTO	13817	126.02	19.65	51.50	200.00
R1DIASTO1	13772	76.91	12.90	30.00	145.00
R2DIASTO1	12980	78.08	14.41	31.00	198.00
R3DIASTO1	16238	76.65	12.60	33.00	186.00
S1DIASTO1	11735	76.80	12.93	30.00	143.00
S2DIASTO1	11000	78.01	14.34	31.00	198.00
S3DIASTO1	13840	76.68	12.60	33.00	175.00
R1DIASTO2	13739	75.76	12.61	35.00	143.00
R2DIASTO2	12957	76.67	13.75	31.00	195.00
R3DIASTO2	16200	75.19	12.17	30.00	182.00
S1DIASTO2	11713	75.63	12.61	36.00	143.00
S2DIASTO2	10985	76.60	13.65	31.00	195.00
S3DIASTO2	13817	75.18	12.14	30.00	165.00
R1DIASTO3	13712	75.17	12.43	32.00	141.00
R2DIASTO3	12929	76.07	13.67	32.00	195.00
R3DIASTO3	16159	74.79	12.14	30.00	186.00
S1DIASTO3	11694	75.10	12.45	35.00	139.00
S2DIASTO3	10964	76.02	13.62	32.00	195.00
S3DIASTO3	13778	74.80	12.08	30.00	161.00
R1DIASTO	13739	75.48	12.26	33.50	141.50
R2DIASTO	12956	76.38	13.46	31.50	194.00
R3DIASTO	16199	75.00	11.82	30.00	184.00

## Section K: Physical Measures

586

S1DIASTO	11713	75.38	12.27	37.00	139.50
S2DIASTO	10984	76.32	13.37	31.50	194.00
S3DIASTO	13816	75.00	11.77	30.00	161.50
R1PULSE1	13768	72.80	10.85	30.00	138.00
R2PULSE1	12977	74.71	11.06	36.00	154.00
R3PULSE1	16236	74.41	11.06	32.00	144.00
S1PULSE1	11734	72.65	10.81	30.00	138.00
S2PULSE1	10997	74.56	11.04	36.00	154.00
S3PULSE1	13839	74.21	11.01	32.00	144.00
R1PULSE2	13734	72.17	10.72	33.00	153.00
R2PULSE2	12954	74.03	10.91	35.00	141.00
R3PULSE2	16194	74.02	11.01	31.00	160.00
S1PULSE2	11710	72.02	10.71	33.00	153.00
S2PULSE2	10982	73.87	10.87	35.00	141.00
S3PULSE2	13812	73.86	10.96	31.00	160.00
R1PULSE3	13703	72.52	10.72	33.00	150.00
R2PULSE3	12926	74.24	10.89	34.00	149.00
R3PULSE3	16157	74.29	10.91	36.00	158.00
S1PULSE3	11687	72.40	10.70	33.00	150.00
S2PULSE3	10961	74.09	10.83	34.00	149.00
S3PULSE3	13777	74.12	10.86	36.00	158.00
R1PULSE	13734	72.35	10.56	33.00	151.50
R2PULSE	12953	74.14	10.74	34.50	143.00
R3PULSE	16193	74.16	10.81	35.50	159.00
S1PULSE	11710	72.21	10.55	33.00	151.50
S2PULSE	10981	73.98	10.69	34.50	143.00
S3PULSE	13811	73.99	10.75	35.50	159.00
R1BPCOMP	13841	1.00	0.07	0.00	1.00
R2BPCOMP	13096	0.99	0.09	0.00	1.00
R3BPCOMP	16297	1.00	0.05	0.00	1.00
S1BPCOMP	11782	1.00	0.06	0.00	1.00
S2BPCOMP	11093	0.99	0.09	0.00	1.00
S3BPCOMP	13887	1.00	0.05	0.00	1.00
R1BPACT30	13740	0.19	0.39	0.00	1.00
R2BPACT30	12963	0.22	0.41	0.00	1.00
R3BPACT30	16164	0.18	0.38	0.00	1.00
S1BPACT30	11707	0.19	0.39	0.00	1.00
S2BPACT30	10974	0.22	0.42	0.00	1.00
S3BPACT30	13778	0.18	0.38	0.00	1.00
R1BLDPOS	13789	1.98	0.16	1.00	3.00
R2BLDPOS	13044	1.97	0.19	1.00	3.00
R3BLDPOS	16238	1.99	0.11	1.00	3.00
S1BLDPOS	11744	1.98	0.15	1.00	3.00
S2BLDPOS	11043	1.97	0.19	1.00	3.00
S3BLDPOS	13839	1.99	0.11	1.00	3.00
R1BPARM	13779	1.14	0.35	1.00	2.00
R2BPARM	13025	1.16	0.37	1.00	2.00
R3BPARM	16243	1.15	0.36	1.00	2.00
S1BPARM	11732	1.14	0.35	1.00	2.00
S2BPARM	11028	1.16	0.37	1.00	2.00
S3BPARM	13843	1.15	0.36	1.00	2.00
R1BPCOMPL	13793	1.00	0.07	1.00	3.00

R2BPCOMPL	13045	1.00	0.05	1.00	3.00
R3BPCOMPL	16243	1.00	0.04	1.00	3.00
S1BPCOMPL	11745	1.00	0.06	1.00	3.00
S2BPCOMPL	11042	1.00	0.05	1.00	3.00
S3BPCOMPL	13843	1.00	0.05	1.00	3.00

### Categorical Variable Codes

Value-----	R1BPCOMP	R2BPCOMP	R3BPCOMP
.m:missing	133	73	109
.s:skip	11612	12417	9180
0.no	65	106	47
1.yes	13776	12990	16250

Value-----	S1BPCOMP	S2BPCOMP	S3BPCOMP
.m:missing	101	48	84
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	45	84	37
1.yes	11737	11009	13850

Value-----	R1BPACT30	R2BPACT30	R3BPACT30
.d:dk	57	86	82
.m:missing	135	8	133
.n:not willing or able	41	112	26
.r:refuse	1		1
.s:skip	11612	12417	9180
0.no	11186	10110	13333
1.yes	2554	2853	2831

Value-----	S1BPACT30	S2BPACT30	S3BPACT30
.d:dk	41	71	67
.m:missing	102	6	104
.n:not willing or able	33	90	21
.r:refuse			1
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	9493	8532	11325
1.yes	2214	2442	2453

Value-----	R1BLDPOS	R2BLDPOS	R3BLDPOS
.d:dk	6		7
.m:missing	135	13	132
.n:not willing or able	41	112	26
.r:refuse	3		3
.s:skip	11612	12417	9180
1.standing	305	458	173
2.sitting	13449	12562	16038
3.lying down	35	24	27

Value-----	S1BLDPOS	S2BLDPOS	S3BLDPOS
.d:dk	4		5
.m:missing	102	8	103
.n:not willing or able	33	90	21
.r:refuse			3
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.standing	257	389	157
2.sitting	11459	10634	13661
3.lying down	28	20	21

Value-----	R1BPARM	R2BPARM	R3BPARM
.d:dk	15		10

.m:missing	135	32	122
.n:not willing or able	41	112	26
.r:refuse	4		5
.s:skip	11612	12417	9180
1.left	11812	10912	13760
2.right	1967	2113	2483

Value-----	S1BPARM	S2BPARM	S3BPARM
.d:dk	14		7
.m:missing	102	23	95
.n:not willing or able	33	90	21
.r:refuse	2		5
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.left	10059	9209	11736
2.right	1673	1819	2107

Value-----	R1BPCOMPL	R2BPCOMPL	R3BPCOMPL
.d:dk	3		7
.m:missing	135	12	129
.n:not willing or able	41	112	26
.r:refuse	2		1
.s:skip	11612	12417	9180
1.fully compliant	13760	13026	16222
2.prevented from being fully compliant	22	13	18
3.not fully compliant	11	6	3

Value-----	S1BPCOMPL	S2BPCOMPL	S3BPCOMPL
.d:dk	3		5
.m:missing	102	9	101
.n:not willing or able	33	90	21
.r:refuse			1
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.fully compliant	11720	11028	13823
2.prevented from being fully compliant	19	9	17
3.not fully compliant	6	5	3

### How Constructed:

RwSYSTO1, RwSYSTO2, and RwSYSTO3 are the respondent's first, second, and third systolic blood pressure readings. RwSYSTO is the average of the second and third systolic blood pressure readings, or the average of the first and second systolic blood pressure readings if the third reading is not available. Special missing .i is assigned if the value of the systolic measurement is greater than or equal to 300. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent had a rash, a cast, edema (swelling) in the arm, open sores or wounds, or a significant bruise where the blood pressure cuff would be in contact, or if the respondent did not understand the directions for the measurement. Special missing .x is assigned if the respondent tried but was unable to complete the measurement. RwSYSTO1, RwSYSTO2, RwSYSTO3, and RwSYSTO are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwsSYSTO1, SwsSYSTO2, SwsSYSTO3, and SwsSYSTO indicate the first, second, third, and the average of the second and third systolic blood pressure measurements of the respondent's current wave's spouse, and their values are taken from RwSYSTO1, RwSYSTO2, RwSYSTO3, and RwSYSTO, respectively. In addition to the special missing codes employed by RwSYSTO1, RwSYSTO2, RwSYSTO3 and RwSYSTO, SwsSYSTO1, SwsSYSTO2, SwsSYSTO3 and SwsSYSTO employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that some extreme values may remain in RwSYSTO1, RwSYSTO2, RwSYSTO3, and RwSYSTO and have been left to the discretion of the user.

RwDIASTO1, RwDIASTO2, RwDIASTO3 are the respondent's first, second, and third diastolic blood pressure readings. RwDIASTO is the average of the second and the third diastolic blood pressure readings, or the average of the first and second diastolic blood pressure readings if the third reading is not available. Special missing .i is assigned if the value of the diastolic measurement is greater than or equal to 200. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent had a rash, a cast, edema (swelling) in the arm, open sores or wounds, or a significant bruise where the blood pressure cuff would be in contact, or if the respondent did not understand the directions for the measurement. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

Please note that some extreme values may remain in RwDIASTO1, RwDIASTO2, RwDIASTO3, and RwDIASTO and have been left to the discretion of the user.

SwDIASTO1, SwDIASTO2, SwDIASTO3, and SwDIASTO indicate the first, second, third, and the average of the second and third diastolic blood pressure readings of the respondent's current wave's spouse, and their values are taken from RwDIASTO1, RwDIASTO2, RwDIASTO3, and RwDIASTO, respectively. In addition to the special missing codes employed by RwDIASTO1, RwDIASTO2, RwDIASTO3, and RwDIASTO, SwDIASTO1, SwDIASTO2, SwDIASTO3 and SwDIASTO employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwPULSE1, RwPULSE2, and RwPULSE3 are the respondent's first, second, and third pulse readings. RwPULSE is the average of the second and the third pulse readings, or the average of the first and second pulse readings if the third reading is not available. Special missing .i is assigned if the value of the pulse measurement is greater than 160. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent had a rash, a cast, edema (swelling) in the arm, open sores or wounds, or a significant bruise where the blood pressure cuff would be in contact, or if the respondent did not understand the directions for the measurement. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwPULSE1, SwPULSE2, SwPULSE3, and SwPULSE indicate the first, second, third, and the average of the second and third pulse readings for the respondent's current wave's spouse, and their values are taken from RwPULSE1, RwPULSE2, RwPULSE3, and RwPULSE. In addition to the special missing codes employed by RwPULSE1, RwPULSE2, RwPULSE3, and RwPULSE, SwPULSE1, SwPULSE2, SwPULSE3, and SwPULSE employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that some extreme values may remain in RwPULSE1, RwPULSE2, RwPULSE3, and RwPULSE and have been left to the discretion of the user.

RwBPCOMP indicates whether the respondent is willing and able to complete the blood pressure measurements. RwBPCOMP is coded as 1 if the respondent agreed to participate in the blood pressure measurements and completed at least one blood pressure measurement. RwBPCOMP is coded as 0 if the respondent refused to participate, was unable to participate for reasons other than refusal such as having a skin rash or not understanding the instructions, or the respondent did not complete any blood pressure measurements. Special missing .s is assigned to respondents who did not have biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBPCOMP indicates the respondent's current wave's spouse's ability to complete the blood pressure test, and is taken from RwBPCOMP. In addition to the special missing codes employed by RwBPCOMP, SwBPCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwBPACT30 indicates whether the respondent ate, smoked, drank alcohol, or did any vigorous exercise in the 30 minutes prior to completing the blood pressure measurements, which may affect the validity of the measurements. RwBPACT30 is assigned a 0 if the respondent has not done any of these activities in the last 30 minutes, and assigned a 1 if the respondent has done any of these activities in the last 30 minutes. RwBLDPOS indicates the position the respondent was in for the blood pressure tests. RwBLDPOS is coded as follows: 1.standing, 2.sitting, and 3.lying down. RwBPARM indicates which arm the respondent's blood pressure tests were taken on. RwBPARM is coded

as follows: 1.left arm, 2.right arm. RwbPCOMPL indicates the respondent's compliance during the blood pressure tests. RwbPCOMPL is coded as follows: 1.fully compliant, 2.prevented from being fully compliant due to illness, pain, or other symptoms or discomforts, 3.not fully compliant, but no obvious reason for this.

Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent had a rash, a cast, edema (swelling) in the arm, open sores or wounds, or a significant bruise where the blood pressure cuff would be in contact, or if the respondent did not understand the directions for the measurement. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBPACT30, SwBLDPOS, SwBPARM, and SwBPCOMPL indicate whether the respondent's current wave's spouse ate, smoked, drank alcohol, or did any vigorous exercise in the last 30 minutes, their position, arm used, and compliance in the blood pressure measurements, and their values are taken from RwbBPACT30, RwbBLDPOS, RwbBPARM, and RwbBPCOMPL. In addition to the special missing codes employed by RwbBPACT30, RwbBLDPOS, RwbBPARM, and RwbBPCOMPL, SwBPACT30, SwBLDPOS, SwBPARM, and SwBPCOMPL employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including blood pressure measurements.

## Differences with the RAND HRS/Harmonized HRS

The HRS stops asking about the respondent's compliance during the blood pressure measurements at Wave 12.

## CHARLS Variables Used:

### Wave 1:

PA001	MEASURE OR NOT
PA002	UNDERSTAND THE DIRECTIONS OR NOT
QA003	Systolic Reading
QA004	Diastolic Reading
QA005	PULSE
QA007	Systolic Reading
QA008	Diastolic Reading
QA009	PULSE
QA011	Systolic Reading
QA012	Diastolic Reading
QA013	PULSE
QA016	R's position
QA017	smoke, exercise, consume alcohol or food

### Wave 2:

PA001	Any Problems Prevent Measurement
PA002	Understand The Directions or Not
QA003	Systolic Reading
QA004	Diastolic Reading
QA005	Pulse
QA007	Systolic Reading
QA008	Diastolic Reading
QA009	Pulse
QA011	Systolic Reading
QA012	Diastolic Reading
QA013	Pulse
QA016	R'S Position
QA017	Smoke, Exercise, Consume Alcohol or Food

### Wave 3:

PA001	Any Problems Prevent Measurement
PA002	Understand The Directions or Not
QA003	Systolic Reading
QA004	Diastolic Reading
QA005	pulse
QA007	Systolic Reading

---

QA008	Diastolic Reading
QA009	pulse
QA011	Systolic Reading
QA012	Diastolic Reading
QA013	pulse
QA016	R's Position
QA017	smoke, exercise, consume alcohol or food



<b>Blood Pressure Measurements: Reasons Didn't Complete</b>
---

Wave	Variable	Label	Type
1	R1BPSFT	r1bpsft:w1 r didn't complete bp: unsafe/health reason	Categ
2	R2BPSFT	r2bpsft:w2 r didn't complete bp: unsafe/health reason	Categ
3	R3BPSFT	r3bpsft:w3 r didn't complete bp: unsafe/health reason	Categ
1	S1BPSFT	s1bpsft:w1 s didn't complete bp: unsafe/health reason	Categ
2	S2BPSFT	s2bpsft:w2 s didn't complete bp: unsafe/health reason	Categ
3	S3BPSFT	s3bpsft:w3 s didn't complete bp: unsafe/health reason	Categ
1	R1BPREF	r1bpref:w1 r didn't complete bp: refused	Categ
2	R2BPREF	r2bpref:w2 r didn't complete bp: refused	Categ
3	R3BPREF	r3bpref:w3 r didn't complete bp: refused	Categ
1	S1BPREF	s1bpref:w1 s didn't complete bp: refused	Categ
2	S2BPREF	s2bpref:w2 s didn't complete bp: refused	Categ
3	S3BPREF	s3bpref:w3 s didn't complete bp: refused	Categ
1	R1BPTRYU	r1bptryu:w1 r didn't complete bp: tried but unable	Categ
2	R2BPTRYU	r2bptryu:w2 r didn't complete bp: tried but unable	Categ
3	R3BPTRYU	r3bptryu:w3 r didn't complete bp: tried but unable	Categ
1	S1BPTRYU	s1bptryu:w1 s didn't complete bp: tried but unable	Categ
2	S2BPTRYU	s2bptryu:w2 s didn't complete bp: tried but unable	Categ
3	S3BPTRYU	s3bptryu:w3 s didn't complete bp: tried but unable	Categ
1	R1BPEQUP	r1bpequp:w1 r didn't complete bp: faulty equipment/space iss	Categ
2	R2BPEQUP	r2bpequp:w2 r didn't complete bp: faulty equipment/space iss	Categ
3	R3BPEQUP	r3bpequp:w3 r didn't complete bp: faulty equipment/space iss	Categ
1	S1BPEQUP	s1bpequp:w1 s didn't complete bp: faulty equipment/space iss	Categ
2	S2BPEQUP	s2bpequp:w2 s didn't complete bp: faulty equipment/space iss	Categ
3	S3BPEQUP	s3bpequp:w3 s didn't complete bp: faulty equipment/space iss	Categ
1	R1BPOTHR	r1bpothr:w1 r didn't complete bp: other reason	Categ
2	R2BPOTHR	r2bpothr:w2 r didn't complete bp: other reason	Categ
3	R3BPOTHR	r3bpothr:w3 r didn't complete bp: other reason	Categ
1	S1BPOTHR	s1bpothr:w1 s didn't complete bp: other reason	Categ
2	S2BPOTHR	s2bpothr:w2 s didn't complete bp: other reason	Categ
3	S3BPOTHR	s3bpothr:w3 s didn't complete bp: other reason	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BPSFT	109	0.14	0.35	0.00	1.00
R2BPSFT	131	0.23	0.42	0.00	1.00
R3BPSFT	126	0.16	0.37	0.00	1.00
S1BPSFT	76	0.13	0.34	0.00	1.00
S2BPSFT	106	0.25	0.43	0.00	1.00
S3BPSFT	96	0.20	0.40	0.00	1.00
R1BPREF	109	0.08	0.28	0.00	1.00
R2BPREF	131	0.02	0.15	0.00	1.00
R3BPREF	126	0.02	0.15	0.00	1.00
S1BPREF	76	0.12	0.33	0.00	1.00
S2BPREF	106	0.02	0.14	0.00	1.00
S3BPREF	96	0.02	0.14	0.00	1.00
R1BPTRYU	109	0.37	0.48	0.00	1.00
R2BPTRYU	131	0.08	0.28	0.00	1.00
R3BPTRYU	126	0.48	0.50	0.00	1.00

S1BPTRYU	76	0.34	0.48	0.00	1.00
S2BPTRYU	106	0.08	0.28	0.00	1.00
S3BPTRYU	96	0.41	0.49	0.00	1.00
R1BPEQUP	109	0.33	0.47	0.00	1.00
R2BPEQUP	131	0.62	0.49	0.00	1.00
R3BPEQUP	126	0.23	0.42	0.00	1.00
S1BPEQUP	76	0.36	0.48	0.00	1.00
S2BPEQUP	106	0.60	0.49	0.00	1.00
S3BPEQUP	96	0.25	0.44	0.00	1.00
R1BPOTHR	109	0.21	0.41	0.00	1.00
R2BPOTHR	131	0.07	0.25	0.00	1.00
R3BPOTHR	126	0.23	0.42	0.00	1.00
S1BPOTHR	76	0.22	0.42	0.00	1.00
S2BPOTHR	106	0.08	0.27	0.00	1.00
S3BPOTHR	96	0.21	0.41	0.00	1.00

### Categorical Variable Codes

Value-----	R1BPSFT	R2BPSFT	R3BPSFT
.c:completed test	13758	12965	16234
.d:dk			1
.m:missing	107	73	45
.s:skip	11612	12417	9180
0.no	94	101	106
1.yes	15	30	20

Value-----	S1BPSFT	S2BPSFT	S3BPSFT
.c:completed test	11725	10987	13837
.d:dk			1
.m:missing	82	48	37
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	66	80	77
1.yes	10	26	19

Value-----	R1BPREF	R2BPREF	R3BPREF
.c:completed test	13758	12965	16234
.d:dk			1
.m:missing	107	73	45
.s:skip	11612	12417	9180
0.no	100	128	123
1.yes	9	3	3

Value-----	S1BPREF	S2BPREF	S3BPREF
.c:completed test	11725	10987	13837
.d:dk			1
.m:missing	82	48	37
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	67	104	94
1.yes	9	2	2

Value-----	R1BPTRYU	R2BPTRYU	R3BPTRYU
.c:completed test	13758	12965	16234
.d:dk			1
.m:missing	107	73	45
.s:skip	11612	12417	9180
0.no	69	120	66
1.yes	40	11	60

Value-----	S1BPTRYU	S2BPTRYU	S3BPTRYU
.c:completed test	11725	10987	13837
.d:dk			1
.m:missing	82	48	37
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	50	97	57
1.yes	26	9	39

Value-----	R1BPEQUP	R2BPEQUP	R3BPEQUP
.c:completed test	13758	12965	16234
.d:dk			1
.m:missing	107	73	45
.s:skip	11612	12417	9180
0.no	73	50	97
1.yes	36	81	29

Value-----	S1BPEQUP	S2BPEQUP	S3BPEQUP
.c:completed test	11725	10987	13837
.d:dk			1
.m:missing	82	48	37
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	49	42	72
1.yes	27	64	24

Value-----	R1BPOTHR	R2BPOTHR	R3BPOTHR
.c:completed test	13758	12965	16234
.d:dk			1
.m:missing	107	73	45
.s:skip	11612	12417	9180
0.no	86	122	97
1.yes	23	9	29

Value-----	S1BPOTHR	S2BPOTHR	S3BPOTHR
.c:completed test	11725	10987	13837
.d:dk			1
.m:missing	82	48	37
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	59	98	76
1.yes	17	8	20

### How Constructed:

RwBPSFT, RwBPREF, RwBPTRYU, RwBPEQUP, and RwBPOTHR indicate the reasons for the respondent not taking part in the blood pressure test as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the blood pressure test. RwBPSFT indicates whether the respondent did not participate in the blood pressure test because they felt it would not be safe, or the interviewer felt it would be unsafe, or due to a health problem/condition of the respondent. RwBPREF indicates whether the respondent did not participate in the blood pressure test because they refused, with no reason given. RwBPTRYU indicates whether the respondent did not participate in the blood pressure test because they tried but were unable to complete the test. RwBPEQUP indicates whether the respondent did not participate in the blood pressure test because of either problems with equipment/supplies or not having a suitable space to perform the test. RwBPOTHR indicates whether the respondent did not participate in the blood pressure test because either they did not understand the instructions or because of another reason. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .c is assigned if the respondent completed at least one of the blood pressure tests. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBPSFT, SwBPREF, SwBPTRYU, SwBPEQUP, and SwBPOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the blood pressure test, and their values are taken from

the spouse's values to RwbPSFT, RwbPREF, RwbPTRYU, RwbPEQUP, and RwbPOTHR. In addition to the special missing codes employed by RwbPSFT, RwbPREF, RwbPTRYU, RwbPEQUP, and RwbPOTHR, SwbPSFT, SwbPREF, SwbPTRYU, SwbPEQUP, and SwbPOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including blood pressure measurements.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

PA001	MEASURE OR NOT
PA002	UNDERSTAND THE DIRECTIONS OR NOT
QA001S1	WHY DIDN'T COMPLETE
QA001S2	WHY DIDN'T COMPLETE
QA001S3	WHY DIDN'T COMPLETE
QA001S4	WHY DIDN'T COMPLETE
QA001S5	WHY DIDN'T COMPLETE
QA001S6	WHY DIDN'T COMPLETE
QA001S7	WHY DIDN'T COMPLETE
QA001S8	WHY DIDN'T COMPLETE
QA001S97	WHY DIDN'T COMPLETE
QA003	Systolic Reading
QA004	Diastolic Reading
QA007	Systolic Reading
QA008	Diastolic Reading
QA011	Systolic Reading
QA012	Diastolic Reading
QA016	R's position
QA017	smoke, exercise, consume alcohol or food

### Wave 2:

PA001	Any Problems Prevent Measurement
PA002	Understand The Directions or Not
QA001S1	Why didn't Complete
QA001S2	Why didn't Complete
QA001S3	Why didn't Complete
QA001S4	Why didn't Complete
QA001S5	Why didn't Complete
QA001S6	Why didn't Complete
QA001S7	Why didn't Complete
QA001S8	Why didn't Complete
QA001S97	Why didn't Complete
QA003	Systolic Reading
QA004	Diastolic Reading
QA007	Systolic Reading
QA008	Diastolic Reading
QA011	Systolic Reading
QA012	Diastolic Reading
QA016	R'S Position
QA017	Smoke, Exercise, Consume Alcohol or Food

### Wave 3:

PA001	Any Problems Prevent Measurement
PA002	Understand The Directions or Not
QA001S1	Why Didn't R Complete Blood Pressure Measurement
QA001S2	Why Didn't R Complete Blood Pressure Measurement
QA001S3	Why Didn't R Complete Blood Pressure Measurement
QA001S4	Why Didn't R Complete Blood Pressure Measurement
QA001S5	Why Didn't R Complete Blood Pressure Measurement
QA001S6	Why Didn't R Complete Blood Pressure Measurement
QA001S7	Why Didn't R Complete Blood Pressure Measurement
QA001S8	Why Didn't R Complete Blood Pressure Measurement

---

QA001S97	Why Didn't R Complete Blood Pressure Measurement
QA003	Systolic Reading
QA004	Diastolic Reading
QA007	Systolic Reading
QA008	Diastolic Reading
QA011	Systolic Reading
QA012	Diastolic Reading
QA016	R's Position
QA017	smoke, exercise, consume alcohol or food

<b>Hand Grip Strength Measurements</b>
--

Wave	Variable	Label	Type
1	R1LGRIPI1	r1lgrip1:w1 r left hand grip measurement 1(kg)	Cont
2	R2LGRIPI1	r2lgrip1:w2 r left hand grip measurement 1(kg)	Cont
3	R3LGRIPI1	r3lgrip1:w3 r left hand grip measurement 1(kg)	Cont
1	S1LGRIPI1	s1lgrip1:w1 s left hand grip measurement 1(kg)	Cont
2	S2LGRIPI1	s2lgrip1:w2 s left hand grip measurement 1(kg)	Cont
3	S3LGRIPI1	s3lgrip1:w3 s left hand grip measurement 1(kg)	Cont
1	R1LGRIPI2	r1lgrip2:w1 r left hand grip measurement 2(kg)	Cont
2	R2LGRIPI2	r2lgrip2:w2 r left hand grip measurement 2(kg)	Cont
3	R3LGRIPI2	r3lgrip2:w3 r left hand grip measurement 2(kg)	Cont
1	S1LGRIPI2	s1lgrip2:w1 s left hand grip measurement 2(kg)	Cont
2	S2LGRIPI2	s2lgrip2:w2 s left hand grip measurement 2(kg)	Cont
3	S3LGRIPI2	s3lgrip2:w3 s left hand grip measurement 2(kg)	Cont
1	R1LGRIP	r1lgrip:w1 r maximum left hand grip measurement (kg)	Cont
2	R2LGRIP	r2lgrip:w2 r maximum left hand grip measurement (kg)	Cont
3	R3LGRIP	r3lgrip:w3 r maximum left hand grip measurement (kg)	Cont
1	S1LGRIP	s1lgrip:w1 s maximum left hand grip measurement (kg)	Cont
2	S2LGRIP	s2lgrip:w2 s maximum left hand grip measurement (kg)	Cont
3	S3LGRIP	s3lgrip:w3 s maximum left hand grip measurement (kg)	Cont
1	R1RGRIP1	r1rgrip1:w1 r right hand grip measurement 1(kg)	Cont
2	R2RGRIP1	r2rgrip1:w2 r right hand grip measurement 1(kg)	Cont
3	R3RGRIP1	r3rgrip1:w3 r right hand grip measurement 1(kg)	Cont
1	S1RGRIP1	s1rgrip1:w1 s right hand grip measurement 1(kg)	Cont
2	S2RGRIP1	s2rgrip1:w2 s right hand grip measurement 1(kg)	Cont
3	S3RGRIP1	s3rgrip1:w3 s right hand grip measurement 1(kg)	Cont
1	R1RGRIP2	r1rgrip2:w1 r right hand grip measurement 2(kg)	Cont
2	R2RGRIP2	r2rgrip2:w2 r right hand grip measurement 2(kg)	Cont
3	R3RGRIP2	r3rgrip2:w3 r right hand grip measurement 2(kg)	Cont
1	S1RGRIP2	s1rgrip2:w1 s right hand grip measurement 2(kg)	Cont
2	S2RGRIP2	s2rgrip2:w2 s right hand grip measurement 2(kg)	Cont
3	S3RGRIP2	s3rgrip2:w3 s right hand grip measurement 2(kg)	Cont
1	R1RGRIP	r1rgrip:w1 r maximum right hand grip measurement (kg)	Cont
2	R2RGRIP	r2rgrip:w2 r maximum right hand grip measurement (kg)	Cont
3	R3RGRIP	r3rgrip:w3 r maximum right hand grip measurement (kg)	Cont
1	S1RGRIP	s1rgrip:w1 s maximum right hand grip measurement (kg)	Cont
2	S2RGRIP	s2rgrip:w2 s maximum right hand grip measurement (kg)	Cont
3	S3RGRIP	s3rgrip:w3 s maximum right hand grip measurement (kg)	Cont
1	R1GRIPSUM	r1gripsum:w1 r dominant hand grip strength (kg)	Cont
2	R2GRIPSUM	r2gripsum:w2 r dominant hand grip strength (kg)	Cont
3	R3GRIPSUM	r3gripsum:w3 r dominant hand grip strength (kg)	Cont
1	S1GRIPSUM	s1gripsum:w1 s dominant hand grip strength (kg)	Cont
2	S2GRIPSUM	s2gripsum:w2 s dominant hand grip strength (kg)	Cont
3	S3GRIPSUM	s3gripsum:w3 s dominant hand grip strength (kg)	Cont
1	R1GRIPCOMP	r1gripcomp:w1 r willing and able to complete grip strength t	Categ
2	R2GRIPCOMP	r2gripcomp:w2 r willing and able to complete grip strength t	Categ
3	R3GRIPCOMP	r3gripcomp:w3 r willing and able to complete grip strength t	Categ
1	S1GRIPCOMP	s1gripcomp:w1 s willing and able to complete grip strength t	Categ
2	S2GRIPCOMP	s2gripcomp:w2 s willing and able to complete grip strength t	Categ
3	S3GRIPCOMP	s3gripcomp:w3 s willing and able to complete grip strength t	Categ

1	R1GRIFEFF	r1gripeff:w1	amount of effort r gave grip strength test	Categ
2	R2GRIFEFF	r2gripeff:w2	amount of effort r gave grip strength test	Categ
3	R3GRIFEFF	r3gripeff:w3	amount of effort r gave grip strength test	Categ
1	S1GRIFEFF	s1gripeff:w1	amount of effort s gave grip strength test	Categ
2	S2GRIFEFF	s2gripeff:w2	amount of effort s gave grip strength test	Categ
3	S3GRIFEFF	s3gripeff:w3	amount of effort s gave grip strength test	Categ
1	R1GRIPPOS	r1grippos:w1	r's position for grip strength test	Categ
2	R2GRIPPOS	r2grippos:w2	r's position for grip strength test	Categ
3	R3GRIPPOS	r3grippos:w3	r's position for grip strength test	Categ
1	S1GRIPPOS	s1grippos:w1	s's position for grip strength test	Categ
2	S2GRIPPOS	s2grippos:w2	s's position for grip strength test	Categ
3	S3GRIPPOS	s3grippos:w3	s's position for grip strength test	Categ
1	R1GRIPRSTA	r1griprsta:w1	r rested arms on a support during grip strengt	Categ
2	R2GRIPRSTA	r2griprsta:w2	r rested arms on a support during grip strengt	Categ
3	R3GRIPRSTA	r3griprsta:w3	r rested arms on a support during grip strengt	Categ
1	S1GRIPRSTA	s1griprsta:w1	s rested arms on a support during grip strengt	Categ
2	S2GRIPRSTA	s2griprsta:w2	s rested arms on a support during grip strengt	Categ
3	S3GRIPRSTA	s3griprsta:w3	s rested arms on a support during grip strengt	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LGRIPI	13524	27.94	10.60	0.00	90.00
R2LGRIPI	12841	28.00	10.62	0.00	72.00
R3LGRIPI	16088	26.79	10.44	0.00	68.00
S1LGRIPI	11524	28.65	10.46	0.00	71.00
S2LGRIPI	10880	28.79	10.55	0.00	72.00
S3LGRIPI	13742	27.60	10.32	0.00	68.00
R1LGRIPI2	13528	29.18	10.63	0.00	70.00
R2LGRIPI2	12824	29.07	10.70	0.00	100.00
R3LGRIPI2	16070	27.81	10.57	0.00	67.00
S1LGRIPI2	11530	29.91	10.50	0.00	70.00
S2LGRIPI2	10870	29.84	10.64	0.00	71.50
S3LGRIPI2	13727	28.60	10.48	0.00	67.00
R1LGRIPI	13573	29.81	10.64	0.00	90.00
R2LGRIPI	12848	29.72	10.73	0.00	100.00
R3LGRIPI	16085	28.46	10.57	0.00	68.00
S1LGRIPI	11567	30.53	10.50	0.00	71.00
S2LGRIPI	10885	30.50	10.66	0.00	72.00
S3LGRIPI	13752	29.26	10.47	0.00	68.00
R1RGRIP1	13500	29.58	10.95	0.00	100.00
R2RGRIP1	12836	29.41	11.11	0.00	75.00
R3RGRIP1	16083	28.37	10.91	0.00	90.00
S1RGRIP1	11506	30.33	10.80	0.00	90.00
S2RGRIP1	10878	30.26	11.03	0.00	75.00
S3RGRIP1	13738	29.17	10.82	0.00	90.00
R1RGRIP2	13497	30.64	10.99	0.00	73.00
R2RGRIP2	12799	30.48	11.22	0.00	100.00
R3RGRIP2	16042	29.18	10.95	0.00	70.00
S1RGRIP2	11506	31.39	10.87	0.00	73.00
S2RGRIP2	10848	31.31	11.16	0.00	100.00
S3RGRIP2	13706	29.97	10.87	0.00	70.00

R1RGRIP	13561	31.26	11.03	0.00	100.00
R2RGRIP	12851	31.12	11.25	0.00	100.00
R3RGRIP	16083	29.86	10.99	0.00	90.00
S1RGRIP	11559	32.02	10.87	0.00	90.00
S2RGRIP	10892	31.95	11.18	0.00	100.00
S3RGRIP	13750	30.67	10.91	0.00	90.00
R1GRIPSUM	13573	31.48	10.83	0.00	100.00
R2GRIPSUM	12863	31.32	11.04	0.00	100.00
R3GRIPSUM	16098	30.01	10.85	0.00	90.00
S1GRIPSUM	11569	32.23	10.65	0.00	90.00
S2GRIPSUM	10900	32.17	10.95	0.00	100.00
S3GRIPSUM	13763	30.82	10.78	0.00	90.00
R1GRIPCOMP	13890	0.98	0.15	0.00	1.00
R2GRIPCOMP	13146	0.98	0.14	0.00	1.00
R3GRIPCOMP	16351	0.99	0.12	0.00	1.00
S1GRIPCOMP	11812	0.98	0.14	0.00	1.00
S2GRIPCOMP	11125	0.98	0.14	0.00	1.00
S3GRIPCOMP	13929	0.99	0.11	0.00	1.00
R1GRIPPEFF	13577	1.03	0.22	1.00	3.00
R2GRIPPEFF	12854	1.01	0.12	1.00	3.00
R3GRIPPEFF	16099	1.01	0.12	1.00	3.00
S1GRIPPEFF	11571	1.03	0.21	1.00	3.00
S2GRIPPEFF	10889	1.01	0.12	1.00	3.00
S3GRIPPEFF	13752	1.01	0.11	1.00	3.00
R1GRIPPOS	13571	1.18	0.39	1.00	3.00
R2GRIPPOS	12854	1.17	0.38	1.00	3.00
R3GRIPPOS	16098	1.05	0.21	1.00	3.00
S1GRIPPOS	11566	1.18	0.38	1.00	3.00
S2GRIPPOS	10890	1.16	0.37	1.00	3.00
S3GRIPPOS	13752	1.04	0.20	1.00	3.00
R1GRIPRSTA	13570	0.86	0.35	0.00	1.00
R2GRIPRSTA	12851	0.85	0.36	0.00	1.00
R3GRIPRSTA	16095	0.87	0.33	0.00	1.00
S1GRIPRSTA	11565	0.86	0.35	0.00	1.00
S2GRIPRSTA	10887	0.85	0.35	0.00	1.00
S3GRIPRSTA	13749	0.87	0.34	0.00	1.00

### Categorical Variable Codes

Value-----	R1GRIPCOMP	R2GRIPCOMP	R3GRIPCOMP
.m:missing	84	23	55
.s:skip	11612	12417	9180
0.no	301	274	231
1.yes	13589	12872	16120
Value-----	S1GRIPCOMP	S2GRIPCOMP	S3GRIPCOMP
.m:missing	71	16	42
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	232	219	161
1.yes	11580	10906	13768
Value-----	R1GRIPPEFF	R2GRIPPEFF	R3GRIPPEFF
.d:dk	3		4



.m:missing	104	54	99
.n:not willing or able	287	261	203
.r:refuse	3		1
.s:skip	11612	12417	9180
1.Gave full effort	13328	12772	15999
2.not full effort-illness	113	43	61
3.not full effort-no reason	136	39	39

Value-----	S1GRIPPEFF	S2GRIPPEFF	S3GRIPPEFF
.d:dk	3		4
.m:missing	81	41	71
.n:not willing or able	225	211	143
.r:refuse	3		1
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.Gave full effort	11369	10828	13675
2.not full effort-illness	91	33	46
3.not full effort-no reason	111	28	31

Value-----	R1GRIPPOS	R2GRIPPOS	R3GRIPPOS
.d:dk	11		6
.m:missing	104	54	99
.n:not willing or able	287	261	203
.r:refuse	1		
.s:skip	11612	12417	9180
1.standing	11102	10646	15372
2.sitting	2459	2202	721
3.lying down	10	6	5

Value-----	S1GRIPPOS	S2GRIPPOS	S3GRIPPOS
.d:dk	10		5
.m:missing	81	40	71
.n:not willing or able	225	211	143
.r:refuse	1		
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.standing	9524	9105	13212
2.sitting	2035	1779	536
3.lying down	7	6	4

Value-----	R1GRIPRSTA	R2GRIPRSTA	R3GRIPRSTA
.d:dk	12		6
.m:missing	104	57	100
.n:not willing or able	287	261	203
.r:refuse	1		2
.s:skip	11612	12417	9180
0.no	1922	1938	2052
1.yes	11648	10913	14043

Value-----	S1GRIPRSTA	S2GRIPRSTA	S3GRIPRSTA
.d:dk	11		5
.m:missing	81	43	72
.n:not willing or able	225	211	143
.r:refuse	1		2
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	1616	1609	1786
1.yes	9949	9278	11963

### How Constructed:

RwDOMHAND indicates the respondent's dominant hand. RwDOMHAND is coded as follows: 1.right hand, 2.left hand, and 3.both hands are equally dominant. Special missing .s is assigned to RwDOMHAND if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the directions. Don't know, refused, or other missing responses are

assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwDOMHAND indicates the current wave's spouse's dominant hand, and is taken from RwdOMHAND. In addition to the special missing codes used for RwdOMHAND, SwDOMHAND employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwLGRIP1, RwLGRIP2, RwrGRIP1, and RwrGRIP2 indicate the respondent's first and second hand strength measurements for the left and right hand, respectively. RwLGRIP and RwrGRIP indicate the respondent's maximum hand strength measurement for the left and right hand, respectively. RwGRIPSUM indicates the maximum measurement of the dominant hand, as such, RwLGRIP is used for respondents with a dominant left hand, and RwrGRIP is used for respondents with a dominant right hand. For respondents with equally dominant hands, the greater value between RwLGRIP and RwrGRIP is used. Special missing .l is used for RwLGRIP1, RwLGRIP2, RwLGRIP, and RwGRIPSUM if the respondent's hand strength measurements were not able to be taken with their left hand. Special missing .t is used for RwrGRIP1, RwrGRIP2, RwrGRIP, and RwrGRIPSUM if the respondent's hand strength measurements were not able to be taken with their right hand. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not complete the hand strength measurement due to surgery, swelling, or other health reason, or if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the test. Special missing .i is assigned to these variables if the grip strength measurements were more than 100 kilograms. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwLGRIP1, SwLGRIP2, SwrGRIP1, and SwrGRIP2 indicate the current wave's spouse's first and second, left and right hand strength measurements, and are taken from the corresponding respondent variables. SwLGRIP and SwrGRIP indicate the current wave's spouse's maximum hand strength measurement for the left and right hand, respectively. SwGRIPSUM indicates the current wave's spouse's dominant hand measurement, and is taken from the spouse's values to RwGRIPSUM. In addition to the special missing codes used by RwLGRIP1, RwLGRIP2, RwrGRIP1, RwrGRIP2, RwLGRIP, RwrGRIP, and RwGRIPSUM, SwLGRIP1, SwLGRIP2, SwrGRIP1, SwrGRIP2, SwLGRIP, SwrGRIP, and SwGRIPSUM employ two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that some extreme values may remain in RwLGRIP1, RwLGRIP2, RwLGRIP, RwrGRIP1, RwrGRIP2, RwrGRIP, and RwGRIPSUM and have been left to the discretion of the user.

RwGRIPCOMP indicates whether the respondent is willing and able to complete the grip strength test. RwGRIPCOMP is coded as 1 if the respondent did not report having had surgery or experience swelling, inflammation, severe pain, or injury in one or both hands within the last 6 months, the respondent understood the directions for the test, and the respondent felt it would be safe to complete the test. RwGRIPCOMP is coded as 0 if the respondent did have surgery or experience swelling, inflammation, severe pain, or injury in one or both hands within the last 6 months, the respondent did not understand the instructions, the respondent expressed safety concerns, or the respondent tried but was unable to complete the grip strength measurements. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwGRIPCOMP indicates whether the respondent's current wave's spouse is willing and able to complete the grip strength test, and its values are taken from RwGRIPCOMP. In addition to the special missing codes employed by RwGRIPCOMP, SwGRIPCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwGRIPPEFF indicates how much effort the interviewer reports the respondent using during the grip strength tests. RwGRIPPEFF is coded as follows: 1.respondent gave full effort, 2.respondent was prevented from giving full effort by illness, pain or other symptoms or discomforts, 3.respondent did not appear to give full effort, but no obvious reason for this. RwGRIPPOS indicates the respondent's position during the grip strength tests. RwGRIPPOS is coded as follows: 1.standing, 2.sitting, 3.lying down. RwGRIPRSTA indicates whether the respondent rested their arms on a support during the grip strength tests. RwGRIPRSTA is coded as 0.no and 1.yes. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special

missing .n is assigned if the respondent did not understand the instructions. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwGRIPEFF, SwGRIPPOS, and SwGRIPRSTA indicates the respondent's current wave's spouse effort reported by the interviewer during the grip strength test, position during the grip strength test, and whether they rested their arms on a support, and their values are taken from RwGRIPEFF, RwGRIPPOS, and RwGRIPRSTA. In addition to the special missing codes employed by RwGRIPEFF, RwGRIPPOS, and RwGRIPRSTA, SwGRIPEFF, SwGRIPPOS, and SwGRIPRSTA employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including hand grip strength measurements.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

PC002	which hand
PC003	UNDERSTAND THE DIRECTIONS OR NOT
QC002	dominant hand
QC003	Left Hand-1f"kgf©
QC004	Right Hand-1f"kgf©
QC005	Left Hand-2f"kgf©
QC006	Right Hand-2f"kgf©
QC007	How much effort
QC008	Rj's position
QC009	R rest their arm OR NOT

### Wave 2:

PC002	Which Hand
PC003	Understand The Directions or Not
QC002	Dominant Hand
QC003	Left Hand 1
QC004	Right Hand 1
QC005	Left Hand 2
QC006	Right Hand 2
QC007	How Much Effort
QC008	R's Position
QC009	R Rest Their Arm or Not

### Wave 3:

PC002	which hand
PC003	UNDERSTAND THE DIRECTIONS OR NOT
QC002	dominant hand
QC003	Left Hand-1(Kg)
QC004	Right Hand-1(Kg)
QC005	Left Hand-2(Kg)
QC006	Right Hand-2(Kg)
QC007	How much effort
QC008	R's Position
QC009	R rest their arm OR NOT

### Hand Grip Strength Measurements: Reasons Didn't Complete

Wave	Variable	Label	Type
1	R1GRIPSFT	r1gripsft:w1 r didn't complete grip: unsafe/health reason	Categ
2	R2GRIPSFT	r2gripsft:w2 r didn't complete grip: unsafe/health reason	Categ
3	R3GRIPSFT	r3gripsft:w3 r didn't complete grip: unsafe/health reason	Categ
1	S1GRIPSFT	s1gripsft:w1 s didn't complete grip: unsafe/health reason	Categ
2	S2GRIPSFT	s2gripsft:w2 s didn't complete grip: unsafe/health reason	Categ
3	S3GRIPSFT	s3gripsft:w3 s didn't complete grip: unsafe/health reason	Categ
1	R1GRIPREF	r1gripref:w1 r didn't complete grip: refused	Categ
2	R2GRIPREF	r2gripref:w2 r didn't complete grip: refused	Categ
3	R3GRIPREF	r3gripref:w3 r didn't complete grip: refused	Categ
1	S1GRIPREF	s1gripref:w1 s didn't complete grip: refused	Categ
2	S2GRIPREF	s2gripref:w2 s didn't complete grip: refused	Categ
3	S3GRIPREF	s3gripref:w3 s didn't complete grip: refused	Categ
1	R1GRIPTRYU	r1griptryu:w1 r didn't complete grip: tried but unable	Categ
2	R2GRIPTRYU	r2griptryu:w2 r didn't complete grip: tried but unable	Categ
3	R3GRIPTRYU	r3griptryu:w3 r didn't complete grip: tried but unable	Categ
1	S1GRIPTRYU	s1griptryu:w1 s didn't complete grip: tried but unable	Categ
2	S2GRIPTRYU	s2griptryu:w2 s didn't complete grip: tried but unable	Categ
3	S3GRIPTRYU	s3griptryu:w3 s didn't complete grip: tried but unable	Categ
1	R1GRIPLEQUP	r1gripequp:w1 r didn't complete grip: faulty equipment/space	Categ
2	R2GRIPLEQUP	r2gripequp:w2 r didn't complete grip: faulty equipment/space	Categ
3	R3GRIPLEQUP	r3gripequp:w3 r didn't complete grip: faulty equipment/space	Categ
1	S1GRIPLEQUP	s1gripequp:w1 s didn't complete grip: faulty equipment/space	Categ
2	S2GRIPLEQUP	s2gripequp:w2 s didn't complete grip: faulty equipment/space	Categ
3	S3GRIPLEQUP	s3gripequp:w3 s didn't complete grip: faulty equipment/space	Categ
1	R1GRIPOTHR	r1gripothr:w1 r didn't complete grip: other reason	Categ
2	R2GRIPOTHR	r2gripothr:w2 r didn't complete grip: other reason	Categ
3	R3GRIPOTHR	r3gripothr:w3 r didn't complete grip: other reason	Categ
1	S1GRIPOTHR	s1gripothr:w1 s didn't complete grip: other reason	Categ
2	S2GRIPOTHR	s2gripothr:w2 s didn't complete grip: other reason	Categ
3	S3GRIPOTHR	s3gripothr:w3 s didn't complete grip: other reason	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1GRIPSFT	314	0.54	0.50	0.00	1.00
R2GRIPSFT	304	0.71	0.45	0.00	1.00
R3GRIPSFT	252	0.89	0.31	0.00	1.00
S1GRIPSFT	242	0.53	0.50	0.00	1.00
S2GRIPSFT	246	0.74	0.44	0.00	1.00
S3GRIPSFT	177	0.90	0.30	0.00	1.00
R1GRIPREF	314	0.08	0.27	0.00	1.00
R2GRIPREF	304	0.03	0.17	0.00	1.00
R3GRIPREF	252	0.03	0.16	0.00	1.00
S1GRIPREF	242	0.08	0.27	0.00	1.00
S2GRIPREF	246	0.03	0.17	0.00	1.00
S3GRIPREF	177	0.03	0.17	0.00	1.00
R1GRIPTRYU	314	0.05	0.21	0.00	1.00
R2GRIPTRYU	304	0.04	0.19	0.00	1.00
R3GRIPTRYU	252	0.08	0.26	0.00	1.00

S1GRIPTRYU	242	0.03	0.18	0.00	1.00
S2GRIPTRYU	246	0.02	0.15	0.00	1.00
S3GRIPTRYU	177	0.06	0.24	0.00	1.00
R1GRIPQUP	314	0.32	0.47	0.00	1.00
R2GRIPQUP	304	0.17	0.38	0.00	1.00
R3GRIPQUP	252	0.02	0.14	0.00	1.00
S1GRIPQUP	242	0.34	0.47	0.00	1.00
S2GRIPQUP	246	0.17	0.37	0.00	1.00
S3GRIPQUP	177	0.02	0.15	0.00	1.00
R1GRIPOTHR	314	0.06	0.24	0.00	1.00
R2GRIPOTHR	304	0.07	0.25	0.00	1.00
R3GRIPOTHR	252	0.04	0.20	0.00	1.00
S1GRIPOTHR	242	0.06	0.24	0.00	1.00
S2GRIPOTHR	246	0.07	0.25	0.00	1.00
S3GRIPOTHR	177	0.04	0.20	0.00	1.00

### Categorical Variable Codes

Value-----	R1GRIPSFT	R2GRIPSFT	R3GRIPSFT
.c:completed test	13571	12841	16092
.d:dk			1
.m:missing	88	24	61
.r:refuse	1		
.s:skip	11612	12417	9180
0.no	145	87	28
1.yes	169	217	224

Value-----	S1GRIPSFT	S2GRIPSFT	S3GRIPSFT
.c:completed test	11566	10879	13746
.d:dk			1
.m:missing	75	16	47
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	114	65	18
1.yes	128	181	159

Value-----	R1GRIPREF	R2GRIPREF	R3GRIPREF
.c:completed test	13571	12841	16092
.d:dk			1
.m:missing	88	24	61
.r:refuse	1		
.s:skip	11612	12417	9180
0.no	290	295	245
1.yes	24	9	7

Value-----	S1GRIPREF	S2GRIPREF	S3GRIPREF
.c:completed test	11566	10879	13746
.d:dk			1
.m:missing	75	16	47
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	223	239	172
1.yes	19	7	5

Value-----	R1GRIPTRYU	R2GRIPTRYU	R3GRIPTRYU
.c:completed test	13571	12841	16092
.d:dk			1
.m:missing	88	24	61
.r:refuse	1		
.s:skip	11612	12417	9180

0.no	299	293	233
1.yes	15	11	19
Value-----	S1GRIPTRYU	S2GRIPTRYU	S3GRIPTRYU
.c:completed test	11566	10879	13746
.d:dk			1
.m:missing	75	16	47
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	234	240	166
1.yes	8	6	11
Value-----	R1GRIPQUP	R2GRIPQUP	R3GRIPQUP
.c:completed test	13571	12841	16092
.d:dk			1
.m:missing	88	24	61
.r:refuse	1		
.s:skip	11612	12417	9180
0.no	214	252	247
1.yes	100	52	5
Value-----	S1GRIPQUP	S2GRIPQUP	S3GRIPQUP
.c:completed test	11566	10879	13746
.d:dk			1
.m:missing	75	16	47
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	160	205	173
1.yes	82	41	4
Value-----	R1GRIPOTHR	R2GRIPOTHR	R3GRIPOTHR
.c:completed test	13571	12841	16092
.d:dk			1
.m:missing	88	24	61
.r:refuse	1		
.s:skip	11612	12417	9180
0.no	294	283	242
1.yes	20	21	10
Value-----	S1GRIPOTHR	S2GRIPOTHR	S3GRIPOTHR
.c:completed test	11566	10879	13746
.d:dk			1
.m:missing	75	16	47
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	227	230	170
1.yes	15	16	7

### How Constructed:

RwGRIPSFT, RwGRIPREF, RwGRIPTRYU, RwGRIPQUP, and RwGRIPOTHR indicate the reasons for the respondent not taking part in the grip strength test as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the grip strength test. RwGRIPSFT indicates whether the respondent did not participate in the grip strength test because they felt it would not be safe, or the interviewer felt it would not be safe, or due to a health problem/condition of the respondent. RwGRIPREF indicates whether the respondent did not participate in the grip strength test because they refused, with no reason given. RwGRIPTRYU indicates whether the respondent did not participate in the grip strength test because they tried but were unable to complete the test. RwGRIPQUP indicates whether the respondent did not participate in the grip strength test because of either problems with equipment/supplies or not having a suitable space to perform the test. RwGRIPOTHR indicates whether the respondent did not participate in the grip strength test because they did not understand the instructions or because of another reason. RwGRIPSFT, RwGRIPREF, RwGRIPTRYU, RwGRIPQUP, and RwGRIPOTHR are coded as 0 if the specific reason was not given for the respondent not completing the grip strength test, and are coded as 1 if the specific reason was given. Special missing .s is assigned to these variables if

respondents did not have their biomarker measurements taken. Special missing .c is assigned if the respondent completed at least one of the grip strength tests. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwGRIPSFT, SwGRIPREF, SwGRIPTRYU, SwGRIPEQUP, and SwGRIPOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the grip strength test, and their values are taken from the spouse's values to Rwgripsft, Rwgripref, Rwgriptryu, Rwgripequp, and Rwgripothr. In addition to the special missing codes employed by Rwgripsft, Rwgripref, Rwgriptryu, Rwgripequp, and Rwgripothr, SwGRIPSFT, SwGRIPREF, SwGRIPTRYU, SwGRIPEQUP, and SwGRIPOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including hand grip strength measurements.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

PC002	which hand
PC003	UNDERSTAND THE DIRECTIONS OR NOT
QC001S1	WHY DIDN'T COMPLETE
QC001S2	WHY DIDN'T COMPLETE
QC001S3	WHY DIDN'T COMPLETE
QC001S4	WHY DIDN'T COMPLETE
QC001S5	WHY DIDN'T COMPLETE
QC001S6	WHY DIDN'T COMPLETE
QC001S7	WHY DIDN'T COMPLETE
QC001S8	WHY DIDN'T COMPLETE
QC001S97	WHY DIDN'T COMPLETE
QC003	Left Hand-1f"kgf@
QC004	Right Hand-1f"kgf@
QC005	Left Hand-2f"kgf@
QC006	Right Hand-2f"kgf@

### Wave 2:

PC002	Which Hand
PC003	Understand The Directions or Not
QC001S1	Why didn't Complete
QC001S2	Why didn't Complete
QC001S3	Why didn't Complete
QC001S4	Why didn't Complete
QC001S5	Why didn't Complete
QC001S6	Why didn't Complete
QC001S7	Why didn't Complete
QC001S8	Why didn't Complete
QC001S97	Why didn't Complete
QC003	Left Hand 1
QC004	Right Hand 1
QC005	Left Hand 2
QC006	Right Hand 2

### Wave 3:

PC002	which hand
PC003	UNDERSTAND THE DIRECTIONS OR NOT
QC001S1	Why Didn't R Complete Hand Strength Test
QC001S2	Why Didn't R Complete Hand Strength Test
QC001S3	Why Didn't R Complete Hand Strength Test
QC001S4	Why Didn't R Complete Hand Strength Test
QC001S5	Why Didn't R Complete Hand Strength Test
QC001S6	Why Didn't R Complete Hand Strength Test
QC001S7	Why Didn't R Complete Hand Strength Test
QC001S8	Why Didn't R Complete Hand Strength Test
QC001S97	Why Didn't R Complete Hand Strength Test

---

QC003	Left Hand-1(Kg)
QC004	Right Hand-1(Kg)
QC005	Left Hand-2(Kg)
QC006	Right Hand-2(Kg)



<b>Height, Weight, and Waist Circumference Measurements</b>
---

Wave	Variable	Label	Type
1	R1MHEIGHT	r1mheight:w1 r measured height in meters	Cont
2	R2MHEIGHT	r2mheight:w2 r measured height in meters	Cont
3	R3MHEIGHT	r3mheight:w3 r measured height in meters	Cont
1	S1MHEIGHT	s1mheight:w1 s measured height in meters	Cont
2	S2MHEIGHT	s2mheight:w2 s measured height in meters	Cont
3	S3MHEIGHT	s3mheight:w3 s measured height in meters	Cont
1	R1MWEIGHT	r1mweight:w1 r measured weight in kilograms	Cont
2	R2MWEIGHT	r2mweight:w2 r measured weight in kilograms	Cont
3	R3MWEIGHT	r3mweight:w3 r measured weight in kilograms	Cont
1	S1MWEIGHT	s1mweight:w1 s measured weight in kilograms	Cont
2	S2MWEIGHT	s2mweight:w2 s measured weight in kilograms	Cont
3	S3MWEIGHT	s3mweight:w3 s measured weight in kilograms	Cont
1	R1MWAIST	r1mwaist:w1 r waist measurement in centimeters	Cont
2	R2MWAIST	r2mwaist:w2 r waist measurement in centimeters	Cont
3	R3MWAIST	r3mwaist:w3 r waist measurement in centimeters	Cont
1	S1MWAIST	s1mwaist:w1 s waist measurement in centimeters	Cont
2	S2MWAIST	s2mwaist:w2 s waist measurement in centimeters	Cont
3	S3MWAIST	s3mwaist:w3 s waist measurement in centimeters	Cont
1	R1MBMI	r1mbmi:w1 r measured Body Mass Index (kg/m <sup>2</sup> )	Cont
2	R2MBMI	r2mbmi:w2 r measured Body Mass Index (kg/m <sup>2</sup> )	Cont
3	R3MBMI	r3mbmi:w3 r measured Body Mass Index (kg/m <sup>2</sup> )	Cont
1	S1MBMI	s1mbmi:w1 s measured Body Mass Index (kg/m <sup>2</sup> )	Cont
2	S2MBMI	s2mbmi:w2 s measured Body Mass Index (kg/m <sup>2</sup> )	Cont
3	S3MBMI	s3mbmi:w3 s measured Body Mass Index (kg/m <sup>2</sup> )	Cont
1	R1MBMICATA	r1mbmicata:w1 r measured BMI categorization for Asians	Categ
2	R2MBMICATA	r2mbmicata:w2 r measured BMI categorization for Asians	Categ
3	R3MBMICATA	r3mbmicata:w3 r measured BMI categorization for Asians	Categ
1	S1MBMICATA	s1mbmicata:w1 s measured BMI categorization for Asians	Categ
2	S2MBMICATA	s2mbmicata:w2 s measured BMI categorization for Asians	Categ
3	S3MBMICATA	s3mbmicata:w3 s measured BMI categorization for Asians	Categ
1	R1HTCOMP	r1htcomp:w1 r willing and able to complete height measurement	Categ
2	R2HTCOMP	r2htcomp:w2 r willing and able to complete height measurement	Categ
3	R3HTCOMP	r3htcomp:w3 r willing and able to complete height measurement	Categ
1	S1HTCOMP	s1htcomp:w1 s willing and able to complete height measurement	Categ
2	S2HTCOMP	s2htcomp:w2 s willing and able to complete height measurement	Categ
3	S3HTCOMP	s3htcomp:w3 s willing and able to complete height measurement	Categ
1	R1WTCOMP	r1wtcomp:w1 r willing and able to complete weight measurement	Categ
2	R2WTCOMP	r2wtcomp:w2 r willing and able to complete weight measurement	Categ
3	R3WTCOMP	r3wtcomp:w3 r willing and able to complete weight measurement	Categ
1	S1WTCOMP	s1wtcomp:w1 s willing and able to complete weight measurement	Categ
2	S2WTCOMP	s2wtcomp:w2 s willing and able to complete weight measurement	Categ
3	S3WTCOMP	s3wtcomp:w3 s willing and able to complete weight measurement	Categ
1	R1WATCOMP	r1watcomp:w1 r willing and able to complete waist measurement	Categ
2	R2WATCOMP	r2watcomp:w2 r willing and able to complete waist measurement	Categ
3	R3WATCOMP	r3watcomp:w3 r willing and able to complete waist measurement	Categ
1	S1WATCOMP	s1watcomp:w1 s willing and able to complete waist measurement	Categ
2	S2WATCOMP	s2watcomp:w2 s willing and able to complete waist measurement	Categ
3	S3WATCOMP	s3watcomp:w3 s willing and able to complete waist measurement	Categ

1	R1HTCOMPL	r1htcompl:w1	r	compliance height measurement	Categ
2	R2HTCOMPL	r2htcompl:w2	r	compliance height measurement	Categ
3	R3HTCOMPL	r3htcompl:w3	r	compliance height measurement	Categ
1	S1HTCOMPL	s1htcompl:w1	s	compliance height measurement	Categ
2	S2HTCOMPL	s2htcompl:w2	s	compliance height measurement	Categ
3	S3HTCOMPL	s3htcompl:w3	s	compliance height measurement	Categ
1	R1WTCOMPL	r1wtcompl:w1	r	compliance weight measurement	Categ
2	R2WTCOMPL	r2wtcompl:w2	r	compliance weight measurement	Categ
3	R3WTCOMPL	r3wtcompl:w3	r	compliance weight measurement	Categ
1	S1WTCOMPL	s1wtcompl:w1	s	compliance weight measurement	Categ
2	S2WTCOMPL	s2wtcompl:w2	s	compliance weight measurement	Categ
3	S3WTCOMPL	s3wtcompl:w3	s	compliance weight measurement	Categ
1	R1WATCOMPL	r1watcompl:w1	r	compliance waist measurement	Categ
2	R2WATCOMPL	r2watcompl:w2	r	compliance waist measurement	Categ
3	R3WATCOMPL	r3watcompl:w3	r	compliance waist measurement	Categ
1	S1WATCOMPL	s1watcompl:w1	s	compliance waist measurement	Categ
2	S2WATCOMPL	s2watcompl:w2	s	compliance waist measurement	Categ
3	S3WATCOMPL	s3watcompl:w3	s	compliance waist measurement	Categ
1	R1WTFLR_C	r1wtflr_c:w1	r	floor surface weight measurement	Categ
2	R2WTFLR_C	r2wtflr_c:w2	r	floor surface weight measurement	Categ
3	R3WTFLR_C	r3wtflr_c:w3	r	floor surface weight measurement	Categ
1	S1WTFLR_C	s1wtflr_c:w1	s	floor surface weight measurement	Categ
2	S2WTFLR_C	s2wtflr_c:w2	s	floor surface weight measurement	Categ
3	S3WTFLR_C	s3wtflr_c:w3	s	floor surface weight measurement	Categ
1	R1SHOEW	r1shoew:w1	r	wearing shoes (weight)	Categ
2	R2SHOEW	r2shoew:w2	r	wearing shoes (weight)	Categ
3	R3SHOEW	r3shoew:w3	r	wearing shoes (weight)	Categ
1	S1SHOEW	s1shoew:w1	s	wearing shoes (weight)	Categ
2	S2SHOEW	s2shoew:w2	s	wearing shoes (weight)	Categ
3	S3SHOEW	s3shoew:w3	s	wearing shoes (weight)	Categ
1	R1BULKY	r1bulky:w1	r	wearing bulky clothes for waist measurement	Categ
2	R2BULKY	r2bulky:w2	r	wearing bulky clothes for waist measurement	Categ
3	R3BULKY	r3bulky:w3	r	wearing bulky clothes for waist measurement	Categ
1	S1BULKY	s1bulky:w1	s	wearing bulky clothes for waist measurement	Categ
2	S2BULKY	s2bulky:w2	s	wearing bulky clothes for waist measurement	Categ
3	S3BULKY	s3bulky:w3	s	wearing bulky clothes for waist measurement	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MHEIGHT	13695	1.58	0.09	0.15	1.87
R2MHEIGHT	13021	1.58	0.09	0.04	1.88
R3MHEIGHT	16234	1.58	0.10	0.17	1.96
S1MHEIGHT	11654	1.59	0.09	0.17	1.87
S2MHEIGHT	11037	1.58	0.09	0.04	1.88
S3MHEIGHT	13847	1.59	0.10	0.17	1.96
R1MWEIGHT	13728	58.79	11.86	0.00	162.00
R2MWEIGHT	13009	59.70	11.68	23.40	172.30
R3MWEIGHT	16248	59.97	11.91	25.80	171.20
S1MWEIGHT	11689	59.50	11.70	0.00	162.00
S2MWEIGHT	11023	60.44	11.61	28.00	172.30
S3MWEIGHT	13858	60.66	11.85	25.80	171.20

R1MWAIST	13769	84.28	12.62	8.40	131.00
R2MWAIST	13042	86.81	11.02	19.50	144.80
R3MWAIST	16263	85.47	13.03	1.00	150.00
S1MWAIST	11718	84.41	12.60	8.40	131.00
S2MWAIST	11052	86.98	10.89	19.50	144.80
S3MWAIST	13869	85.63	12.95	1.00	142.90
R1MBMI	13631	24.16	35.80	0.00	2755.35
R2MBMI	12977	28.09	462.76	11.05	52734.69
R3MBMI	16213	24.56	23.86	12.73	2366.09
S1MBMI	11611	23.98	24.60	0.00	2449.95
S2MBMI	10999	28.93	502.65	12.29	52734.69
S3MBMI	13832	24.67	24.77	12.73	2366.09
R1MBMICATA	13621	2.75	0.97	1.00	4.00
R2MBMICATA	12964	2.86	0.97	1.00	4.00
R3MBMICATA	16183	2.87	0.97	1.00	4.00
S1MBMICATA	11604	2.78	0.97	1.00	4.00
S2MBMICATA	10988	2.89	0.97	1.00	4.00
S3MBMICATA	13807	2.89	0.97	1.00	4.00
R1HTCOMP	13840	0.99	0.10	0.00	1.00
R2HTCOMP	13156	0.99	0.10	0.00	1.00
R3HTCOMP	16362	0.99	0.09	0.00	1.00
S1HTCOMP	11767	0.99	0.10	0.00	1.00
S2HTCOMP	11133	0.99	0.09	0.00	1.00
S3HTCOMP	13936	0.99	0.08	0.00	1.00
R1WTCOMP	13893	0.99	0.11	0.00	1.00
R2WTCOMP	13148	0.99	0.10	0.00	1.00
R3WTCOMP	16364	0.99	0.08	0.00	1.00
S1WTCOMP	11815	0.99	0.10	0.00	1.00
S2WTCOMP	11124	0.99	0.09	0.00	1.00
S3WTCOMP	13938	0.99	0.08	0.00	1.00
R1WATCOMP	13865	0.99	0.08	0.00	1.00
R2WATCOMP	13162	0.99	0.10	0.00	1.00
R3WATCOMP	16362	0.99	0.08	0.00	1.00
S1WATCOMP	11793	0.99	0.08	0.00	1.00
S2WATCOMP	11136	0.99	0.09	0.00	1.00
S3WATCOMP	13937	1.00	0.07	0.00	1.00
R1HTCOMPL	13751	1.01	0.09	1.00	3.00
R2HTCOMPL	13030	1.00	0.06	1.00	3.00
R3HTCOMPL	16238	1.00	0.07	1.00	3.00
S1HTCOMPL	11704	1.01	0.09	1.00	3.00
S2HTCOMPL	11042	1.00	0.05	1.00	3.00
S3HTCOMPL	13851	1.00	0.07	1.00	3.00
R1WTCOMPL	13735	1.01	0.10	1.00	3.00
R2WTCOMPL	13028	1.00	0.06	1.00	3.00
R3WTCOMPL	16247	1.00	0.06	1.00	3.00
S1WTCOMPL	11693	1.00	0.08	1.00	3.00
S2WTCOMPL	11039	1.00	0.06	1.00	3.00
S3WTCOMPL	13856	1.00	0.05	1.00	3.00
R1WATCOMPL	13794	1.01	0.11	1.00	3.00
R2WATCOMPL	13046	1.00	0.06	1.00	3.00
R3WATCOMPL	16260	1.00	0.04	1.00	3.00

S1WATCOMPL	11738	1.01	0.10	1.00	3.00
S2WATCOMPL	11055	1.00	0.05	1.00	3.00
S3WATCOMPL	13868	1.00	0.04	1.00	3.00
R1WTFLLR_C	13737	2.73	1.53	1.00	6.00
R2WTFLLR_C	13025	2.59	1.51	1.00	6.00
R3WTFLLR_C	16251	2.17	1.47	1.00	6.00
S1WTFLLR_C	11695	2.71	1.53	1.00	6.00
S2WTFLLR_C	11037	2.58	1.51	1.00	6.00
S3WTFLLR_C	13860	2.15	1.46	1.00	6.00
R1SHOEWE	13728	0.10	0.30	0.00	1.00
R2SHOEWE	13023	0.15	0.35	0.00	1.00
R3SHOEWE	16249	0.06	0.24	0.00	1.00
S1SHOEWE	11687	0.10	0.29	0.00	1.00
S2SHOEWE	11036	0.14	0.35	0.00	1.00
S3SHOEWE	13858	0.06	0.24	0.00	1.00
R1BULKY	13786	0.04	0.19	0.00	1.00
R2BULKY	13041	0.09	0.28	0.00	1.00
R3BULKY	16261	0.03	0.16	0.00	1.00
S1BULKY	11730	0.03	0.18	0.00	1.00
S2BULKY	11051	0.08	0.27	0.00	1.00
S3BULKY	13869	0.03	0.16	0.00	1.00

### Categorical Variable Codes

Value-----	R1MBMICATA	R2MBMICATA	R3MBMICATA
.d:dk	16		4
.m:missing	134	21	44
.n:not willing or able	178	157	102
.r:refuse	3		2
.s:skip	11612	12417	9180
.x:tried but was unable	12	14	41
1.underweight less than 18.5	949	749	944
2.normal weight from 18.5 to 23.9	5717	4936	6055
3.overweight from 23 to 24.9	2757	2687	3420
4.obesity from 25 to 100	4198	4592	5764

Value-----	S1MBMICATA	S2MBMICATA	S3MBMICATA
.d:dk	11		2
.m:missing	116	16	35
.n:not willing or able	133	115	74
.r:refuse	3		2
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	9	11	26
1.underweight less than 18.5	723	578	742
2.normal weight from 18.5 to 23.9	4779	4090	5063
3.overweight from 23 to 24.9	2385	2304	2946
4.obesity from 25 to 100	3717	4016	5056

Value-----	R1HTCOMP	R2HTCOMP	R3HTCOMP
.m:missing	134	13	44
.s:skip	11612	12417	9180
0.no	145	135	128
1.yes	13695	13021	16234

Value-----	S1HTCOMP	S2HTCOMP	S3HTCOMP
.m:missing	116	8	35
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650

0.no	113	96	89
1.yes	11654	11037	13847
Value-----	R1WTCOMP	R2WTCOMP	R3WTCOMP
.m:missing	81	21	42
.s:skip	11612	12417	9180
0.no	165	139	116
1.yes	13728	13009	16248
Value-----	S1WTCOMP	S2WTCOMP	S3WTCOMP
.m:missing	68	17	33
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	126	101	80
1.yes	11689	11023	13858
Value-----	R1WATCOMP	R2WATCOMP	R3WATCOMP
.m:missing	109	7	44
.s:skip	11612	12417	9180
0.no	96	120	99
1.yes	13769	13042	16263
Value-----	S1WATCOMP	S2WATCOMP	S3WATCOMP
.m:missing	90	5	34
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	75	84	68
1.yes	11718	11052	13869
Value-----	R1HTCOMPL	R2HTCOMPL	R3HTCOMPL
.d:dk	2		3
.m:missing	94	19	73
.n:not willing or able	125	120	92
.r:refuse	2		
.s:skip	11612	12417	9180
1.fully compliant	13684	12991	16182
2.prevented from being fully compliant	49	37	49
3.not fully compliant	18	2	7
Value-----	S1HTCOMPL	S2HTCOMPL	S3HTCOMPL
.d:dk	2		2
.m:missing	78	14	51
.n:not willing or able	97	85	67
.r:refuse	2		
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.fully compliant	11657	11017	13808
2.prevented from being fully compliant	33	23	37
3.not fully compliant	14	2	6
Value-----	R1WTCOMPL	R2WTCOMPL	R3WTCOMPL
.d:dk	3		3
.m:missing	82	3	73
.n:not willing or able	154	138	82
.r:refuse			1
.s:skip	11612	12417	9180
1.fully compliant	13675	12990	16204
2.prevented from being fully compliant	38	33	40
3.not fully compliant	22	5	3
Value-----	S1WTCOMPL	S2WTCOMPL	S3WTCOMPL
.d:dk	3		2
.m:missing	69	2	54
.n:not willing or able	118	100	58
.r:refuse			1
.s:skip	3027	4439	3753

.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.fully compliant	11653	11014	13823
2.prevented from being fully compliant	27	22	30
3.not fully compliant	13	3	3

Value-----	R1WATCOMPL	R2WATCOMPL	R3WATCOMPL
.d:dk	2		2
.m:missing	84	9	52
.n:not willing or able	91	114	91
.r:refuse	3		1
.s:skip	11612	12417	9180
1.fully compliant	13702	13004	16233
2.prevented from being fully compliant	70	38	26
3.not fully compliant	22	4	1

Value-----	S1WATCOMPL	S2WATCOMPL	S3WATCOMPL
.d:dk	2		1
.m:missing	69	8	39
.n:not willing or able	72	78	62
.r:refuse	2		1
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.fully compliant	11676	11031	13849
2.prevented from being fully compliant	47	21	18
3.not fully compliant	15	3	1

Value-----	R1WTFLR_C	R2WTFLR_C	R3WTFLR_C
.d:dk	2		2
.m:missing	81	6	71
.n:not willing or able	154	138	82
.s:skip	11612	12417	9180
1.linoleum/tile/wood	5865	6078	9908
2.carpet	8	24	14
3.clay	484	278	142
4.concrete	7066	6520	6132
5.not sure	42	10	2
6.other	272	115	53

Value-----	S1WTFLR_C	S2WTFLR_C	S3WTFLR_C
.d:dk	2		1
.m:missing	68	4	52
.n:not willing or able	118	100	58
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.linoleum/tile/wood	5043	5196	8509
2.carpet	7	21	10
3.clay	394	224	119
4.concrete	5998	5500	5175
5.not sure	37	9	2
6.other	216	87	45

Value-----	R1SHOEW	R2SHOEW	R3SHOEW
.d:dk	10		3
.m:missing	82	7	72
.n:not willing or able	154	139	82
.s:skip	11612	12417	9180
0.no	12352	11104	15230
1.yes	1376	1919	1019

Value-----	S1SHOEW	S2SHOEW	S3SHOEW
.d:dk	9		2
.m:missing	69	4	53
.n:not willing or able	118	101	58
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650

0.no	10567	9466	13027
1.yes	1120	1570	831
Value-----	R1BULKY	R2BULKY	R3BULKY
.d:dk	8		1
.m:missing	84	14	52
.n:not willing or able	91	114	91
.r:refuse	5		1
.s:skip	11612	12417	9180
0.no	13273	11924	15831
1.yes	513	1117	430
Value-----	S1BULKY	S2BULKY	S3BULKY
.d:dk	8		
.m:missing	69	12	39
.n:not willing or able	72	78	62
.r:refuse	4		1
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	11346	10178	13520
1.yes	384	873	349

### How Constructed:

RwMHEIGHT, RwmWEIGHT and RwmWAIST indicate the respondent's measured height, measured weight, and measured waist circumference, respectively. Height is given in meters, weight in kilograms, and waist circumference in centimeters. If the respondent's height value is between 1 and 2, height is assumed to be given in meters. If the height value is between 3 and 200, height is assumed to be given in centimeters and is converted to meters. Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent did not understand the instructions. Special missing .n was also assigned to RwmWEIGHT if respondents were not eligible for the weight measurement due to having a weight greater or equal to 150 kilograms. Special missing .x is assigned if the respondent tried but was unable to complete the measurement. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwMHEIGHT, SwmWEIGHT, and SwmWAIST indicate the measured height, weight, and waist circumference of the current wave's spouse, respectively. Their values are taken from the spouse's values to RwmHEIGHT, RwmWEIGHT, and RwmWAIST. In addition to the special missing codes used for RwmHEIGHT, RwmWEIGHT, and RwmWAIST, SwMHEIGHT, SwmWEIGHT, and SwmWAIST employ two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that some extreme values may remain in RwmHEIGHT, RwmWEIGHT, and RwmWAIST and have been left to the discretion of the user.

RwMBMI is the respondent's body mass index and it is derived by dividing the respondent's measured weight (kg) by the squared value of their measured height. RwMBMICATA is the BMI category according to the WHO recommendation for the Asian and South Asian population, and is coded as follows: 1.underweight (less than 18.5), 2.normal weight (18.5 to less than 23) 3.overweight (23 to less than 25), 4.obesity (25 or greater). Special missing .s is assigned to these variables if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent was not eligible for the measurement, or if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the height or weight measurements. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwMBMI and SwMBMICATA indicate the measured body mass index and BMI category of the current wave's spouse, respectively. Their values are taken from the spouse's values to RwMBMI and RwMBMICATA. In addition to the special missing codes used for RwMBMI and RwMBMICATA, SwMBMI and SwMBMICATA employ two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwHTCOMP indicates whether the respondent was willing and able to complete the height measurement. RwHTCOMP is coded as 1 if the respondent completed the measurement, and the respondent understood the directions for the measurement, and felt it was safe to participate in the test. RwHTCOMP is coded as 0 if the respondent either did not understand the directions or did not feel it would be safe to participate in the test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwHTCOMP indicates whether the respondent's current wave's spouse was willing and able to complete the height measurement, and its values are taken from RwHTCOMP. In addition to the special missing codes employed by RwHTCOMP, SwHTCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwWTCOMP indicates whether the respondent was willing and able to complete the weight measurement. RwWTCOMP is coded as 1 if the respondent completed the measurement, and the respondent understood the directions for the measurement, and felt it was safe to participate in the test. RwWTCOMP is coded as 0 if the respondent either did not understand the directions, did not feel it would be safe to participate in the test, or was ineligible for the test due to their weight being equal to or greater than 150 kilograms. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwWTCOMP indicates whether the respondent's current wave's spouse was willing and able to complete the weight measurement, and its values are taken from RwWTCOMP. In addition to the special missing codes employed by RwWTCOMP, SwWTCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwWATCOMP indicates whether the respondent was willing and able to complete the waist circumference measurement. RwWATCOMP is coded as 1 if the respondent completed the measurement, and the respondent was able to stand during the measurement, the respondent understood the directions for the measurement, and felt it was safe to participate in the test. RwWATCOMP is coded as 0 if the respondent was not able to stand during the measurement, the respondent did not understand the directions, or did not feel it would be safe to participate in the test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwWATCOMP indicates whether the respondent's current wave's spouse was willing and able to complete the waist circumference measurement, and its values are taken from RwWATCOMP. In addition to the special missing codes employed by RwWATCOMP, SwWATCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwHTCOMPL, RwWTCOMPL, and RwWATCOMPL indicate the respondent's compliance during the height, weight, and waist measurements, respectively. These variables are coded as follows: 1.fully compliant, 2.prevented from being fully compliant due to illness, pain, or other symptoms or discomforts, 3.not fully compliant, but no obvious reason for this. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent did not understand the instructions. Special missing .n was also assigned to RwWTCOMPL if respondents were not eligible for the weight measurement due to having a weight greater or equal to 150 kilograms. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwHTCOMPL, SwWTCOMPL, and SwWATCOMPL indicate the respondent's current wave's spouse's compliance during the height, weight, and waist measurements, respectively, and their values are taken from RwHTCOMPL, RwWTCOMPL, and RwWATCOMPL. In addition to the special missing codes employed by RwHTCOMPL, RwWTCOMPL, and RwWATCOMPL, SwHTCOMPL, SwWTCOMPL, and SwWATCOMPL employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.



RwWTFLR\_C indicates the type of floor surface the respondent was standing on when height measurement was taken. RwWTFLR\_C is coded as follows: 1.linoluem/tile/wood, 2.carpet, 3.clay, 4.concrete, 5.not sure, 6.other. RWSHOEW indicates whether the respondent was wearing shoes during the weight measurement. RWSHOEW is coded as 1 if the respondent was wearing shoes, while a 0 indicates the respondent was not wearing shoes. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent either did not understand the directions, did not feel it would be safe to participate in the test, or was ineligible for the test due to their weight being equal to or greater than 150 kilograms. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwWTFLR\_C indicates the type of floor surface the scale was placed on for the respondent's current wave's spouse's weight measurement. SwSHOEWE indicates whether the current wave's spouse was wearing shoes during the weight measurement. Their values are taken from the spouse's values to RwWTFLR\_C and RWSHOEW, respectively. In addition to the special missing codes employed by RwWTFLR\_C and RWSHOEW, SwWTFLR\_C and SwSHOEWE employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwBULKY indicates whether the respondent was wearing bulky clothes during the waist circumference measurement. RwBULKY is coded as 1 if the respondent was wearing bulky clothes, while a 0 indicates that they were not wearing bulky clothes during the waist circumference measurement. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent cannot stand for the measurement or if the respondent did not understand the instructions. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBULKY indicates whether the current wave's spouse was wearing bulky cloths during the waist circumference measurement. Their values are taken from the spouse's values to RwBULKY. In addition to the special missing codes used for RwBULKY, SwBULKY employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including height, weight, and waist circumference measurements.

## Differences with the RAND HRS/Harmonized HRS

The HRS and the CHARLS use different floor type categories for weight measurements. The HRS uses the following floor categories: 1.linoleum/tile/wood, 2.low-pile carpet, 3.high-pile carpet, 4.concrete, 5.not sure, and 6.other. The CHARLS uses the following floor categories: 1.linoleum/tile/wood, 2.carpet, 3.clay, 4.concrete, 5.not sure, and 6.other. Because of the difference in categorization, the variable in the Harmonized CHARLS indicating floor surface for weight measurements ends with "\_C".

The Harmonized HRS and Harmonized CHARLS use different BMI categorizations. The Harmonized HRS uses the WHO recommended categories for White, Hispanic, and Black individuals. The Harmonized HRS BMI categories are as follows:

1. Underweight, less than 18.5
2. Normal weight, 18.5 to 24.9
3. Pre-obesity, 25 to 25.9
4. Obesity class 1, 30 to 34.9
5. Obesity class 2, 35 to 39.9
6. Obesity class 3, greater than 40

The Harmonized CHARLS uses the WHO recommended categories for the Asian and South Asian population. The Harmonized CHARLS BMI categories are as follows:

1. Underweight less than 18.5
2. Normal weight from 18.5 to 23.9
3. Overweight from 23 to 24.9
4. Obesity, greater than 25

Because of this difference, the variable in the harmonized CHARLS for BMI categories ends with "A".

RwHTFLR in the Harmonized HRS indicates the type of floor surface the respondent was standing on when height measurement was taken. This is not surveyed in the CHARLS and so is not included in the Harmonized CHARLS.

RwSHOEH in the Harmonized HRS indicates whether the respondent was wearing shoes during the height measurement. This is not surveyed in the CHARLS and so is not included in the Harmonized CHARLS.

### CHARLS Variables Used:

#### Wave 1:

PI001	Understand Or Notf¿
PL001	eligible for Weight Measurement?
PL002	Understand Or Notf¿
PM001	Stand Or Not?
PM002	Understand Or Notf¿
QI002	height
QL002	Weight Measuremen
QL003	type of floor surface
QL004	wearing shoes or not
QM002	WAIST CIRCUMFERENCE
QM005	Was the R wearing bulky clothing during this measurement?

#### Wave 2:

PI001	Understand or Not
PL001	Eligible for Weight Measurement?
PL002	Understand or Not
PM001	Stand or Not?
PM002	Understand or Not
QI002	Height
QL002	Weight Measuremen
QL003	Type of Floor Surface
QL004	Wearing Shoes or Not
QM002	Waist Circumference
QM005	Was The R Wearing Bulky Clothing During This Measurement?

#### Wave 3:

PI001	Understand or Not?
PL001	eligible for Weight Measurement?
PL002	Understand or Not?
PM001	Stand Or Not?
PM002	Understand or Not?
QI002	height
QL002	Weight
QL003	The Type of Floor Surface
QL004	wearing shoes or not
QM002	WAIST CIRCUMFERENCE
QM005	Was the R wearing bulky clothing during this measurement?

<b>Height, Weight, and Waist Circumference Measurements: Reasons Didn't Complete</b>
--

Wave	Variable	Label	Type
1	R1HGHTSFT	rlhgthsft:w1 r didn't complete height: unsafe/health reason	Categ
2	R2HGHTSFT	r2hgthsft:w2 r didn't complete height: unsafe/health reason	Categ
3	R3HGHTSFT	r3hgthsft:w3 r didn't complete height: unsafe/health reason	Categ
1	S1HGHTSFT	slhgthsft:w1 s didn't complete height: unsafe/health reason	Categ
2	S2HGHTSFT	s2hgthsft:w2 s didn't complete height: unsafe/health reason	Categ
3	S3HGHTSFT	s3hgthsft:w3 s didn't complete height: unsafe/health reason	Categ
1	R1HGHTREF	rlhghtref:w1 r didn't complete height: refused	Categ
2	R2HGHTREF	r2hghtref:w2 r didn't complete height: refused	Categ
3	R3HGHTREF	r3hghtref:w3 r didn't complete height: refused	Categ
1	S1HGHTREF	slhghtref:w1 s didn't complete height: refused	Categ
2	S2HGHTREF	s2hghtref:w2 s didn't complete height: refused	Categ
3	S3HGHTREF	s3hghtref:w3 s didn't complete height: refused	Categ
1	R1HGHTTRYU	rlghhttryu:w1 r didn't complete height: tried but unable	Categ
2	R2HGHTTRYU	r2ghhttryu:w2 r didn't complete height: tried but unable	Categ
3	R3HGHTTRYU	r3ghhttryu:w3 r didn't complete height: tried but unable	Categ
1	S1HGHTTRYU	slghhttryu:w1 s didn't complete height: tried but unable	Categ
2	S2HGHTTRYU	s2ghhttryu:w2 s didn't complete height: tried but unable	Categ
3	S3HGHTTRYU	s3ghhttryu:w3 s didn't complete height: tried but unable	Categ
1	R1HGHTEQUP	rlhghtequip:w1 r didn't complete height: faulty equipment/spa	Categ
2	R2HGHTEQUP	r2hghtequip:w2 r didn't complete height: faulty equipment/spa	Categ
3	R3HGHTEQUP	r3hghtequip:w3 r didn't complete height: faulty equipment/spa	Categ
1	S1HGHTEQUP	slhghtequip:w1 s didn't complete height: faulty equipment/spa	Categ
2	S2HGHTEQUP	s2hghtequip:w2 s didn't complete height: faulty equipment/spa	Categ
3	S3HGHTEQUP	s3hghtequip:w3 s didn't complete height: faulty equipment/spa	Categ
1	R1HGHTOTHR	rlhgthtothr:w1 r didn't complete height: other reason	Categ
2	R2HGHTOTHR	r2hgthtothr:w2 r didn't complete height: other reason	Categ
3	R3HGHTOTHR	r3hgthtothr:w3 r didn't complete height: other reason	Categ
1	S1HGHTOTHR	slhgthtothr:w1 s didn't complete height: other reason	Categ
2	S2HGHTOTHR	s2hgthtothr:w2 s didn't complete height: other reason	Categ
3	S3HGHTOTHR	s3hgthtothr:w3 s didn't complete height: other reason	Categ
1	R1WGHTSFT	rlwgthsft:w1 r didn't complete weight: unsafe/health reason	Categ
2	R2WGHTSFT	r2wgthsft:w2 r didn't complete weight: unsafe/health reason	Categ
3	R3WGHTSFT	r3wgthsft:w3 r didn't complete weight: unsafe/health reason	Categ
1	S1WGHTSFT	slwgthsft:w1 s didn't complete weight: unsafe/health reason	Categ
2	S2WGHTSFT	s2wgthsft:w2 s didn't complete weight: unsafe/health reason	Categ
3	S3WGHTSFT	s3wgthsft:w3 s didn't complete weight: unsafe/health reason	Categ
1	R1WGHTREF	rlwghtref:w1 r didn't complete weight: refused	Categ
2	R2WGHTREF	r2wghtref:w2 r didn't complete weight: refused	Categ
3	R3WGHTREF	r3wghtref:w3 r didn't complete weight: refused	Categ
1	S1WGHTREF	slwghtref:w1 s didn't complete weight: refused	Categ
2	S2WGHTREF	s2wghtref:w2 s didn't complete weight: refused	Categ
3	S3WGHTREF	s3wghtref:w3 s didn't complete weight: refused	Categ
1	R1WGHTTRYU	rlwghhttryu:w1 r didn't complete weight: tried but unable	Categ
2	R2WGHTTRYU	r2wghhttryu:w2 r didn't complete weight: tried but unable	Categ
3	R3WGHTTRYU	r3wghhttryu:w3 r didn't complete weight: tried but unable	Categ
1	S1WGHTTRYU	slwghhttryu:w1 s didn't complete weight: tried but unable	Categ
2	S2WGHTTRYU	s2wghhttryu:w2 s didn't complete weight: tried but unable	Categ
3	S3WGHTTRYU	s3wghhttryu:w3 s didn't complete weight: tried but unable	Categ

1	R1WGHTEQUP	r1wghttryu:w1	r	didn't complete weight: faulty equipment/spa	Categ
2	R2WGHTEQUP	r2wghttryu:w2	r	didn't complete weight: faulty equipment/spa	Categ
3	R3WGHTEQUP	r3wghttryu:w3	r	didn't complete weight: faulty equipment/spa	Categ
1	S1WGHTEQUP	s1wghtequip:w1	s	didn't complete weight: faulty equipment/spa	Categ
2	S2WGHTEQUP	s2wghtequip:w2	s	didn't complete weight: faulty equipment/spa	Categ
3	S3WGHTEQUP	s3wghtequip:w3	s	didn't complete weight: faulty equipment/spa	Categ
1	R1WGHTOTHR	r1wghttothr:w1	r	didn't complete weight: other reason	Categ
2	R2WGHTOTHR	r2wghttothr:w2	r	didn't complete weight: other reason	Categ
3	R3WGHTOTHR	r3wghttothr:w3	r	didn't complete weight: other reason	Categ
1	S1WGHTOTHR	s1wghttothr:w1	s	didn't complete weight: other reason	Categ
2	S2WGHTOTHR	s2wghttothr:w2	s	didn't complete weight: other reason	Categ
3	S3WGHTOTHR	s3wghttothr:w3	s	didn't complete weight: other reason	Categ
1	R1WSTSFT	r1wstsft:w1	r	didn't complete waist: unsafe/health reason	Categ
2	R2WSTSFT	r2wstsft:w2	r	didn't complete waist: unsafe/health reason	Categ
3	R3WSTSFT	r3wstsft:w3	r	didn't complete waist: unsafe/health reason	Categ
1	S1WSTSFT	s1wstsft:w1	s	didn't complete waist: unsafe/health reason	Categ
2	S2WSTSFT	s2wstsft:w2	s	didn't complete waist: unsafe/health reason	Categ
3	S3WSTSFT	s3wstsft:w3	s	didn't complete waist: unsafe/health reason	Categ
1	R1WSTREF	r1wstref:w1	r	didn't complete waist: refused	Categ
2	R2WSTREF	r2wstref:w2	r	didn't complete waist: refused	Categ
3	R3WSTREF	r3wstref:w3	r	didn't complete waist: refused	Categ
1	S1WSTREF	s1wstref:w1	s	didn't complete waist: refused	Categ
2	S2WSTREF	s2wstref:w2	s	didn't complete waist: refused	Categ
3	S3WSTREF	s3wstref:w3	s	didn't complete waist: refused	Categ
1	R1WSTTRYU	r1wsttryu:w1	r	didn't complete waist: tried but unable	Categ
2	R2WSTTRYU	r2wsttryu:w2	r	didn't complete waist: tried but unable	Categ
3	R3WSTTRYU	r3wsttryu:w3	r	didn't complete waist: tried but unable	Categ
1	S1WSTTRYU	s1wsttryu:w1	s	didn't complete waist: tried but unable	Categ
2	S2WSTTRYU	s2wsttryu:w2	s	didn't complete waist: tried but unable	Categ
3	S3WSTTRYU	s3wsttryu:w3	s	didn't complete waist: tried but unable	Categ
1	R1WSTEQUP	r1wstequip:w1	r	didn't complete waist: faulty equipment/space	Categ
2	R2WSTEQUP	r2wstequip:w2	r	didn't complete waist: faulty equipment/space	Categ
3	R3WSTEQUP	r3wstequip:w3	r	didn't complete waist: faulty equipment/space	Categ
1	S1WSTEQUP	s1wstequip:w1	s	didn't complete waist: faulty equipment/space	Categ
2	S2WSTEQUP	s2wstequip:w2	s	didn't complete waist: faulty equipment/space	Categ
3	S3WSTEQUP	s3wstequip:w3	s	didn't complete waist: faulty equipment/space	Categ
1	R1WSTOTHR	r1wsttothr:w1	r	didn't complete waist: other reason	Categ
2	R2WSTOTHR	r2wsttothr:w2	r	didn't complete waist: other reason	Categ
3	R3WSTOTHR	r3wsttothr:w3	r	didn't complete waist: other reason	Categ
1	S1WSTOTHR	s1wsttothr:w1	s	didn't complete waist: other reason	Categ
2	S2WSTOTHR	s2wsttothr:w2	s	didn't complete waist: other reason	Categ
3	S3WSTOTHR	s3wsttothr:w3	s	didn't complete waist: other reason	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HGHTSFT	145	0.80	0.40	0.00	1.00
R2HGHTSFT	136	0.88	0.32	0.00	1.00
R3HGHTSFT	124	0.92	0.27	0.00	1.00
S1HGHTSFT	108	0.79	0.41	0.00	1.00
S2HGHTSFT	97	0.87	0.34	0.00	1.00
S3HGHTSFT	86	0.90	0.31	0.00	1.00

R1HGHTREF	145	0.15	0.36	0.00	1.00
R2HGHTREF	136	0.04	0.19	0.00	1.00
R3HGHTREF	124	0.02	0.15	0.00	1.00
S1HGHTREF	108	0.17	0.37	0.00	1.00
S2HGHTREF	97	0.04	0.20	0.00	1.00
S3HGHTREF	86	0.03	0.18	0.00	1.00
R1HGHTTRYU	145	0.04	0.20	0.00	1.00
R2HGHTTRYU	136	0.03	0.17	0.00	1.00
R3HGHTTRYU	124	0.02	0.15	0.00	1.00
S1HGHTTRYU	108	0.04	0.19	0.00	1.00
S2HGHTTRYU	97	0.02	0.14	0.00	1.00
S3HGHTTRYU	86	0.01	0.11	0.00	1.00
R1HGHTEQUP	145	0.03	0.18	0.00	1.00
R2HGHTEQUP	136	0.02	0.15	0.00	1.00
R3HGHTEQUP	124	0.00	0.00	0.00	0.00
S1HGHTEQUP	108	0.04	0.19	0.00	1.00
S2HGHTEQUP	97	0.03	0.17	0.00	1.00
S3HGHTEQUP	86	0.00	0.00	0.00	0.00
R1HGHTOTHR	145	0.07	0.25	0.00	1.00
R2HGHTOTHR	136	0.07	0.26	0.00	1.00
R3HGHTOTHR	124	0.06	0.25	0.00	1.00
S1HGHTOTHR	108	0.06	0.23	0.00	1.00
S2HGHTOTHR	97	0.05	0.22	0.00	1.00
S3HGHTOTHR	86	0.07	0.26	0.00	1.00
R1WGHTSFT	159	0.58	0.49	0.00	1.00
R2WGHTSFT	146	0.70	0.46	0.00	1.00
R3WGHTSFT	119	0.90	0.30	0.00	1.00
S1WGHTSFT	121	0.59	0.49	0.00	1.00
S2WGHTSFT	107	0.65	0.48	0.00	1.00
S3WGHTSFT	85	0.89	0.31	0.00	1.00
R1WGHTREF	159	0.15	0.36	0.00	1.00
R2WGHTREF	146	0.03	0.18	0.00	1.00
R3WGHTREF	119	0.02	0.13	0.00	1.00
S1WGHTREF	121	0.15	0.36	0.00	1.00
S2WGHTREF	107	0.04	0.19	0.00	1.00
S3WGHTREF	85	0.02	0.15	0.00	1.00
R1WGHTTRYU	159	0.06	0.23	0.00	1.00
R2WGHTTRYU	146	0.02	0.14	0.00	1.00
R3WGHTTRYU	119	0.03	0.16	0.00	1.00
S1WGHTTRYU	121	0.06	0.23	0.00	1.00
S2WGHTTRYU	107	0.03	0.17	0.00	1.00
S3WGHTTRYU	85	0.01	0.11	0.00	1.00
R1WGHTEQUP	159	0.23	0.42	0.00	1.00
R2WGHTEQUP	146	0.21	0.41	0.00	1.00
R3WGHTEQUP	119	0.03	0.18	0.00	1.00
S1WGHTEQUP	121	0.22	0.42	0.00	1.00
S2WGHTEQUP	107	0.25	0.44	0.00	1.00
S3WGHTEQUP	85	0.02	0.15	0.00	1.00
R1WGHTOTHR	159	0.08	0.26	0.00	1.00
R2WGHTOTHR	146	0.08	0.26	0.00	1.00
R3WGHTOTHR	119	0.06	0.24	0.00	1.00

S1WGHTOTHR	121	0.07	0.25	0.00	1.00
S2WGHTOTHR	107	0.07	0.25	0.00	1.00
S3WGHTOTHR	85	0.06	0.24	0.00	1.00
R1WSTSFT	95	0.57	0.50	0.00	1.00
R2WSTSFT	142	0.57	0.50	0.00	1.00
R3WSTSFT	110	0.87	0.33	0.00	1.00
S1WSTSFT	73	0.60	0.49	0.00	1.00
S2WSTSFT	100	0.52	0.50	0.00	1.00
S3WSTSFT	76	0.88	0.33	0.00	1.00
R1WSTREF	95	0.36	0.48	0.00	1.00
R2WSTREF	142	0.06	0.24	0.00	1.00
R3WSTREF	110	0.05	0.21	0.00	1.00
S1WSTREF	73	0.36	0.48	0.00	1.00
S2WSTREF	100	0.08	0.27	0.00	1.00
S3WSTREF	76	0.04	0.20	0.00	1.00
R1WSTTRYU	95	0.04	0.20	0.00	1.00
R2WSTTRYU	142	0.03	0.17	0.00	1.00
R3WSTTRYU	110	0.04	0.19	0.00	1.00
S1WSTTRYU	73	0.05	0.23	0.00	1.00
S2WSTTRYU	100	0.01	0.10	0.00	1.00
S3WSTTRYU	76	0.01	0.11	0.00	1.00
R1WSTEQUP	95	0.00	0.00	0.00	0.00
R2WSTEQUP	142	0.25	0.44	0.00	1.00
R3WSTEQUP	110	0.01	0.10	0.00	1.00
S1WSTEQUP	73	0.00	0.00	0.00	0.00
S2WSTEQUP	100	0.30	0.46	0.00	1.00
S3WSTEQUP	76	0.01	0.11	0.00	1.00
R1WSTOTHR	95	0.15	0.36	0.00	1.00
R2WSTOTHR	142	0.14	0.35	0.00	1.00
R3WSTOTHR	110	0.10	0.30	0.00	1.00
S1WSTOTHR	73	0.12	0.33	0.00	1.00
S2WSTOTHR	100	0.12	0.33	0.00	1.00
S3WSTOTHR	76	0.08	0.27	0.00	1.00

### Categorical Variable Codes

Value-----	R1HGHTSFT	R2HGHTSFT	R3HGHTSFT
.c:completed test	13689	13020	16233
.m:missing	140	13	49
.s:skip	11612	12417	9180
0.no	29	16	10
1.yes	116	120	114

Value-----	S1HGHTSFT	S2HGHTSFT	S3HGHTSFT
.c:completed test	11653	11036	13846
.m:missing	122	8	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	23	13	9
1.yes	85	84	77

Value-----	R1HGHTREF	R2HGHTREF	R3HGHTREF
.c:completed test	13689	13020	16233
.m:missing	140	13	49
.s:skip	11612	12417	9180
0.no	123	131	121

1.yes	22	5	3
Value-----	S1HGHTREF	S2HGHTREF	S3HGHTREF
.c:completed test	11653	11036	13846
.m:missing	122	8	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	90	93	83
1.yes	18	4	3
Value-----	R1HGHTTRYU	R2HGHTTRYU	R3HGHTTRYU
.c:completed test	13689	13020	16233
.m:missing	140	13	49
.s:skip	11612	12417	9180
0.no	139	132	121
1.yes	6	4	3
Value-----	S1HGHTTRYU	S2HGHTTRYU	S3HGHTTRYU
.c:completed test	11653	11036	13846
.m:missing	122	8	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	104	95	85
1.yes	4	2	1
Value-----	R1HGHTEQUP	R2HGHTEQUP	R3HGHTEQUP
.c:completed test	13689	13020	16233
.m:missing	140	13	49
.s:skip	11612	12417	9180
0.no	140	133	124
1.yes	5	3	
Value-----	S1HGHTEQUP	S2HGHTEQUP	S3HGHTEQUP
.c:completed test	11653	11036	13846
.m:missing	122	8	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	104	94	86
1.yes	4	3	
Value-----	R1HGHTOTHR	R2HGHTOTHR	R3HGHTOTHR
.c:completed test	13689	13020	16233
.m:missing	140	13	49
.s:skip	11612	12417	9180
0.no	135	126	116
1.yes	10	10	8
Value-----	S1HGHTOTHR	S2HGHTOTHR	S3HGHTOTHR
.c:completed test	11653	11036	13846
.m:missing	122	8	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	102	92	80
1.yes	6	5	6
Value-----	R1WGHTSFT	R2WGHTSFT	R3WGHTSFT
.c:completed test	13720	13002	16241
.m:missing	95	21	46
.s:skip	11612	12417	9180
0.no	66	44	12
1.yes	93	102	107
Value-----	S1WGHTSFT	S2WGHTSFT	S3WGHTSFT
.c:completed test	11685	11017	13851
.m:missing	77	17	35

.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	50	37	9
1.yes	71	70	76
Value-----	R1WGHTREF	R2WGHTREF	R3WGHTREF
.c:completed test	13720	13002	16241
.m:missing	95	21	46
.s:skip	11612	12417	9180
0.no	135	141	117
1.yes	24	5	2
Value-----	S1WGHTREF	S2WGHTREF	S3WGHTREF
.c:completed test	11685	11017	13851
.m:missing	77	17	35
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	103	103	83
1.yes	18	4	2
Value-----	R1WGHTTRYU	R2WGHTTRYU	R3WGHTTRYU
.c:completed test	13720	13002	16241
.m:missing	95	21	46
.s:skip	11612	12417	9180
0.no	150	143	116
1.yes	9	3	3
Value-----	S1WGHTTRYU	S2WGHTTRYU	S3WGHTTRYU
.c:completed test	11685	11017	13851
.m:missing	77	17	35
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	114	104	84
1.yes	7	3	1
Value-----	R1WGHTEQUP	R2WGHTEQUP	R3WGHTEQUP
.c:completed test	13720	13002	16241
.m:missing	95	21	46
.s:skip	11612	12417	9180
0.no	123	115	115
1.yes	36	31	4
Value-----	S1WGHTEQUP	S2WGHTEQUP	S3WGHTEQUP
.c:completed test	11685	11017	13851
.m:missing	77	17	35
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	94	80	83
1.yes	27	27	2
Value-----	R1WGHTOTHR	R2WGHTOTHR	R3WGHTOTHR
.c:completed test	13720	13002	16241
.m:missing	95	21	46
.s:skip	11612	12417	9180
0.no	147	135	112
1.yes	12	11	7
Value-----	S1WGHTOTHR	S2WGHTOTHR	S3WGHTOTHR
.c:completed test	11685	11017	13851
.m:missing	77	17	35
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	113	100	80
1.yes	8	7	5



Value-----	R1WSTSFT	R2WSTSFT	R3WSTSFT
.c:completed test	13767	13020	16245
.d:dk			1
.m:missing	112	7	50
.s:skip	11612	12417	9180
0.no	41	61	14
1.yes	54	81	96

Value-----	S1WSTSFT	S2WSTSFT	S3WSTSFT
.c:completed test	11717	11036	13855
.d:dk			1
.m:missing	93	5	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	29	48	9
1.yes	44	52	67

Value-----	R1WSTREF	R2WSTREF	R3WSTREF
.c:completed test	13767	13020	16245
.d:dk			1
.m:missing	112	7	50
.s:skip	11612	12417	9180
0.no	61	133	105
1.yes	34	9	5

Value-----	S1WSTREF	S2WSTREF	S3WSTREF
.c:completed test	11717	11036	13855
.d:dk			1
.m:missing	93	5	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	47	92	73
1.yes	26	8	3

Value-----	R1WSTTRYU	R2WSTTRYU	R3WSTTRYU
.c:completed test	13767	13020	16245
.d:dk			1
.m:missing	112	7	50
.s:skip	11612	12417	9180
0.no	91	138	106
1.yes	4	4	4

Value-----	S1WSTTRYU	S2WSTTRYU	S3WSTTRYU
.c:completed test	11717	11036	13855
.d:dk			1
.m:missing	93	5	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	69	99	75
1.yes	4	1	1

Value-----	R1WSTEQUP	R2WSTEQUP	R3WSTEQUP
.c:completed test	13767	13020	16245
.d:dk			1
.m:missing	112	7	50
.s:skip	11612	12417	9180
0.no	95	106	109
1.yes		36	1

Value-----	S1WSTEQUP	S2WSTEQUP	S3WSTEQUP
.c:completed test	11717	11036	13855
.d:dk			1
.m:missing	93	5	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719

.v:sp nr	538	622	650
0.no	73	70	75
1.yes		30	1
Value-----	R1WSTOTHR	R2WSTOTHR	R3WSTOTHR
.c:completed test	13767	13020	16245
.d:dk			1
.m:missing	112	7	50
.s:skip	11612	12417	9180
0.no	81	122	99
1.yes	14	20	11
Value-----	S1WSTOTHR	S2WSTOTHR	S3WSTOTHR
.c:completed test	11717	11036	13855
.d:dk			1
.m:missing	93	5	39
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	64	88	70
1.yes	9	12	6

### How Constructed:

RwHGHTSFT, RwHGHTREF, RwHGHTTRYU, RwHGHTEQUP, and RwHGHTOTHR indicate the reasons for the respondent not taking part in the height measurement as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the height measurement. RwHGHTSFT indicates whether the respondent did not participate in the height measurement because they felt it would not be safe, the interviewer felt it would be unsafe, the respondent had a humpback, the respondent cannot stand, or some other health problem. RwHGHTREF indicates whether the respondent did not participate in the height measurement because they refused, with no reason given. RwHGHTTRYU indicates whether the respondent did not participate in the height measurement because they tried but were unable to complete the measurement. RwHGHTEQUP indicates whether the respondent did not participate in the height measurement because of either problems with equipment/supplies or not having a suitable space to perform the measurement. RwHGHTOTHR indicates whether the respondent did not participate in the height measurement because either they did not understand the instructions or because of another reason. RwHGHTSFT, RwHGHTREF, RwHGHTTRYU, RwHGHTEQUP, and RwHGHTOTHR are coded as 0 if the specific reason was not given for the respondent not completing the height measurement, and are coded as 1 if the specific reason was given. Special missing .c is assigned if the respondent completed the height measurement. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwHGHTSFT, SwHGHTREF, SwHGHTTRYU, SwHGHTEQUP, and SwHGHTOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the height measurement, and their values are taken from the spouse's values of RwHGHTSFT, RwHGHTREF, RwHGHTTRYU, RwHGHTEQUP, and RwHGHTOTHR. In addition to the special missing codes employed by RwHGHTSFT, RwHGHTREF, RwHGHTTRYU, RwHGHTEQUP, and RwHGHTOTHR, SwHGHTSFT, SwHGHTREF, SwHGHTTRYU, SwHGHTEQUP, and SwHGHTOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwWGHTSFT, RwWGHTREF, RwWGHTTRYU, RwWGHTEQUP, and RwWGHTOTHR indicate the reasons for the respondent not taking part in the weight measurement as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the weight measurement. RwWGHTSFT indicates whether the respondent did not participate in the weight measurement because they felt it would not be safe, the interviewer felt it would be unsafe, the respondent could not stand or balance on scale, or some other health reason. RwWGHTREF indicates whether the respondent did not participate in the weight measurement because they refused, with no reason given. RwWGHTTRYU indicates whether the respondent did not participate in the weight measurement because they tried but were unable to complete the measurement. RwWGHTEQUP indicates whether the respondent did not participate in the weight measurement because of either problems with equipment/supplies or not having a suitable space to perform the measurement. RwWGHTOTHR indicates whether the respondent did not participate in the weight measurement because either they did not understand the instructions or because of another reason. RwWGHTSFT, RwWGHTREF, RwWGHTTRYU, RwWGHTEQUP, and RwWGHTOTHR are coded as 0 if the specific reason was not given for the respondent not completing the weight measurement, and are coded as 1 if the specific reason was given. Special

missing .c is assigned if the respondent completed the weight measurement. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwWGHTSFT, SwWGHTREF, SwWGHTTRYU, SwWGHTEQUP, and SwWGHTOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the weight measurement, and their values are taken from the spouse's values to RwwGHTSFT, RwwGHTREF, RwwGHTTRYU, RwwGHTEQUP, and RwwGHTOTHR. In addition to the special missing codes employed by RwwGHTSFT, RwwGHTREF, RwwGHTTRYU, RwwGHTEQUP, and RwwGHTOTHR, SwWGHTSFT, SwWGHTREF, SwWGHTTRYU, SwWGHTEQUP, and SwWGHTOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwwSTSFT, RwwSTREF, RwwSTTRYU, RwwSTEQUP, and RwwSTOTHR indicate the reasons for the respondent not taking part in the waist measurement as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the waist measurement. RwwSTSFT indicates whether the respondent did not participate in the waist measurement because they felt it would not be safe, or the interviewer felt it would be unsafe, or the respondent is not able to stand. RwwSTREF indicates whether the respondent did not participate in the waist measurement because they refused, with no reason given. RwwSTTRYU indicates whether the respondent did not participate in the waist measurement because they tried but were unable to complete the measurement. RwwSTEQUP indicates whether the respondent did not participate in the waist measurement because of problems with equipment/supplies or not having a suitable space to perform the measurement. RwwSTOTHR indicates whether the respondent did not participate in the waist measurement because either they did not understand the instructions or because of another reason. RwwSTSFT, RwwSTREF, RwwSTTRYU, RwwSTEQUP, and RwwSTOTHR are coded as 0 if the specific reason was not given for the respondent not completing the waist measurement, and are coded as 1 if the specific reason was given. Special missing .c is assigned if the respondent completed the waist measurement. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwWSTSFT, SwWSTREF, SwWSTTRYU, SwWSTEQUP, and SwWSTOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the waist measurement, and their values are taken from the spouse's values to RwwSTSFT, RwwSTREF, RwwSTTRYU, RwwSTEQUP, and RwwSTOTHR. In addition to the special missing codes employed by RwwSTSFT, RwwSTREF, RwwSTTRYU, RwwSTEQUP, and RwwSTOTHR, SwWSTSFT, SwWSTREF, SwWSTTRYU, SwWSTEQUP, and SwWSTOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including height, weight, and waist circumference measurements.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

Wave 1:

PI001	Understand Or Notf¿
PL001	eligible for Weight Measurement?
PL002	Understand Or Notf¿
PM001	Stand Or Not?
PM002	Understand Or Notf¿
QI001S1	Why didn't complete?
QI001S2	Why didn't complete?
QI001S3	Why didn't complete?
QI001S4	Why didn't complete?
QI001S5	Why didn't complete?
QI001S6	Why didn't complete?
QI001S7	Why didn't complete?
QI001S8	Why didn't complete?
QI001S97	Why didn't complete?

QI002	height
QL001S1	Why didn't complete?
QL001S2	Why didn't complete?
QL001S3	Why didn't complete?
QL001S4	Why didn't complete?
QL001S5	Why didn't complete?
QL001S6	Why didn't complete?
QL001S7	Why didn't complete?
QL001S8	Why didn't complete?
QL001S97	Why didn't complete?
QL002	Weight Measuremen
QM001S1	Why didn't complete?
QM001S2	Why didn't complete?
QM001S3	Why didn't complete?
QM001S4	Why didn't complete?
QM001S5	Why didn't complete?
QM001S6	Why didn't complete?
QM001S7	Why didn't complete?
QM001S8	Why didn't complete?
QM001S97	Why didn't complete?
QM002	WAIST CIRCUMFERENCE
Wave 2:	
PI001	Understand or Not
PL001	Eligible for Weight Measurement?
PL002	Understand or Not
PM001	Stand or Not?
PM002	Understand or Not
QI001S1	Why didn't Complete?
QI001S2	Why didn't Complete?
QI001S3	Why didn't Complete?
QI001S4	Why didn't Complete?
QI001S5	Why didn't Complete?
QI001S6	Why didn't Complete?
QI001S7	Why didn't Complete?
QI001S8	Why didn't Complete?
QI001S97	Why didn't Complete?
QI002	Height
QL001S1	Why didn't Complete?
QL001S2	Why didn't Complete?
QL001S3	Why didn't Complete?
QL001S4	Why didn't Complete?
QL001S5	Why didn't Complete?
QL001S6	Why didn't Complete?
QL001S7	Why didn't Complete?
QL001S8	Why didn't Complete?
QL001S97	Why didn't Complete?
QL002	Weight Measuremen
QM001S1	Why didn't Complete?
QM001S2	Why didn't Complete?
QM001S3	Why didn't Complete?
QM001S4	Why didn't Complete?
QM001S5	Why didn't Complete?
QM001S6	Why didn't Complete?
QM001S7	Why didn't Complete?
QM001S8	Why didn't Complete?
QM001S97	Why didn't Complete?
QM002	Waist Circumference
Wave 3:	
PI001	Understand or Not?
PL001	eligible for Weight Measurement?
PL002	Understand or Not?
PM001	Stand Or Not?
PM002	Understand or Not?
QI001S1	Why Didn't R Complete The Height Measurement?
QI001S2	Why Didn't R Complete The Height Measurement?
QI001S3	Why Didn't R Complete The Height Measurement?
QI001S4	Why Didn't R Complete The Height Measurement?
QI001S5	Why Didn't R Complete The Height Measurement?
QI001S6	Why Didn't R Complete The Height Measurement?

QI001S7	Why Didn't R Complete The Height Measurement?
QI001S8	Why Didn't R Complete The Height Measurement?
QI001S97	Why Didn't R Complete The Height Measurement?
QI002	height
QL001S1	Why Didn't R Complete The Weight Measurement?
QL001S2	Why Didn't R Complete The Weight Measurement?
QL001S3	Why Didn't R Complete The Weight Measurement?
QL001S4	Why Didn't R Complete The Weight Measurement?
QL001S5	Why Didn't R Complete The Weight Measurement?
QL001S6	Why Didn't R Complete The Weight Measurement?
QL001S7	Why Didn't R Complete The Weight Measurement?
QL001S8	Why Didn't R Complete The Weight Measurement?
QL001S97	Why Didn't R Complete The Weight Measurement?
QL002	Weight
QM001S1	Why Didn't R Complete The Waist Measurement?
QM001S2	Why Didn't R Complete The Waist Measurement?
QM001S3	Why Didn't R Complete The Waist Measurement?
QM001S4	Why Didn't R Complete The Waist Measurement?
QM001S5	Why Didn't R Complete The Waist Measurement?
QM001S6	Why Didn't R Complete The Waist Measurement?
QM001S7	Why Didn't R Complete The Waist Measurement?
QM001S8	Why Didn't R Complete The Waist Measurement?
QM001S97	Why Didn't R Complete The Waist Measurement?
QM002	WAIST CIRCUMFERENCE

<b>Lung Function Measurements (Peak Flow)</b>
---

Wave	Variable	Label	Type
1	R1PUFF1	r1puff1:w1 r lung function peak flow 1	Cont
2	R2PUFF1	r2puff1:w2 r lung function peak flow 1	Cont
3	R3PUFF1	r3puff1:w3 r lung function peak flow 1	Cont
1	S1PUFF1	s1puff1:w1 s lung function peak flow 1	Cont
2	S2PUFF1	s2puff1:w2 s lung function peak flow 1	Cont
3	S3PUFF1	s3puff1:w3 s lung function peak flow 1	Cont
1	R1PUFF2	r1puff2:w1 r lung function peak flow 2	Cont
2	R2PUFF2	r2puff2:w2 r lung function peak flow 2	Cont
3	R3PUFF2	r3puff2:w3 r lung function peak flow 2	Cont
1	S1PUFF2	s1puff2:w1 s lung function peak flow 2	Cont
2	S2PUFF2	s2puff2:w2 s lung function peak flow 2	Cont
3	S3PUFF2	s3puff2:w3 s lung function peak flow 2	Cont
1	R1PUFF3	r1puff3:w1 r lung function peak flow 3	Cont
2	R2PUFF3	r2puff3:w2 r lung function peak flow 3	Cont
3	R3PUFF3	r3puff3:w3 r lung function peak flow 3	Cont
1	S1PUFF3	s1puff3:w1 s lung function peak flow 3	Cont
2	S2PUFF3	s2puff3:w2 s lung function peak flow 3	Cont
3	S3PUFF3	s3puff3:w3 s lung function peak flow 3	Cont
1	R1PUFF	r1puff:w1 r maximum lung function peak flow	Cont
2	R2PUFF	r2puff:w2 r maximum lung function peak flow	Cont
3	R3PUFF	r3puff:w3 r maximum lung function peak flow	Cont
1	S1PUFF	s1puff:w1 s maximum lung function peak flow	Cont
2	S2PUFF	s2puff:w2 s maximum lung function peak flow	Cont
3	S3PUFF	s3puff:w3 s maximum lung function peak flow	Cont
1	R1PUFFCOMP	r1puffcomp:w1 r willing and able to complete lung function p	Categ
2	R2PUFFCOMP	r2puffcomp:w2 r willing and able to complete lung function p	Categ
3	R3PUFFCOMP	r3puffcomp:w3 r willing and able to complete lung function p	Categ
1	S1PUFFCOMP	s1puffcomp:w1 s willing and able to complete lung function p	Categ
2	S2PUFFCOMP	s2puffcomp:w2 s willing and able to complete lung function p	Categ
3	S3PUFFCOMP	s3puffcomp:w3 s willing and able to complete lung function p	Categ
1	R1PUFFPOS	r1puffpos:w1 r position for lung function peak flow test	Categ
2	R2PUFFPOS	r2puffpos:w2 r position for lung function peak flow test	Categ
3	R3PUFFPOS	r3puffpos:w3 r position for lung function peak flow test	Categ
1	S1PUFFPOS	s1puffpos:w1 s position for lung function peak flow test	Categ
2	S2PUFFPOS	s2puffpos:w2 s position for lung function peak flow test	Categ
3	S3PUFFPOS	s3puffpos:w3 s position for lung function peak flow test	Categ
1	R1PUFFEFF	r1puffeff:w1 amount effort r gave to lung function test	Categ
2	R2PUFFEFF	r2puffeff:w2 amount effort r gave to lung function test	Categ
3	R3PUFFEFF	r3puffeff:w3 amount effort r gave to lung function test	Categ
1	S1PUFFEFF	s1puffeff:w1 amount effort s gave to lung function test	Categ
2	S2PUFFEFF	s2puffeff:w2 amount effort s gave to lung function test	Categ
3	S3PUFFEFF	s3puffeff:w3 amount effort s gave to lung function test	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUFF1	13276	236.37	112.29	30.00	800.00
R2PUFF1	12476	242.43	115.89	30.00	890.00
R3PUFF1	16042	268.05	117.32	30.00	890.00

S1PUFF1	11353	242.75	112.68	30.00	800.00
S2PUFF1	10591	249.60	116.19	30.00	890.00
S3PUFF1	13710	275.83	117.00	30.00	890.00
R1PUFF2	13247	267.52	122.19	30.00	890.00
R2PUFF2	12444	272.17	125.71	30.00	890.00
R3PUFF2	15998	294.95	124.13	30.00	890.00
S1PUFF2	11335	274.46	122.31	30.00	890.00
S2PUFF2	10566	280.27	125.99	30.00	890.00
S3PUFF2	13674	303.51	123.29	30.00	890.00
R1PUFF3	13252	279.72	126.77	30.00	890.00
R2PUFF3	12450	282.38	129.51	30.00	890.00
R3PUFF3	16007	303.90	127.29	30.00	890.00
S1PUFF3	11335	287.16	126.52	30.00	890.00
S2PUFF3	10571	290.89	129.30	30.00	890.00
S3PUFF3	13683	312.79	126.35	30.00	890.00
R1PUFF	13277	292.69	125.46	30.00	890.00
R2PUFF	12487	297.34	128.87	30.00	890.00
R3PUFF	16029	317.99	126.21	30.00	890.00
S1PUFF	11354	300.36	124.99	30.00	890.00
S2PUFF	10601	306.18	128.54	30.00	890.00
S3PUFF	13711	327.14	125.07	30.00	890.00
R1PUFFCOMP	13892	0.96	0.21	0.00	1.00
R2PUFFCOMP	13090	0.95	0.21	0.00	1.00
R3PUFFCOMP	16326	0.98	0.13	0.00	1.00
S1PUFFCOMP	11814	0.96	0.19	0.00	1.00
S2PUFFCOMP	11078	0.96	0.20	0.00	1.00
S3PUFFCOMP	13902	0.99	0.12	0.00	1.00
R1PUFFPOS	13273	1.19	0.40	1.00	3.00
R2PUFFPOS	12500	1.19	0.39	1.00	3.00
R3PUFFPOS	16049	1.06	0.24	1.00	3.00
S1PUFFPOS	11348	1.19	0.39	1.00	3.00
S2PUFFPOS	10610	1.18	0.39	1.00	3.00
S3PUFFPOS	13717	1.06	0.24	1.00	3.00
R1PUFFEFF	13282	1.08	0.39	1.00	3.00
R2PUFFEFF	12502	1.03	0.24	1.00	3.00
R3PUFFEFF	16044	1.02	0.20	1.00	3.00
S1PUFFEFF	11360	1.08	0.38	1.00	3.00
S2PUFFEFF	10613	1.03	0.24	1.00	3.00
S3PUFFEFF	13714	1.02	0.20	1.00	3.00

### Categorical Variable Codes

Value-----	R1PUFFCOMP	R2PUFFCOMP	R3PUFFCOMP
.m:missing	82	79	80
.s:skip	11612	12417	9180
0.no	615	603	283
1.yes	13277	12487	16043

Value-----	S1PUFFCOMP	S2PUFFCOMP	S3PUFFCOMP
.m:missing	69	63	69
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	460	477	191

1.yes	11354	10601	13711
Value-----	R1PUFFPOS	R2PUFFPOS	R3PUFFPOS
.d:dk	35		26
.m:missing	272	191	216
.n:not willing or able	372	478	112
.r:refuse	22		3
.s:skip	11612	12417	9180
1.standing	10746	10123	15054
2.sitting	2517	2372	989
3.lying down	10	5	6
Value-----	S1PUFFPOS	S2PUFFPOS	S3PUFFPOS
.d:dk	31		21
.m:missing	218	136	150
.n:not willing or able	268	395	81
.r:refuse	18		2
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.standing	9209	8680	12921
2.sitting	2131	1925	791
3.lying down	8	5	5
Value-----	R1PUFFEFF	R2PUFFEFF	R3PUFFEFF
.d:dk	22		24
.m:missing	83	61	81
.n:not willing or able	561	606	246
.r:refuse	26		11
.s:skip	11612	12417	9180
1.Gave full effort	12636	12258	15804
2.not full effort-illness	164	71	94
3.not full effort-no reason	482	173	146
Value-----	S1PUFFEFF	S2PUFFEFF	S3PUFFEFF
.d:dk	19		19
.m:missing	70	48	70
.n:not willing or able	416	480	160
.r:refuse	18		8
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.Gave full effort	10833	10414	13523
2.not full effort-illness	128	58	70
3.not full effort-no reason	399	141	121

### How Constructed:

RwPUFF1, RwPUFF2, and RwPUFF3 indicate the respondents first, second, and third breathing test results. RwPUFF indicates the maximum measurement taken for the breathing test. Measurements of less than 60 are recorded as a value of 30 and measurements past the last tick mark are recorded as a value of 890. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned to these variables if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the breathing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwPUFF1, SwPUFF2, SwPUFF3, and SwPUFF indicate the respective results for the current wave's spouse. In addition to the special missing codes used for RwPUFF1, RwPUFF2, RwPUFF3, and RwPUFF, SwPUFF1, SwPUFF2, SwPUFF3, and SwPUFF employ two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that some extreme values may be included in RwPUFF1, RwPUFF2, RwPUFF3, and RwPUFF and have been left to the discretion of the user.



RwPUFFCOMP indicates whether the respondent is willing and able to complete the breathing test. RwPUFFCOMP is coded as 1 if the respondent understood the directions for the test, and the respondent felt it would be safe to complete the test. RwPUFFCOMP is coded as 0 if the respondent did not understand the instructions, expressed safety concerns, or tried but was unable to complete the breathing test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwPUFFCOMP indicates whether the current wave's spouse was willing and able to complete the breathing test. In addition to the special missing codes used in RwPUFFCOMP, SwPUFFCOMP employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwPUFFPOS indicates the position the respondent was in during the test. RwPUFFPOS is coded as follows: 1.standing, 2.sitting, and 3.lying down. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwPUFFPOS indicates the position for the current wave's spouse during the puff test. In addition to the special missing codes used for RwPUFFPOS, SwPUFFPOS employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwPUFFEFF indicates how much effort the interviewer reports the respondent using during the breathing tests. RwPUFFEFF is coded as follows: 1.respondent gave full effort, 2.respondent was prevented from giving full effort by illness, pain, or other symptoms or discomforts, and 3.respondent did not appear to give full effort, but no obvious reason for this. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions, or the respondent did not complete at least one trial of the breathing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwPUFFEFF indicates how much effort the interviewer reports the respondent's current wave's spouse using during the breathing test and its values are taken from the spouse's vales to RwPUFFEFF. In addition to the special missing codes used in RwPUFFEFF, SwPUFFEFF employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including lung function measurements.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

PB001	UNDERSTAND THE DIRECTIONS OR NOT
QB002	Measurement Reading-1
QB003	Measurement Reading-2
QB004	Measurement Reading-2
QB005	Measurement Reading-2
QB006	R <sub>i</sub> 's position

### Wave 2:

PB001	Understand The Directions or Not
QB002	Measurement Reading-1
QB003	Measurement Reading-2
QB004	Measurement Reading-3
QB005	How Much Effort

---

QB006	R'S Position
Wave 3:	
PB001	UNDERSTAND THE DIRECTIONS OR NOT
QB002	Measurement Reading-1
QB003	Measurement Reading-2
QB004	Measurement Reading-3
QB005	How Much Effort
QB006	R's Position

<b>Lung Function Measurements (Peak Flow): Reasons Didn't Complete</b>
--

Wave	Variable	Label	Type
1	R1PUFFSFT	r1puffsft:w1 r didn't complete lung function: unsafe/health	Categ
2	R2PUFFSFT	r2puffsft:w2 r didn't complete lung function: unsafe/health	Categ
3	R3PUFFSFT	r3puffsft:w3 r didn't complete lung function: unsafe/health	Categ
1	S1PUFFSFT	s1puffsft:w1 s didn't complete lung function: unsafe/health	Categ
2	S2PUFFSFT	s2puffsft:w2 s didn't complete lung function: unsafe/health	Categ
3	S3PUFFSFT	s3puffsft:w3 s didn't complete lung function: unsafe/health	Categ
1	R1PUFFREF	r1puffref:w1 r didn't complete lung function: refused	Categ
2	R2PUFFREF	r2puffref:w2 r didn't complete lung function: refused	Categ
3	R3PUFFREF	r3puffref:w3 r didn't complete lung function: refused	Categ
1	S1PUFFREF	s1puffref:w1 s didn't complete lung function: refused	Categ
2	S2PUFFREF	s2puffref:w2 s didn't complete lung function: refused	Categ
3	S3PUFFREF	s3puffref:w3 s didn't complete lung function: refused	Categ
1	R1PUFFTRYU	r1pufftryu:w1 r didn't complete lung function: tried but una	Categ
2	R2PUFFTRYU	r2pufftryu:w2 r didn't complete lung function: tried but una	Categ
3	R3PUFFTRYU	r3pufftryu:w3 r didn't complete lung function: tried but una	Categ
1	S1PUFFTRYU	s1pufftryu:w1 s didn't complete lung function: tried but una	Categ
2	S2PUFFTRYU	s2pufftryu:w2 s didn't complete lung function: tried but una	Categ
3	S3PUFFTRYU	s3pufftryu:w3 s didn't complete lung function: tried but una	Categ
1	R1PUFFEQUP	r1puffequp:w1 r didn't complete lung function: faulty equipm	Categ
2	R2PUFFEQUP	r2puffequp:w2 r didn't complete lung function: faulty equipm	Categ
3	R3PUFFEQUP	r3puffequp:w3 r didn't complete lung function: faulty equipm	Categ
1	S1PUFFEQUP	s1puffequp:w1 s didn't complete lung function: faulty equipm	Categ
2	S2PUFFEQUP	s2puffequp:w2 s didn't complete lung function: faulty equipm	Categ
3	S3PUFFEQUP	s3puffequp:w3 s didn't complete lung function: faulty equipm	Categ
1	R1PUFFOTHR	r1puffothr:w1 r didn't complete lung function: other reason	Categ
2	R2PUFFOTHR	r2puffothr:w2 r didn't complete lung function: other reason	Categ
3	R3PUFFOTHR	r3puffothr:w3 r didn't complete lung function: other reason	Categ
1	S1PUFFOTHR	s1puffothr:w1 s didn't complete lung function: other reason	Categ
2	S2PUFFOTHR	s2puffothr:w2 s didn't complete lung function: other reason	Categ
3	S3PUFFOTHR	s3puffothr:w3 s didn't complete lung function: other reason	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUFFSFT	568	0.23	0.42	0.00	1.00
R2PUFFSFT	640	0.23	0.42	0.00	1.00
R3PUFFSFT	253	0.49	0.50	0.00	1.00
S1PUFFSFT	422	0.20	0.40	0.00	1.00
S2PUFFSFT	507	0.21	0.40	0.00	1.00
S3PUFFSFT	166	0.50	0.50	0.00	1.00
R1PUFFREF	568	0.10	0.30	0.00	1.00
R2PUFFREF	640	0.04	0.19	0.00	1.00
R3PUFFREF	253	0.04	0.19	0.00	1.00
S1PUFFREF	422	0.11	0.31	0.00	1.00
S2PUFFREF	507	0.04	0.19	0.00	1.00
S3PUFFREF	166	0.05	0.23	0.00	1.00
R1PUFFTRYU	568	0.21	0.41	0.00	1.00
R2PUFFTRYU	640	0.12	0.32	0.00	1.00
R3PUFFTRYU	253	0.32	0.47	0.00	1.00

S1PUFFTRYU	422	0.20	0.40	0.00	1.00
S2PUFFTRYU	507	0.09	0.29	0.00	1.00
S3PUFFTRYU	166	0.25	0.43	0.00	1.00
R1PUFFEQUP	568	0.45	0.50	0.00	1.00
R2PUFFEQUP	640	0.61	0.49	0.00	1.00
R3PUFFEQUP	253	0.18	0.39	0.00	1.00
S1PUFFEQUP	422	0.49	0.50	0.00	1.00
S2PUFFEQUP	507	0.66	0.47	0.00	1.00
S3PUFFEQUP	166	0.23	0.43	0.00	1.00
R1PUFFOTHR	568	0.04	0.18	0.00	1.00
R2PUFFOTHR	640	0.03	0.18	0.00	1.00
R3PUFFOTHR	253	0.11	0.31	0.00	1.00
S1PUFFOTHR	422	0.03	0.17	0.00	1.00
S2PUFFOTHR	507	0.03	0.16	0.00	1.00
S3PUFFOTHR	166	0.09	0.29	0.00	1.00

### Categorical Variable Codes

Value-----	R1PUFFSFT	R2PUFFSFT	R3PUFFSFT
.c:completed test	13268	12449	16033
.d:dk			1
.m:missing	138	80	119
.s:skip	11612	12417	9180
0.no	436	493	128
1.yes	132	147	125

Value-----	S1PUFFSFT	S2PUFFSFT	S3PUFFSFT
.c:completed test	11346	10570	13703
.d:dk			1
.m:missing	115	64	101
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	337	403	83
1.yes	85	104	83

Value-----	R1PUFFREF	R2PUFFREF	R3PUFFREF
.c:completed test	13268	12449	16033
.d:dk			1
.m:missing	138	80	119
.s:skip	11612	12417	9180
0.no	513	615	244
1.yes	55	25	9

Value-----	S1PUFFREF	S2PUFFREF	S3PUFFREF
.c:completed test	11346	10570	13703
.d:dk			1
.m:missing	115	64	101
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	377	489	157
1.yes	45	18	9

Value-----	R1PUFFTRYU	R2PUFFTRYU	R3PUFFTRYU
.c:completed test	13268	12449	16033
.d:dk			1
.m:missing	138	80	119
.s:skip	11612	12417	9180
0.no	447	564	173
1.yes	121	76	80

Value-----	S1PUFFTRYU	S2PUFFTRYU	S3PUFFTRYU
.c:completed test	11346	10570	13703
.d:dk			1
.m:missing	115	64	101
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	338	461	125
1.yes	84	46	41

Value-----	R1PUFFEQUP	R2PUFFEQUP	R3PUFFEQUP
.c:completed test	13268	12449	16033
.d:dk			1
.m:missing	138	80	119
.s:skip	11612	12417	9180
0.no	314	252	207
1.yes	254	388	46

Value-----	S1PUFFEQUP	S2PUFFEQUP	S3PUFFEQUP
.c:completed test	11346	10570	13703
.d:dk			1
.m:missing	115	64	101
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	216	171	127
1.yes	206	336	39

Value-----	R1PUFFOTHR	R2PUFFOTHR	R3PUFFOTHR
.c:completed test	13268	12449	16033
.d:dk			1
.m:missing	138	80	119
.s:skip	11612	12417	9180
0.no	548	619	225
1.yes	20	21	28

Value-----	S1PUFFOTHR	S2PUFFOTHR	S3PUFFOTHR
.c:completed test	11346	10570	13703
.d:dk			1
.m:missing	115	64	101
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	409	494	151
1.yes	13	13	15

### How Constructed:

RwPUFFSFT, RwPUFFREF, RwPUFFTRYU, RwPUFFEQUP, and RwPUFFOTHR indicate the reasons for the respondent not taking part in the breathing test as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the breathing test. RwPUFFSFT indicates whether the respondent did not participate in the breathing test because they felt it would not be safe, or the interviewer felt it would be unsafe, or due to a health problem/condition of the respondent. RwPUFFREF indicates whether the respondent did not participate in the breathing test because they refused, with no reason given. RwPUFFTRYU indicates whether the respondent did not participate in the breathing test because they tried but were unable to complete the test. RwPUFFEQUP indicates whether the respondent did not participate in the breathing test because of either problems with equipment/supplies or not having a suitable space to perform the test. RwPUFFOTHR indicates whether the respondent did not participate in the breathing test because either they did not understand the instructions or because of another reason. RwPUFFSFT, RwPUFFREF, RwPUFFTRYU, RwPUFFEQUP, and RwPUFFOTHR are coded as 0 if the specific reason was not given for the respondent not completing the breathing test, and are coded as 1 if the specific reason was given. Special missing .c is assigned if the respondent completed at least one of the breathing tests. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwPUFFSFT, SwPUFFREF, SwPUFFTRYU, SwPUFFEQUP, and SwPUFFOTHR indicate the reasons for the respondent's current wave's spouse not taking part in the breathing test, and their values are taken from the spouse's values to RwpUFFSFT, RwpUFFREF, RwpUFFTRYU, RwpUFFEQUP, and RwpUFFOTHR. In addition to the special missing codes employed by RwpUFFSFT, RwpUFFREF, RwpUFFTRYU, RwpUFFEQUP, and RwpUFFOTHR, SwPUFFSFT, SwPUFFREF, SwPUFFTRYU, SwPUFFEQUP, and SwPUFFOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including lung function measurements.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

### Wave 1:

PB001	UNDERSTAND THE DIRECTIONS OR NOT
QB001S1	WHY DIDN'T COMPLETE
QB001S2	WHY DIDN'T COMPLETE
QB001S3	WHY DIDN'T COMPLETE
QB001S4	WHY DIDN'T COMPLETE
QB001S5	WHY DIDN'T COMPLETE
QB001S6	WHY DIDN'T COMPLETE
QB001S7	WHY DIDN'T COMPLETE
QB001S8	WHY DIDN'T COMPLETE
QB001S97	WHY DIDN'T COMPLETE
QB002	Measurement Reading-1
QB003	Measurement Reading-2
QB004	Measurement Reading-2

### Wave 2:

PB001	Understand The Directions or Not
QB001S1	Why didn't Complete
QB001S2	Why didn't Complete
QB001S3	Why didn't Complete
QB001S4	Why didn't Complete
QB001S5	Why didn't Complete
QB001S6	Why didn't Complete
QB001S7	Why didn't Complete
QB001S8	Why didn't Complete
QB001S97	Why didn't Complete
QB002	Measurement Reading-1
QB003	Measurement Reading-2
QB004	Measurement Reading-3

### Wave 3:

PB001	UNDERSTAND THE DIRECTIONS OR NOT
QB001S1	Why Didn't R Complete Breathing Test
QB001S2	Why Didn't R Complete Breathing Test
QB001S3	Why Didn't R Complete Breathing Test
QB001S4	Why Didn't R Complete Breathing Test
QB001S5	Why Didn't R Complete Breathing Test
QB001S6	Why Didn't R Complete Breathing Test
QB001S7	Why Didn't R Complete Breathing Test
QB001S8	Why Didn't R Complete Breathing Test
QB001S97	Why Didn't R Complete Breathing Test
QB002	Measurement Reading-1
QB003	Measurement Reading-2
QB004	Measurement Reading-3

<b>Balance Tests</b>
----------------------

Wave	Variable	Label	Type
1	R1SEMITAN	r1semitan:w1 r semi-tandem test result(sec)	Cont
2	R2SEMITAN	r2semitan:w2 r semi-tandem test result(sec)	Cont
3	R3SEMITAN	r3semitan:w3 r semi-tandem test result(sec)	Cont
1	S1SEMITAN	s1semitan:w1 s semi-tandem test result(sec)	Cont
2	S2SEMITAN	s2semitan:w2 s semi-tandem test result(sec)	Cont
3	S3SEMITAN	s3semitan:w3 s semi-tandem test result(sec)	Cont
1	R1SEMIDONE	r1semidone:w1 r completed full 10-second semi-tandem test	Categ
2	R2SEMIDONE	r2semidone:w2 r completed full 10-second semi-tandem test	Categ
3	R3SEMIDONE	r3semidone:w3 r completed full 10-second semi-tandem test	Categ
1	S1SEMIDONE	s1semidone:w1 s completed full 10-second semi-tandem test	Categ
2	S2SEMIDONE	s2semidone:w2 s completed full 10-second semi-tandem test	Categ
3	S3SEMIDONE	s3semidone:w3 s completed full 10-second semi-tandem test	Categ
1	R1SEMICOMP	r1semicomp:w1 r willing and able to complete semi-tandem tes	Categ
2	R2SEMICOMP	r2semicomp:w2 r willing and able to complete semi-tandem tes	Categ
3	R3SEMICOMP	r3semicomp:w3 r willing and able to complete semi-tandem tes	Categ
1	S1SEMICOMP	s1semicomp:w1 s willing and able to complete semi-tandem tes	Categ
2	S2SEMICOMP	s2semicomp:w2 s willing and able to complete semi-tandem tes	Categ
3	S3SEMICOMP	s3semicomp:w3 s willing and able to complete semi-tandem tes	Categ
1	R1SEMITANC	r1semitanc:w1 r semi-tandem test-compensatory movements	Categ
2	R2SEMITANC	r2semitanc:w2 r semi-tandem test-compensatory movements	Categ
3	R3SEMITANC	r3semitanc:w3 r semi-tandem test-compensatory movements	Categ
1	S1SEMITANC	s1semitanc:w1 s semi-tandem test-compensatory movements	Categ
2	S2SEMITANC	s2semitanc:w2 s semi-tandem test-compensatory movements	Categ
3	S3SEMITANC	s3semitanc:w3 s semi-tandem test-compensatory movements	Categ
1	R1FULLTAN	r1fulltan:w1 r full-tandem test result(sec)	Cont
2	R2FULLTAN	r2fulltan:w2 r full-tandem test result(sec)	Cont
3	R3FULLTAN	r3fulltan:w3 r full-tandem test result(sec)	Cont
1	S1FULLTAN	s1fulltan:w1 s full-tandem test result(sec)	Cont
2	S2FULLTAN	s2fulltan:w2 s full-tandem test result(sec)	Cont
3	S3FULLTAN	s3fulltan:w3 s full-tandem test result(sec)	Cont
1	R1FULLDONE	r1fulldone:w1 r completed 30/60 seconds full-tandem	Categ
2	R2FULLDONE	r2fulldone:w2 r completed 30/60 seconds full-tandem	Categ
3	R3FULLDONE	r3fulldone:w3 r completed 30/60 seconds full-tandem	Categ
1	S1FULLDONE	s1fulldone:w1 s completed 30/60 seconds full-tandem	Categ
2	S2FULLDONE	s2fulldone:w2 s completed 30/60 seconds full-tandem	Categ
3	S3FULLDONE	s3fulldone:w3 s completed 30/60 seconds full-tandem	Categ
1	R1FULLCOMP	r1fullcomp:w1 r willing and able to complete full tandem tes	Categ
2	R2FULLCOMP	r2fullcomp:w2 r willing and able to complete full tandem tes	Categ
3	R3FULLCOMP	r3fullcomp:w3 r willing and able to complete full tandem tes	Categ
1	S1FULLCOMP	s1fullcomp:w1 s willing and able to complete full tandem tes	Categ
2	S2FULLCOMP	s2fullcomp:w2 s willing and able to complete full tandem tes	Categ
3	S3FULLCOMP	s3fullcomp:w3 s willing and able to complete full tandem tes	Categ
1	R1FULLTANC	r1fulltanc:w1 r full-tandem test-compensatory movements	Categ
2	R2FULLTANC	r2fulltanc:w2 r full-tandem test-compensatory movements	Categ
3	R3FULLTANC	r3fulltanc:w3 r full-tandem test-compensatory movements	Categ
1	S1FULLTANC	s1fulltanc:w1 s full-tandem test-compensatory movements	Categ
2	S2FULLTANC	s2fulltanc:w2 s full-tandem test-compensatory movements	Categ
3	S3FULLTANC	s3fulltanc:w3 s full-tandem test-compensatory movements	Categ

1	R1SBSTAN	r1sbstan:w1	r	side-by-side test result(sec)	Cont
2	R2SBSTAN	r2sbstan:w2	r	side-by-side test result(sec)	Cont
3	R3SBSTAN	r3sbstan:w3	r	side-by-side test result(sec)	Cont
1	S1SBSTAN	s1sbstan:w1	s	side-by-side test result(sec)	Cont
2	S2SBSTAN	s2sbstan:w2	s	side-by-side test result(sec)	Cont
3	S3SBSTAN	s3sbstan:w3	s	side-by-side test result(sec)	Cont
1	R1SBSDONE	r1sbsdones:w1	r	completed full 10 seconds side-by-side	Categ
2	R2SBSDONE	r2sbsdones:w2	r	completed full 10 seconds side-by-side	Categ
3	R3SBSDONE	r3sbsdones:w3	r	completed full 10 seconds side-by-side	Categ
1	S1SBSDONE	s1sbsdones:w1	s	completed full 10 seconds side-by-side	Categ
2	S2SBSDONE	s2sbsdones:w2	s	completed full 10 seconds side-by-side	Categ
3	S3SBSDONE	s3sbsdones:w3	s	completed full 10 seconds side-by-side	Categ
1	R1SBSCOMP	r1sbcomp:w1	r	willing and able to complete side-by-side tes	Categ
2	R2SBSCOMP	r2sbcomp:w2	r	willing and able to complete side-by-side tes	Categ
3	R3SBSCOMP	r3sbcomp:w3	r	willing and able to complete side-by-side tes	Categ
1	S1SBSCOMP	s1sbcomp:w1	s	willing and able to complete side-by-side tes	Categ
2	S2SBSCOMP	s2sbcomp:w2	s	willing and able to complete side-by-side tes	Categ
3	S3SBSCOMP	s3sbcomp:w3	s	willing and able to complete side-by-side tes	Categ
1	R1SBSTANC	r1sbstanc:w1	r	side-by-side test-compensatory movements	Categ
2	R2SBSTANC	r2sbstanc:w2	r	side-by-side test-compensatory movements	Categ
3	R3SBSTANC	r3sbstanc:w3	r	side-by-side test-compensatory movements	Categ
1	S1SBSTANC	s1sbstanc:w1	s	side-by-side test-compensatory movements	Categ
2	S2SBSTANC	s2sbstanc:w2	s	side-by-side test-compensatory movements	Categ
3	S3SBSTANC	s3sbstanc:w3	s	side-by-side test-compensatory movements	Categ
1	R1BALANCE	r1balance:w1	r	balance test summary score	Categ
2	R2BALANCE	r2balance:w2	r	balance test summary score	Categ
3	R3BALANCE	r3balance:w3	r	balance test summary score	Categ
1	S1BALANCE	s1balance:w1	s	balance test summary score	Categ
2	S2BALANCE	s2balance:w2	s	balance test summary score	Categ
3	S3BALANCE	s3balance:w3	s	balance test summary score	Categ
1	R1BALFLR	r1balflr:w1	r	balance tests-floor surface	Categ
2	R2BALFLR	r2balflr:w2	r	balance tests-floor surface	Categ
3	R3BALFLR	r3balflr:w3	r	balance tests-floor surface	Categ
1	S1BALFLR	s1balflr:w1	s	balance tests-floor surface	Categ
2	S2BALFLR	s2balflr:w2	s	balance tests-floor surface	Categ
3	S3BALFLR	s3balflr:w3	s	balance tests-floor surface	Categ
1	R1BALCOMPL	r1balcompl:w1	r	compliance balance tests	Categ
2	R2BALCOMPL	r2balcompl:w2	r	compliance balance tests	Categ
3	R3BALCOMPL	r3balcompl:w3	r	compliance balance tests	Categ
1	S1BALCOMPL	s1balcompl:w1	s	compliance balance tests	Categ
2	S2BALCOMPL	s2balcompl:w2	s	compliance balance tests	Categ
3	S3BALCOMPL	s3balcompl:w3	s	compliance balance tests	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SEMITAN	13334	9.94	0.58	0.00	10.00
R2SEMITAN	12699	9.98	0.36	1.57	10.00
R3SEMITAN	15874	9.97	0.40	0.00	10.00
S1SEMITAN	11438	9.95	0.52	1.07	10.00
S2SEMITAN	10836	9.98	0.32	1.57	10.00
S3SEMITAN	13597	9.98	0.37	0.00	10.00



R1SEMIDONE	13334	0.99	0.11	0.00	1.00
R2SEMIDONE	12699	0.99	0.07	0.00	1.00
R3SEMIDONE	15874	0.99	0.08	0.00	1.00
S1SEMIDONE	11438	0.99	0.10	0.00	1.00
S2SEMIDONE	10836	1.00	0.07	0.00	1.00
S3SEMIDONE	13597	0.99	0.07	0.00	1.00
R1SEMICOMP	13885	0.96	0.20	0.00	1.00
R2SEMICOMP	13155	0.97	0.18	0.00	1.00
R3SEMICOMP	16313	0.97	0.16	0.00	1.00
S1SEMICOMP	11811	0.97	0.17	0.00	1.00
S2SEMICOMP	11129	0.97	0.16	0.00	1.00
S3SEMICOMP	13893	0.98	0.14	0.00	1.00
R1SEMITANC	13323	0.10	0.31	0.00	1.00
R2SEMITANC	12689	0.06	0.24	0.00	1.00
R3SEMITANC	15867	0.07	0.26	0.00	1.00
S1SEMITANC	11426	0.10	0.30	0.00	1.00
S2SEMITANC	10828	0.06	0.24	0.00	1.00
S3SEMITANC	13593	0.07	0.26	0.00	1.00
R1FULLTAN	12761	48.92	17.77	0.00	60.00
R2FULLTAN	12218	49.17	17.19	0.00	60.00
R3FULLTAN	15377	49.80	16.97	0.00	60.00
S1FULLTAN	11024	50.10	17.13	0.00	60.00
S2FULLTAN	10511	50.38	16.53	0.03	60.00
S3FULLTAN	13264	50.99	16.26	0.00	60.00
R1FULLDONE	12763	0.79	0.41	0.00	1.00
R2FULLDONE	12221	0.81	0.39	0.00	1.00
R3FULLDONE	15378	0.83	0.38	0.00	1.00
S1FULLDONE	11026	0.80	0.40	0.00	1.00
S2FULLDONE	10514	0.82	0.38	0.00	1.00
S3FULLDONE	13264	0.84	0.37	0.00	1.00
R1FULLCOMP	13615	0.94	0.24	0.00	1.00
R2FULLCOMP	13004	0.94	0.24	0.00	1.00
R3FULLCOMP	16091	0.96	0.21	0.00	1.00
S1FULLCOMP	11629	0.95	0.22	0.00	1.00
S2FULLCOMP	11043	0.95	0.21	0.00	1.00
S3FULLCOMP	13747	0.96	0.18	0.00	1.00
R1FULLTANC	12769	0.27	0.44	0.00	1.00
R2FULLTANC	12211	0.17	0.37	0.00	1.00
R3FULLTANC	15374	0.20	0.40	0.00	1.00
S1FULLTANC	11031	0.26	0.44	0.00	1.00
S2FULLTANC	10505	0.16	0.37	0.00	1.00
S3FULLTANC	13260	0.19	0.39	0.00	1.00
R1SBSTAN	278	9.67	1.54	0.00	10.00
R2SBSTAN	140	9.56	1.59	2.00	10.00
R3SBSTAN	202	9.73	1.40	0.00	10.00
S1SBSTAN	176	9.73	1.41	0.23	10.00
S2SBSTAN	88	9.81	0.88	4.66	10.00
S3SBSTAN	143	9.73	1.35	0.00	10.00
R1SBSDONE	278	0.95	0.23	0.00	1.00
R2SBSDONE	140	0.91	0.28	0.00	1.00
R3SBSDONE	202	0.95	0.22	0.00	1.00

S1SBSDONE	176	0.95	0.21	0.00	1.00
S2SBSDONE	88	0.94	0.23	0.00	1.00
S3SBSDONE	143	0.94	0.23	0.00	1.00
R1SBSCOMP	363	0.77	0.42	0.00	1.00
R2SBSCOMP	1415	0.10	0.30	0.00	1.00
R3SBSCOMP	1738	0.12	0.32	0.00	1.00
S1SBSCOMP	242	0.73	0.45	0.00	1.00
S2SBSCOMP	1097	0.08	0.27	0.00	1.00
S3SBSCOMP	1395	0.10	0.30	0.00	1.00
R1SBSTANC	278	0.16	0.37	0.00	1.00
R2SBSTANC	139	0.14	0.34	0.00	1.00
R3SBSTANC	207	0.17	0.38	0.00	1.00
S1SBSTANC	175	0.12	0.33	0.00	1.00
S2SBSTANC	87	0.13	0.33	0.00	1.00
S3SBSTANC	146	0.15	0.36	0.00	1.00
R1BALANCE	12923	3.76	0.46	1.00	4.00
R2BALANCE	12284	3.80	0.42	1.00	4.00
R3BALANCE	15472	3.82	0.40	1.00	4.00
S1BALANCE	11132	3.78	0.44	1.00	4.00
S2BALANCE	10557	3.81	0.40	1.00	4.00
S3BALANCE	13336	3.83	0.39	1.00	4.00
R1BALFLR	13063	2.72	1.53	1.00	6.00
R2BALFLR	12363	2.59	1.51	1.00	6.00
R3BALFLR	15596	2.31	1.49	1.00	6.00
S1BALFLR	11222	2.72	1.53	1.00	6.00
S2BALFLR	10602	2.57	1.51	1.00	6.00
S3BALFLR	13420	2.30	1.49	1.00	6.00
R1BALCOMPL	13061	1.01	0.10	1.00	3.00
R2BALCOMPL	12365	1.00	0.06	1.00	3.00
R3BALCOMPL	15593	1.00	0.06	1.00	3.00
S1BALCOMPL	11221	1.01	0.09	1.00	3.00
S2BALCOMPL	10603	1.00	0.05	1.00	3.00
S3BALCOMPL	13419	1.00	0.06	1.00	3.00

### Categorical Variable Codes

Value-----	R1SEMIDONE	R2SEMIDONE	R3SEMIDONE
.d:dk	2		10
.m:missing	89	14	93
.n:not willing or able	358	286	192
.r:refuse	65	78	92
.s:skip	11612	12417	9180
.x:tried but was unable	126	92	145
0.no	175	71	98
1.yes	13159	12628	15776

Value-----	S1SEMIDONE	S2SEMIDONE	S3SEMIDONE
.d:dk	2		7
.m:missing	72	12	78
.n:not willing or able	245	190	134
.r:refuse	45	55	64
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	81	48	91
0.no	119	48	73
1.yes	11319	10788	13524

Value-----	R1SEMICOMP	R2SEMICOMP	R3SEMICOMP
.m:missing	89	14	93
.s:skip	11612	12417	9180
0.no	551	456	439
1.yes	13334	12699	15874
Value-----	S1SEMICOMP	S2SEMICOMP	S3SEMICOMP
.m:missing	72	12	78
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	373	293	296
1.yes	11438	10836	13597
Value-----	R1SEMITANC	R2SEMITANC	R3SEMITANC
.d:dk	21	14	26
.m:missing	82	10	86
.n:not willing or able	360	290	194
.r:refuse	64	77	92
.s:skip	11612	12417	9180
.x:tried but was unable	124	89	141
0.no	11932	11906	14699
1.yes	1391	783	1168
Value-----	S1SEMITANC	S2SEMITANC	S3SEMITANC
.d:dk	19	11	19
.m:missing	69	8	73
.n:not willing or able	245	193	135
.r:refuse	44	54	64
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	80	47	87
0.no	10265	10181	12610
1.yes	1161	647	983
Value-----	R1FULLDONE	R2FULLDONE	R3FULLDONE
.d:dk	1		
.m:missing	104	18	106
.n:not willing or able	598	475	375
.r:refuse	41	40	46
.s:skip	11612	12417	9180
.t:not tested	255	147	209
.x:tried but was unable	212	268	292
0.no	2740	2322	2616
1.yes	10023	9899	12762
Value-----	S1FULLDONE	S2FULLDONE	S3FULLDONE
.d:dk	1		
.m:missing	86	15	90
.n:not willing or able	411	328	260
.r:refuse	33	30	30
.s:skip	3027	4439	3753
.t:not tested	168	83	134
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	158	171	193
0.no	2249	1886	2118
1.yes	8777	8628	11146
Value-----	R1FULLCOMP	R2FULLCOMP	R3FULLCOMP
.m:missing	104	18	106
.s:skip	11612	12417	9180
.t:not tested	255	147	209
0.no	852	783	713
1.yes	12763	12221	15378
Value-----	S1FULLCOMP	S2FULLCOMP	S3FULLCOMP

.m:missing	86	15	90
.s:skip	3027	4439	3753
.t:not tested	168	83	134
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	603	529	483
1.yes	11026	10514	13264

Value-----	R1FULLTANC	R2FULLTANC	R3FULLTANC
.d:dk	15	16	17
.m:missing	88	21	95
.n:not willing or able	594	475	373
.r:refuse	42	40	46
.s:skip	11612	12417	9180
.t:not tested	256	147	210
.x:tried but was unable	210	259	291
0.no	9359	10190	12365
1.yes	3410	2021	3009

Value-----	S1FULLTANC	S2FULLTANC	S3FULLTANC
.d:dk	14	12	16
.m:missing	71	17	80
.n:not willing or able	407	328	259
.r:refuse	34	30	30
.s:skip	3027	4439	3753
.t:not tested	169	83	134
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	157	166	192
0.no	8116	8810	10713
1.yes	2915	1695	2547

Value-----	R1SBSDONE	R2SBSDONE	R3SBSDONE
.m:missing	82	12	88
.n:not willing or able	1960	1188	1418
.r:refuse	30	55	52
.s:skip	11612	12417	9180
.t:not tested	11591	11742	14581
.x:tried but was unable	33	32	65
0.no	15	12	10
1.yes	263	128	192

Value-----	S1SBSDONE	S2SBSDONE	S3SBSDONE
.m:missing	69	10	74
.n:not willing or able	1622	951	1175
.r:refuse	23	39	36
.s:skip	3027	4439	3753
.t:not tested	9968	10034	12503
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	25	19	40
0.no	8	5	8
1.yes	168	83	135

Value-----	R1SBSCOMP	R2SBSCOMP	R3SBSCOMP
.m:missing	82	12	88
.s:skip	11612	12417	9180
.t:not tested	13529	11742	14580
0.no	85	1275	1536
1.yes	278	140	202

Value-----	S1SBSCOMP	S2SBSCOMP	S3SBSCOMP
.m:missing	69	10	74
.s:skip	3027	4439	3753
.t:not tested	11572	10034	12502
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	66	1009	1252
1.yes	176	88	143

Value-----	R1SBSTANC	R2SBSTANC	R3SBSTANC
.m:missing	86	13	87
.n:not willing or able	1996	1237	15
.s:skip	11612	12417	9180
.t:not tested	11614	11780	16097
0.no	233	120	171
1.yes	45	19	36

Value-----	S1SBSTANC	S2SBSTANC	S3SBSTANC
.m:missing	73	10	73
.n:not willing or able	1649	987	8
.s:skip	3027	4439	3753
.t:not tested	9986	10057	13744
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	154	76	124
1.yes	21	11	22

Value-----	R1BALANCE	R2BALANCE	R3BALANCE
.d:dk	3		10
.m:missing	104	320	106
.n:not willing or able	494	444	244
.r:refuse	116	121	143
.s:skip	11612	12417	9180
.x:tried but was unable	334		431
1.No semi/no s-b-s	12	7	8
2.No semi/yes s-b-s	151	59	89
3.Yes semi/no full	2739	2320	2615
4.Yes semi/yes full	10021	9898	12760

Value-----	S1BALANCE	S2BALANCE	S3BALANCE
.d:dk	3		7
.m:missing	86	195	90
.n:not willing or able	340	303	162
.r:refuse	87	86	99
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	235		277
1.No semi/no s-b-s	7	4	6
2.No semi/yes s-b-s	102	41	67
3.Yes semi/no full	2248	1884	2118
4.Yes semi/yes full	8775	8628	11145

Value-----	R1BALFLR	R2BALFLR	R3BALFLR
.d:dk	2		4
.m:missing	81	265	90
.n:not willing or able	585	490	387
.r:refuse	50	51	53
.s:skip	11612	12417	9180
.x:tried but was unable	193		276
1.linoleum/tile/wood	5550	5764	8749
2.carpet	30	34	19
3.clay	604	371	216
4.concrete	6551	6061	6535
5.not sure	39	7	6
6.other	289	126	71

Value-----	S1BALFLR	S2BALFLR	S3BALFLR
.d:dk	2		3
.m:missing	68	168	77
.n:not willing or able	411	332	270
.r:refuse	38	39	32
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
.x:tried but was unable	142		169
1.linoleum/tile/wood	4789	4990	7584

2.carpet	27	27	15
3.clay	501	301	186
4.concrete	5629	5183	5571
5.not sure	34	5	5
6.other	242	96	59

Value-----	R1BALCOMPL	R2BALCOMPL	R3BALCOMPL
.m:missing	328	315	426
.n:not willing or able	585	489	387
.s:skip	11612	12417	9180
1.fully compliant	12990	12345	15554
2.prevented from being fully compliant	53	13	30
3.not fully compliant	18	7	9

Value-----	S1BALCOMPL	S2BALCOMPL	S3BALCOMPL
.m:missing	251	206	282
.n:not willing or able	411	332	270
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
1.fully compliant	11173	10589	13389
2.prevented from being fully compliant	34	9	22
3.not fully compliant	14	5	8

### How Constructed:

RwSEMITAN indicates the amount of time the respondent held the semi-tandem standing test in seconds to two decimal places. The maximum value is 10 seconds. The respondent is instructed to stand with the side of the heel of one foot touching the big toe of the other foot for 10 seconds, if they are able. The respondent is allowed to put either foot in front and may use their arms, bend their knees or use their body to maintain balance. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions, or had safety concerns. Special missing .x is assigned if the respondent tried but was unable to complete the semi-tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSEMITAN indicates the length of time the respondent's current wave's spouse held the semi-tandem standing test, and its values are taken from RwSEMITAN. In addition to the special missing codes employed by RwSEMITAN, SwSEMITAN employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSEMIDONE indicates whether the respondent maintained their balance for the full 10 seconds during the semi-tandem standing test. RwSEMIDONE is coded as 1 if the respondent maintained their balance for 10 seconds, while a 0 indicates that the respondent's time fell below 10 seconds. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions, or had safety concerns. Special missing .x is assigned if the respondent tried but was unable to complete the semi-tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSEMIDONE indicates whether the respondent's current wave's spouse maintained their balance for the entire semi-tandem standing test, and its values are taken from RwSEMIDONE. In addition to the special missing codes employed by RwSEMIDONE, SwSEMIDONE employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSEMICOMP indicates whether the respondent was willing and able to complete the semi-tandem standing test. RwSEMICOMP is coded as 1 if the respondent did not report having any problems with recent surgeries, injuries or other health conditions that may prevent the respondent from standing up from a chair and balancing and further stated they can complete the semi-tandem test, the respondent understood the instructions for the test, and the respondent felt it was safe for them to complete the test. RwSEMICOMP is coded as 0 if the respondent did not want to complete the test because of physical health issues, the respondent did not understand the instructions, the

respondent simply did not feel safe to complete the test, or the respondent tried but was unable to complete the semi-tandem standing test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSEMICOMP indicates whether the respondent's current wave's spouse was willing and able to complete the semi-tandem standing test, and its values are taken from RwSEMICOMP. In addition to the special missing codes employed by RwSEMICOMP, SwSEMICOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSEMITANC indicates whether the respondent used any compensatory movements of their trunk, arms or legs to steady themselves during the semi-tandem stand. RwSEMITANC is coded as 0 if the respondent did not use any compensatory movements during the semi-tandem stand, and is coded as a 1 if the respondent did use any compensatory movements during the semi-tandem stand. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions, or had safety concerns. Special missing .x is assigned if the respondent tried but was unable to complete the semi-tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSEMITANC indicates whether the respondent's current wave's spouse used any compensatory movements of their trunk, arms or legs to steady themselves during the semi-tandem stand, and its values are taken from RwSEMITANC. In addition to the special missing codes employed by RwSEMITANC, SwSEMITANC employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwFULLTAN indicates the amount of time the respondent held the full-tandem test in seconds to two decimal places. The maximum value is 30 and 60 seconds, depending on age. Respondents aged 70 and over were only expected to hold full-tandem for 30 seconds, but their full time was recorded if past 30 seconds, while those under 70 years old were expected to hold 60 seconds, if able. The respondent was instructed to stand with the heel of one foot in front of the other, touching the toes of the front foot for 30 seconds or 60 seconds, depending on age. The respondent was allowed to use their arms, bend their knees, or move their body to maintain balance. Only respondents who maintained the semi-tandem position for the full 10 seconds performed the full-tandem test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because they did not maintain the semi-tandem position for the full 10 seconds. Special missing .n is assigned if the respondent did not understand the instruction. Special missing .x is assigned if respondent tried but was unable to complete the full-tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwFULLTAN indicates the amount of time the respondent's current wave's spouse held the full-tandem test, and its values are taken from RwFULLTAN. In addition to the special missing codes employed by RwFULLTAN, SwFULLTAN employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwFULLDONE indicates whether the respondent maintained their balance for the full 30/60 seconds during the full-tandem standing test. RwFULLDONE is coded as 1 if the respondent maintained their balance for the full time, while a 0 indicates the respondent's time fell below the expected time for their age group. Only respondents who maintained the semi-tandem position for the full 10 seconds performed the full-tandem test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because they did not maintain the semi-tandem position for the full 10 seconds. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the full-tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwFULLDONE indicates whether the respondent's current wave's spouse maintained their balance for the entire full-tandem standing test, and its values are taken from RwFULLDONE. In addition to the special missing codes employed by RwFULLDONE, SwFULLDONE employs two additional special missing

codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwFULLCOMP indicates whether the respondent was willing and able to complete the full-tandem standing test. RwFULLCOMP is coded as 1 if the respondent understood the instructions for the test, and the respondent felt it was safe for them to complete the test. RwFULLCOMP is coded as 0 if the respondent did not understand the instructions, the respondent did not feel safe completing the test, or the respondent tried but was unable to complete the test. Only respondents who maintained the semi-tandem position for the full 10 seconds performed the full-tandem test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because they did not maintain the semi-tandem position for the full 10 seconds. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwFULLCOMP indicates whether the respondent's current wave's spouse was willing and able to complete the full-tandem standing test, and its values are taken from RwFULLCOMP. In addition to the special missing codes employed by RwFULLCOMP, SwFULLCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwFULLTANC indicates whether the respondent used any compensatory movements of their trunk, arms or legs to steady themselves during the full-tandem stand. RwFULLTANC is coded as 0 if the respondent did not use any compensatory movements during the full-tandem stand, and is coded as a 1 if the respondent did use any compensatory movements during the full-tandem stand. Only respondents who maintained the semi-tandem position for the full 10 seconds performed the full-tandem test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because they did not maintain the semi-tandem position for the full 10 seconds. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the full-tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwFULLTANC indicates whether the respondent's current wave's spouse used any compensatory movements of their trunk, arms or legs to steady themselves during the full-tandem stand, and its values are taken from RwFULLTANC. In addition to the special missing codes employed by RwFULLTANC, SwFULLTANC employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSBSTAN indicates the amount of time the respondent held the side-by-side test position in seconds to two decimal places. The respondent was instructed to stand with feet together, side-by-side, for 10 seconds. The respondent was allowed to use their arms, bend their knees, or move their body to maintain balance. Only respondents who participated in the semi-tandem test and were not able to maintain balance for 10 seconds in the semi-tandem test performed the side-by-side test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because they completed the full 10 seconds for the semi-tandem test. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the side-by-side tandem standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSBSTAN indicates the amount of time the respondent's current wave's spouse held the side-by-side test position, and its values are taken from RwSBSTAN. In addition to the special missing codes employed by RwSBSTAN, SwSBSTAN employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSBSDONE indicates whether the respondent maintained their balance for the full 10 seconds of the side-by-side test without stepping out of place or grabbing hold of anything. RwsBSDONE is coded as 1 if the respondent maintained their balance for the full time, while a 0 indicates the respondent's time fell below 10 seconds. Only respondents who were not able to maintain balance for 10 seconds in the semi-tandem test performed the side-by-side test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if



they were skipped because they completed the full 10 seconds for the semi-tandem test. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the side-by-side standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSBSDONE indicates whether the respondent's current wave's spouse maintained their balance for the entire side-by-side test, and its values are taken from RwsSBSDONE. In addition to the special missing codes employed by RwsSBSDONE, SwSBSDONE employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwsBSBSCOMP indicates whether the respondent was willing and able to complete the side-by-side standing test. RwsBSBSCOMP is coded as 1 if the respondent understood the instructions for the test, and the respondent felt it was safe to complete the test. RwsBSBSCOMP is coded as 0 if the respondent did not understand the instructions, the respondent did not feel safe completing the test, or the respondent tried but was unable to complete the test. Only respondents who were not able to maintain balance for 10 seconds in the semi-tandem test performed the side-by-side test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because they completed the full 10 seconds for the semi-tandem test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSBSBSCOMP indicates whether the respondent's current wave's spouse was willing and able to complete the side-by-side test, and its values are taken from RwsBSBSCOMP. In addition to the special missing codes employed by RwsBSBSCOMP, SwSBSBSCOMP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwsBSBSTANC indicates whether the respondent used any compensatory movements of their trunk, arms or legs to steady themselves during the side-by-side stand. RwsBSBSTANC is coded as 0 if the respondent did not use any compensatory movements during the side-by-side stand, and is coded as a 1 if the respondent did use any compensatory movements during the side-by-side stand. Only respondents who were not able to maintain balance for 10 seconds in the semi-tandem test performed the side-by-side test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .t is assigned if they were skipped because the respondent completed the full 10 seconds for the semi-tandem test. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the side-by-side standing test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwSBSBSTANC indicates whether the respondent's current wave's spouse used any compensatory movements of their trunk, arms or legs to steady themselves during the side-by-side tandem stand, and its values are taken from RwsBSBSTANC. In addition to the special missing codes employed by RwsBSBSTANC, SwSBSBSTANC employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwsBALANCE indicates the assigned highest balance level of the respondent. RwsBALANCE is coded as 1 if the respondent did not complete the semi-tandem nor side-by-side test to the maximum time. RwsBALANCE is coded as 2 if the respondent did not complete the semi-tandem test to the maximum time, but did complete the side-by-side test to the maximum time. RwsBALANCE is coded as 3 if the respondent completed the semi-tandem test to the maximum time, but did not complete the expected full-tandem test time. RwsBALANCE is coded as 4 if the respondent completed the semi-tandem test and full-tandem test to the maximum time. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n if assigned if the respondents did not understand the instructions. Special missing .x is assigned if the respondent tried but were unable to complete the tests. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBALANCE indicates the assigned highest balance level of the respondent's current wave's spouse, and its values are taken from RwsBALANCE. In addition to the special missing codes employed by RwsBALANCE, SwBALANCE employs two additional special missing codes. A special missing value .u is

used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwBALFLR indicates the type of floor surface the respondent was standing on for the balance tests. RwBALFLR is coded as follows: 1.linoluem/tile/wood, 2.carpet, 3.clay, 4.concrete, 5.not sure, 6.other. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the balance tests. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBALFLR indicates the type of floor surface the respondent's current wave's spouse was standing on for the balance tests, and its values are taken from RwBALFLR. In addition to the special missing codes employed by RwBALFLR, SwBALFLR employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwBALCOMPL indicates the respondent's compliance during the balance tests. RwBALCOMPL is coded as follows: 1.fully compliant, 2.prevented from being fully compliant due to illness, pain, or other symptoms or discomforts, 3.not fully compliant, but no obvious reason for this. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondents did not understand the instructions. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBALCOMPL indicates the respondent's current wave's spouse's compliance during the balance tests, and its values are taken from RwBALCOMPL. In addition to the special missing codes employed by RwBALCOMPL, SwBALCOMPL employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including balance tests.

## Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents aged 65 and under were expected to hold the full-tandem position for 60 seconds and respondents over the age of 65 were expected to hold the full-tandem position for 30 seconds. However, in the CHARLS, respondents under age 70 were expected to hold the full-tandem position for 60 seconds, and respondents aged 70 and older were expected to hold the full-tandem position for 30 seconds.

## CHARLS Variables Used:

### Wave 1:

PD001	R rest their arm OR NOT
PD002	R rest their arm OR NOT
PE001	which R is eligible
PE002	UNDERSTAND THE DIRECTIONS OR NOT
PF001	UNDERSTAND THE DIRECTIONS OR NOT
QD002	Other (Specify)
QD003	Sec
QD004	use any compensatory movements?
QE002	Other (Specify)
QE003	Sec
QE004	use any compensatory movements?
QE005	the type of floor surface
QF002	Did R hold side-by-side stand for a full 10 seconds without ste
QF003	Others
QF004	use any compensatory movements?
QF005	use any compensatory movements?

### Wave 2:

PD001	Any Problems Prevent Balance
-------	------------------------------

PD002	Understand The Directions or Not
PE001	Which R Is Eligible
PE002	Understand The Directions or Not
PF001	Understand The Directions or Not
QD002	Complete The Test
QD003	Sec
QD004	Use Any Compensatory Movements?
QE002	Complete The Test
QE003	Sec
QE004	Use Any Compensatory Movements?
QE005	The Type of Floor Surface
QF002	Did R Hold Side-By-Side Stand for A Full 10 Seconds Without Ste
QF003	Sec
QF004	Use Any Compensatory Movements?
QF005	Type of Floor Surface
Wave 3:	
PD001	Any Problems Prevent Banlance
PD002	Understand The Directions or Not
PE001	which R is eligible
PE002	UNDERSTAND THE DIRECTIONS OR NOT
PF001	UNDERSTAND THE DIRECTIONS OR NOT
QD002	Complete The Test
QD003	Sec
QD004	use any compensatory movements?
QE002	Complete The Test
QE003	Sec
QE004	use any compensatory movements?
QE005	the type of floor surface
QF002	Did R Hold Side-by-Side Stand for A Full 10 Seconds
QF003	Sec
QF004	use any compensatory movements?
QF005	The Type of Floor Surface

<b>Balance Tests: Reasons Didn't Complete</b>
---

Wave	Variable	Label	Type
1	R1BALSFT	r1balsft:w1 r didn't complete balance: unsafe/health reason	Categ
2	R2BALSFT	r2balsft:w2 r didn't complete balance: unsafe/health reason	Categ
3	R3BALSFT	r3balsft:w3 r didn't complete balance: unsafe/health reason	Categ
1	S1BALSFT	s1balsft:w1 s didn't complete balance: unsafe/health reason	Categ
2	S2BALSFT	s2balsft:w2 s didn't complete balance: unsafe/health reason	Categ
3	S3BALSFT	s3balsft:w3 s didn't complete balance: unsafe/health reason	Categ
1	R1BALREF	r1balref:w1 r didn't complete balance: refused	Categ
2	R2BALREF	r2balref:w2 r didn't complete balance: refused	Categ
3	R3BALREF	r3balref:w3 r didn't complete balance: refused	Categ
1	S1BALREF	s1balref:w1 s didn't complete balance: refused	Categ
2	S2BALREF	s2balref:w2 s didn't complete balance: refused	Categ
3	S3BALREF	s3balref:w3 s didn't complete balance: refused	Categ
1	R1BALTRYU	r1baltryu:w1 r didn't complete balance: tried but unable	Categ
2	R2BALTRYU	r2baltryu:w2 r didn't complete balance: tried but unable	Categ
3	R3BALTRYU	r3baltryu:w3 r didn't complete balance: tried but unable	Categ
1	S1BALTRYU	s1baltryu:w1 s didn't complete balance: tried but unable	Categ
2	S2BALTRYU	s2baltryu:w2 s didn't complete balance: tried but unable	Categ
3	S3BALTRYU	s3baltryu:w3 s didn't complete balance: tried but unable	Categ
1	R1BALEQUP	r1balequp:w1 r didn't complete balance: faulty equipment/spa	Categ
2	R2BALEQUP	r2balequp:w2 r didn't complete balance: faulty equipment/spa	Categ
3	R3BALEQUP	r3balequp:w3 r didn't complete balance: faulty equipment/spa	Categ
1	S1BALEQUP	s1balequp:w1 s didn't complete balance: faulty equipment/spa	Categ
2	S2BALEQUP	s2balequp:w2 s didn't complete balance: faulty equipment/spa	Categ
3	S3BALEQUP	s3balequp:w3 s didn't complete balance: faulty equipment/spa	Categ
1	R1BALOTHR	r1balothr:w1 r didn't complete balance: other reason	Categ
2	R2BALOTHR	r2balothr:w2 r didn't complete balance: other reason	Categ
3	R3BALOTHR	r3balothr:w3 r didn't complete balance: other reason	Categ
1	S1BALOTHR	s1balothr:w1 s didn't complete balance: other reason	Categ
2	S2BALOTHR	s2balothr:w2 s didn't complete balance: other reason	Categ
3	S3BALOTHR	s3balothr:w3 s didn't complete balance: other reason	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BALSFT	932	0.66	0.47	0.00	1.00
R2BALSFT	889	0.65	0.48	0.00	1.00
R3BALSFT	824	0.64	0.48	0.00	1.00
S1BALSFT	650	0.66	0.47	0.00	1.00
S2BALSFT	588	0.67	0.47	0.00	1.00
S3BALSFT	543	0.68	0.47	0.00	1.00
R1BALREF	932	0.06	0.23	0.00	1.00
R2BALREF	889	0.04	0.20	0.00	1.00
R3BALREF	824	0.03	0.16	0.00	1.00
S1BALREF	650	0.07	0.25	0.00	1.00
S2BALREF	588	0.05	0.23	0.00	1.00
S3BALREF	543	0.03	0.16	0.00	1.00
R1BALTRYU	932	0.27	0.45	0.00	1.00
R2BALTRYU	889	0.32	0.47	0.00	1.00
R3BALTRYU	824	0.37	0.48	0.00	1.00

S1BALTRYU	650	0.66	0.47	0.00	1.00
S2BALTRYU	588	0.67	0.47	0.00	1.00
S3BALTRYU	543	0.68	0.47	0.00	1.00
R1BALEQUP	932	0.01	0.10	0.00	1.00
R2BALEQUP	889	0.00	0.06	0.00	1.00
R3BALEQUP	824	0.00	0.00	0.00	0.00
S1BALEQUP	650	0.66	0.47	0.00	1.00
S2BALEQUP	588	0.67	0.47	0.00	1.00
S3BALEQUP	543	0.68	0.47	0.00	1.00
R1BALOTHR	932	0.09	0.28	0.00	1.00
R2BALOTHR	889	0.06	0.23	0.00	1.00
R3BALOTHR	824	0.07	0.26	0.00	1.00
S1BALOTHR	650	0.08	0.27	0.00	1.00
S2BALOTHR	588	0.05	0.21	0.00	1.00
S3BALOTHR	543	0.05	0.23	0.00	1.00

### Categorical Variable Codes

Value-----	R1BALSFT	R2BALSFT	R3BALSFT
.c:completed test	12948	12266	15483
.m:missing	94	14	99
.s:skip	11612	12417	9180
0.no	319	315	295
1.yes	613	574	529

Value-----	S1BALSFT	S2BALSFT	S3BALSFT
.c:completed test	11156	10543	13345
.m:missing	77	10	83
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	222	195	175
1.yes	428	393	368

Value-----	R1BALREF	R2BALREF	R3BALREF
.c:completed test	12948	12266	15483
.m:missing	94	14	99
.s:skip	11612	12417	9180
0.no	880	851	802
1.yes	52	38	22

Value-----	S1BALREF	S2BALREF	S3BALREF
.c:completed test	11156	10543	13345
.m:missing	77	10	83
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	607	556	528
1.yes	43	32	15

Value-----	R1BALTRYU	R2BALTRYU	R3BALTRYU
.c:completed test	12948	12266	15483
.m:missing	94	14	99
.s:skip	11612	12417	9180
0.no	678	607	521
1.yes	254	282	303

Value-----	S1BALTRYU	S2BALTRYU	S3BALTRYU
.c:completed test	11156	10543	13345
.m:missing	77	10	83
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719

.v:sp nr	538	622	650
0.no	222	195	175
1.yes	428	393	368
Value-----	R1BALEQUP	R2BALEQUP	R3BALEQUP
.c:completed test	12948	12266	15483
.m:missing	94	14	99
.s:skip	11612	12417	9180
0.no	923	886	824
1.yes	9	3	
Value-----	S1BALEQUP	S2BALEQUP	S3BALEQUP
.c:completed test	11156	10543	13345
.m:missing	77	10	83
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	222	195	175
1.yes	428	393	368
Value-----	R1BALOTHR	R2BALOTHR	R3BALOTHR
.c:completed test	12948	12266	15483
.m:missing	94	14	99
.s:skip	11612	12417	9180
0.no	850	838	766
1.yes	82	51	58
Value-----	S1BALOTHR	S2BALOTHR	S3BALOTHR
.c:completed test	11156	10543	13345
.m:missing	77	10	83
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	598	560	514
1.yes	52	28	29

### How Constructed:

RwBALSFT, RwBALREF, RwBALTRYU, RwbALEQUP, and RwbALOTHR indicate the reasons for the respondent not taking part in any of the balance tests (semi-tandem stand, side-by-side stand, and full-tandem stand) as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete any of the balance tests. RwBALSFT indicates whether the respondent did not participate in any of the balance tests because they felt it would not be safe, or the interviewer felt it would be unsafe, or due to a health problem/condition of the respondent. RwBALREF indicates whether the respondent did not participate in any of the balance tests because they refused, with no reason given. RwBALTRYU indicates whether the respondent did not participate in any of the balance tests because they tried but were unable to complete the tests. RwbALEQUP indicates whether the respondent did not participate in any of the balance tests because of either problems with equipment/supplies or not having a suitable space to perform the tests. RwbALOTHR indicates whether the respondent did not participate in any of the balance tests because either they did not understand the instructions or because of another reason. RwBALSFT, RwBALREF, RwBALTRYU, RwbALEQUP, and RwbALOTHR are coded as 0 if the specific reason was not given for the respondent not completing any of the balance tests, and are coded as 1 if the specific reason was given. Special missing .c is assigned if the respondent completed at least one of the balance tests. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwBALSFT, SwBALREF, SwBALTRYU, SwBALEQUP, and SwBALOTHR indicate the reasons for the respondent's current wave's spouse not taking part in any of the balance tests, and their values are taken from the spouse's values to RwBALSFT, RwBALREF, RwBALTRYU, RwbALEQUP, and RwbALOTHR. In addition to the special missing codes employed by RwBALSFT, RwBALREF, RwBALTRYU, RwbALEQUP, and RwbALOTHR, SwBALSFT, SwBALREF, SwBALTRYU, SwBALEQUP, and SwBALOTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including balance tests.

### Differences with the RAND HRS/Harmonized HRS

No differences known.

### CHARLS Variables Used:

#### Wave 1:

PD001	R rest their arm OR NOT
PD002	R rest their arm OR NOT
PE002	UNDERSTAND THE DIRECTIONS OR NOT
PF001	UNDERSTAND THE DIRECTIONS OR NOT
QD001S1	Why didn;t R complete the semi-tandem stand?
QD001S2	Why didn;t R complete the semi-tandem stand?
QD001S3	Why didn;t R complete the semi-tandem stand?
QD001S4	Why didn;t R complete the semi-tandem stand?
QD001S5	Why didn;t R complete the semi-tandem stand?
QD001S6	Why didn;t R complete the semi-tandem stand?
QD001S7	Why didn;t R complete the semi-tandem stand?
QD001S8	Why didn;t R complete the semi-tandem stand?
QD001S97	Why didn;t R complete the semi-tandem stand?
QD002	Other (Specify)
QD003	Sec
QE001S1	Why didn;t R complete the full-tandem stand?
QE001S2	Why didn;t R complete the full-tandem stand?
QE001S3	Why didn;t R complete the full-tandem stand?
QE001S4	Why didn;t R complete the full-tandem stand?
QE001S5	Why didn;t R complete the full-tandem stand?
QE001S6	Why didn;t R complete the full-tandem stand?
QE001S7	Why didn;t R complete the full-tandem stand?
QE001S8	Why didn;t R complete the full-tandem stand?
QE001S97	Why didn;t R complete the full-tandem stand?
QE002	Other (Specify)
QE003	Sec
QF001S1	Why didn;t R complete
QF001S2	Why didn;t R complete
QF001S3	Why didn;t R complete
QF001S4	Why didn;t R complete
QF001S5	Why didn;t R complete
QF001S6	Why didn;t R complete
QF001S7	Why didn;t R complete
QF001S8	Why didn;t R complete
QF001S97	Why didn;t R complete
QF002	Did R hold side-by-side stand for a full 10 seconds without ste
QF003	Others

#### Wave 2:

PD001	Any Problems Prevent Balance
PD002	Understand The Directions or Not
PE002	Understand The Directions or Not
PF001	Understand The Directions or Not
QD001S1	Why didn't R Complete the Semi-Tandem Stand
QD001S2	Why didn't R Complete the Semi-Tandem Stand
QD001S3	Why didn't R Complete the Semi-Tandem Stand
QD001S4	Why didn't R Complete the Semi-Tandem Stand
QD001S5	Why didn't R Complete the Semi-Tandem Stand
QD001S6	Why didn't R Complete the Semi-Tandem Stand
QD001S7	Why didn't R Complete the Semi-Tandem Stand
QD001S8	Why didn't R Complete the Semi-Tandem Stand
QD001S97	Why didn't R Complete the Semi-Tandem Stand
QD002	Complete The Test
QD003	Sec
QE001S1	Why didn't R Complete the Full-Tandem Stand
QE001S2	Why didn't R Complete the Full-Tandem Stand
QE001S3	Why didn't R Complete the Full-Tandem Stand
QE001S4	Why didn't R Complete the Full-Tandem Stand

QE001S5 Why didn't R Complete the Full-Tandem Stand  
 QE001S6 Why didn't R Complete the Full-Tandem Stand  
 QE001S7 Why didn't R Complete the Full-Tandem Stand  
 QE001S8 Why didn't R Complete the Full-Tandem Stand  
 QE001S97 Why didn't R Complete the Full-Tandem Stand  
 QE002 Complete The Test  
 QE003 Sec  
 QF001S1 Why didn't R Complete  
 QF001S2 Why didn't R Complete  
 QF001S3 Why didn't R Complete  
 QF001S4 Why didn't R Complete  
 QF001S5 Why didn't R Complete  
 QF001S6 Why didn't R Complete  
 QF001S7 Why didn't R Complete  
 QF001S8 Why didn't R Complete  
 QF001S97 Why didn't R Complete  
 QF002 Did R Hold Side-By-Side Stand for A Full 10 Seconds Without Ste  
 QF003 Sec

## Wave 3:

PD001 Any Problems Prevent Banlance  
 PD002 Understand The Directions or Not  
 PE002 UNDERSTAND THE DIRECTIONS OR NOT  
 PF001 UNDERSTAND THE DIRECTIONS OR NOT  
 QD001S1 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S2 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S3 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S4 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S5 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S6 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S7 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S8 Why Didn't R Complete The Semi-Tandem Stand?  
 QD001S97 Why Didn't R Complete The Semi-Tandem Stand?  
 QD002 Complete The Test  
 QD003 Sec  
 QE001S1 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S2 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S3 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S4 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S5 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S6 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S7 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S8 Why Didn't R Complete The Full-Tandem Stand?  
 QE001S97 Why Didn't R Complete The Full-Tandem Stand?  
 QE002 Complete The Test  
 QE003 Sec  
 QF001S1 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S2 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S3 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S4 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S5 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S6 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S7 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S8 Why Didn't R Complete The Side-by-Side Stand?  
 QF001S97 Why Didn't R Complete The Side-by-Side Stand?  
 QF002 Did R Hold Side-by-Side Stand for A Full 10 Seconds  
 QF003 Sec



<b>Chair Stand Tests</b>
--------------------------

Wave	Variable	Label	Type
1	R1CHR5SEC	r1chr5sec:w1 # seconds for r to do 5 chair stands	Cont
2	R2CHR5SEC	r2chr5sec:w2 # seconds for r to do 5 chair stands	Cont
3	R3CHR5SEC	r3chr5sec:w3 # seconds for r to do 5 chair stands	Cont
1	S1CHR5SEC	s1chr5sec:w1 # seconds for s to do 5 chair stands	Cont
2	S2CHR5SEC	s2chr5sec:w2 # seconds for s to do 5 chair stands	Cont
3	S3CHR5SEC	s3chr5sec:w3 # seconds for s to do 5 chair stands	Cont
1	R1CHR5NUM	r1chr5num:w1 r number of chair stands completed	Cont
2	R2CHR5NUM	r2chr5num:w2 r number of chair stands completed	Cont
3	R3CHR5NUM	r3chr5num:w3 r number of chair stands completed	Cont
1	S1CHR5NUM	s1chr5num:w1 s number of chair stands completed	Cont
2	S2CHR5NUM	s2chr5num:w2 s number of chair stands completed	Cont
3	S3CHR5NUM	s3chr5num:w3 s number of chair stands completed	Cont
1	R1CHR5COMP	r1chr5comp:w1 r willing and able to complete 5 chair stands	Categ
2	R2CHR5COMP	r2chr5comp:w2 r willing and able to complete 5 chair stands	Categ
3	R3CHR5COMP	r3chr5comp:w3 r willing and able to complete 5 chair stands	Categ
1	S1CHR5COMP	s1chr5comp:w1 s willing and able to complete 5 chair stands	Categ
2	S2CHR5COMP	s2chr5comp:w2 s willing and able to complete 5 chair stands	Categ
3	S3CHR5COMP	s3chr5comp:w3 s willing and able to complete 5 chair stands	Categ
1	R1CHR5BMV	r1chr5bmv:w1 r used trunk or arms during 5 chair stands	Categ
2	R2CHR5BMV	r2chr5bmv:w2 r used trunk or arms during 5 chair stands	Categ
3	R3CHR5BMV	r3chr5bmv:w3 r used trunk or arms during 5 chair stands	Categ
1	S1CHR5BMV	s1chr5bmv:s1 s used trunk or arms during 5 chair stands	Categ
2	S2CHR5BMV	s2chr5bmv:s2 s used trunk or arms during 5 chair stands	Categ
3	S3CHR5BMV	s3chr5bmv:s3 s used trunk or arms during 5 chair stands	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CHR5SEC	12907	10.77	4.37	0.06	99.79
R2CHR5SEC	12307	10.42	4.23	0.00	90.00
R3CHR5SEC	15602	9.50	3.73	0.01	65.49
S1CHR5SEC	11112	10.55	4.11	0.06	99.79
S2CHR5SEC	10525	10.20	4.01	0.00	90.00
S3CHR5SEC	13400	9.27	3.48	0.01	65.49
R1CHR5NUM	12956	4.99	0.16	0.00	5.00
R2CHR5NUM	12330	5.00	0.09	2.00	5.00
R3CHR5NUM	15620	5.00	0.08	1.00	5.00
S1CHR5NUM	11144	4.99	0.13	1.00	5.00
S2CHR5NUM	10542	5.00	0.09	2.00	5.00
S3CHR5NUM	13412	5.00	0.06	1.00	5.00
R1CHR5COMP	13872	0.93	0.25	0.00	1.00
R2CHR5COMP	13138	0.94	0.24	0.00	1.00
R3CHR5COMP	16322	0.96	0.21	0.00	1.00
S1CHR5COMP	11801	0.94	0.23	0.00	1.00
S2CHR5COMP	11116	0.95	0.22	0.00	1.00
S3CHR5COMP	13904	0.96	0.19	0.00	1.00
R1CHR5BMV	12967	0.12	0.32	0.00	1.00
R2CHR5BMV	12351	0.05	0.22	0.00	1.00
R3CHR5BMV	15615	0.03	0.18	0.00	1.00

S1CHR5BMV	11150	0.12	0.32	0.00	1.00
S2CHR5BMV	10558	0.05	0.22	0.00	1.00
S3CHR5BMV	13406	0.04	0.19	0.00	1.00

### Categorical Variable Codes

Value-----	R1CHR5COMP	R2CHR5COMP	R3CHR5COMP
.m:missing	102	31	84
.s:skip	11612	12417	9180
0.no	965	831	720
1.yes	12907	12307	15602

Value-----	S1CHR5COMP	S2CHR5COMP	S3CHR5COMP
.m:missing	82	25	67
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	689	591	504
1.yes	11112	10525	13400

Value-----	R1CHR5BMV	R2CHR5BMV	R3CHR5BMV
.d:dk	16		32
.m:missing	333	302	397
.n:not willing or able	656	516	361
.r:refuse	2		1
.s:skip	11612	12417	9180
0.no	11442	11750	15076
1.yes	1525	601	539

Value-----	S1CHR5BMV	S2CHR5BMV	S3CHR5BMV
.d:dk	13		27
.m:missing	257	220	283
.n:not willing or able	462	363	254
.r:refuse	1		1
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	9860	10041	12929
1.yes	1290	517	477

### How Constructed:

RwCHR5SEC indicates the number of seconds it took the respondent to complete 5 chair stands in a row. The respondent was instructed to keep their arms folded across their chest, stand up straight and then sit down again at their fastest pace five times without stopping in between and without using their arms to push off. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the chair stand test, or if the respondent completed less than 5 chair stands. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwCHR5SEC indicates the number of seconds it took the respondent's current wave's spouse to complete 5 chair stands, and their values are taken from RwCHR5SEC. In addition to the special missing codes used in RwCHR5SEC, SwCHR5SEC employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwCHR5NUM indicates the number of chair stands completed by the respondent, and can range from 0 to 5. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions. Special missing .x is assigned if the respondent tried but was unable to complete the chair stand test. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwCHR5NUM indicates the total number of chair stands the respondent's current wave's spouse completed, and its values are taken from RwCHR5NUM. In addition to the special missing codes used in RwCHR5NUM, SwCHR5NUM employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwCHR5COMP indicates whether the respondent was willing and able to complete the 5 chair stand test without using their arms. RwCHR5COMP is coded as 1 if the respondent completed the 5 chair stand test. RwCHR5COMP is coded as 0 if the respondent completed less than 5 chair stands or did not complete the test because they did not understand the instructions, tried but were unable to complete the test, or did not feel it would be safe to complete the test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwCHR5COMP indicates whether the respondent's current wave's spouse was willing and able to complete the 5 chair stand test, and its values are taken from RwCHR5COMP. In addition to the special missing codes used in RwCHR5COMP, SwCHR5COMP employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwCHR5BMV indicates whether the respondent used their trunk or arms during the chair stand test. RwCHR5BMV is coded as 0 if the respondent did not use their trunk or arms, and is coded as 1 if the respondent did use their trunk or arms during the chair stand test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Special missing .n is assigned if the respondent did not understand the instructions. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwCHR5BMV indicates whether the respondent's current wave's spouse used their trunk or arms during the chair stand test, and its values are taken from RwCHR5BMV. In addition to the special missing codes used in RwCHR5BMV, SwCHR5BMV employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including chair stand tests.

## Differences with the RAND HRS/Harmonized HRS

These tests are not completed in the HRS and so there are no corresponding variables to these in the Harmonized HRS.

### CHARLS Variables Used:

#### Wave 1:

PH001	Understand Or Notf;
QH002	Did R can stand up straight?
QH003	Sec
QH005	times

#### Wave 2:

PH001	Understand or Not
QH002	Did R Can Stand up Straight?
QH003	Sec
QH005	Times

#### Wave 3:

PH001	Understand or Not?
QH002	Did R can stand up straight?
QH003	Sec
QH005	times

<b>Chair Stand Tests: Reasons Didn't Complete</b>
---

Wave	Variable	Label	Type
1	R1CHR5SFT	r1chr5sft:w1 r didn't complete 5 stands: unsafe/health reaso	Categ
2	R2CHR5SFT	r2chr5sft:w2 r didn't complete 5 stands: unsafe/health reaso	Categ
3	R3CHR5SFT	r3chr5sft:w3 r didn't complete 5 stands: unsafe/health reaso	Categ
1	S1CHR5SFT	s1chr5sft:w1 s didn't complete 5 stands: unsafe/health reaso	Categ
2	S2CHR5SFT	s2chr5sft:w2 s didn't complete 5 stands: unsafe/health reaso	Categ
3	S3CHR5SFT	s3chr5sft:w3 s didn't complete 5 stands: unsafe/health reaso	Categ
1	R1CHR5REF	r1chr5ref:w1 r didn't complete 5 stands: refused	Categ
2	R2CHR5REF	r2chr5ref:w2 r didn't complete 5 stands: refused	Categ
3	R3CHR5REF	r3chr5ref:w3 r didn't complete 5 stands: refused	Categ
1	S1CHR5REF	s1chr5ref:w1 s didn't complete 5 stands: refused	Categ
2	S2CHR5REF	s2chr5ref:w2 s didn't complete 5 stands: refused	Categ
3	S3CHR5REF	s3chr5ref:w3 s didn't complete 5 stands: refused	Categ
1	R1CHR5TRYU	r1chr5tryu:w1 r didn't complete 5 stands: tried but unable	Categ
2	R2CHR5TRYU	r2chr5tryu:w2 r didn't complete 5 stands: tried but unable	Categ
3	R3CHR5TRYU	r3chr5tryu:w3 r didn't complete 5 stands: tried but unable	Categ
1	S1CHR5TRYU	s1chr5tryu:w1 s didn't complete 5 stands: tried but unable	Categ
2	S2CHR5TRYU	s2chr5tryu:w2 s didn't complete 5 stands: tried but unable	Categ
3	S3CHR5TRYU	s3chr5tryu:w3 s didn't complete 5 stands: tried but unable	Categ
1	R1CHR5EQUP	r1chr5equip:w1 r didn't complete 5 stands: faulty equipment/s	Categ
2	R2CHR5EQUP	r2chr5equip:w2 r didn't complete 5 stands: faulty equipment/s	Categ
3	R3CHR5EQUP	r3chr5equip:w3 r didn't complete 5 stands: faulty equipment/s	Categ
1	S1CHR5EQUP	s1chr5equip:w1 s didn't complete 5 stands: faulty equipment/s	Categ
2	S2CHR5EQUP	s2chr5equip:w2 s didn't complete 5 stands: faulty equipment/s	Categ
3	S3CHR5EQUP	s3chr5equip:w3 s didn't complete 5 stands: faulty equipment/s	Categ
1	R1CHR5OTHR	r1chr5othr:w1 r didn't complete 5 stands: other reason	Categ
2	R2CHR5OTHR	r2chr5othr:w2 r didn't complete 5 stands: other reason	Categ
3	R3CHR5OTHR	r3chr5othr:w3 r didn't complete 5 stands: other reason	Categ
1	S1CHR5OTHR	s1chr5othr:w1 s didn't complete 5 stands: other reason	Categ
2	S2CHR5OTHR	s2chr5othr:w2 s didn't complete 5 stands: other reason	Categ
3	S3CHR5OTHR	s3chr5othr:w3 s didn't complete 5 stands: other reason	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CHR5SFT	915	0.79	0.41	0.00	1.00
R2CHR5SFT	834	0.78	0.41	0.00	1.00
R3CHR5SFT	702	0.83	0.38	0.00	1.00
S1CHR5SFT	653	0.77	0.42	0.00	1.00
S2CHR5SFT	595	0.78	0.41	0.00	1.00
S3CHR5SFT	494	0.84	0.37	0.00	1.00
R1CHR5REF	915	0.11	0.31	0.00	1.00
R2CHR5REF	834	0.07	0.26	0.00	1.00
R3CHR5REF	702	0.06	0.23	0.00	1.00
S1CHR5REF	653	0.12	0.32	0.00	1.00
S2CHR5REF	595	0.08	0.27	0.00	1.00
S3CHR5REF	494	0.06	0.24	0.00	1.00
R1CHR5TRYU	915	0.11	0.31	0.00	1.00
R2CHR5TRYU	834	0.10	0.30	0.00	1.00
R3CHR5TRYU	702	0.14	0.35	0.00	1.00

S1CHR5TRYU	653	0.11	0.32	0.00	1.00
S2CHR5TRYU	595	0.09	0.29	0.00	1.00
S3CHR5TRYU	494	0.13	0.34	0.00	1.00
R1CHR5EQUP	915	0.02	0.12	0.00	1.00
R2CHR5EQUP	834	0.03	0.18	0.00	1.00
R3CHR5EQUP	702	0.00	0.00	0.00	0.00
S1CHR5EQUP	653	0.02	0.13	0.00	1.00
S2CHR5EQUP	595	0.04	0.19	0.00	1.00
S3CHR5EQUP	494	0.00	0.00	0.00	0.00
R1CHR5OTHR	915	0.08	0.27	0.00	1.00
R2CHR5OTHR	834	0.07	0.25	0.00	1.00
R3CHR5OTHR	702	0.05	0.23	0.00	1.00
S1CHR5OTHR	653	0.08	0.27	0.00	1.00
S2CHR5OTHR	595	0.07	0.25	0.00	1.00
S3CHR5OTHR	494	0.04	0.20	0.00	1.00

### Categorical Variable Codes

Value-----	R1CHR5SFT	R2CHR5SFT	R3CHR5SFT
.c:completed test	12901	12281	15598
.m:missing	158	54	106
.s:skip	11612	12417	9180
0.no	196	184	121
1.yes	719	650	581

Value-----	S1CHR5SFT	S2CHR5SFT	S3CHR5SFT
.c:completed test	11109	10504	13396
.m:missing	121	42	81
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	147	129	80
1.yes	506	466	414

Value-----	R1CHR5REF	R2CHR5REF	R3CHR5REF
.c:completed test	12901	12281	15598
.m:missing	158	54	106
.s:skip	11612	12417	9180
0.no	818	773	662
1.yes	97	61	40

Value-----	S1CHR5REF	S2CHR5REF	S3CHR5REF
.c:completed test	11109	10504	13396
.m:missing	121	42	81
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	575	549	463
1.yes	78	46	31

Value-----	R1CHR5TRYU	R2CHR5TRYU	R3CHR5TRYU
.c:completed test	12901	12281	15598
.m:missing	158	54	106
.s:skip	11612	12417	9180
0.no	816	751	602
1.yes	99	83	100

Value-----	S1CHR5TRYU	S2CHR5TRYU	S3CHR5TRYU
.c:completed test	11109	10504	13396
.m:missing	121	42	81
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719

.v:sp nr	538	622	650
0.no	578	542	428
1.yes	75	53	66
Value-----	R1CHR5EQUP	R2CHR5EQUP	R3CHR5EQUP
.c:completed test	12901	12281	15598
.m:missing	158	54	106
.s:skip	11612	12417	9180
0.no	901	805	702
1.yes	14	29	
Value-----	S1CHR5EQUP	S2CHR5EQUP	S3CHR5EQUP
.c:completed test	11109	10504	13396
.m:missing	121	42	81
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	641	573	494
1.yes	12	22	
Value-----	R1CHR5OTHR	R2CHR5OTHR	R3CHR5OTHR
.c:completed test	12901	12281	15598
.m:missing	158	54	106
.s:skip	11612	12417	9180
0.no	841	778	664
1.yes	74	56	38
Value-----	S1CHR5OTHR	S2CHR5OTHR	S3CHR5OTHR
.c:completed test	11109	10504	13396
.m:missing	121	42	81
.s:skip	3027	4439	3753
.u:unmar	2260	2401	2719
.v:sp nr	538	622	650
0.no	603	555	473
1.yes	50	40	21

### How Constructed:

RwCHR5SFT, RwCHR5REF, RwCHR5TRYU, RwCHR5EQUP, and RwCHR5OTHR indicate the reasons for the respondent not completing the 5 chair stand test as reported by the interviewer. The interviewer is asked to report all of the reasons the respondent did not complete the 5 chair stand test. RwCHR5SFT indicates whether the respondent did not complete the chair stand test because the respondent or interviewer felt it would be unsafe, or the respondent had recent surgery, injury, or other health condition that prevent the respondent from standing. RwCHR5REF indicates whether the respondent did not complete the chair stand test because they refused. RwCHR5TRYU indicates whether the respondent did not complete the chair stand test because they tried but were unable to complete the test. RwCHR5EQUP indicates whether the respondent did not complete the chair stand test because there were problems with the equipment or supplies or there was no suitable space. RwCHR5OTHR indicates whether the respondent did not complete the chair stand test because they could not understand the instructions, or for another reason. RwCHR5SFT, RwCHR5REF, RwCHR5TRYU, RwCHR5EQUP, and RwCHR5OTHR are coded as 0 if the specific reason was not given for the respondent not completing the chair stand tests, and are coded as 1 if the specific reason was given. Special missing .c is assigned if the respondent completed the 5 chair stand test. Special missing .s is assigned if respondents did not have their biomarker measurements taken. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, .m, respectively. Plain missing (.) is employed for respondents who did not respond to the current wave.

SwCHR5SFT, SwCHR5REF, SwCHR5TRYU, SwCHR5EQUP, and SwCHR5OTHR indicate the reasons for the respondent's current wave's spouse not completing the 5 chair stand test, and their values are taken from the spouse's values to RwCHR5SFT, RwCHR5REF, RwCHR5TRYU, RwCHR5EQUP, and RwCHR5OTHR. In addition to the special missing codes employed by RwCHR5SFT, RwCHR5REF, RwCHR5TRYU, RwCHR5EQUP, and RwCHR5OTHR, SwCHR5SFT, SwCHR5REF, SwCHR5TRYU, SwCHR5EQUP, and SwCHR5OTHR employ two additional special missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Wave 4, CHARLS did not collect biomarkers, including chair stand tests.

## Differences with the RAND HRS/Harmonized HRS

These tests are not completed in the HRS and so there are no corresponding variables to these in the Harmonized HRS.

### CHARLS Variables Used:

#### Wave 1:

PH001	Understand Or Not
QH001S1	Why didn't complete?
QH001S2	Why didn't complete?
QH001S3	Why didn't complete?
QH001S4	Why didn't complete?
QH001S5	Why didn't complete?
QH001S6	Why didn't complete?
QH001S7	Why didn't complete?
QH001S8	Why didn't complete?
QH001S97	Why didn't complete?
QH002	Did R can stand up straight?
QH003	Sec
QH005	times

#### Wave 2:

PH001	Understand or Not
QH001S1	Why didn't Complete?
QH001S2	Why didn't Complete?
QH001S3	Why didn't Complete?
QH001S4	Why didn't Complete?
QH001S5	Why didn't Complete?
QH001S6	Why didn't Complete?
QH001S7	Why didn't Complete?
QH001S8	Why didn't Complete?
QH001S97	Why didn't Complete?
QH002	Did R Can Stand up Straight?
QH003	Sec
QH005	Times

#### Wave 3:

PH001	Understand or Not?
QH001S1	Why Didn't R Complete The Repeated Chair Stands?
QH001S2	Why Didn't R Complete The Repeated Chair Stands?
QH001S3	Why Didn't R Complete The Repeated Chair Stands?
QH001S4	Why Didn't R Complete The Repeated Chair Stands?
QH001S5	Why Didn't R Complete The Repeated Chair Stands?
QH001S6	Why Didn't R Complete The Repeated Chair Stands?
QH001S7	Why Didn't R Complete The Repeated Chair Stands?
QH001S8	Why Didn't R Complete The Repeated Chair Stands?
QH001S97	Why Didn't R Complete The Repeated Chair Stands?
QH002	Did R can stand up straight?
QH003	Sec
QH005	times





## **Section L: Assistance and Caregiving**

<b>Activities of Daily Living: Whether Receives Care for ADLs</b>
---

Wave	Variable	Label	Type
2	R2DRESSHLP	r2dresshlp:w2 whether anyone helps r dress	Categ
3	R3DRESSHLP	r3dresshlp:w3 whether anyone helps r dress	Categ
4	R4DRESSHLP	r4dresshlp:w4 whether anyone helps r dress	Categ
2	S2DRESSHLP	s2dresshlp:w2 whether anyone helps s dress	Categ
3	S3DRESSHLP	s3dresshlp:w3 whether anyone helps s dress	Categ
4	S4DRESSHLP	s4dresshlp:w4 whether anyone helps s dress	Categ
2	R2BATHEHLP	r2bathehlp:w2 whether anyone helps r bathe	Categ
3	R3BATHEHLP	r3bathehlp:w3 whether anyone helps r bathe	Categ
4	R4BATHEHLP	r4bathehlp:w4 whether anyone helps r bathe	Categ
2	S2BATHEHLP	s2bathehlp:w2 whether anyone helps s bathe	Categ
3	S3BATHEHLP	s3bathehlp:w3 whether anyone helps s bathe	Categ
4	S4BATHEHLP	s4bathehlp:w4 whether anyone helps s bathe	Categ
2	R2EATHLP	r2eathlp:w2 whether anyone helps r eat	Categ
3	R3EATHLP	r3eathlp:w3 whether anyone helps r eat	Categ
4	R4EATHLP	r4eathlp:w4 whether anyone helps r eat	Categ
2	S2EATHLP	s2eathlp:w2 whether anyone helps s eat	Categ
3	S3EATHLP	s3eathlp:w3 whether anyone helps s eat	Categ
4	S4EATHLP	s4eathlp:w4 whether anyone helps s eat	Categ
2	R2BEDHLP	r2bedhlp:w2 whether anyone helps r get in/out of bed	Categ
3	R3BEDHLP	r3bedhlp:w3 whether anyone helps r get in/out of bed	Categ
4	R4BEDHLP	r4bedhlp:w4 whether anyone helps r get in/out of bed	Categ
2	S2BEDHLP	s2bedhlp:w2 whether anyone helps s get in/out of bed	Categ
3	S3BEDHLP	s3bedhlp:w3 whether anyone helps s get in/out of bed	Categ
4	S4BEDHLP	s4bedhlp:w4 whether anyone helps s get in/out of bed	Categ
2	R2TOILETHLP	r2toilethlp:w2 whether anyone helps r use the toilet	Categ
3	R3TOILETHLP	r3toilethlp:w3 whether anyone helps r use the toilet	Categ
4	R4TOILETHLP	r4toilethlp:w4 whether anyone helps r use the toilet	Categ
2	S2TOILETHLP	s2toilethlp:w2 whether anyone helps s use the toilet	Categ
3	S3TOILETHLP	s3toilethlp:w3 whether anyone helps s use the toilet	Categ
4	S4TOILETHLP	s4toilethlp:w4 whether anyone helps s use the toilet	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2DRESSHLP	942	0.46	0.50	0.00	1.00
R3DRESSHLP	1250	0.42	0.49	0.00	1.00
R4DRESSHLP	1379	0.46	0.50	0.00	1.00
S2DRESSHLP	716	0.49	0.50	0.00	1.00
S3DRESSHLP	935	0.44	0.50	0.00	1.00
S4DRESSHLP	976	0.49	0.50	0.00	1.00
R2BATHEHLP	1231	0.61	0.49	0.00	1.00
R3BATHEHLP	1569	0.56	0.50	0.00	1.00
R4BATHEHLP	1675	0.58	0.49	0.00	1.00
S2BATHEHLP	881	0.62	0.49	0.00	1.00
S3BATHEHLP	1123	0.57	0.49	0.00	1.00
S4BATHEHLP	1128	0.60	0.49	0.00	1.00
R2EATHLP	423	0.52	0.50	0.00	1.00
R3EATHLP	546	0.44	0.50	0.00	1.00
R4EATHLP	542	0.48	0.50	0.00	1.00

S2EATHLP	318	0.52	0.50	0.00	1.00
S3EATHLP	394	0.46	0.50	0.00	1.00
S4EATHLP	366	0.46	0.50	0.00	1.00
R2BEDHLP	1050	0.32	0.46	0.00	1.00
R3BEDHLP	1426	0.24	0.43	0.00	1.00
R4BEDHLP	1411	0.33	0.47	0.00	1.00
S2BEDHLP	765	0.35	0.48	0.00	1.00
S3BEDHLP	1053	0.25	0.43	0.00	1.00
S4BEDHLP	979	0.33	0.47	0.00	1.00
R2TOILETHLP	2148	0.18	0.38	0.00	1.00
R3TOILETHLP	2693	0.16	0.36	0.00	1.00
R4TOILETHLP	2249	0.19	0.39	0.00	1.00
S2TOILETHLP	1621	0.18	0.39	0.00	1.00
S3TOILETHLP	2020	0.15	0.36	0.00	1.00
S4TOILETHLP	1638	0.17	0.38	0.00	1.00

### Categorical Variable Codes

Value-----	R2DRESSHLP	R3DRESSHLP	R4DRESSHLP
.a:Healthy and young	114	578	242
.m:missing	257	324	119
.x:No difficulty	17299	18945	18076
0.No	508	720	751
1.Yes	434	530	628
Value-----	S2DRESSHLP	S3DRESSHLP	S4DRESSHLP
.a:Healthy and young	104	539	223
.m:missing	131	201	45
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	14629	16049	15118
0.No	365	520	500
1.Yes	351	415	476
Value-----	R2BATHEHLP	R3BATHEHLP	R4BATHEHLP
.a:Healthy and young	114	578	242
.m:missing	265	338	120
.x:No difficulty	17002	18612	17779
0.No	481	693	699
1.Yes	750	876	976
Value-----	S2BATHEHLP	S3BATHEHLP	S4BATHEHLP
.a:Healthy and young	104	539	223
.m:missing	138	209	46
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	14457	15853	14965
0.No	337	479	456
1.Yes	544	644	672
Value-----	R2EATHLP	R3EATHLP	R4EATHLP
.a:Healthy and young	114	578	242
.m:missing	256	325	120
.x:No difficulty	17819	19648	18912
0.No	201	305	284
1.Yes	222	241	258
Value-----	S2EATHLP	S3EATHLP	S4EATHLP
.a:Healthy and young	104	539	223
.m:missing	131	200	46
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517

.x:No difficulty	15027	16591	15727
0.No	153	214	197
1.Yes	165	180	169
Value-----	R2BEDHLP	R3BEDHLP	R4BEDHLP
.a:Healthy and young	114	578	242
.m:missing	256	326	120
.x:No difficulty	17192	18767	18043
0.No	719	1080	952
1.Yes	331	346	459
Value-----	S2BEDHLP	S3BEDHLP	S4BEDHLP
.a:Healthy and young	104	539	223
.m:missing	131	201	46
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	14580	15931	15114
0.No	497	791	655
1.Yes	268	262	324
Value-----	R2TOILETHLP	R3TOILETHLP	R4TOILETHLP
.a:Healthy and young	114	578	242
.m:missing	257	326	120
.x:No difficulty	16093	17500	17205
0.No	1764	2273	1827
1.Yes	384	420	422
Value-----	S2TOILETHLP	S3TOILETHLP	S4TOILETHLP
.a:Healthy and young	104	539	223
.m:missing	132	201	46
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	13723	14964	14455
0.No	1325	1708	1356
1.Yes	296	312	282

### How Constructed:

RwDRESSHLP indicates whether anyone helps the respondent dress, including taking clothes out from a closet, putting them on, buttoning up, and fastening a belt. RwbATHEHLP indicates whether anyone helps the respondent bathe or shower. RweATHLP indicates whether anyone helps the respondent eat, such as cutting up food. RwbEDHLP indicates whether anyone helps the respondent get into or out of bed. RwtOILETHLP indicates whether anyone helps the respondent use the toilet, including getting up and down. These variables are assigned 0 if the respondent reports nobody helps them with the Activity of Daily Living (ADL). These variables are assigned 1 if the respondent reports anyone helps them with the ADL. Starting at Wave 2, respondents are asked whether they have any difficulty with each ADL. If the respondent reports having difficulty with the ADL, CHARLS then asks whether anyone helps them with the activity. Special missing value (.a) is assigned if the activities of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADL in question. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwDRESSHLP indicates whether anyone helps the respondent's spouse dress, including taking clothes out from a closet, putting them on, buttoning up, and fastening a belt. SwbATHEHLP indicates whether anyone helps the respondent's spouse bathe or shower. SwEATHLP indicates whether anyone helps the respondent's spouse eat, such as cutting up food. SwbEDHLP indicates whether anyone helps the respondent's spouse get into or out of bed. SwtOILETHLP indicates whether anyone helps the respondent's spouse use the toilet, including getting up and down. SwDRESSHLP, SwbATHEHLP, SwEATHLP, SwbEDHLP, and SwtOILETHLP are taken from the spouse's values to RwDRESSHLP, RwbATHEHLP, RweATHLP, RwbEDHLP, and RwtOILETHLP, respectively. In addition to the special missing values used in RwDRESSHLP, RwbATHEHLP, RweATHLP, RwbEDHLP, and RwtOILETHLP, SwDRESSHLP, SwbATHEHLP, SwEATHLP, SwbEDHLP, and SwtOILETHLP employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 1, respondents are asked whether they have any difficulty with each Activity of Daily Living (ADL). These activities include dressing, bathing, eating, getting in/out of bed, and using the toilet. If the respondent reports having difficulty with any of these activities, CHARLS then asks who helps them with ADLs. At Wave 1, CHARLS does not ask whether anyone helps them with each activity separately.

Starting at Wave 2, if the respondent reports having difficulty with any ADLs, CHARLS then asks whether anyone helps them with each activity separately.

## Differences with the RAND HRS/Harmonized HRS

No differences known.

## CHARLS Variables Used:

Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease

DA007_w2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_w2	Whether Need Help Dress
DB011_w2	Whether Need Help Bathe
DB012_w2	Whether Need Help Eat
DB013_w2	Whether Need Help Get in or Out of Bed
DB014_w2	Whether Need Help Use The Toilet
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_w2_1_10_	Verify Disease Record
DA007_w2_1_11_	Verify Disease Record
DA007_w2_1_12_	Verify Disease Record
DA007_w2_1_13_	Verify Disease Record
DA007_w2_1_14_	Verify Disease Record
DA007_w2_1_1_	Verify Disease Record
DA007_w2_1_2_	Verify Disease Record
DA007_w2_1_3_	Verify Disease Record
DA007_w2_1_4_	Verify Disease Record
DA007_w2_1_5_	Verify Disease Record
DA007_w2_1_6_	Verify Disease Record
DA007_w2_1_7_	Verify Disease Record
DA007_w2_1_8_	Verify Disease Record
DA007_w2_1_9_	Verify Disease Record
DA007_w2_2_10_	Doctor Told Disease
DA007_w2_2_11_	Doctor Told Disease
DA007_w2_2_12_	Doctor Told Disease
DA007_w2_2_13_	Doctor Told Disease
DA007_w2_2_14_	Doctor Told Disease
DA007_w2_2_1_	Doctor Told Disease
DA007_w2_2_2_	Doctor Told Disease
DA007_w2_2_3_	Doctor Told Disease
DA007_w2_2_4_	Doctor Told Disease
DA007_w2_2_5_	Doctor Told Disease

DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime

---

ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime



### Activities of Daily Living: Whether Uses Assistive Devices

Wave	Variable	Label	Type
1	R1WALKRE	r1walkre:w1 r uses equipment to walk	Categ
2	R2WALKRE	r2walkre:w2 r uses equipment to walk	Categ
3	R3WALKRE	r3walkre:w3 r uses equipment to walk	Categ
4	R4WALKRE	r4walkre:w4 r uses equipment to walk	Categ
1	S1WALKRE	s1walkre:w1 s uses equipment to walk	Categ
2	S2WALKRE	s2walkre:w2 s uses equipment to walk	Categ
3	S3WALKRE	s3walkre:w3 s uses equipment to walk	Categ
4	S4WALKRE	s4walkre:w4 s uses equipment to walk	Categ
2	R2TOILTE	r2toilte:w2 r uses toilet equipment	Categ
3	R3TOILTE	r3toilte:w3 r uses toilet equipment	Categ
4	R4TOILTE	r4toilte:w4 r uses toilet equipment	Categ
2	S2TOILTE	s2toilte:w2 s uses toilet equipment	Categ
3	S3TOILTE	s3toilte:w3 s uses toilet equipment	Categ
4	S4TOILTE	s4toilte:w4 s uses toilet equipment	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKRE	2609	0.27	0.44	0.00	1.00
R2WALKRE	18379	0.06	0.25	0.00	1.00
R3WALKRE	20908	0.06	0.24	0.00	1.00
R4WALKRE	19721	0.07	0.26	0.00	1.00
S1WALKRE	1980	0.22	0.41	0.00	1.00
S2WALKRE	15479	0.05	0.22	0.00	1.00
S3WALKRE	17655	0.05	0.21	0.00	1.00
S4WALKRE	16340	0.05	0.22	0.00	1.00
R2TOILTE	18379	0.02	0.14	0.00	1.00
R3TOILTE	20908	0.02	0.14	0.00	1.00
R4TOILTE	19721	0.02	0.14	0.00	1.00
S2TOILTE	15479	0.02	0.13	0.00	1.00
S3TOILTE	17655	0.02	0.12	0.00	1.00
S4TOILTE	16340	0.02	0.13	0.00	1.00

### Categorical Variable Codes

Value-----	R1WALKRE	R2WALKRE	R3WALKRE	R4WALKRE
.m:missing	220	233	189	95
.x:No difficulty	14879			
0.No	1916	17190	19604	18330
1.Yes	693	1189	1304	1391
Value-----	S1WALKRE	S2WALKRE	S3WALKRE	S4WALKRE
.m:missing	111	101	69	22
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:No difficulty	12819			
0.No	1552	14692	16827	15479
1.Yes	428	787	828	861
Value-----	R2TOILTE	R3TOILTE	R4TOILTE	
.m:missing	233	189	95	
0.No	18028	20515	19315	
1.Yes	351	393	406	

Value-----	S2TOILTE	S3TOILTE	S4TOILTE
.m:missing	101	69	22
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
0.No	15216	17377	16065
1.Yes	263	278	275

### How Constructed:

RwWALKRE indicates whether the respondent uses any devices to help them walk or get across a room. RwWALKRE is assigned 1 if the respondent reports using a walking stick, travel device, manual wheelchair, or electric wheelchair. RwWALKRE is assigned 0 if the respondent does not report using any of these devices. RwTOILTE indicates whether the respondent uses any devices to help them use the toilet and is available starting in Wave 2. RwTOILTE is assigned 1 if the respondent reports using a catheter (urine collection bag) or a toilet series. RwTOILTE is assigned 0 if the respondent does not report using either of these devices. Special missing value (.x) is assigned if the respondent reports no difficulty with any ADL or IADL in Wave 1. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwWALKRE and SwTOILTE indicate whether the respondent's spouse uses devices to help them walk or use the toilet. SwWALKRE and SwTOILTE are taken from the spouse's values to RwWALKRE and RwTOILTE, respectively. In addition to the special missing values used in RwWALKRE and RwTOILTE, SwWALKRE and SwTOILTE employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

In Wave 1, respondents with difficulty with at least one ADL or IADL are asked whether they use a walking stick, travel device, manual wheelchair, electric wheelchair, or none of the above, and are asked to select all that apply. Starting in Wave 2, all respondents are asked whether they used those devices, and are also asked whether they use a catheter (urine collection bag) or toilet series. As such, a special missing value .x is used for RwWALKRE in Wave 1, and RwTOILTE becomes available starting in Wave 2.

### Differences with the RAND HRS/Harmonized HRS

The RAND HRS includes RwWALKRE to indicate whether the respondent uses a cane, walker or wheelchair when crossing a room. This question is not asked in the HRS if the respondent does not have difficulty dressing, and so RwWALKRE employs a special missing value .s. RwWALKRE in the Harmonized CHARLS employs a special missing value .x if the respondent has no difficulty with any ADL or IADL in Wave 1, and is otherwise asked to all respondents starting in Wave 2.

The HRS does not include any questions about using devices that help the respondent use the toilet.

### CHARLS Variables Used:

#### Wave 1:

DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB021S1	Do You Use Walking Stick
DB021S2	Do You Use Travel Device
DB021S3	Do You Use Manual Wheelchair
DB021S4	Do You Use Electric Wheelchair
DB021S5	Do Not Use Any Auxiliay

#### Wave 2:

DB010	Difficulty with Dressing
DB011	Difficulty with Bathing or Showering
DB012	Difficulty with Eating
DB013	Difficulty with Getting Into or Out of Bed
DB014	Difficulty with Using The Toilet
DB015	Difficulty with Controlling Urination and Defecation
DB016	Difficulty with Doing Household Chores
DB017	Difficulty with Preparing Hot Meals
DB018	Difficulty with Shopping for Groceries
DB019	Difficulty with Managing Your Money
DB020	Difficulty with Taking Medications
DB029S1	Auxiliary
DB029S2	Auxiliary
DB029S3	Auxiliary
DB029S4	Auxiliary
DB029S5	Auxiliary
DB029S6	Auxiliary
DB029S7	Auxiliary

## Wave 3:

DB010	Difficulty with Dressing
DB011	Difficulty with Bathing or Showering
DB012	Difficulty with Eating
DB013	Difficulty with Getting Into or Out of Bed
DB014	Difficulty with Using The Toilet
DB015	Difficulty with Controlling Urination and Defecation
DB016	Difficulty with Doing Household Chores
DB017	Difficulty with Preparing Hot Meals
DB018	Difficulty with Shopping for Groceries
DB019	Difficulty with Managing Your Money
DB020	Difficulty with Taking Medications
DB029S1	Auxiliary
DB029S2	Auxiliary
DB029S3	Auxiliary
DB029S4	Auxiliary
DB029S5	Auxiliary
DB029S6	Auxiliary
DB029S7	Auxiliary

## Wave 4:

DB010	Difficulty with Dressing
DB011	Difficulty with Bathing or Showering
DB012	Difficulty with Eating
DB013	Difficulty with Getting into or out of Bed
DB014	Difficulty with Using the Toilet
DB015	Difficulty with Controlling Urination and Defecation
DB016	Difficulty with Household Chores
DB017	Difficulty with Preparing Hot Meals
DB018	Difficulty with Shopping for Groceries
DB019	Difficulty with Managing Money
DB020	Difficulty with Taking Medications
DB029_S1	Use the Following Auxiliary
DB029_S2	Use the Following Auxiliary
DB029_S3	Use the Following Auxiliary
DB029_S4	Use the Following Auxiliary
DB029_S5	Use the Following Auxiliary
DB029_S6	Use the Following Auxiliary
DB029_S7	Use the Following Auxiliary

<b>Instrumental Activities of Daily Living: Whether Receives Care for IADLs</b>
---

Wave	Variable	Label	Type
2	R2HSWKHLP	r2hswkhlp:w2 whether anyone helps r with housework	Categ
3	R3HSWKHLP	r3hswkhlp:w3 whether anyone helps r with housework	Categ
4	R4HSWKHLP	r4hswkhlp:w4 whether anyone helps r with housework	Categ
2	S2HSWKHLP	s2hswkhlp:w2 whether anyone helps s with housework	Categ
3	S3HSWKHLP	s3hswkhlp:w3 whether anyone helps s with housework	Categ
4	S4HSWKHLP	s4hswkhlp:w4 whether anyone helps s with housework	Categ
2	R2MEALHLP	r2mealhlp:w2 whether anyone helps r prepare hot meals	Categ
3	R3MEALHLP	r3mealhlp:w3 whether anyone helps r prepare hot meals	Categ
4	R4MEALHLP	r4mealhlp:w4 whether anyone helps r prepare hot meals	Categ
2	S2MEALHLP	s2mealhlp:w2 whether anyone helps s prepare hot meals	Categ
3	S3MEALHLP	s3mealhlp:w3 whether anyone helps s prepare hot meals	Categ
4	S4MEALHLP	s4mealhlp:w4 whether anyone helps s prepare hot meals	Categ
2	R2SHOPHLP	r2shophlp:w2 whether anyone helps r with grocery shopping	Categ
3	R3SHOPHLP	r3shophlp:w3 whether anyone helps r with grocery shopping	Categ
4	R4SHOPHLP	r4shophlp:w4 whether anyone helps r with grocery shopping	Categ
2	S2SHOPHLP	s2shophlp:w2 whether anyone helps s with grocery shopping	Categ
3	S3SHOPHLP	s3shophlp:w3 whether anyone helps s with grocery shopping	Categ
4	S4SHOPHLP	s4shophlp:w4 whether anyone helps s with grocery shopping	Categ
2	R2MEDHLP	r2medhlp:w2 whether anyone helps r with taking medication	Categ
3	R3MEDHLP	r3medhlp:w3 whether anyone helps r with taking medication	Categ
4	R4MEDHLP	r4medhlp:w4 whether anyone helps r with taking medication	Categ
2	S2MEDHLP	s2medhlp:w2 whether anyone helps s with taking medication	Categ
3	S3MEDHLP	s3medhlp:w3 whether anyone helps s with taking medication	Categ
4	S4MEDHLP	s4medhlp:w4 whether anyone helps s with taking medication	Categ
2	R2PHONEHLP	r2phonehlp:w2 whether anyone helps r with making phone calls	Categ
3	R3PHONEHLP	r3phonehlp:w3 whether anyone helps r with making phone calls	Categ
4	R4PHONEHLP	r4phonehlp:w4 whether anyone helps r with making phone calls	Categ
2	S2PHONEHLP	s2phonehlp:w2 whether anyone helps s with making phone calls	Categ
3	S3PHONEHLP	s3phonehlp:w3 whether anyone helps s with making phone calls	Categ
4	S4PHONEHLP	s4phonehlp:w4 whether anyone helps s with making phone calls	Categ
2	R2MONEYHLP	r2moneyhlp:w2 whether anyone helps r with managing money	Categ
3	R3MONEYHLP	r3moneyhlp:w3 whether anyone helps r with managing money	Categ
4	R4MONEYHLP	r4moneyhlp:w4 whether anyone helps r with managing money	Categ
2	S2MONEYHLP	s2moneyhlp:w2 whether anyone helps s with managing money	Categ
3	S3MONEYHLP	s3moneyhlp:w3 whether anyone helps s with managing money	Categ
4	S4MONEYHLP	s4moneyhlp:w4 whether anyone helps s with managing money	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2HSWKHLP	2017	0.63	0.48	0.00	1.00
R3HSWKHLP	2667	0.60	0.49	0.00	1.00
R4HSWKHLP	2907	0.61	0.49	0.00	1.00
S2HSWKHLP	1494	0.66	0.48	0.00	1.00
S3HSWKHLP	1964	0.62	0.49	0.00	1.00
S4HSWKHLP	2043	0.63	0.48	0.00	1.00
R2MEALHLP	1745	0.75	0.43	0.00	1.00
R3MEALHLP	2007	0.76	0.43	0.00	1.00
R4MEALHLP	2254	0.71	0.45	0.00	1.00

S2MEALHLP	1287	0.78	0.41	0.00	1.00
S3MEALHLP	1491	0.77	0.42	0.00	1.00
S4MEALHLP	1594	0.74	0.44	0.00	1.00
R2SHOPHLP	1633	0.79	0.41	0.00	1.00
R3SHOPHLP	1879	0.79	0.41	0.00	1.00
R4SHOPHLP	1896	0.80	0.40	0.00	1.00
S2SHOPHLP	1195	0.78	0.41	0.00	1.00
S3SHOPHLP	1334	0.78	0.42	0.00	1.00
S4SHOPHLP	1309	0.79	0.41	0.00	1.00
R2MEDHLP	950	0.63	0.48	0.00	1.00
R3MEDHLP	1094	0.60	0.49	0.00	1.00
R4MEDHLP	1154	0.68	0.47	0.00	1.00
S2MEDHLP	686	0.63	0.48	0.00	1.00
S3MEDHLP	787	0.60	0.49	0.00	1.00
S4MEDHLP	825	0.69	0.46	0.00	1.00
R2PHONEHLP	2314	0.72	0.45	0.00	1.00
R3PHONEHLP	2388	0.71	0.45	0.00	1.00
R4PHONEHLP	2094	0.71	0.45	0.00	1.00
S2PHONEHLP	1658	0.74	0.44	0.00	1.00
S3PHONEHLP	1677	0.73	0.44	0.00	1.00
S4PHONEHLP	1465	0.72	0.45	0.00	1.00
R2MONEYHLP	2117	0.67	0.47	0.00	1.00
R3MONEYHLP	2347	0.66	0.47	0.00	1.00
R4MONEYHLP	2304	0.69	0.46	0.00	1.00
S2MONEYHLP	1642	0.71	0.45	0.00	1.00
S3MONEYHLP	1805	0.70	0.46	0.00	1.00
S4MONEYHLP	1735	0.72	0.45	0.00	1.00

### Categorical Variable Codes

Value-----	R2HSWKHLP	R3HSWKHLP	R4HSWKHLP
.m:missing	235	189	95
.x:No difficulty	16360	18241	16814
0.No	753	1068	1144
1.Yes	1264	1599	1763
Value-----	S2HSWKHLP	S3HSWKHLP	S4HSWKHLP
.m:missing	107	71	22
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	13979	15689	14297
0.No	515	755	753
1.Yes	979	1209	1290
Value-----	R2MEALHLP	R3MEALHLP	R4MEALHLP
.m:missing	245	202	95
.x:No difficulty	16622	18888	17467
0.No	429	482	653
1.Yes	1316	1525	1601
Value-----	S2MEALHLP	S3MEALHLP	S4MEALHLP
.m:missing	118	82	22
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	14175	16151	14746
0.No	280	339	416
1.Yes	1007	1152	1178

Value-----	R2SHOPHLP	R3SHOPHLP	R4SHOPHLP
.m:missing	230	183	95
.x:No difficulty	16749	19035	17825
0.No	350	395	383
1.Yes	1283	1484	1513
Value-----	S2SHOPHLP	S3SHOPHLP	S4SHOPHLP
.m:missing	105	64	22
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	14280	16326	15031
0.No	260	297	271
1.Yes	935	1037	1038
Value-----	R2MEDHLP	R3MEDHLP	R4MEDHLP
.m:missing	244	210	95
.x:No difficulty	17418	19793	18567
0.No	348	436	369
1.Yes	602	658	785
Value-----	S2MEDHLP	S3MEDHLP	S4MEDHLP
.m:missing	112	84	22
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	14782	16853	15515
0.No	251	314	257
1.Yes	435	473	568
Value-----	R2PHONEHLP	R3PHONEHLP	R4PHONEHLP
.m:missing	281	256	95
.n:No phone	891	827	1147
.x:No difficulty	15126	17626	16480
0.No	639	683	609
1.Yes	1675	1705	1485
Value-----	S2PHONEHLP	S3PHONEHLP	S4PHONEHLP
.m:missing	147	121	22
.n:No phone	564	508	723
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	13211	15418	14152
0.No	429	453	415
1.Yes	1229	1224	1050
Value-----	R2MONEYHLP	R3MONEYHLP	R4MONEYHLP
.m:missing	238	201	95
.x:No difficulty	16257	18549	17417
0.No	691	787	707
1.Yes	1426	1560	1597
Value-----	S2MONEYHLP	S3MONEYHLP	S4MONEYHLP
.m:missing	107	77	22
.u:unmar	2401	2719	2926
.v:sp nr	622	650	517
.x:No difficulty	13831	15842	14605
0.No	472	534	481
1.Yes	1170	1271	1254

**How Constructed:**

RwHSWKHLP indicates whether anyone helps the respondent with doing household chores, including house cleaning, doing dishes, making the bed, and arranging the house. RwMEALHLP indicates whether anyone helps the respondent prepare hot meals, such as preparing ingredients, cooking, and serving food. RwSHOPHLP indicates whether anyone helps the respondent with shopping for groceries, such as deciding what to buy and paying for it. RwPHONEHLP indicates whether anyone helps the respondent make phone calls. RwMEDHLP indicates whether anyone helps the respondent with taking medications, such as taking the correct portion of medication at the correct time. RwMONEYHLP indicates whether anyone helps the respondent with managing their money, such as paying bills, keeping track of

expenses, and managing assets. These variables are assigned 0 if the respondent reports nobody helps them with the Instrumental Activity of Daily Living (IADL). These variables are assigned 1 if the respondent reports anyone helps them with the IADL. Starting at Wave 2, respondents are asked whether they have any difficulty with each IADL. If the respondent reports having difficulty with the IADL, CHARLS then asks whether anyone helps them with the activity. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADL in question. RWPHONEHLP is assigned special missing value (.n) if the respondent reports not having a phone. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwHSWKHLP indicates whether anyone helps the respondent's spouse with doing household chores, including house cleaning, doing dishes, making the bed, and arranging the house. SwMEALHLP indicates whether anyone helps the respondent's spouse prepare hot meals, such as preparing ingredients, cooking, and serving food. SwSHOPHLP indicates whether anyone helps the respondent's spouse with shopping for groceries, such as deciding what to buy and paying for it. SwPHONEHLP indicates whether anyone helps the respondent's spouse make phone calls. SwMEDHLP indicates whether anyone helps the respondent's spouse with taking medications, such as taking the correct portion of medication at the correct time. SwMONEYHLP indicates whether anyone helps the respondent's spouse with managing their money, such as paying bills, keeping track of expenses, and managing assets. SwHSWKHLP, SwMEALHLP, SwSHOPHLP, SwPHONEHLP, SwMEDHLP, and SwMONEYHLP are taken from the spouse's values to RwhSWKHLP, RwMEALHLP, RwSHOPHLP, RwPHONEHLP, RwMEDHLP, and RwmONEYHLP, respectively. In addition to the special missing values used in RwhSWKHLP, RwMEALHLP, RwSHOPHLP, RwPHONEHLP, RwMEDHLP, and RwmONEYHLP, SwHSWKHLP, SwMEALHLP, SwSHOPHLP, SwPHONEHLP, SwMEDHLP, and SwMONEYHLP employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 1, respondents are asked whether they have any difficulty with each Instrumental Activity of Daily Living (IADL). These activities include doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. If the respondent reports having difficulty with any of these activities, CHARLS then asks who helps them with IADLs. At Wave 1, CHARLS does not ask whether anyone helps them with each activity separately.

Starting at Wave 2, if the respondent reports having difficulty with any IADLs, CHARLS then asks whether anyone helps them with each activity separately.

## Differences with the RAND HRS/Harmonized HRS

The Harmonized CHARLS includes RwhSWKHLP, indicating receiving help with housework, which is not asked in the HRS.

## CHARLS Variables Used:

Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease

DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease



DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor

DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Future ADL Help</b>
------------------------

Wave	Variable	Label	Type
1	R1FTRHLP	r1ftrhlp:w1 anyone able to help r with future adl needs	Categ
2	R2FTRHLP	r2ftrhlp:w2 anyone able to help r with future adl needs	Categ
3	R3FTRHLP	r3ftrhlp:w3 anyone able to help r with future adl needs	Categ
4	R4FTRHLP	r4ftrhlp:w4 anyone able to help r with future adl needs	Categ
1	S1FTRHLP	s1ftrhlp:w1 anyone able to help s with future adl needs	Categ
2	S2FTRHLP	s2ftrhlp:w2 anyone able to help s with future adl needs	Categ
3	S3FTRHLP	s3ftrhlp:w3 anyone able to help s with future adl needs	Categ
4	S4FTRHLP	s4ftrhlp:w4 anyone able to help s with future adl needs	Categ
2	R2FTRSP	r2ftrsp:w2 spouse able to help r with future adl needs	Categ
3	R3FTRSP	r3ftrsp:w3 spouse able to help r with future adl needs	Categ
4	R4FTRSP	r4ftrsp:w4 spouse able to help r with future adl needs	Categ
2	S2FTRSP	s2ftrsp:w2 spouse able to help s with future adl needs	Categ
3	S3FTRSP	s3ftrsp:w3 spouse able to help s with future adl needs	Categ
4	S4FTRSP	s4ftrsp:w4 spouse able to help s with future adl needs	Categ
1	R1FTRKIDS	r1ftrkids:w1 child/grandchild able to help r with future adl	Categ
2	R2FTRKIDS	r2ftrkids:w2 child/grandchild able to help r with future adl	Categ
3	R3FTRKIDS	r3ftrkids:w3 child/grandchild able to help r with future adl	Categ
4	R4FTRKIDS	r4ftrkids:w4 child/grandchild able to help r with future adl	Categ
1	S1FTRKIDS	s1ftrkids:w1 child/grandchild able to help s with future adl	Categ
2	S2FTRKIDS	s2ftrkids:w2 child/grandchild able to help s with future adl	Categ
3	S3FTRKIDS	s3ftrkids:w3 child/grandchild able to help s with future adl	Categ
4	S4FTRKIDS	s4ftrkids:w4 child/grandchild able to help s with future adl	Categ
1	R1FTROTHER	r1ftrothr:w1 other relative/someone else able to help r with	Categ
2	R2FTROTHER	r2ftrothr:w2 other relative/someone else able to help r with	Categ
3	R3FTROTHER	r3ftrothr:w3 other relative/someone else able to help r with	Categ
4	R4FTROTHER	r4ftrothr:w4 other relative/someone else able to help r with	Categ
1	S1FTROTHER	s1ftrothr:w1 other relative/someone else able to help s with	Categ
2	S2FTROTHER	s2ftrothr:w2 other relative/someone else able to help s with	Categ
3	S3FTROTHER	s3ftrothr:w3 other relative/someone else able to help s with	Categ
4	S4FTROTHER	s4ftrothr:w4 other relative/someone else able to help s with	Categ
1	R1FTRPRO	r1ftrpro:w1 professional able to help r with future adl need	Categ
2	R2FTRPRO	r2ftrpro:w2 professional able to help r with future adl need	Categ
3	R3FTRPRO	r3ftrpro:w3 professional able to help r with future adl need	Categ
4	R4FTRPRO	r4ftrpro:w4 professional able to help r with future adl need	Categ
1	S1FTRPRO	s1ftrpro:w1 professional able to help s with future adl need	Categ
2	S2FTRPRO	s2ftrpro:w2 professional able to help s with future adl need	Categ
3	S3FTRPRO	s3ftrpro:w3 professional able to help s with future adl need	Categ
4	S4FTRPRO	s4ftrpro:w4 professional able to help s with future adl need	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1FTRHLP	16759	0.70	0.46	0.00	1.00
R2FTRHLP	17233	0.70	0.46	0.00	1.00
R3FTRHLP	19479	0.68	0.47	0.00	1.00
R4FTRHLP	19721	0.72	0.45	0.00	1.00
S1FTRHLP	14167	0.70	0.46	0.00	1.00
S2FTRHLP	14511	0.70	0.46	0.00	1.00
S3FTRHLP	16489	0.68	0.47	0.00	1.00
S4FTRHLP	16340	0.74	0.44	0.00	1.00
R2FTRSP	16667	0.00	0.04	0.00	1.00

R3FTRSP	19453	0.32	0.47	0.00	1.00
R4FTRSP	19721	0.37	0.48	0.00	1.00
S2FTRSP	14092	0.00	0.03	0.00	1.00
S3FTRSP	16467	0.37	0.48	0.00	1.00
S4FTRSP	16340	0.43	0.50	0.00	1.00
R1FTRKIDS	16714	0.65	0.48	0.00	1.00
R2FTRKIDS	16667	0.68	0.47	0.00	1.00
R3FTRKIDS	19453	0.61	0.49	0.00	1.00
R4FTRKIDS	19721	0.59	0.49	0.00	1.00
S1FTRKIDS	14131	0.66	0.48	0.00	1.00
S2FTRKIDS	14092	0.68	0.47	0.00	1.00
S3FTRKIDS	16467	0.61	0.49	0.00	1.00
S4FTRKIDS	16340	0.59	0.49	0.00	1.00
R1FTROTHR	16714	0.06	0.24	0.00	1.00
R2FTROTHR	16667	0.34	0.47	0.00	1.00
R3FTROTHR	19453	0.05	0.22	0.00	1.00
R4FTROTHR	19721	0.04	0.18	0.00	1.00
S1FTROTHR	14131	0.06	0.23	0.00	1.00
S2FTROTHR	14092	0.33	0.47	0.00	1.00
S3FTROTHR	16467	0.05	0.21	0.00	1.00
S4FTROTHR	16340	0.03	0.18	0.00	1.00
R1FTRPRO	16714	0.01	0.07	0.00	1.00
R2FTRPRO	16667	0.01	0.10	0.00	1.00
R3FTRPRO	19453	0.02	0.14	0.00	1.00
R4FTRPRO	19721	0.03	0.16	0.00	1.00
S1FTRPRO	14131	0.01	0.07	0.00	1.00
S2FTRPRO	14092	0.01	0.08	0.00	1.00
S3FTRPRO	16467	0.02	0.14	0.00	1.00
S4FTRPRO	16340	0.03	0.16	0.00	1.00

### Categorical Variable Codes

Value-----	R1FTRHLP	R2FTRHLP	R3FTRHLP	R4FTRHLP
.d:dk	787			
.m:missing	154	1379	1618	95
.r:refuse	8			
0.No	5088	5104	6262	5483
1.Yes	11671	12129	13217	14238
Value-----	S1FTRHLP	S2FTRHLP	S3FTRHLP	S4FTRHLP
.d:dk	677			
.m:missing	59	1069	1235	22
.r:refuse	7			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	4308	4349	5273	4319
1.Yes	9859	10162	11216	12021
Value-----		R2FTRSP	R3FTRSP	R4FTRSP
.m:missing		1945	1644	95
0.No		16643	13132	12507
1.Yes		24	6321	7214
Value-----		S2FTRSP	S3FTRSP	S4FTRSP
.m:missing		1488	1257	22
.u:unmar		2401	2719	2926
.v:sp nr		622	650	517
0.No		14075	10326	9297
1.Yes		17	6141	7043

Value-----	R1FTRKIDS	R2FTRKIDS	R3FTRKIDS	R4FTRKIDS
.d:dk	828			
.m:missing	155	1945	1644	95
.r:refuse	11			
0.No	5787	5321	7618	8015
1.Yes	10927	11346	11835	11706
Value-----	S1FTRKIDS	S2FTRKIDS	S3FTRKIDS	S4FTRKIDS
.d:dk	710			
.m:missing	60	1488	1257	22
.r:refuse	9			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	4866	4497	6485	6674
1.Yes	9265	9595	9982	9666
Value-----	R1FTROTTHR	R2FTROTTHR	R3FTROTTHR	R4FTROTTHR
.d:dk	828			
.m:missing	155	1945	1644	95
.r:refuse	11			
0.No	15711	10971	18504	19029
1.Yes	1003	5696	949	692
Value-----	S1FTROTTHR	S2FTROTTHR	S3FTROTTHR	S4FTROTTHR
.d:dk	710			
.m:missing	60	1488	1257	22
.r:refuse	9			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13308	9402	15696	15772
1.Yes	823	4690	771	568
Value-----	R1FTRPRO	R2FTRPRO	R3FTRPRO	R4FTRPRO
.d:dk	828			
.m:missing	155	1945	1644	95
.r:refuse	11			
0.No	16624	16499	19081	19200
1.Yes	90	168	372	521
Value-----	S1FTRPRO	S2FTRPRO	S3FTRPRO	S4FTRPRO
.d:dk	710			
.m:missing	60	1488	1257	22
.r:refuse	9			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	14060	13996	16155	15929
1.Yes	71	96	312	411

### How Constructed:

RwFTRHLP indicates whether, supposing in the future the respondent needed help with basic personal care activities like eating or dressing (i.e. ADLs), they have relatives or friends (besides their spouse/partner) who would be willing and able to help them over a long period of time. RwFTRHLP is assigned 0 if the respondent reports that they have no one who would be willing and able to help. RwFTRHLP is assigned 1 if the respondent reports that they have someone who would be willing and able to help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. This variable is coded as blank missing (.) if the respondent did not respond to this wave.

RwFTRSP, RwFTRKIDS, RwFTROTTHR, and RwFTRPRO indicate whether the respondent believes a person of the specified relationship would be willing and able to help them with ADL needs in the future if needed. RwFTRSP indicates whether the respondent's spouse would be able to help them in the future and is available starting in Wave 2. RwFTRKIDS indicates whether the respondent's children, spouse of children, or grandchildren would be able to help them in the future. RwFTROTTHR indicates whether the respondent's parents, parents-in-law, siblings, spouse of sibling, children of sibling, other relatives or person of "other" relationship would be able to help them in the future. RwFTRPRO indicates whether some kind of professional would be able to help them in the future. In Wave 1, this includes a paid helper (such as nanny), or volunteer or employee of facility. Wave 2 includes

the same categories as Wave 1 and adds nursing home. Starting in Wave 3, this includes the same categories as in Wave 2 and adds community help. RwfTRSP, RwfTRKIDS, RwfTROTHR, and RwfTRPRO are assigned 0 if the respondent did not report that someone with that relationship would be able to help them in the future or if they reported that no one would be able to help them in the future. RwfTRSP, RwfTRKIDS, RwfTROTHR, and RwfTRPRO are assigned 1 if the respondent reported that someone with that relationship would be able to help them in the future. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwFTRHLP, SwFTRSP, SwFTRKIDS, SwFTROTHR, and SwFTRPRO indicate whether the respondent's spouse has someone who would be willing and able to help them with future ADL needs, and if so, the relationship of the person or people who could help. SwFTRHLP, SwFTRSP, SwFTRKIDS, SwFTROTHR, and SwFTRPRO are taken from the spouse's values to RwfTRHLP, RwfTRSP, RwfTRKIDS, RwfTROTHR, and RwfTRPRO, respectively. In addition to the special missing values used in RwfTRHLP, RwfTRSP, RwfTRKIDS, RwfTROTHR, and RwfTRPRO, SwFTRHLP, SwFTRSP, SwFTRKIDS, SwFTROTHR, and SwFTRPRO employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

In Wave 1, the respondent can choose from the following categories: mother, father, mother-in-law, father-in-law, children, sibling, sibling of spouse, brother-in-law/sister-in-law, children's spouse, grandchild, other relative, paid helper, volunteer or employee of facility, and other. In Wave 2, the respondent can choose from the following categories: spouse, mother, father, mother-in-law, father-in-law, children, sibling, siblings of spouse, brother-in-law/sister-in-law, grandchild, other relative, paid helper, volunteer or employee of facility, nursing home, and other. Starting in Wave 3, the respondent can choose from the following groupings: 1.spouse, 2.father, mother, father-in-law, mother-in-law, 3.children, children's spouses, grandson, granddaughter, 4.sibling, brother-in-law, sister-in-law, sibling of spouse, children of sibling, sibling of spouse, brother-in-law of spouse, sister-in-law of spouse, children of brother-in-law, children of sister-in-law, 5.other relative, 6.paid helper (such as nanny), 7.volunteer or employee of facility, 8.nursing home, 9.community, 10.other.

Because spouse doesn't become an option until Wave 2, RwfTRSP is not available until Wave 2.

There is a high percentage of missing in Waves 2 and 3 that are not explained by the survey's skip patterns.

## Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwfTRHLP, RwfTRKIDS, and RwfTROTHR based on the categories of relationships included in the HRS. The Harmonized CHARLS also includes RwfTRSP and RwfTRPRO because the respondent's spouse and professionals are also included as categories in the CHARLS.

## CHARLS Variables Used:

### Wave 1:

DB030	Is There Any Other One to Help You In The Future
DB031S1	Mother Is The One to Help You In The Future
DB031S10	Children Is The One to Help You In The Future
DB031S11	Children Is The One to Help You In The Future
DB031S12	Children Is The One to Help You In The Future
DB031S13	Children Is The One to Help You In The Future
DB031S14	Children Is The One to Help You In The Future
DB031S15	Children Is The One to Help You In The Future
DB031S16	Children Is The One to Help You In The Future
DB031S17	Children Is The One to Help You In The Future
DB031S18	Children Is The One to Help You In The Future
DB031S19	Children Is The One to Help You In The Future
DB031S2	Father Is The One to Help You In The Future
DB031S20	Children Is The One to Help You In The Future
DB031S21	Children Is The One to Help You In The Future
DB031S22	Children Is The One to Help You In The Future
DB031S23	Children Is The One to Help You In The Future
DB031S24	Children Is The One to Help You In The Future
DB031S25	Children Is The One to Help You In The Future
DB031S26	Children Is The One to Help You In The Future

DB031S27 Children Is The One to Help You In The Future  
 DB031S28 Children Is The One to Help You In The Future  
 DB031S29 Children Is The One to Help You In The Future  
 DB031S3 Mother-in-law Is The One to Help You In The Future  
 DB031S30 Sibling Is The One to Help You In The Future  
 DB031S31 Sibling of Spouse Is The One to Help You In The Future  
 DB031S32 Brother-in-law,Sister in law Is The One to Help You In The Futu  
 DB031S33 Children's Spouse Is The One to Help You In The Future  
 DB031S34 Grandchild Is The One to Help You In The Future  
 DB031S35 Other Relative Is The One to Help You In The Future  
 DB031S36 Paid Helper Is The One to Help You In The Future  
 DB031S37 Volunteer Is The One to Help You In The Future  
 DB031S38 Other Is The One to Help You In The Future  
 DB031S4 Father-in-law Is The One to Help You In The Future  
 DB031S5 Children Is The One to Help You In The Future  
 DB031S6 Children Is The One to Help You In The Future  
 DB031S7 Children Is The One to Help You In The Future  
 DB031S8 Children Is The One to Help You In The Future  
 DB031S9 Children Is The One to Help You In The Future

## Wave 2:

DB030 Any Other One to Help You in Future  
 DB031S1 Who Will Help You in The Future? Spouse  
 DB031S10 Who Will Help You in The Future? FLChildName[5]  
 DB031S11 Who Will Help You in The Future? FLChildName[6]  
 DB031S12 Who Will Help You in The Future? FLChildName[7]  
 DB031S13 Who Will Help You in The Future? FLChildName[8]  
 DB031S14 Who Will Help You in The Future? FLChildName[9]  
 DB031S15 Who Will Help You in The Future? FLChildName[10]e  
 DB031S16 Who Will Help You in The Future? FLChildName[11]  
 DB031S2 Who Will Help You in The Future? Mother  
 DB031S3 Who Will Help You in The Future? Father  
 DB031S31 Who Will Help You in The Future? Sibling  
 DB031S32 Who Will Help You in The Future? Sibling of Spouse  
 DB031S33 Who Will Help You in The Future? Brother-in-Law, Sister-in-Law  
 DB031S34 Who Will Help You in The Future? Grandchild  
 DB031S35 Who Will Help You in The Future? Other Relative  
 DB031S36 Who Will Help You in The Future? Paid Helpersuch as Nanny  
 DB031S37 Who Will Help You in The Future? Volunteer or Employee of Facti  
 DB031S38 Who Will Help You in The Future? 38 Nursing Home  
 DB031S39 Who Will Help You in The Future? Other  
 DB031S4 Who Will Help You in The Future? Mother-in-Law  
 DB031S5 Who Will Help You in The Future? Father-in-Law  
 DB031S6 Who Will Help You in The Future? FLChildName[1]  
 DB031S7 Who Will Help You in The Future? FLChildName[2]  
 DB031S8 Who Will Help You in The Future? FLChildName[3]  
 DB031S9 Who Will Help You in The Future? FLChildName[4]

## Wave 3:

DB030 Any Other One to Help You in Future  
 DB031S1 Who Will Help You in Future  
 DB031S10 Who Will Help You in Future  
 DB031S2 Who Will Help You in Future  
 DB031S3 Who Will Help You in Future  
 DB031S4 Who Will Help You in Future  
 DB031S5 Who Will Help You in Future  
 DB031S6 Who Will Help You in Future  
 DB031S7 Who Will Help You in Future  
 DB031S8 Who Will Help You in Future  
 DB031S9 Who Will Help You in Future

## Wave 4:

DB030 Any Possible Helper in the Future  
 DB031\_S1 Relationship to You  
 DB031\_S10 Relationship to You  
 DB031\_S2 Relationship to You  
 DB031\_S3 Relationship to You  
 DB031\_S4 Relationship to You  
 DB031\_S5 Relationship to You  
 DB031\_S6 Relationship to You  
 DB031\_S7 Relationship to You  
 DB031\_S8 Relationship to You

DB031\_S9

Relationship to You



<b>Care for ADLs or IADLs: Receives Any Care</b>
--

Wave	Variable	Label	Type
2	R2RACANY	r2racany:w2 r receives any care for adls	Categ
3	R3RACANY	r3racany:w3 r receives any care for adls	Categ
4	R4RACANY	r4racany:w4 r receives any care for adls	Categ
2	S2RACANY	s2racany:w2 s receives any care for adls	Categ
3	S3RACANY	s3racany:w3 s receives any care for adls	Categ
4	S4RACANY	s4racany:w4 s receives any care for adls	Categ
2	R2RICANY	r2ricany:w2 r receives any care for iadls	Categ
3	R3RICANY	r3ricany:w3 r receives any care for iadls	Categ
4	R4RICANY	r4ricany:w4 r receives any care for iadls	Categ
2	S2RICANY	s2ricany:w2 s receives any care for iadls	Categ
3	S3RICANY	s3ricany:w3 s receives any care for iadls	Categ
4	S4RICANY	s4ricany:w4 s receives any care for iadls	Categ
1	R1RCANY	r1rcany:w1 r receives any care for adls/iadls	Categ
2	R2RCANY	r2rcany:w2 r receives any care for adls/iadls	Categ
3	R3RCANY	r3rcany:w3 r receives any care for adls/iadls	Categ
4	R4RCANY	r4rcany:w4 r receives any care for adls/iadls	Categ
1	S1RCANY	s1rcany:w1 s receives any care for adls/iadls	Categ
2	S2RCANY	s2rcany:w2 s receives any care for adls/iadls	Categ
3	S3RCANY	s3rcany:w3 s receives any care for adls/iadls	Categ
4	S4RCANY	s4rcany:w4 s receives any care for adls/iadls	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RACANY	2956	0.33	0.47	0.00	1.00
R3RACANY	3720	0.32	0.47	0.00	1.00
R4RACANY	3421	0.37	0.48	0.00	1.00
S2RACANY	2217	0.33	0.47	0.00	1.00
S3RACANY	2819	0.32	0.47	0.00	1.00
S4RACANY	2488	0.37	0.48	0.00	1.00
R2RICANY	4710	0.75	0.43	0.00	1.00
R3RICANY	5378	0.72	0.45	0.00	1.00
R4RICANY	5305	0.72	0.45	0.00	1.00
S2RICANY	3591	0.76	0.42	0.00	1.00
S3RICANY	4071	0.73	0.44	0.00	1.00
S4RICANY	3904	0.74	0.44	0.00	1.00
R1RCANY	2597	0.86	0.35	0.00	1.00
R2RCANY	5611	0.65	0.48	0.00	1.00
R3RCANY	6532	0.62	0.48	0.00	1.00
R4RCANY	6161	0.65	0.48	0.00	1.00
S1RCANY	1970	0.87	0.34	0.00	1.00
S2RCANY	4308	0.66	0.47	0.00	1.00
S3RCANY	5010	0.63	0.48	0.00	1.00
S4RCANY	4581	0.65	0.48	0.00	1.00

### Categorical Variable Codes

Value-----	R2RACANY	R3RACANY	R4RACANY
.a:Healthy and young	114	578	242
.m:missing	257	332	119

.x:No difficulty		15285	16467	16034	
0.No		1991	2543	2154	
1.Yes		965	1177	1267	
Value-----		S2RACANY	S3RACANY	S4RACANY	
.a:Healthy and young		104	539	223	
.m:missing		131	206	45	
.u:unmar		2401	2719	2926	
.v:sp nr		622	650	517	
.x:No difficulty		13128	14160	13606	
0.No		1491	1919	1579	
1.Yes		726	900	909	
Value-----		R2RICANY	R3RICANY	R4RICANY	
.m:missing		236	191	95	
.x:No difficulty		13666	15528	14416	
0.No		1188	1485	1481	
1.Yes		3522	3893	3824	
Value-----		S2RICANY	S3RICANY	S4RICANY	
.m:missing		109	72	22	
.u:unmar		2401	2719	2926	
.v:sp nr		622	650	517	
.x:No difficulty		11880	13581	12436	
0.No		845	1092	1032	
1.Yes		2746	2979	2872	
Value-----		R1RCANY	R2RCANY	R3RCANY	R4RCANY
.a:Healthy and young		3		1	1
.d:dk		6			
.m:missing		217	234	187	93
.x:No difficulty		14885	12767	14377	13561
0.No		367	1947	2451	2172
1.Yes		2230	3664	4081	3989
Value-----		S1RCANY	S2RCANY	S3RCANY	S4RCANY
.a:Healthy and young		1		1	
.d:dk		4			
.m:missing		110	107	70	21
.u:unmar		2260	2401	2719	2926
.v:sp nr		538	622	650	517
.x:No difficulty		12825	11165	12643	11760
0.No		258	1449	1874	1584
1.Yes		1712	2859	3136	2997

### How Constructed:

RwRACANY indicates whether anyone helps the respondent with any Activities of Daily Living (ADLs) including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRACANY is assigned 0 if the respondent reports nobody helps them with any ADLs. RwRACANY is assigned 1 if the respondent reports anyone helps them with at least one ADL. Starting at Wave 2, respondents are asked whether they have any difficulty with each ADL. If the respondent reports having difficulty with the ADL, CHARLS then asks whether anyone helps them with the activity. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRACANY is available starting in Wave 2.

RwRICANY indicates whether anyone helps the respondent with any Instrumental Activities of Daily Living (ADLs) including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRICANY is assigned 0 if the respondent reports nobody helps them with any IADLs. RwRICANY is assigned 1 if the respondent reports anyone helps them with at least one IADL. Starting at Wave 2, respondents are asked whether they have any difficulty with each IADL. If the respondent reports having difficulty with the IADL, CHARLS then asks whether anyone helps them with the activity. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRICANY is available starting in Wave 2.

RwRCANY indicates whether anyone helps the respondent with any ADLs or IADLs. RwRCANY is assigned 0 if the respondent reports nobody helps them with any ADLs or IADLs. RwRCANY is assigned 1 if the respondent reports anyone helps them with at least on ADL or IADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRACANY indicates whether anyone helps the respondent's spouse with any Activities of Daily Living (ADLs) including dressing, bathing, eating, getting in/out of bed, and using the toilet. SwRICANY indicates whether anyone helps the respondent's spouse with any Instrumental Activities of Daily Living (ADLs) including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. SwRCANY indicates whether anyone helps the respondent's spouse with ADLs or IADLs. SwRACANY, SwRICANY, and SwRCANY are taken from the spouse's values to RwRACANY, RWRICANY, and RWRACANY, respectively. In addition to the special missing values used in RwRACANY, RWRICANY, and RWRACANY, SwRACANY, SwRICANY, and SwRCANY employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 1, respondents are asked whether they have any difficulty with each Activity of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) and Instrumental Activity of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). If the respondent reports having difficulty with any of these activities, CHARLS then asks who helps them with ADLs and/or IADLs. At Wave 1, CHARLS does not ask whether anyone helps them with each activity separately.

Starting at Wave 2, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks whether anyone helps them with each activity separately.

## Differences with the RAND HRS/Harmonized HRS

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. Wave 1 of CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

## CHARLS Variables Used:

Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease

DA008\_11\_ Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble  
 DA008\_1\_ Do You Konw If You Have Hypertension  
 DA008\_5\_ Do You Konw If You Have Chronic Lung Diseases  
 DB010 Have Any Difficulty With Dressing Because of Health And Memory  
 DB011 Have Any Difficulty With Bathing or Showering  
 DB012 Have Any Difficulty With Eating Because of Health And Memory Pr  
 DB013 Have Any Difficulty With Getting Out of Bed and Walking Across  
 DB014 Have Any Difficulty With Using the Toilet,Getting Up and Down  
 DB015 Have Any Difficulty With Controlling Urination and Defecation  
 DB016 Have Any Difficulty With Doing Household Chores  
 DB017 Have Any Difficulty With Preparing Hot Meals  
 DB018 Have Any Difficulty With Shopping Because of Health And Memory  
 DB019 Have Any Difficulty With Managing Assets Because of Health And  
 DB020 Have Any Difficulty With Taking Medications Because of Health A  
 DB022S1 Spouse Helps You Often With Functional Difficulties  
 DB022S10 Children Helps You Often With Functional Difficulties  
 DB022S11 Children Helps You Often With Functional Difficulties  
 DB022S12 Children Helps You Often With Functional Difficulties  
 DB022S13 Children Helps You Often With Functional Difficulties  
 DB022S14 Children Helps You Often With Functional Difficulties  
 DB022S15 Children Helps You Often With Functional Difficulties  
 DB022S16 Children Helps You Often With Functional Difficulties  
 DB022S17 Children Helps You Often With Functional Difficulties  
 DB022S18 Children Helps You Often With Functional Difficulties  
 DB022S19 Children Helps You Often With Functional Difficulties  
 DB022S2 Mother Helps You Often With Functional Difficulties  
 DB022S20 Children Helps You Often With Functional Difficulties  
 DB022S21 Children Helps You Often With Functional Difficulties  
 DB022S22 Children Helps You Often With Functional Difficulties  
 DB022S23 Children Helps You Often With Functional Difficulties  
 DB022S24 Children Helps You Often With Functional Difficulties  
 DB022S25 Children Helps You Often With Functional Difficulties  
 DB022S26 Children Helps You Often With Functional Difficulties  
 DB022S27 Children Helps You Often With Functional Difficulties  
 DB022S28 Children Helps You Often With Functional Difficulties  
 DB022S29 Children Helps You Often With Functional Difficulties  
 DB022S3 Father Helps You Often With Functional Difficulties  
 DB022S30 Children Helps You Often With Functional Difficulties  
 DB022S31 Sibling Helps You Often With Functional Difficulties  
 DB022S32 Sibling of Spouse Helps You Often With Functional Difficulties  
 DB022S33 Brother-in-law,Sister in law Helps You Often With Functional Di  
 DB022S34 Children's Spouse Helps You Often With Functional Difficulties  
 DB022S35 Grandchild Helps You Often With Functional Difficulties  
 DB022S36 Other Relative Helps You Often With Functional Difficulties  
 DB022S37 Paid Helper Helps You Often With Functional Difficulties  
 DB022S38 Volunteer Helps You Often With Functional Difficulties  
 DB022S39 Other Helps You Often With Functional Difficulties  
 DB022S4 Mother-in-law Helps You Often With Functional Difficulties  
 DB022S40 No One Helps You Often With Functional Difficulties  
 DB022S5 Father-in-law Helps You Often With Functional Difficulties  
 DB022S6 Children Helps You Often With Functional Difficulties  
 DB022S7 Children Helps You Often With Functional Difficulties  
 DB022S8 Children Helps You Often With Functional Difficulties  
 DB022S9 Children Helps You Often With Functional Difficulties

## Wave 2:

DA001 Self Assessed Health Status (Excellent)  
 DA002 Self Assessed Health Status (Very Good)  
 DA003 Any Pain on The Left Side of Chest  
 DA004 Any Pains When Climbing Stairs or  
 DA005\_1\_ Physical Disabilities  
 DA005\_2\_ Brain Damage/Mental Retardation  
 DA005\_3\_ Vision Problem  
 DA005\_4\_ Hearing Problem  
 DA005\_5\_ Speech Impediment  
 DA007\_10\_ Have Been Diagnosed of Disease  
 DA007\_11\_ Have Been Diagnosed of Disease  
 DA007\_12\_ Have Been Diagnosed of Disease  
 DA007\_13\_ Have Been Diagnosed of Disease  
 DA007\_14\_ Have Been Diagnosed of Disease

DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities

DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_w2_1_10_	Verify Disease Record
DA007_w2_1_11_	Verify Disease Record
DA007_w2_1_12_	Verify Disease Record
DA007_w2_1_13_	Verify Disease Record
DA007_w2_1_14_	Verify Disease Record
DA007_w2_1_1_	Verify Disease Record
DA007_w2_1_2_	Verify Disease Record
DA007_w2_1_3_	Verify Disease Record
DA007_w2_1_4_	Verify Disease Record
DA007_w2_1_5_	Verify Disease Record
DA007_w2_1_6_	Verify Disease Record
DA007_w2_1_7_	Verify Disease Record
DA007_w2_1_8_	Verify Disease Record
DA007_w2_1_9_	Verify Disease Record
DA007_w2_2_10_	Doctor Told Disease
DA007_w2_2_11_	Doctor Told Disease
DA007_w2_2_12_	Doctor Told Disease
DA007_w2_2_13_	Doctor Told Disease
DA007_w2_2_14_	Doctor Told Disease
DA007_w2_2_1_	Doctor Told Disease
DA007_w2_2_2_	Doctor Told Disease
DA007_w2_2_3_	Doctor Told Disease
DA007_w2_2_4_	Doctor Told Disease
DA007_w2_2_5_	Doctor Told Disease
DA007_w2_2_6_	Doctor Told Disease
DA007_w2_2_7_	Doctor Told Disease
DA007_w2_2_8_	Doctor Told Disease
DA007_w2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_w2	Whether Need Help Dress
DB011_w2	Whether Need Help Bathe
DB012_w2	Whether Need Help Eat
DB013_w2	Whether Need Help Get in or Out of Bed
DB014_w2	Whether Need Help Use The Toilet
DB016_w2	Does Anyone Help You Prepare Hot Meals
DB017_w2	Does Anyone Help You Prepare Hot Meals
DB018_w2	Does Anyone Help You Shop for Groceries?
DB019_w2	Does Anyone Help You Take Medications?
DB020_w2	Does Anyone Help You Take Medications?
DB035_w2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease

ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Receives Informal Caregiving</b>
-------------------------------------

Wave	Variable	Label	Type
2	R2RACAANY	r2racaany:w2 r receives any informal care for adls	Categ
2	S2RACAANY	s2racaany:w2 s receives any informal care for adls	Categ
2	R2RICAANY	r2ricaany:w2 r receives any informal care for iadls	Categ
2	S2RICAANY	s2ricaany:w2 s receives any informal care for iadls	Categ
1	R1RCAANY	r1rcaany:w1 r receives any informal care for adls/iadls	Categ
2	R2RCAANY	r2rcaany:w2 r receives any informal care for adls/iadls	Categ
3	R3RCAANY	r3rcaany:w3 r receives any informal care for adls/iadls	Categ
4	R4RCAANY	r4rcaany:w4 r receives any informal care for adls/iadls	Categ
1	S1RCAANY	s1rcaany:w1 s receives any informal care for adls/iadls	Categ
2	S2RCAANY	s2rcaany:w2 s receives any informal care for adls/iadls	Categ
3	S3RCAANY	s3rcaany:w3 s receives any informal care for adls/iadls	Categ
4	S4RCAANY	s4rcaany:w4 s receives any informal care for adls/iadls	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RACAANY	2971	0.32	0.47	0.00	1.00
S2RACAANY	2228	0.33	0.47	0.00	1.00
R2RICAANY	4808	0.75	0.44	0.00	1.00
S2RICAANY	3677	0.77	0.42	0.00	1.00
R1RCAANY	2597	0.85	0.35	0.00	1.00
R2RCAANY	5696	0.65	0.48	0.00	1.00
R3RCAANY	6628	0.61	0.49	0.00	1.00
R4RCAANY	6161	0.64	0.48	0.00	1.00
S1RCAANY	1970	0.86	0.34	0.00	1.00
S2RCAANY	4383	0.67	0.47	0.00	1.00
S3RCAANY	5093	0.62	0.49	0.00	1.00
S4RCAANY	4581	0.65	0.48	0.00	1.00

### Categorical Variable Codes

Value	R2RACAANY
.a:Healthy and young	114
.m:missing	257
.x:No difficulty	15270
0.No	2008
1.Yes	963

Value	S2RACAANY
.a:Healthy and young	104
.m:missing	131
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	13117
0.No	1498
1.Yes	730

Value	R2RICAANY
.m:missing	236
.x:No difficulty	13568



0.No			1226		
1.Yes			3582		
Value-----			S2RICAANY		
.m:missing			109		
.u:unmar			2401		
.v:sp nr			622		
.x:No difficulty			11794		
0.No			860		
1.Yes			2817		
Value-----	R1RCAANY	R2RCAANY	R3RCAANY	R4RCAANY	
.a:Healthy and young	3		1	1	
.d:dk	6				
.m:missing	217	234	173	93	
.x:No difficulty	14885	12682	14295	13561	
0.No	379	1970	2553	2214	
1.Yes	2218	3726	4075	3947	
Value-----	S1RCAANY	S2RCAANY	S3RCAANY	S4RCAANY	
.a:Healthy and young	1		1		
.d:dk	4				
.m:missing	110	107	58	21	
.u:unmar	2260	2401	2719	2926	
.v:sp nr	538	622	650	517	
.x:No difficulty	12825	11090	12572	11760	
0.No	267	1451	1940	1599	
1.Yes	1703	2932	3153	2982	

### How Constructed:

These variables include informal help. This includes the following: spouse, ex-spouse, mother, father, mother-in-law, father-in-law, children, spouse of children, grandchildren, sibling, sibling of spouse, brother-in-law, sister-in-law, other relative, other person.

RwRACAANY indicates whether the respondent receives informal help with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRACAANY is assigned 0 if the respondent does not report receiving informal help or receiving any help with any ADLs. RwRACAANY is assigned 1 if the respondent reports receiving informal help with at least one ADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRACAANY is only available in Wave 2.

RwRICAANY indicates whether the respondent receives informal help with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRICAANY is assigned 0 if the respondent does not report receiving informal help or receiving any help with any IADLs. RwRIFAANY is assigned 1 if the respondent reports receiving informal help with at least one IADL. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRICAANY is only available in Wave 2.

RwRCAANY indicates whether the respondent receives informal help with ADLs or IADLs. RwRCAANY is assigned 0 if the respondent does not report receiving informal help or receiving any help with any ADLs or IADLs. RwRCAANY is assigned 1 if the respondent reports receiving informal help any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRACAANY indicates whether the respondent's spouse receives informal help with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. SwRICAANY indicates whether the respondent's spouse receives informal help with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. SwRCAANY

indicates whether the respondent's spouse receives informal help with any ADLs or IADLs. SwRACAANY, SwRICAANY, and SwRCAANY are taken from the spouse's values to RWRACAANY, RWRICAANY, and RWRCAANY, respectively. In addition to the special missing values used in RWRACAANY, RWRICAANY, and RWRCAANY, SwRACAANY, SwRICAANY, and SwRCAANY employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

In Wave 1 and starting in Wave 3, the respondent is asked who provided help for difficulty with ADLs and IADLs together. Only in Wave 2 the respondent is asked who provided help for difficulty with ADLs and IADLs separately. As such, RWRCAANY is available in all waves, whereas RWRACAANY and RWRICAANY are only available in Wave 2.

There are significant differences in how these questions were asked across waves. Please see the codebook sections for RWRSCARE, RWRCCARE, RWRRCARE, and RWRFCARE for further explanation of these differences, as RWRCAANY is derived from these variables.

## Differences with the RAND HRS/Harmonized HRS

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

## CHARLS Variables Used:

### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties

DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_10_	How Many Days Did Children Help You LM
DB023_11_	How Many Days Did Children Help You LM
DB023_12_	How Many Days Did Children Help You LM
DB023_1_	How Many Days Did Spouse Help You LM
DB023_2_	How Many Days Did Mother Help You LM
DB023_31_	How Many Days Did Sibling Help You LM
DB023_32_	How Many Days Did Sibling of Spouse Help You LM
DB023_33_	How Many Days Did Brother-in-law,Sister in law Help You LM
DB023_34_	How Many Days Did Children's Spouse Help You LM
DB023_35_	How Many Days Did Grandchild Help You LM
DB023_36_	How Many Days Did Other Relative Help You LM
DB023_39_	How Many Days Did Other Help You LM
DB023_4_	How Many Days Did Mother-in-law Help You LM
DB023_5_	How Many Days Did Father-in-law Help You LM
DB023_6_	How Many Days Did Children Help You LM
DB023_7_	How Many Days Did Children Help You LM
DB023_8_	How Many Days Did Children Help You LM
DB023_9_	How Many Days Did Children Help You LM
DB024_10_	How Many Hours Per Day Did Children Help You LM
DB024_11_	How Many Hours Per Day Did Children Help You LM
DB024_12_	How Many Hours Per Day Did Children Help You LM
DB024_1_	How Many Hours Per Day Did Spouse Help You LM
DB024_2_	How Many Hours Per Day Did Mother Help You LM
DB024_31_	How Many Hours Per Day Did Sibling Help You LM
DB024_32_	How Many Hours Per Day Did Sibling of Spouse Help You LM
DB024_33_	How Many Hours Per Day Did Brother-in-law,Sister in law Help Yo
DB024_34_	How Many Hours Per Day Did Children's Spouse Help You LM
DB024_35_	How Many Hours Per Day Did Grandchild Help You LM
DB024_36_	How Many Hours Per Day Did Other Relative Help You LM
DB024_39_	How Many Hours Per Day Did Other Help You LM
DB024_4_	How Many Hours Per Day Did Mother-in-law Help You LM

DB024_5_	How Many Hours Per Day Did Father-in-law Help You LM
DB024_6_	How Many Hours Per Day Did Children Help You LM
DB024_7_	How Many Hours Per Day Did Children Help You LM
DB024_8_	How Many Hours Per Day Did Children Help You LM
DB024_9_	How Many Hours Per Day Did Children Help You LM
DB026_10_	Is Children Paid to Help You
DB026_11_	Is Children Paid to Help You
DB026_12_	Is Children Paid to Help You
DB026_1_	Is Spouse Paid to Help You
DB026_2_	Is Mother Paid to Help You
DB026_31_	Is Sibling Paid to Help You
DB026_32_	Is Sibling of Spouse Paid to Help You
DB026_33_	Is Brother-in-law,Sister in law Paid to Help You
DB026_34_	Is Children's Spouse Paid to Help You
DB026_35_	Is Grandchild Paid to Help You
DB026_36_	Is Other Relative Paid to Help You
DB026_39_	Is Other Paid to Help You
DB026_4_	Is Mother-in-law Paid to Help You
DB026_5_	Is Father-in-law Paid to Help You
DB026_6_	Is Children Paid to Help You
DB026_7_	Is Children Paid to Help You
DB026_8_	Is Children Paid to Help You
DB026_9_	Is Children Paid to Help You

## Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease

DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W2_1_1_S1	Who Help You Most with Dressing/Bathing etc.? Spouse
DB022_W2_1_1_S10	Who Help You Most with Dressing/Bathing etc.? FLChildName[4]
DB022_W2_1_1_S11	Who Help You Most with Dressing/Bathing etc.? FLChildName[5]
DB022_W2_1_1_S12	Who Help You Most with Dressing/Bathing etc.? FLChildName[6]
DB022_W2_1_1_S13	Who Help You Most with Dressing/Bathing etc.? FLChildName[7]
DB022_W2_1_1_S14	Who Help You Most with Dressing/Bathing etc.? FLChildName[8]
DB022_W2_1_1_S2	Who Help You Most with Dressing/Bathing etc.? Ex-Spouse
DB022_W2_1_1_S3	Who Help You Most with Dressing/Bathing etc.? Mother
DB022_W2_1_1_S32	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S33	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S34	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S35	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S36	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S37	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S38	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_1_S4	Who Help You Most with Dressing/Bathing etc.? Father
DB022_W2_1_1_S5	Who Help You Most with Dressing/Bathing etc.? Mother-in-Law
DB022_W2_1_1_S57	Who Help You Most with Dressing/Bathing etc.? Sibling
DB022_W2_1_1_S58	Who Help You Most with Dressing/Bathing etc.? Sibling of Spouse
DB022_W2_1_1_S59	Who Help You Most with Dressing/Bathing etc.? Brother-in-Law, S
DB022_W2_1_1_S6	Who Help You Most with Dressing/Bathing etc.? Father-in-Law
DB022_W2_1_1_S60	Who Help You Most with Dressing/Bathing etc.? Grandson
DB022_W2_1_1_S61	Who Help You Most with Dressing/Bathing etc.? Granddaughter
DB022_W2_1_1_S61	Who Help You Most with Dressing/Bathing etc.? Granddaughter
DB022_W2_1_1_S62	Who Help You Most with Dressing/Bathing etc.? Other Relative
DB022_W2_1_1_S66	Who Help You Most with Dressing/Bathing etc.? Other
DB022_W2_1_1_S7	Who Help You Most with Dressing/Bathing etc.? FLChildName[1]
DB022_W2_1_1_S8	Who Help You Most with Dressing/Bathing etc.? FLChildName[2]
DB022_W2_1_1_S9	Who Help You Most with Dressing/Bathing etc.? FLChildName[3]
DB022_W2_1_2_S1	Who Help You Most with Dressing/Bathing etc.? Spouse
DB022_W2_1_2_S10	Who Help You Most with Dressing/Bathing etc.? FLChildName[4]
DB022_W2_1_2_S11	Who Help You Most with Dressing/Bathing etc.? FLChildName[5]
DB022_W2_1_2_S12	Who Help You Most with Dressing/Bathing etc.? FLChildName[6]
DB022_W2_1_2_S13	Who Help You Most with Dressing/Bathing etc.? FLChildName[7]
DB022_W2_1_2_S14	Who Help You Most with Dressing/Bathing etc.? FLChildName[8]
DB022_W2_1_2_S2	Who Help You Most with Dressing/Bathing etc.? Ex-Spouse
DB022_W2_1_2_S3	Who Help You Most with Dressing/Bathing etc.? Mother
DB022_W2_1_2_S32	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S33	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S34	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S35	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S36	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S37	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S38	Who Help You Most with Dressing/Bathing etc.? FLChildNameSpouse
DB022_W2_1_2_S4	Who Help You Most with Dressing/Bathing etc.? Father
DB022_W2_1_2_S5	Who Help You Most with Dressing/Bathing etc.? Mother-in-Law
DB022_W2_1_2_S57	Who Help You Most with Dressing/Bathing etc.? Sibling
DB022_W2_1_2_S58	Who Help You Most with Dressing/Bathing etc.? Sibling of Spouse
DB022_W2_1_2_S59	Who Help You Most with Dressing/Bathing etc.? Brother-in-Law, S
DB022_W2_1_2_S6	Who Help You Most with Dressing/Bathing etc.? Father-in-Law

DB022_W2_1_2_S60	Who Help You Most with Dressing/Bathing etc.?	Grandson
DB022_W2_1_2_S61	Who Help You Most with Dressing/Bathing etc.?	Granddaughter
DB022_W2_1_2_S62	Who Help You Most with Dressing/Bathing etc.?	Other Relative
DB022_W2_1_2_S66	Who Help You Most with Dressing/Bathing etc.?	Other
DB022_W2_1_2_S7	Who Help You Most with Dressing/Bathing etc.?	FLChildName[1]
DB022_W2_1_2_S8	Who Help You Most with Dressing/Bathing etc.?	FLChildName[2]
DB022_W2_1_2_S9	Who Help You Most with Dressing/Bathing etc.?	FLChildName[3]
DB022_W2_1_3_S1	Who Help You Most with Dressing/Bathing etc.?	Spouse
DB022_W2_1_3_S10	Who Help You Most with Dressing/Bathing etc.?	FLChildName[4]
DB022_W2_1_3_S11	Who Help You Most with Dressing/Bathing etc.?	FLChildName[5]
DB022_W2_1_3_S12	Who Help You Most with Dressing/Bathing etc.?	FLChildName[6]
DB022_W2_1_3_S13	Who Help You Most with Dressing/Bathing etc.?	FLChildName[7]
DB022_W2_1_3_S14	Who Help You Most with Dressing/Bathing etc.?	FLChildName[8]
DB022_W2_1_3_S2	Who Help You Most with Dressing/Bathing etc.?	Ex-Spouse
DB022_W2_1_3_S3	Who Help You Most with Dressing/Bathing etc.?	Mother
DB022_W2_1_3_S32	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S33	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S34	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S35	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S36	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S37	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S38	Who Help You Most with Dressing/Bathing etc.?	FLChildNameSpouse
DB022_W2_1_3_S4	Who Help You Most with Dressing/Bathing etc.?	Father
DB022_W2_1_3_S5	Who Help You Most with Dressing/Bathing etc.?	Mother-in-Law
DB022_W2_1_3_S57	Who Help You Most with Dressing/Bathing etc.?	Sibling
DB022_W2_1_3_S58	Who Help You Most with Dressing/Bathing etc.?	Sibling of Spouse
DB022_W2_1_3_S59	Who Help You Most with Dressing/Bathing etc.?	Brother-in-Law, S
DB022_W2_1_3_S6	Who Help You Most with Dressing/Bathing etc.?	Father-in-Law
DB022_W2_1_3_S60	Who Help You Most with Dressing/Bathing etc.?	Grandson
DB022_W2_1_3_S61	Who Help You Most with Dressing/Bathing etc.?	Granddaughter
DB022_W2_1_3_S62	Who Help You Most with Dressing/Bathing etc.?	Other Relative
DB022_W2_1_3_S66	Who Help You Most with Dressing/Bathing etc.?	Other
DB022_W2_1_3_S7	Who Help You Most with Dressing/Bathing etc.?	FLChildName[1]
DB022_W2_1_3_S8	Who Help You Most with Dressing/Bathing etc.?	FLChildName[2]
DB022_W2_1_3_S9	Who Help You Most with Dressing/Bathing etc.?	FLChildName[3]
DB022_W2_5_1_S1	Who Help You Most with Shopping etc.?	Spouse
DB022_W2_5_1_S10	Who Help You Most with Shopping etc.?	FLChildName[4]
DB022_W2_5_1_S11	Who Help You Most with Shopping etc.?	FLChildName[5]
DB022_W2_5_1_S12	Who Help You Most with Shopping etc.?	FLChildName[6]
DB022_W2_5_1_S13	Who Help You Most with Shopping etc.?	FLChildName[7]
DB022_W2_5_1_S14	Who Help You Most with Shopping etc.?	FLChildName[8]
DB022_W2_5_1_S15	Who Help You Most with Shopping etc.?	FLChildName[9]
DB022_W2_5_1_S16	Who Help You Most with Shopping etc.?	FLChildName[10]
DB022_W2_5_1_S17	Who Help You Most with Shopping etc.?	FLChildName[11]
DB022_W2_5_1_S2	Who Help You Most with Shopping etc.?	Ex-Spouse
DB022_W2_5_1_S3	Who Help You Most with Shopping etc.?	Mother
DB022_W2_5_1_S32	Who Help You Most with Shopping etc.?	FLChildNameSpouse[1]
DB022_W2_5_1_S33	Who Help You Most with Shopping etc.?	FLChildNameSpouse[2]
DB022_W2_5_1_S34	Who Help You Most with Shopping etc.?	FLChildNameSpouse[3]
DB022_W2_5_1_S35	Who Help You Most with Shopping etc.?	FLChildNameSpouse[4]
DB022_W2_5_1_S36	Who Help You Most with Shopping etc.?	FLChildNameSpouse[5]
DB022_W2_5_1_S37	Who Help You Most with Shopping etc.?	FLChildNameSpouse[6]
DB022_W2_5_1_S38	Who Help You Most with Shopping etc.?	FLChildNameSpouse[7]
DB022_W2_5_1_S39	Who Help You Most with Shopping etc.?	FLChildNameSpouse[8]
DB022_W2_5_1_S4	Who Help You Most with Shopping etc.?	Father
DB022_W2_5_1_S40	Who Help You Most with Shopping etc.?	FLChildNameSpouse[9]
DB022_W2_5_1_S41	Who Help You Most with Shopping etc.?	FLChildNameSpouse[10]
DB022_W2_5_1_S42	Who Help You Most with Shopping etc.?	FLChildNameSpouse[11]
DB022_W2_5_1_S5	Who Help You Most with Shopping etc.?	Mother-in-Law
DB022_W2_5_1_S57	Who Help You Most with Shopping etc.?	Sibling
DB022_W2_5_1_S58	Who Help You Most with Shopping etc.?	Sibling of Spouse
DB022_W2_5_1_S59	Who Help You Most with Shopping etc.?	Brother-in-Law, Sister-in
DB022_W2_5_1_S6	Who Help You Most with Shopping etc.?	Father-in-Law
DB022_W2_5_1_S60	Who Help You Most with Shopping etc.?	Grandson
DB022_W2_5_1_S61	Who Help You Most with Shopping etc.?	Granddaughter
DB022_W2_5_1_S62	Who Help You Most with Shopping etc.?	Other Relative
DB022_W2_5_1_S66	Who Help You Most with Shopping etc.?	Other
DB022_W2_5_1_S7	Who Help You Most with Shopping etc.?	FLChildName[1]
DB022_W2_5_1_S8	Who Help You Most with Shopping etc.?	FLChildName[2]







DB022_w2_5_5_S7	Who Help You Most with Shopping etc.?	FLChildName[1]
DB022_w2_5_5_S8	Who Help You Most with Shopping etc.?	FLChildName[2]
DB022_w2_5_5_S9	Who Help You Most with Shopping etc.?	FLChildName[3]
DB022_w2_9_1_S1	Who Help You Manage Your Money?	Spouse
DB022_w2_9_1_S10	Who Help You Manage Your Money?	FLChildName[4]
DB022_w2_9_1_S11	Who Help You Manage Your Money?	FLChildName[5]
DB022_w2_9_1_S12	Who Help You Manage Your Money?	FLChildName[6]
DB022_w2_9_1_S13	Who Help You Manage Your Money?	FLChildName[7]
DB022_w2_9_1_S14	Who Help You Manage Your Money?	FLChildName[8]
DB022_w2_9_1_S15	Who Help You Manage Your Money?	FLChildName[9]
DB022_w2_9_1_S16	Who Help You Manage Your Money?	FLChildName[10]
DB022_w2_9_1_S17	Who Help You Manage Your Money?	FLChildName[11]
DB022_w2_9_1_S2	Who Help You Manage Your Money?	Ex-Spouse
DB022_w2_9_1_S3	Who Help You Manage Your Money?	Mother
DB022_w2_9_1_S32	Who Help You Manage Your Money?	FLChildNameSpouse[1]
DB022_w2_9_1_S33	Who Help You Manage Your Money?	FLChildNameSpouse[2]
DB022_w2_9_1_S34	Who Help You Manage Your Money?	FLChildNameSpouse[3]
DB022_w2_9_1_S35	Who Help You Manage Your Money?	FLChildNameSpouse[4]
DB022_w2_9_1_S36	Who Help You Manage Your Money?	FLChildNameSpouse[5]
DB022_w2_9_1_S37	Who Help You Manage Your Money?	FLChildNameSpouse[6]
DB022_w2_9_1_S38	Who Help You Manage Your Money?	FLChildNameSpouse[7]
DB022_w2_9_1_S4	Who Help You Manage Your Money?	Father
DB022_w2_9_1_S5	Who Help You Manage Your Money?	Mother-in-Law
DB022_w2_9_1_S57	Who Help You Manage Your Money?	Sibling
DB022_w2_9_1_S58	Who Help You Manage Your Money?	Sibling of Spouse
DB022_w2_9_1_S59	Who Help You Manage Your Money?	Brother-in-Law, Sister-in-Law
DB022_w2_9_1_S6	Who Help You Manage Your Money?	Father-in-Law
DB022_w2_9_1_S60	Who Help You Manage Your Money?	Grandson
DB022_w2_9_1_S61	Who Help You Manage Your Money?	Granddaughter
DB022_w2_9_1_S62	Who Help You Manage Your Money?	Other Relative
DB022_w2_9_1_S66	Who Help You Manage Your Money?	Other
DB022_w2_9_1_S7	Who Help You Manage Your Money?	FLChildName[1]
DB022_w2_9_1_S8	Who Help You Manage Your Money?	FLChildName[2]
DB022_w2_9_1_S9	Who Help You Manage Your Money?	FLChildName[3]
DB022_w2_9_2_S1	Who Help You Manage Your Money?	Spouse
DB022_w2_9_2_S10	Who Help You Manage Your Money?	FLChildName[4]
DB022_w2_9_2_S11	Who Help You Manage Your Money?	FLChildName[5]
DB022_w2_9_2_S12	Who Help You Manage Your Money?	FLChildName[6]
DB022_w2_9_2_S13	Who Help You Manage Your Money?	FLChildName[7]
DB022_w2_9_2_S14	Who Help You Manage Your Money?	FLChildName[8]
DB022_w2_9_2_S15	Who Help You Manage Your Money?	FLChildName[9]
DB022_w2_9_2_S16	Who Help You Manage Your Money?	FLChildName[10]
DB022_w2_9_2_S17	Who Help You Manage Your Money?	FLChildName[11]
DB022_w2_9_2_S2	Who Help You Manage Your Money?	Ex-Spouse
DB022_w2_9_2_S3	Who Help You Manage Your Money?	Mother
DB022_w2_9_2_S32	Who Help You Manage Your Money?	FLChildNameSpouse[1]
DB022_w2_9_2_S33	Who Help You Manage Your Money?	FLChildNameSpouse[2]
DB022_w2_9_2_S34	Who Help You Manage Your Money?	FLChildNameSpouse[3]
DB022_w2_9_2_S35	Who Help You Manage Your Money?	FLChildNameSpouse[4]
DB022_w2_9_2_S36	Who Help You Manage Your Money?	FLChildNameSpouse[5]
DB022_w2_9_2_S37	Who Help You Manage Your Money?	FLChildNameSpouse[6]
DB022_w2_9_2_S38	Who Help You Manage Your Money?	FLChildNameSpouse[7]
DB022_w2_9_2_S4	Who Help You Manage Your Money?	Father
DB022_w2_9_2_S5	Who Help You Manage Your Money?	Mother-in-Law
DB022_w2_9_2_S57	Who Help You Manage Your Money?	Sibling
DB022_w2_9_2_S58	Who Help You Manage Your Money?	Sibling of Spouse
DB022_w2_9_2_S59	Who Help You Manage Your Money?	Brother-in-Law, Sister-in-Law
DB022_w2_9_2_S6	Who Help You Manage Your Money?	Father-in-Law
DB022_w2_9_2_S60	Who Help You Manage Your Money?	Grandson
DB022_w2_9_2_S61	Who Help You Manage Your Money?	Granddaughter
DB022_w2_9_2_S62	Who Help You Manage Your Money?	Other Relative
DB022_w2_9_2_S66	Who Help You Manage Your Money?	Other
DB022_w2_9_2_S7	Who Help You Manage Your Money?	FLChildName[1]
DB022_w2_9_2_S8	Who Help You Manage Your Money?	FLChildName[2]
DB022_w2_9_2_S9	Who Help You Manage Your Money?	FLChildName[3]
DB023_11_	The Number of Days	
DB023_1_	The Number of Days	
DB023_26_	The Number of Days	
DB023_27_	The Number of Days	

---

DB023_28_	The Number of Days
DB023_29_	The Number of Days
DB023_2_	The Number of Days
DB023_30_	The Number of Days
DB023_31_	The Number of Days
DB023_32_	The Number of Days
DB023_33_	The Number of Days
DB023_36_	The Number of Days
DB023_3_	The Number of Days
DB023_48_	The Number of Days
DB023_4_	The Number of Days
DB023_51_	The Number of Days
DB023_5_	The Number of Days
DB023_6_	The Number of Days
DB023_7_	The Number of Days
DB023_8_	The Number of Days
DB023_9_	The Number of Days
DB024_11_	The Number of Hours
DB024_1_	The Number of Hours
DB024_26_	The Number of Hours
DB024_27_	The Number of Hours
DB024_28_	The Number of Hours
DB024_29_	The Number of Hours
DB024_2_	The Number of Hours
DB024_30_	The Number of Hours
DB024_31_	The Number of Hours
DB024_32_	The Number of Hours
DB024_33_	The Number of Hours
DB024_36_	The Number of Hours
DB024_3_	The Number of Hours
DB024_4_	The Number of Hours
DB024_51_	The Number of Hours
DB024_5_	The Number of Hours
DB024_6_	The Number of Hours
DB024_7_	The Number of Hours
DB024_8_	The Number of Hours
DB024_9_	The Number of Hours
DB026_11_	Paid to Help You
DB026_14_	Paid to Help You
DB026_16_	Paid to Help You
DB026_19_	Paid to Help You
DB026_1_	Paid to Help You
DB026_21_	Paid to Help You
DB026_22_	Paid to Help You
DB026_23_	Paid to Help You
DB026_24_	Paid to Help You
DB026_25_	Paid to Help You
DB026_26_	Paid to Help You
DB026_27_	Paid to Help You
DB026_28_	Paid to Help You
DB026_29_	Paid to Help You
DB026_2_	Paid to Help You
DB026_30_	Paid to Help You
DB026_31_	Paid to Help You
DB026_32_	Paid to Help You
DB026_33_	Paid to Help You
DB026_34_	Paid to Help You
DB026_35_	Paid to Help You
DB026_36_	Paid to Help You
DB026_37_	Paid to Help You
DB026_39_	Paid to Help You
DB026_3_	Paid to Help You
DB026_40_	Paid to Help You
DB026_41_	Paid to Help You
DB026_43_	Paid to Help You
DB026_44_	Paid to Help You
DB026_45_	Paid to Help You
DB026_46_	Paid to Help You
DB026_49_	Paid to Help You

DB026_4_	Paid to Help You
DB026_50_	Paid to Help You
DB026_51_	Paid to Help You
DB026_5_	Paid to Help You
DB026_6_	Paid to Help You
DB026_7_	Paid to Help You
DB026_8_	Paid to Help You
DB026_9_	Paid to Help You
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease

DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W3_1S1	Who Help You Most
DB022_W3_1S10	Who Help You Most
DB022_W3_1S2	Who Help You Most
DB022_W3_1S3	Who Help You Most
DB022_W3_1S4	Who Help You Most
DB022_W3_1S5	Who Help You Most
DB022_W3_1S6	Who Help You Most
DB022_W3_1S7	Who Help You Most
DB022_W3_1S8	Who Help You Most
DB022_W3_1S9	Who Help You Most
DB023_10_	The Number of Days
DB023_11_	The Number of Days
DB023_12_	The Number of Days
DB023_13_	The Number of Days
DB023_14_	The Number of Days
DB023_15_	The Number of Days
DB023_16_	The Number of Days
DB023_17_	The Number of Days
DB023_18_	The Number of Days
DB023_19_	The Number of Days
DB023_1_	The Number of Days
DB023_20_	The Number of Days
DB023_21_	The Number of Days
DB023_22_	The Number of Days
DB023_24_	The Number of Days
DB023_25_	The Number of Days
DB023_2_	The Number of Days
DB023_3_	The Number of Days
DB023_3_	The Number of Days
DB023_4_	The Number of Days
DB023_5_	The Number of Days
DB023_6_	The Number of Days
DB023_7_	The Number of Days
DB023_8_	The Number of Days
DB023_9_	The Number of Days
DB023_W3_1S1	Who Help You Most
DB023_W3_1S2	Who Help You Most
DB023_W3_1S3	Who Help You Most
DB023_W3_1S4	Who Help You Most
DB023_W3_3_10_S1	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_10_S2	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_10_S3	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_11_S1	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_11_S2	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_11_S3	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_12_S1	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_12_S2	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_12_S3	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_1_10_	Number of Helpers (Grandson, Granddaughter)
DB023_W3_3_1_11_	Number of Helpers (Grandson, Granddaughter)
DB023_W3_3_1_1_	Number of Helpers (Grandson, Granddaughter)
DB023_W3_3_1_2_	Number of Helpers (Grandson, Granddaughter)





DB024_4_	The Number of Hours
DB024_5_	The Number of Hours
DB024_6_	The Number of Hours
DB024_7_	The Number of Hours
DB024_8_	The Number of Hours
DB024_9_	The Number of Hours
DB026_10_	Paid to Help You
DB026_11_	Paid to Help You
DB026_12_	Paid to Help You
DB026_13_	Paid to Help You
DB026_14_	Paid to Help You
DB026_15_	Paid to Help You
DB026_16_	Paid to Help You
DB026_17_	Paid to Help You
DB026_18_	Paid to Help You
DB026_19_	Paid to Help You
DB026_1_	Paid to Help You
DB026_20_	Paid to Help You
DB026_21_	Paid to Help You
DB026_22_	Paid to Help You
DB026_24_	Paid to Help You
DB026_25_	Paid to Help You
DB026_2_	Paid to Help You
DB026_3_	Paid to Help You
DB026_4_	Paid to Help You
DB026_5_	Paid to Help You
DB026_6_	Paid to Help You
DB026_7_	Paid to Help You
DB026_8_	Paid to Help You
DB026_9_	Paid to Help You
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease

DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB022_W3_1_S1	Helper[1]
DB022_W3_1_S10	Helper[10]
DB022_W3_1_S2	Helper[2]
DB022_W3_1_S3	Helper[3]
DB022_W3_1_S4	Helper[4]
DB022_W3_1_S5	Helper[5]
DB022_W3_1_S6	Helper[6]
DB022_W3_1_S7	Helper[7]
DB022_W3_1_S8	Helper[8]
DB022_W3_1_S9	Helper[9]
DB023_10_	Days Helper[10] Helped
DB023_11_	Days Helper[11] Helped
DB023_12_	Days Helper[12] Helped
DB023_13_	Days Helper[13] Helped
DB023_14_	Days Helper[14] Helped
DB023_15_	Days Helper[15] Helped
DB023_16_	Days Helper[16] Helped
DB023_17_	Days Helper[17] Helped
DB023_18_	Days Helper[18] Helped
DB023_19_	Days Helper[19] Helped
DB023_1_	Days Helper[1] Helped
DB023_20_	Days Helper[20] Helped
DB023_21_	Days Helper[21] Helped
DB023_22_	Days Helper[22] Helped
DB023_23_	Days Helper[23] Helped
DB023_24_	Days Helper[24] Helped
DB023_25_	Days Helper[25] Helped
DB023_26_	Days Helper[26] Helped
DB023_27_	Days Helper[27] Helped
DB023_28_	Days Helper[28] Helped
DB023_29_	Days Helper[29] Helped
DB023_2_	Days Helper[2] Helped
DB023_30_	Days Helper[30] Helped
DB023_31_	Days Helper[31] Helped
DB023_32_	Days Helper[32] Helped
DB023_33_	Days Helper[33] Helped
DB023_34_	Days Helper[34] Helped
DB023_3_	Days Helper[3] Helped
DB023_4_	Days Helper[4] Helped
DB023_5_	Days Helper[5] Helped
DB023_6_	Days Helper[6] Helped
DB023_7_	Days Helper[7] Helped
DB023_8_	Days Helper[8] Helped
DB023_9_	Days Helper[9] Helped
DB023_W3_1_S1	Who Help the Most
DB023_W3_1_S2	Who Help the Most
DB023_W3_1_S3	Who Help the Most
DB023_W3_1_S4	Who Help the Most
DB023_W3_3_10__S1	Who in Child[10]'s Family Helped
DB023_W3_3_10__S2	Who in Child[10]'s Family Helped
DB023_W3_3_10__S3	Who in Child[10]'s Family Helped
DB023_W3_3_11__S1	Who in Child[11]'s Family Helped
DB023_W3_3_11__S2	Who in Child[11]'s Family Helped
DB023_W3_3_11__S3	Who in Child[11]'s Family Helped
DB023_W3_3_1_1_	Number of Children Helped
DB023_W3_3_1_2_	Number of Children Helped
DB023_W3_3_1_3_	Number of Children Helped
DB023_W3_3_1_4_	Number of Children Helped



DB023_W3_3_1_5_	Number of Children Helped
DB023_W3_3_1_6_	Number of Children Helped
DB023_W3_3_1_7_	Number of Children Helped
DB023_W3_3_1_8_	Number of Children Helped
DB023_W3_3_1_S1	Who in Child[1]'s Family Helped
DB023_W3_3_1_S2	Who in Child[1]'s Family Helped
DB023_W3_3_1_S3	Who in Child[1]'s Family Helped
DB023_W3_3_2_S1	Who in Child[2]'s Family Helped
DB023_W3_3_2_S2	Who in Child[2]'s Family Helped
DB023_W3_3_2_S3	Who in Child[2]'s Family Helped
DB023_W3_3_3_S1	Who in Child[3]'s Family Helped
DB023_W3_3_3_S2	Who in Child[3]'s Family Helped
DB023_W3_3_3_S3	Who in Child[3]'s Family Helped
DB023_W3_3_4_S1	Who in Child[4]'s Family Helped
DB023_W3_3_4_S2	Who in Child[4]'s Family Helped
DB023_W3_3_4_S3	Who in Child[4]'s Family Helped
DB023_W3_3_5_S1	Who in Child[5]'s Family Helped
DB023_W3_3_5_S2	Who in Child[5]'s Family Helped
DB023_W3_3_5_S3	Who in Child[5]'s Family Helped
DB023_W3_3_6_S1	Who in Child[6]'s Family Helped
DB023_W3_3_6_S2	Who in Child[6]'s Family Helped
DB023_W3_3_6_S3	Who in Child[6]'s Family Helped
DB023_W3_3_7_S1	Who in Child[7]'s Family Helped
DB023_W3_3_7_S2	Who in Child[7]'s Family Helped
DB023_W3_3_7_S3	Who in Child[7]'s Family Helped
DB023_W3_3_8_S1	Who in Child[8]'s Family Helped
DB023_W3_3_8_S2	Who in Child[8]'s Family Helped
DB023_W3_3_8_S3	Who in Child[8]'s Family Helped
DB023_W3_3_9_S1	Who in Child[9]'s Family Helped
DB023_W3_3_9_S2	Who in Child[9]'s Family Helped
DB023_W3_3_9_S3	Who in Child[9]'s Family Helped
DB023_W3_5_16_S1	Who Help in Person from Sibling[16]'s Family
DB023_W3_5_16_S2	Who Help in Person from Sibling[16]'s Family
DB023_W3_5_16_S3	Who Help in Person from Sibling[16]'s Family
DB023_W3_5_17_S1	Who Help in Person from Sibling[17]'s Family
DB023_W3_5_17_S2	Who Help in Person from Sibling[17]'s Family
DB023_W3_5_17_S3	Who Help in Person from Sibling[17]'s Family
DB023_W3_5_18_S1	Who Help in Person from Sibling[18]'s Family
DB023_W3_5_18_S2	Who Help in Person from Sibling[18]'s Family
DB023_W3_5_18_S3	Who Help in Person from Sibling[18]'s Family
DB023_W3_5_19_S1	Who Help in Person from Sibling[19]'s Family
DB023_W3_5_19_S2	Who Help in Person from Sibling[19]'s Family
DB023_W3_5_19_S3	Who Help in Person from Sibling[19]'s Family
DB023_W3_5_1_16_	Number of Children Help
DB023_W3_5_1_17_	Number of Children Help
DB023_W3_5_1_18_	Number of Children Help
DB023_W3_5_1_19_	Number of Children Help
DB023_W3_5_1_1_	Number of Children Help
DB023_W3_5_1_20_	Number of Children Help
DB023_W3_5_1_21_	Number of Children Help
DB023_W3_5_1_22_	Number of Children Help
DB023_W3_5_1_2_	Number of Children Help
DB023_W3_5_1_3_	Number of Children Help
DB023_W3_5_1_4_	Number of Children Help
DB023_W3_5_1_5_	Number of Children Help
DB023_W3_5_1_6_	Number of Children Help
DB023_W3_5_1_7_	Number of Children Help
DB023_W3_5_1_S1	Who Help in Person from Sibling[1]'s Family
DB023_W3_5_1_S2	Who Help in Person from Sibling[1]'s Family
DB023_W3_5_1_S3	Who Help in Person from Sibling[1]'s Family
DB023_W3_5_20_S1	Who Help in Person from Sibling[20]'s Family
DB023_W3_5_20_S2	Who Help in Person from Sibling[20]'s Family
DB023_W3_5_20_S3	Who Help in Person from Sibling[20]'s Family
DB023_W3_5_21_S1	Who Help in Person from Sibling[21]'s Family
DB023_W3_5_21_S2	Who Help in Person from Sibling[21]'s Family
DB023_W3_5_21_S3	Who Help in Person from Sibling[21]'s Family
DB023_W3_5_22_S1	Who Help in Person from Sibling[22]'s Family
DB023_W3_5_22_S2	Who Help in Person from Sibling[22]'s Family
DB023_W3_5_22_S3	Who Help in Person from Sibling[22]'s Family

DB023\_W3\_5\_23\_\_S1 Who Help in Person from Sibling[23]'s Family  
DB023\_W3\_5\_23\_\_S2 Who Help in Person from Sibling[23]'s Family  
DB023\_W3\_5\_23\_\_S3 Who Help in Person from Sibling[23]'s Family  
DB023\_W3\_5\_2\_\_S1 Who Help in Person from Sibling[2]'s Family  
DB023\_W3\_5\_2\_\_S2 Who Help in Person from Sibling[2]'s Family  
DB023\_W3\_5\_2\_\_S3 Who Help in Person from Sibling[2]'s Family  
DB023\_W3\_5\_3\_\_S1 Who Help in Person from Sibling[3]'s Family  
DB023\_W3\_5\_3\_\_S2 Who Help in Person from Sibling[3]'s Family  
DB023\_W3\_5\_3\_\_S3 Who Help in Person from Sibling[3]'s Family  
DB023\_W3\_5\_4\_\_S1 Who Help in Person from Sibling[4]'s Family  
DB023\_W3\_5\_4\_\_S2 Who Help in Person from Sibling[4]'s Family  
DB023\_W3\_5\_4\_\_S3 Who Help in Person from Sibling[4]'s Family  
DB023\_W3\_5\_5\_\_S1 Who Help in Person from Sibling[5]'s Family  
DB023\_W3\_5\_5\_\_S2 Who Help in Person from Sibling[5]'s Family  
DB023\_W3\_5\_5\_\_S3 Who Help in Person from Sibling[5]'s Family  
DB023\_W3\_5\_6\_\_S1 Who Help in Person from Sibling[6]'s Family  
DB023\_W3\_5\_6\_\_S2 Who Help in Person from Sibling[6]'s Family  
DB023\_W3\_5\_6\_\_S3 Who Help in Person from Sibling[6]'s Family  
DB023\_W3\_5\_7\_\_S1 Who Help in Person from Sibling[7]'s Family  
DB023\_W3\_5\_7\_\_S2 Who Help in Person from Sibling[7]'s Family  
DB023\_W3\_5\_7\_\_S3 Who Help in Person from Sibling[7]'s Family  
DB023\_W3\_5\_8\_\_S1 Who Help in Person from Sibling[8]'s Family  
DB023\_W3\_5\_8\_\_S2 Who Help in Person from Sibling[8]'s Family  
DB023\_W3\_5\_8\_\_S3 Who Help in Person from Sibling[8]'s Family  
DB023\_W3\_5\_9\_\_S1 Who Help in Person from Sibling[9]'s Family  
DB023\_W3\_5\_9\_\_S2 Who Help in Person from Sibling[9]'s Family  
DB023\_W3\_5\_9\_\_S3 Who Help in Person from Sibling[9]'s Family  
DB023\_W3\_6 Number of Relatives Help in Person  
DB023\_W3\_7 Number of Others Who Help in Person  
DB023\_W3\_9\_S1 Most Important 7 Helpers  
DB023\_W3\_9\_S10 Most Important 7 Helpers  
DB023\_W3\_9\_S11 Most Important 7 Helpers  
DB023\_W3\_9\_S12 Most Important 7 Helpers  
DB023\_W3\_9\_S13 Most Important 7 Helpers  
DB023\_W3\_9\_S14 Most Important 7 Helpers  
DB023\_W3\_9\_S15 Most Important 7 Helpers  
DB023\_W3\_9\_S16 Most Important 7 Helpers  
DB023\_W3\_9\_S17 Most Important 7 Helpers  
DB023\_W3\_9\_S18 Most Important 7 Helpers  
DB023\_W3\_9\_S19 Most Important 7 Helpers  
DB023\_W3\_9\_S2 Most Important 7 Helpers  
DB023\_W3\_9\_S20 Most Important 7 Helpers  
DB023\_W3\_9\_S21 Most Important 7 Helpers  
DB023\_W3\_9\_S22 Most Important 7 Helpers  
DB023\_W3\_9\_S23 Most Important 7 Helpers  
DB023\_W3\_9\_S24 Most Important 7 Helpers  
DB023\_W3\_9\_S25 Most Important 7 Helpers  
DB023\_W3\_9\_S26 Most Important 7 Helpers  
DB023\_W3\_9\_S27 Most Important 7 Helpers  
DB023\_W3\_9\_S28 Most Important 7 Helpers  
DB023\_W3\_9\_S29 Most Important 7 Helpers  
DB023\_W3\_9\_S3 Most Important 7 Helpers  
DB023\_W3\_9\_S30 Most Important 7 Helpers  
DB023\_W3\_9\_S31 Most Important 7 Helpers  
DB023\_W3\_9\_S32 Most Important 7 Helpers  
DB023\_W3\_9\_S33 Most Important 7 Helpers  
DB023\_W3\_9\_S34 Most Important 7 Helpers  
DB023\_W3\_9\_S4 Most Important 7 Helpers  
DB023\_W3\_9\_S5 Most Important 7 Helpers  
DB023\_W3\_9\_S6 Most Important 7 Helpers  
DB023\_W3\_9\_S7 Most Important 7 Helpers  
DB023\_W3\_9\_S8 Most Important 7 Helpers  
DB023\_W3\_9\_S9 Most Important 7 Helpers  
DB024\_10\_ Hours Helper[10] Helped  
DB024\_11\_ Hours Helper[11] Helped  
DB024\_12\_ Hours Helper[12] Helped  
DB024\_13\_ Hours Helper[13] Helped  
DB024\_14\_ Hours Helper[14] Helped  
DB024\_15\_ Hours Helper[15] Helped

---

DB024_16_	Hours Helper[16] Helped
DB024_17_	Hours Helper[17] Helped
DB024_18_	Hours Helper[18] Helped
DB024_19_	Hours Helper[19] Helped
DB024_1_	Hours Helper[1] Helped
DB024_20_	Hours Helper[20] Helped
DB024_21_	Hours Helper[21] Helped
DB024_22_	Hours Helper[22] Helped
DB024_23_	Hours Helper[23] Helped
DB024_24_	Hours Helper[24] Helped
DB024_25_	Hours Helper[25] Helped
DB024_26_	Hours Helper[26] Helped
DB024_27_	Hours Helper[27] Helped
DB024_28_	Hours Helper[28] Helped
DB024_29_	Hours Helper[29] Helped
DB024_2_	Hours Helper[2] Helped
DB024_30_	Hours Helper[30] Helped
DB024_31_	Hours Helper[31] Helped
DB024_32_	Hours Helper[32] Helped
DB024_33_	Hours Helper[33] Helped
DB024_34_	Hours Helper[34] Helped
DB024_3_	Hours Helper[3] Helped
DB024_4_	Hours Helper[4] Helped
DB024_5_	Hours Helper[5] Helped
DB024_6_	Hours Helper[6] Helped
DB024_7_	Hours Helper[7] Helped
DB024_8_	Hours Helper[8] Helped
DB024_9_	Hours Helper[9] Helped
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Receives Informal Caregiving from Spouse</b>
---

Wave	Variable	Label	Type
2	R2RASCARE	r2rascare:w2 r receives informal care from spouse for adls	Categ
2	S2RASCARE	s2rascare:w2 s receives informal care from spouse for adls	Categ
2	R2RISCARE	r2riscare:w2 r receives informal care from spouse for iadls	Categ
2	S2RISCARE	s2riscare:w2 s receives informal care from spouse for iadls	Categ
1	R1RSCARE	r1rscare:w1 r receives informal care from spouse for adls/ia	Categ
2	R2RSCARE	r2rscare:w2 r receives informal care from spouse for adls/ia	Categ
3	R3RSCARE	r3rscare:w3 r receives informal care from spouse for adls/ia	Categ
4	R4RSCARE	r4rscare:w4 r receives informal care from spouse for adls/ia	Categ
1	S1RSCARE	s1rscare:w1 s receives informal care from spouse for adls/ia	Categ
2	S2RSCARE	s2rscare:w2 s receives informal care from spouse for adls/ia	Categ
3	S3RSCARE	s3rscare:w3 s receives informal care from spouse for adls/ia	Categ
4	S4RSCARE	s4rscare:w4 s receives informal care from spouse for adls/ia	Categ
2	R2RASCAREN	r2rascaren:w2 number of spouse/ex-spouse who help r with adl	Cont
2	S2RASCAREN	s2rascaren:w2 number of spouse/ex-spouse who help s with adl	Cont
2	R2RISCAREN	r2riscaren:w2 number of spouse/ex-spouse who help r with iad	Cont
2	S2RISCAREN	s2riscaren:w2 number of spouse/ex-spouse who help s with iad	Cont
2	R2RSCAREN	r2rscaren:w2 number of spouse/ex-spouse who help r with adls	Cont
2	S2RSCAREN	s2rscaren:w2 number of spouse/ex-spouse who help s with adls	Cont
1	R1RSCAREDPM	r1rscaredpm:w1 r days/month receives care from spouse for ad	Cont
3	R3RSCAREDPM	r3rscaredpm:w3 r days/month receives care from spouse for ad	Cont
4	R4RSCAREDPM	r4rscaredpm:w4 r days/month receives care from spouse for ad	Cont
1	S1RSCAREDPM	s1rscaredpm:w1 s days/month receives care from spouse for ad	Cont
3	S3RSCAREDPM	s3rscaredpm:w3 s days/month receives care from spouse for ad	Cont
4	S4RSCAREDPM	s4rscaredpm:w4 s days/month receives care from spouse for ad	Cont
1	R1RSCAREHR	r1rscarehr:w1 r hours/day receives care from spouse for adls	Cont
3	R3RSCAREHR	r3rscarehr:w3 r hours/day receives care from spouse for adls	Cont
4	R4RSCAREHR	r4rscarehr:w4 r hours/day receives care from spouse for adls	Cont
1	S1RSCAREHR	s1rscarehr:w1 s hours/day receives care from spouse for adls	Cont
3	S3RSCAREHR	s3rscarehr:w3 s hours/day receives care from spouse for adls	Cont
4	S4RSCAREHR	s4rscarehr:w4 s hours/day receives care from spouse for adls	Cont
1	R1RSCAREPD	r1rscarepd:w1 r whether spouse is paid for care for adls/iad	Categ
3	R3RSCAREPD	r3rscarepd:w3 r whether spouse is paid for care for adls/iad	Categ
1	S1RSCAREPD	s1rscarepd:w1 s whether spouse is paid for care for adls/iad	Categ
3	S3RSCAREPD	s3rscarepd:w3 s whether spouse is paid for care for adls/iad	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RASCARE	972	0.65	0.48	0.00	1.00
S2RASCARE	733	0.85	0.36	0.00	1.00
R2RISCARE	3601	0.66	0.47	0.00	1.00
S2RISCARE	2824	0.83	0.37	0.00	1.00

R1RSCARE	2230	0.67	0.47	0.00	1.00
R2RSCARE	3741	0.67	0.47	0.00	1.00
R3RSCARE	4167	0.62	0.48	0.00	1.00
R4RSCARE	3989	0.60	0.49	0.00	1.00
S1RSCARE	1712	0.85	0.36	0.00	1.00
S2RSCARE	2935	0.84	0.37	0.00	1.00
S3RSCARE	3219	0.79	0.40	0.00	1.00
S4RSCARE	2997	0.79	0.41	0.00	1.00
R2RASCAREN	972	0.65	0.48	0.00	1.00
S2RASCAREN	733	0.85	0.36	0.00	1.00
R2RISCAREN	3601	0.66	0.47	0.00	1.00
S2RISCAREN	2824	0.83	0.37	0.00	1.00
R2RSCAREN	3741	0.67	0.47	0.00	1.00
S2RSCAREN	2935	0.84	0.37	0.00	1.00
R1RSCAREDPM	2187	15.81	14.08	0.00	31.00
R3RSCAREDPM	4029	14.47	14.39	0.00	31.00
R4RSCAREDPM	3971	14.10	14.42	0.00	31.00
S1RSCAREDPM	1670	20.28	12.79	0.00	31.00
S3RSCAREDPM	3085	18.70	13.76	0.00	31.00
S4RSCAREDPM	2979	18.67	13.78	0.00	31.00
R1RSCAREHR	2155	3.40	5.55	0.00	24.00
R3RSCAREHR	3898	3.03	5.89	0.00	24.00
R4RSCAREHR	3971	2.90	5.81	0.00	24.00
S1RSCAREHR	1639	4.38	5.96	0.00	24.00
S3RSCAREHR	2957	3.94	6.46	0.00	24.00
S4RSCAREHR	2979	3.84	6.40	0.00	24.00
R1RSCAREPD	2221	0.00	0.05	0.00	1.00
R3RSCAREPD	4139	0.01	0.07	0.00	1.00
S1RSCAREPD	1704	0.00	0.06	0.00	1.00
S3RSCAREPD	3193	0.01	0.08	0.00	1.00

**Categorical Variable Codes**

Value-----	R2RASCARE
.a:Healthy and young	114
.h:No help received	1990
.m:missing	257
.x:No difficulty	15279
0.No	344
1.Yes	628

Value-----	S2RASCARE
.a:Healthy and young	104
.h:No help received	1490
.m:missing	131
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	13122
0.No	110
1.Yes	623

Value-----	R2RISCARE
.h:No help received	1184

.m:missing					236
.x:No difficulty					13591
0.No					1219
1.Yes					2382
Value-----					S2RISCARE
.h:No help received					841
.m:missing					109
.u:unmar					2401
.v:sp nr					622
.x:No difficulty					11806
0.No					467
1.Yes					2357
Value-----					
.a:Healthy and young	R1RSCARE	R2RSCARE	R3RSCARE	R4RSCARE	
.d:dk	3		1	1	
.h:No help received	6				
.m:missing	367	1932	2437	2172	
.x:No difficulty	217	234	186	93	
0.No	14885	12705	14306	13561	
1.Yes	742	1250	1570	1596	
	1488	2491	2597	2393	
Value-----					
.a:Healthy and young	S1RSCARE	S2RSCARE	S3RSCARE	S4RSCARE	
.d:dk	1		1		
.h:No help received	4				
.m:missing	258	1434	1860	1584	
.u:unmar	110	107	69	21	
.v:sp nr	2260	2401	2719	2926	
.x:No difficulty	538	622	650	517	
0.No	12825	11104	12575	11760	
1.Yes	254	472	665	623	
	1458	2463	2554	2374	
Value-----					
.a:Healthy and young	R1RSCAREPD		R3RSCAREPD		
.h:No help received	3		1		
.m:missing	367		2441		
.r:refuse	224		206		
.x:No difficulty	1				
0.No	14892		14310		
1.Yes	2215		4117		
	6		22		
Value-----					
.a:Healthy and young	S1RSCAREPD		S3RSCAREPD		
.h:No help received	1		1		
.m:missing	258		1864		
.r:refuse	115		87		
.u:unmar	1				
.v:sp nr	2260		2719		
.x:No difficulty	538		650		
0.No	12831		12579		
1.Yes	1698		3172		
	6		21		

### How Constructed:

RwRASCARE indicates whether the respondent's spouse or ex-spouse helps the respondent with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRASCARE is assigned 0 if the respondent does not report their spouse or ex-spouse helps them with any ADLs. RwRASCARE is assigned 1 if the respondent reports their spouse or ex-spouse helps them with at least one ADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRASCARE is only available in Wave 2.

RwRISCARE indicates whether the respondent's spouse or ex-spouse helps the respondent with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRISCARE

is assigned 0 if the respondent does not report their spouse or ex-spouse helps them with any IADLs. RwrISCARE is assigned 1 if the respondent reports their spouse or ex-spouse helps them with at least one IADL. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwrISCARE is only available in Wave 2.

RwrSCARE indicates whether the respondent's spouse helps the respondent with any ADLs or IADLs. RwrSCARE is assigned 0 if the respondent does not report their spouse helps them with any ADLs or IADLs. RwrSCARE is assigned 1 if the respondent reports their spouse helps them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

RwrASCAREN indicates the number of spouses or ex-spouses who help the respondent with any ADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwrASCAREN is only available in Wave 2 when the respondent can report that a spouse and an ex-spouse helps them.

RwrISCAREN indicates the number of spouses or ex-spouses who help the respondent with any IADLs. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwrISCAREN is only available in Wave 2 when the respondent can report that a spouse and an ex-spouse helps them.

RwrASCAREN indicates the number of spouses or ex-spouses who help the respondent with any ADLs or IADLs. RwrASCAREN is assigned 0 if the respondent's receives no help from their spouse or ex-spouse. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwrASCAREN is only available in Wave 2 when the respondent can report that a spouse and an ex-spouse helps them.

RwrSCAREDPM indicates the number of days in the past month the respondent received help with any ADLs or IADLs from their spouse. RwrSCAREDPM is assigned 0 if the respondent did not receive any help from their spouse. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwrSCAREDPM is available in Wave 1 and starting again in Wave 3.

RwrSCAREHR indicates the number of hours per day the respondent receives help with any ADLs or IADLs from their spouse. RwrSCAREHR is assigned 0 if the respondent did not receive any help from their spouse. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwrSCAREHR is available in Wave 1 and starting again in Wave 3.

RwrSCAREPD indicates whether the respondent's spouse is paid to help them with any ADLs or IADLs. RwrSCAREPD is assigned 0 if the respondent does not report their spouse is paid to help them with any ADLs or IADLs. RwrSCAREPD is assigned 1 if the respondent reports their spouse is paid to help them with any ADLs or IADLs. In Wave 2 and starting again at Wave 4, respondents are not asked whether their spouse is paid to help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwrSCAREPD is available in Waves 1 and 3.

For all of the above variables, special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwrASCARE indicates whether the respondent or an ex-spouse helps the respondent's spouse with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. SwrISCARE indicates whether the respondent or an ex-spouse helps the respondent's spouse with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. SwrSCARE indicates whether the respondent spouse helps the respondent's spouse with any ADLs or IADLs. SwrASCAREN indicates the number of spouses or ex-spouses who help the respondent's spouse with any ADLs. SwrISCAREN indicates the number of spouses or ex-spouses who help the respondent's spouse with any IADLs. SwrSCAREN indicates the number of spouses or ex-spouses who help the respondent's spouse with any ADLs or IADLs. SwrSCAREDPM indicates the number of days in the last month the respondent's spouse received help with any ADLs or IADLs from the respondent. SwrSCAREHR

indicates the number of hours per day the respondent's spouse receives help with any ADLs or IADLs from the respondent. SwRSCAREPD indicates whether their respondent is paid to help the respondent's spouse with any ADLs or IADLs. SwRASCARE, SwRISCARE, SwRSCARE, SwRASCAREN, SwRISCAREN, SwRSCAREN, SwRSCAREDP, SwRSCAREHR, and SwRSCAREPD are taken from the spouse's values to RWRASCARE, RWRISCARE, RWRSCARE, RWRASCAREN, RWRISCAREN, RWRSCAREN, RWRSCAREDP, RWRSCAREHR, and RWRSCAREPD, respectively. In addition to the special missing values used in RWRASCARE, RWRISCARE, RWRSCARE, RWRASCAREN, RWRISCAREN, RWRSCAREN, RWRSCAREDP, RWRSCAREHR, and RWRSCAREPD, SwRASCARE, SwRISCARE, SwRSCARE, SwRASCAREN, SwRISCAREN, SwRSCAREN, SwRSCAREDP, SwRSCAREHR, and SwRSCAREPD employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 1, respondents are asked whether they have any difficulty with each Activity of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) and Instrumental Activity of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money).

At Waves 1, 3, and 4, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Waves 1, 3, and 4, CHARLS does not ask who helps the respondent with each activity separately. However at Wave 2, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of all people who help them with each activity separately.

At Wave 2, respondents are able to report whether they received help from their spouse and/or an ex-spouse. Whereas in all other waves, respondents are only able to report whether they received help from their spouse.

At Wave 1, for each helper reported, the respondent is asked to report the number of days in the last month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent. Due to the way the questions were asked and the data is stored, we were not able to calculate days in the past month received help, hours per day received help, and whether or not paid for spouse helpers at Wave 2.

At Wave 3, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they are asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

Starting at Wave 4, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they are asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help and the number of hours per day they received help. They are no longer asked whether the helper was paid for providing help to the respondent.

## Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RWRSCAREDPW which indicates the number of days per week the respondent receives help from their spouse. The Harmonized CHARLS includes RWRSCAREDPM which indicates the number of days in the past month the respondent received help from their spouse.

At CHARLS Wave 2, respondents are able to report whether they received help from their spouse and/or an ex-spouse, which is comparable to the HRS. In Wave 1 and starting again in Wave 3, CHARLS respondents are only able to report whether they received help from their spouse.

The Harmonized HRS includes missing counts for the days of help and hours of help, given in RWRSCAREDPWM and RWRSCAREHRM, for all available waves. While these missing counts can be accurately created in the Harmonized CHARLS at Wave 1, they cannot be accurately created started in Wave 2, and so are not included in the Harmonized CHARLS.



The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

### CHARLS Variables Used:

#### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties

DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_1_	How Many Days Did Spouse Help You LM
DB024_1_	How Many Hours Per Day Did Spouse Help You LM
DB026_1_	Is Spouse Paid to Help You
Wave 2:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease

DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W2_1_1_S1	Who Help You Most with Dressing/Bathing etc.? Spouse
DB022_W2_1_1_S2	Who Help You Most with Dressing/Bathing etc.? Ex-Spouse
DB022_W2_1_2_S1	Who Help You Most with Dressing/Bathing etc.? Spouse
DB022_W2_1_2_S2	Who Help You Most with Dressing/Bathing etc.? Ex-Spouse
DB022_W2_1_3_S1	Who Help You Most with Dressing/Bathing etc.? Spouse
DB022_W2_1_3_S2	Who Help You Most with Dressing/Bathing etc.? Ex-Spouse
DB022_W2_5_1_S1	Who Help You Most with Shopping etc.? Spouse
DB022_W2_5_1_S2	Who Help You Most with Shopping etc.? Ex-Spouse
DB022_W2_5_2_S1	Who Help You Most with Shopping etc.? Spouse
DB022_W2_5_2_S2	Who Help You Most with Shopping etc.? Ex-Spouse
DB022_W2_5_3_S1	Who Help You Most with Shopping etc.? Spouse
DB022_W2_5_3_S2	Who Help You Most with Shopping etc.? Ex-Spouse
DB022_W2_5_4_S1	Who Help You Most with Shopping etc.? Spouse
DB022_W2_5_4_S2	Who Help You Most with Shopping etc.? Ex-Spouse
DB022_W2_5_5_S1	Who Help You Most with Shopping etc.? Spouse
DB022_W2_5_5_S2	Who Help You Most with Shopping etc.? Ex-Spouse
DB022_W2_9_1_S1	Who Help You Manage Your Money? Spouse
DB022_W2_9_1_S2	Who Help You Manage Your Money? Ex-Spouse
DB022_W2_9_2_S1	Who Help You Manage Your Money? Spouse
DB022_W2_9_2_S2	Who Help You Manage Your Money? Ex-Spouse
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease

DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W3_1S1	Who Help You Most
DB023_1_	The Number of Days
DB024_1_	The Number of Hours
DB026_1_	Paid to Help You
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem

DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB022_W3_1_S1	Helper[1]
DB023_1_	Days Helper[1] Helped
DB024_1_	Hours Helper[1] Helped
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Receives Informal Caregiving from Children or Grandchildren</b>
--

Wave	Variable	Label	Type
2	R2RACCARE	r2raccare:w2 r receives informal care from children/grchildr	Categ
2	S2RACCARE	s2raccare:w2 s receives informal care from children/grchildr	Categ
2	R2RICCARE	r2riccare:w2 r receives informal care from children/grchildr	Categ
2	S2RICCARE	s2riccare:w2 s receives informal care from children/grchildr	Categ
1	R1RCCARE	r1rccare:w1 r receives informal care from children/grchildre	Categ
2	R2RCCARE	r2rccare:w2 r receives informal care from children/grchildre	Categ
3	R3RCCARE	r3rccare:w3 r receives informal care from children/grchildre	Categ
4	R4RCCARE	r4rccare:w4 r receives informal care from children/grchildre	Categ
1	S1RCCARE	s1rccare:w1 s receives informal care from children/grchildre	Categ
2	S2RCCARE	s2rccare:w2 s receives informal care from children/grchildre	Categ
3	S3RCCARE	s3rccare:w3 s receives informal care from children/grchildre	Categ
4	S4RCCARE	s4rccare:w4 s receives informal care from children/grchildre	Categ
2	R2RACCAREN_C	r2raccaren_c:w2 number of children who help r with adls	Cont
2	S2RACCAREN_C	s2raccaren_c:w2 number of children who help s with adls	Cont
2	R2RICCAREN_C	r2riccaren_c:w2 number of children who help r with iadls	Cont
2	S2RICCAREN_C	s2riccaren_c:w2 number of children who help s with iadls	Cont
2	R2RCCAREN_C	r2rccaren_c:w2 number of children who help r with adls/iadls	Cont
2	S2RCCAREN_C	s2rccaren_c:w2 number of children who help s with adls/iadls	Cont
1	R1RCCAREN	r1rccaren:w1 number of children/grchildren who help r with a	Cont
3	R3RCCAREN	r3rccaren:w3 number of children/grchildren who help r with a	Cont
4	R4RCCAREN	r4rccaren:w4 number of children/grchildren who help r with a	Cont
1	S1RCCAREN	s1rccaren:w1 number of children/grchildren who help s with a	Cont
3	S3RCCAREN	s3rccaren:w3 number of children/grchildren who help s with a	Cont
4	S4RCCAREN	s4rccaren:w4 number of children/grchildren who help s with a	Cont
1	R1RCCAREDPM	r1rccaredpm:w1 r days/month receives care from children/grch	Cont
3	R3RCCAREDPM	r3rccaredpm:w3 r days/month receives care from children/grch	Cont
4	R4RCCAREDPM	r4rccaredpm:w4 r days/month receives care from children/grch	Cont
1	S1RCCAREDPM	s1rccaredpm:w1 s days/month receives care from children/grch	Cont
3	S3RCCAREDPM	s3rccaredpm:w3 s days/month receives care from children/grch	Cont
4	S4RCCAREDPM	s4rccaredpm:w4 s days/month receives care from children/grch	Cont
2	R2RCCAREDPM_C	r2rccaredpm_c:w2 r days/month receives care from children fo	Cont
2	S2RCCAREDPM_C	s2rccaredpm_c:w2 s days/month receives care from children fo	Cont
1	R1RCCAREHR	r1rccarehr:w1 r hours/day receives care from children/grchil	Cont
3	R3RCCAREHR	r3rccarehr:w3 r hours/day receives care from children/grchil	Cont
4	R4RCCAREHR	r4rccarehr:w4 r hours/day receives care from children/grchil	Cont
1	S1RCCAREHR	s1rccarehr:w1 s hours/day receives care from children/grchil	Cont
3	S3RCCAREHR	s3rccarehr:w3 s hours/day receives care from children/grchil	Cont
4	S4RCCAREHR	s4rccarehr:w4 s hours/day receives care from children/grchil	Cont
2	R2RCCAREHR_C	r2rccarehr_c:w2 r hours/day receives care from children for	Cont
2	S2RCCAREHR_C	s2rccarehr_c:w2 s hours/day receives care from children for	Cont
1	R1RCCAREPD	r1rccarepd:w1 r whether child/grchild is paid for care for a	Categ

3	R3RCCAREPD	r3rccarepd:w3	r whether child/grchild is paid for care for a	Categ
1	S1RCCAREPD	s1rccarepd:w1	s whether child/grchild is paid for care for a	Categ
3	S3RCCAREPD	s3rccarepd:w3	s whether child/grchild is paid for care for a	Categ
2	R2RCCAREPD_C	r2rccarepd_c:w2	whether child is paid for care for adls/iadl	Categ
2	S2RCCAREPD_C	s2rccarepd_c:w2	whether child is paid for care for adls/iadl	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RACCARE	973	0.49	0.50	0.00	1.00
S2RACCARE	730	0.37	0.48	0.00	1.00
R2RICCARE	3557	0.48	0.50	0.00	1.00
S2RICCARE	2771	0.38	0.49	0.00	1.00
R1RCCARE	2230	0.36	0.48	0.00	1.00
R2RCCARE	3700	0.49	0.50	0.00	1.00
R3RCCARE	4122	0.46	0.50	0.00	1.00
R4RCCARE	3989	0.52	0.50	0.00	1.00
S1RCCARE	1712	0.21	0.41	0.00	1.00
S2RCCARE	2884	0.39	0.49	0.00	1.00
S3RCCARE	3163	0.35	0.48	0.00	1.00
S4RCCARE	2997	0.41	0.49	0.00	1.00
R2RACCAREN_C	973	0.95	1.60	0.00	14.00
S2RACCAREN_C	730	0.70	1.43	0.00	14.00
R2RICCAREN_C	3557	0.83	1.30	0.00	14.00
S2RICCAREN_C	2771	0.64	1.19	0.00	14.00
R2RCCAREN_C	3700	0.87	1.38	0.00	14.00
S2RCCAREN_C	2884	0.68	1.25	0.00	14.00
R1RCCAREN	2230	0.30	0.53	0.00	2.00
R3RCCAREN	4122	1.40	2.58	0.00	26.00
R4RCCAREN	3989	1.61	2.78	0.00	28.00
S1RCCAREN	1712	0.17	0.42	0.00	2.00
S3RCCAREN	3163	1.07	2.31	0.00	25.00
S4RCCAREN	2997	1.24	2.41	0.00	26.00
R1RCCAREDPM	2205	9.08	15.80	0.00	60.00
R3RCCAREDPM	4051	14.33	27.26	0.00	361.00
R4RCCAREDPM	3955	17.45	28.44	0.00	217.00
S1RCCAREDPM	1701	4.44	11.17	0.00	60.00
S3RCCAREDPM	3165	9.32	21.83	0.00	210.00
S4RCCAREDPM	2983	12.50	24.94	0.00	217.00
R2RCCAREDPM_C	3600	12.68	23.51	0.00	300.00
S2RCCAREDPM_C	2811	8.63	19.61	0.00	228.00
R1RCCAREHR	2181	1.85	4.71	0.00	48.00
R3RCCAREHR	4000	3.90	11.09	0.00	279.00
R4RCCAREHR	3955	4.96	13.11	0.00	168.00
S1RCCAREHR	1689	0.96	3.26	0.00	36.00

S3RCCAREHR	3143	2.66	8.21	0.00	168.00
S4RCCAREHR	2983	3.44	10.05	0.00	148.00
R2RCCAREHR_C	3556	3.33	9.53	0.00	144.00
S2RCCAREHR_C	2792	2.37	8.05	0.00	128.00
R1RCCAREPD	2226	0.00	0.04	0.00	1.00
R3RCCAREPD	3992	0.01	0.08	0.00	1.00
S1RCCAREPD	1708	0.00	0.02	0.00	1.00
S3RCCAREPD	3089	0.00	0.07	0.00	1.00
R2RCCAREPD_C	1588	0.02	0.12	0.00	1.00
S2RCCAREPD_C	982	0.01	0.11	0.00	1.00

**Categorical Variable Codes**

Value-----	R2RACCARE
.a:Healthy and young	114
.h:No help received	1989
.m:missing	257
.x:No difficulty	15279
0.No	494
1.Yes	479

Value-----	S2RACCARE
.a:Healthy and young	104
.h:No help received	1490
.m:missing	131
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	13125
0.No	459
1.Yes	271

Value-----	R2RICCARE
.h:No help received	1183
.m:missing	236
.x:No difficulty	13636
0.No	1864
1.Yes	1693

Value-----	S2RICCARE
.h:No help received	841
.m:missing	109
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	11859
0.No	1720
1.Yes	1051

Value-----	R1RCCARE	R2RCCARE	R3RCCARE	R4RCCARE
.a:Healthy and young	3		1	1
.d:dk	6			
.h:No help received	367	1937	2445	2172
.m:missing	217	234	187	93
.x:No difficulty	14885	12741	14342	13561
0.No	1420	1892	2233	1921
1.Yes	810	1808	1889	2068

Value-----	S1RCCARE	S2RCCARE	S3RCCARE	S4RCCARE
.a:Healthy and young	1		1	
.d:dk	4			
.h:No help received	258	1443	1871	1584
.m:missing	110	107	70	21



.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:No difficulty	12825	11146	12619	11760
0.No	1345	1747	2050	1767
1.Yes	367	1137	1113	1230

Value-----	R1RCCAREPD	R3RCCAREPD
.a:Healthy and young	3	1
.h:No help received	366	2451
.m:missing	224	276
.x:No difficulty	14889	14377
0.No	2223	3966
1.Yes	3	26

Value-----	S1RCCAREPD	S3RCCAREPD
.a:Healthy and young	1	1
.h:No help received	258	1874
.m:missing	115	117
.u:unmar	2260	2719
.v:sp nr	538	650
.x:No difficulty	12828	12643
0.No	1707	3074
1.Yes	1	15

Value-----	R2RCCAREPD_C
.h:No help received	4042
.m:missing	239
.x:No difficulty	12743
0.No	1564
1.Yes	24

Value-----	S2RCCAREPD_C
.h:No help received	3340
.m:missing	111
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	11147
0.No	969
1.Yes	13

### How Constructed:

RwRACCARE indicates whether the respondent's children, spouses of children, or grandchildren help the respondent with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRACCARE is assigned 0 if the respondent does not report their children, spouses of children, or grandchildren help them with any ADLs. RwRACCARE is assigned 1 if the respondent reports their children, spouses of children, or grandchildren help them with at least one ADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRACCARE is only available in Wave 2.

RwRICCARE indicates whether the respondent's children, spouses of children, or grandchildren help the respondent with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRICCARE is assigned 0 if the respondent does not report their children, spouses of children, or grandchildren help them with any IADLs. RwRICCARE is assigned 1 if the respondent reports their children, spouses of children, or grandchildren help them with at least one IADL. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRICCARE is only available in Wave 2.

RwRCCARE indicates whether the respondent's children, spouses of children, or grandchildren help the respondent with any ADLs or IADLs. RwRCCARE is assigned 0 if the respondent does not report their children, spouses of children, or grandchildren help them with any ADLs or IADLs. RwRSCARE is assigned 1 if the respondent reports their children, spouses of children, or grandchildren help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

RwRACCAREN\_C indicates the number of children and spouses of children who help the respondent with any ADLs. RwRACCAREN\_C is assigned 0 if the respondent receives no help from their children. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRACCAREN\_C is only available in Wave 2.

RwRICCAREN\_C indicates the number of children and spouses of children who help the respondent with any IADLs. RwRICCAREN\_C is assigned 0 if the respondent receives no help from their children. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RICCAREN\_C is only available in Wave 2.

RwRCCAREN\_C indicates the number of children and spouses of children who help the respondent with any ADLs or IADLs. RwRCCAREN\_C is assigned 0 if the respondent receives no help from their children. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

RwRCCAREN indicates the number of children, spouses of children, and grandchildren who help the respondent with any ADLs or IADLs. RwRCCAREN is assigned 0 if the respondent receives no help from their children. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRCCAREN is available in Wave 1 and starting again in Wave 3.

RwRCCAREDPM indicates the number of days in the past month the respondent received help with any ADLs or IADLs from their children, spouses of children, and grandchildren. RwRCCAREDPM is the sum of all days in the past month for all children, spouses of children, and grandchildren helpers, so the value can be over 31. RwRCCAREDPM is assigned 0 if the respondent did not receive any help from their children, spouses of children, or grandchildren. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRCCAREDPM is available in Wave 1 and starting again in Wave 3.

RwRCCAREDPM\_C indicates the number of days in the past month the respondent received help with any ADLs or IADLs from their children or spouses of children. RwRCCAREDPM\_C is the sum of all days in the past month for all children and spouses of children helpers, so the value can be over 31. RwRCCAREDPM\_C is assigned 0 if the respondent did not receive any help from their children or spouses of children. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRCCAREDPM\_C is only available in Wave 2.

RwRCCAREHR indicates the number of hours per day the respondent receives help with any ADLs or IADLs from their children, spouses of children, and grandchildren. RwRCCAREHR is the sum of all hours per day for all children, spouses of children, and grandchildren helpers, so the value can be over 24. RwRCCAREHR is assigned 0 if the respondent did not receive any help from their children, spouses of children, or grandchildren. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRCCAREHR is available in Wave 1 and starting again in Wave 3.

RwRCCAREHR\_C indicates the number of hours per day the respondent receives help with any ADLs or IADLs from their children or spouses of children. RwRCCAREHR\_C is the sum of all hours per day for all children and spouses of children helpers, so the value can be over 24. RwRCCAREHR\_C is assigned 0 if the respondent did not receive any help from their children or spouses of children. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRCCAREHR\_C is only available in Wave 2.

RwRCCAREPD indicates whether their children, spouses of children, and grandchildren are paid to help the respondent with any ADLs or IADLs. RwRCCAREPD is assigned 0 if the respondent does not report their children, spouses of children, and grandchildren are paid to help them with any ADLs or IADLs or if their children, spouses of children, and grandchildren do not help them. RwRCCAREPD is assigned 1 if the respondent reports their children, spouses of children, and grandchildren are

paid to help them with any ADLs or IADLs. Starting at Wave 4, respondents are not asked whether their children, spouses of children, and grandchildren are paid to help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwrCCAREPD is available in Waves 1 and 3.

RwrCCAREPD\_C indicates whether their children or spouses of children are paid to help the respondent with any ADLs or IADLs. RwrCCAREPD\_C is assigned 0 if the respondent does not report their children and spouses of children are paid to help them with any ADLs or IADLs or if their children and spouses of children do not help them. RwrSCAREPD is assigned 1 if the respondent reports their children and spouses of children are paid to help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwrCCAREPD\_C is only available in Wave 2.

Special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRACCARE, SwRICCARE, SwRCCARE, SwRACCAREN\_C, SwRICCAREN\_C, SwRCCAREN\_C, SwRCCAREN, SwRCCAREDP, SwRCCAREDP\_C, SwRCCAREHR, SwRCCAREHR\_C, SwRCCAREPD, and SwRCCAREPD\_C are taken from the spouse's values to RwrACCARE, RwrRICCARE, RwrCCARE, RwrACCAREN\_C, RwrRICCAREN\_C, RwrCCAREN\_C, RwrCCAREN, RwrCCAREDP, RwrCCAREDP\_C, RwrCCAREHR, RwrCCAREHR\_C, RwrCCAREPD, and RwrCCAREPD\_C, respectively. In addition to the special missing values used in RwrACCARE, RwrRICCARE, RwrCCARE, RwrACCAREN\_C, RwrRICCAREN\_C, RwrCCAREN\_C, RwrCCAREN, RwrCCAREDP, RwrCCAREDP\_C, RwrCCAREHR, RwrCCAREHR\_C, RwrCCAREPD, and SwRACCARE, SwRICCARE, SwRCCARE, SwRACCAREN\_C, SwRICCAREN\_C, SwRCCAREN\_C, SwRCCAREN, SwRCCAREDP, SwRCCAREDP\_C, SwRCCAREHR, SwRCCAREHR\_C, SwRCCAREPD, and SwRCCAREPD\_C employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Starting at Wave 1, respondents are asked whether they have any difficulty with each Activity of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) and Instrumental Activity of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money).

At Waves 1, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Wave 1, CHARLS does not ask who helps the respondent with each activity separately.

At Wave 2, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of all people who help them with each activity separately.

At Waves 3 and 4, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Waves 3 and 4, CHARLS does not ask who helps the respondent with each activity separately. If the respondent reports receiving help from a child, then they are asked which family the child is from. After indicating the family, they are asked specifically who helps from the child's family and are given the following options: himself/herself, his/her spouse, his/her children.

At Waves 1 and 2, for each helper reported, the respondent is asked to also report the number of days in the last month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

At Wave 3, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they are asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

Starting at Wave 4, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they are asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help and the number of hours per day they received help.

In the current release of the CHARLS data, information about grandchildren helpers is not available at Wave 2, and so variables in this wave end with "\_C".

## Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RWRCCAREDPW which indicates the number of days per week the respondent receives help from their children and grandchildren. The Harmonized CHARLS includes RWRCCAREDPM which indicates the number of days in the past month the respondent received help from their children, spouses of children, and grandchildren.

At CHARLS Wave 2, information provided for number of helpers, frequency of help, and whether paid is only available for children and spouses of children. This is different than the HRS, which provides that information for children and grandchildren. Therefore, at Wave 2, the "\_C" suffix is included in the Harmonized CHARLS variable name to indicate that the two concepts are similar but not directly comparable. The number of children and grandchildren can be created for all waves of the Harmonized HRS, but not for all waves of the Harmonized CHARLS.

The Harmonized HRS includes missing counts for the days of help and hours of help, given in RWRCCAREDPWM and RWRCCAREHRM, for all available waves. While these missing counts can be accurately created in the Harmonized CHARLS at Wave 1, they cannot be accurately created started in Wave 2, and so are not included in the Harmonized CHARLS.

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

## CHARLS Variables Used:

### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr

DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_10_	How Many Days Did Children Help You LM
DB023_11_	How Many Days Did Children Help You LM
DB023_12_	How Many Days Did Children Help You LM
DB023_34_	How Many Days Did Children's Spouse Help You LM
DB023_35_	How Many Days Did Grandchild Help You LM
DB023_6_	How Many Days Did Children Help You LM
DB023_7_	How Many Days Did Children Help You LM
DB023_8_	How Many Days Did Children Help You LM
DB023_9_	How Many Days Did Children Help You LM
DB024_10_	How Many Hours Per Day Did Children Help You LM
DB024_11_	How Many Hours Per Day Did Children Help You LM
DB024_12_	How Many Hours Per Day Did Children Help You LM
DB024_34_	How Many Hours Per Day Did Children's Spouse Help You LM
DB024_35_	How Many Hours Per Day Did Grandchild Help You LM
DB024_6_	How Many Hours Per Day Did Children Help You LM
DB024_7_	How Many Hours Per Day Did Children Help You LM
DB024_8_	How Many Hours Per Day Did Children Help You LM
DB024_9_	How Many Hours Per Day Did Children Help You LM
DB026_10_	Is Children Paid to Help You
DB026_11_	Is Children Paid to Help You
DB026_12_	Is Children Paid to Help You

DB026_34_	Is Children's Spouse Paid to Help You
DB026_35_	Is Grandchild Paid to Help You
DB026_6_	Is Children Paid to Help You
DB026_7_	Is Children Paid to Help You
DB026_8_	Is Children Paid to Help You
DB026_9_	Is Children Paid to Help You
Wave 2:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?









DB022_W2_9_2_S38	Who Help You Manage Your Money?	FLChildNameSpouse[7]
DB022_W2_9_2_S60	Who Help You Manage Your Money?	Grandson
DB022_W2_9_2_S61	Who Help You Manage Your Money?	Granddaughter
DB022_W2_9_2_S7	Who Help You Manage Your Money?	FLChildName[1]
DB022_W2_9_2_S8	Who Help You Manage Your Money?	FLChildName[2]
DB022_W2_9_2_S9	Who Help You Manage Your Money?	FLChildName[3]
DB023_11_	The Number of Days	
DB023_1_	The Number of Days	
DB023_26_	The Number of Days	
DB023_27_	The Number of Days	
DB023_28_	The Number of Days	
DB023_29_	The Number of Days	
DB023_2_	The Number of Days	
DB023_30_	The Number of Days	
DB023_31_	The Number of Days	
DB023_32_	The Number of Days	
DB023_33_	The Number of Days	
DB023_36_	The Number of Days	
DB023_3_	The Number of Days	
DB023_48_	The Number of Days	
DB023_4_	The Number of Days	
DB023_51_	The Number of Days	
DB023_5_	The Number of Days	
DB023_6_	The Number of Days	
DB023_7_	The Number of Days	
DB023_8_	The Number of Days	
DB023_9_	The Number of Days	
DB024_11_	The Number of Hours	
DB024_1_	The Number of Hours	
DB024_26_	The Number of Hours	
DB024_27_	The Number of Hours	
DB024_28_	The Number of Hours	
DB024_29_	The Number of Hours	
DB024_2_	The Number of Hours	
DB024_30_	The Number of Hours	
DB024_31_	The Number of Hours	
DB024_32_	The Number of Hours	
DB024_33_	The Number of Hours	
DB024_36_	The Number of Hours	
DB024_3_	The Number of Hours	
DB024_4_	The Number of Hours	
DB024_51_	The Number of Hours	
DB024_5_	The Number of Hours	
DB024_6_	The Number of Hours	
DB024_7_	The Number of Hours	
DB024_8_	The Number of Hours	
DB024_9_	The Number of Hours	
DB026_11_	Paid to Help You	
DB026_14_	Paid to Help You	
DB026_16_	Paid to Help You	
DB026_19_	Paid to Help You	
DB026_1_	Paid to Help You	
DB026_21_	Paid to Help You	
DB026_22_	Paid to Help You	
DB026_23_	Paid to Help You	
DB026_24_	Paid to Help You	
DB026_25_	Paid to Help You	
DB026_26_	Paid to Help You	
DB026_27_	Paid to Help You	
DB026_28_	Paid to Help You	
DB026_29_	Paid to Help You	
DB026_2_	Paid to Help You	
DB026_30_	Paid to Help You	
DB026_31_	Paid to Help You	
DB026_32_	Paid to Help You	
DB026_33_	Paid to Help You	
DB026_34_	Paid to Help You	
DB026_35_	Paid to Help You	
DB026_36_	Paid to Help You	

DB026_37_	Paid to Help You
DB026_39_	Paid to Help You
DB026_3_	Paid to Help You
DB026_40_	Paid to Help You
DB026_41_	Paid to Help You
DB026_43_	Paid to Help You
DB026_44_	Paid to Help You
DB026_45_	Paid to Help You
DB026_46_	Paid to Help You
DB026_49_	Paid to Help You
DB026_4_	Paid to Help You
DB026_50_	Paid to Help You
DB026_51_	Paid to Help You
DB026_5_	Paid to Help You
DB026_6_	Paid to Help You
DB026_7_	Paid to Help You
DB026_8_	Paid to Help You
DB026_9_	Paid to Help You
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record

DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W3_1S1	Who Help You Most
DB022_W3_1S3	Who Help You Most
DB022_W3_1S6	Who Help You Most
DB022_W3_1S7	Who Help You Most
DB022_W3_1S8	Who Help You Most
DB022_W3_1S9	Who Help You Most
DB023_10_	The Number of Days
DB023_11_	The Number of Days
DB023_12_	The Number of Days
DB023_13_	The Number of Days
DB023_14_	The Number of Days
DB023_15_	The Number of Days
DB023_16_	The Number of Days
DB023_17_	The Number of Days
DB023_18_	The Number of Days
DB023_19_	The Number of Days
DB023_1_	The Number of Days
DB023_20_	The Number of Days
DB023_21_	The Number of Days
DB023_22_	The Number of Days
DB023_24_	The Number of Days
DB023_25_	The Number of Days
DB023_2_	The Number of Days
DB023_3_	The Number of Days
DB023_3_	The Number of Days
DB023_4_	The Number of Days
DB023_5_	The Number of Days
DB023_6_	The Number of Days
DB023_7_	The Number of Days
DB023_8_	The Number of Days
DB023_9_	The Number of Days
DB023_W3_1S1	Who Help You Most
DB023_W3_1S2	Who Help You Most
DB023_W3_1S3	Who Help You Most
DB023_W3_1S4	Who Help You Most
DB023_W3_3_10_S1	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_10_S2	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_10_S3	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_11_S1	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_11_S2	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_11_S3	Helper From Children, Children's Spouses, Grandson, Granddaughter
DB023_W3_3_12_S1	Helper From Children, Children's Spouses, Grandson, Granddaughter



DB023_W3_5_3_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_4_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_4_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_4_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_5_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_5_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_5_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_6_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_6_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_6_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_7_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_7_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_7_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_8_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_8_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_8_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_9_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_9_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_9_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_6	Who Help You Most
DB023_W3_7	Who Help You Most
DB023_W3_9S1	One of The Most Important 7 Helpers
DB023_W3_9S10	One of The Most Important 7 Helpers
DB023_W3_9S11	One of The Most Important 7 Helpers
DB023_W3_9S12	One of The Most Important 7 Helpers
DB023_W3_9S13	One of The Most Important 7 Helpers
DB023_W3_9S14	One of The Most Important 7 Helpers
DB023_W3_9S15	One of The Most Important 7 Helpers
DB023_W3_9S16	One of The Most Important 7 Helpers
DB023_W3_9S17	One of The Most Important 7 Helpers
DB023_W3_9S18	One of The Most Important 7 Helpers
DB023_W3_9S19	One of The Most Important 7 Helpers
DB023_W3_9S2	One of The Most Important 7 Helpers
DB023_W3_9S20	One of The Most Important 7 Helpers
DB023_W3_9S21	One of The Most Important 7 Helpers
DB023_W3_9S22	One of The Most Important 7 Helpers
DB023_W3_9S24	One of The Most Important 7 Helpers
DB023_W3_9S25	One of The Most Important 7 Helpers
DB023_W3_9S3	One of The Most Important 7 Helpers
DB023_W3_9S4	One of The Most Important 7 Helpers
DB023_W3_9S5	One of The Most Important 7 Helpers
DB023_W3_9S6	One of The Most Important 7 Helpers
DB023_W3_9S7	One of The Most Important 7 Helpers
DB023_W3_9S8	One of The Most Important 7 Helpers
DB023_W3_9S9	One of The Most Important 7 Helpers
DB024_10_	The Number of Hours
DB024_11_	The Number of Hours
DB024_12_	The Number of Hours
DB024_13_	The Number of Hours
DB024_14_	The Number of Hours
DB024_15_	The Number of Hours
DB024_16_	The Number of Hours
DB024_17_	The Number of Hours
DB024_18_	The Number of Hours
DB024_19_	The Number of Hours
DB024_1_	The Number of Hours
DB024_20_	The Number of Hours
DB024_21_	The Number of Hours
DB024_22_	The Number of Hours
DB024_24_	The Number of Hours
DB024_25_	The Number of Hours
DB024_2_	The Number of Hours
DB024_3_	The Number of Hours
DB024_4_	The Number of Hours
DB024_5_	The Number of Hours
DB024_6_	The Number of Hours
DB024_7_	The Number of Hours
DB024_8_	The Number of Hours
DB024_9_	The Number of Hours

DB026_10_	Paid to Help You
DB026_11_	Paid to Help You
DB026_12_	Paid to Help You
DB026_13_	Paid to Help You
DB026_14_	Paid to Help You
DB026_15_	Paid to Help You
DB026_16_	Paid to Help You
DB026_17_	Paid to Help You
DB026_18_	Paid to Help You
DB026_19_	Paid to Help You
DB026_1_	Paid to Help You
DB026_20_	Paid to Help You
DB026_21_	Paid to Help You
DB026_22_	Paid to Help You
DB026_24_	Paid to Help You
DB026_25_	Paid to Help You
DB026_2_	Paid to Help You
DB026_3_	Paid to Help You
DB026_4_	Paid to Help You
DB026_5_	Paid to Help You
DB026_6_	Paid to Help You
DB026_7_	Paid to Help You
DB026_8_	Paid to Help You
DB026_9_	Paid to Help You
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped

DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB022_W3_1_S1	Helper[1]
DB022_W3_1_S3	Helper[3]
DB022_W3_1_S6	Helper[6]
DB022_W3_1_S7	Helper[7]
DB022_W3_1_S8	Helper[8]
DB022_W3_1_S9	Helper[9]
DB023_10_	Days Helper[10] Helped
DB023_11_	Days Helper[11] Helped
DB023_12_	Days Helper[12] Helped
DB023_13_	Days Helper[13] Helped
DB023_14_	Days Helper[14] Helped
DB023_15_	Days Helper[15] Helped
DB023_16_	Days Helper[16] Helped
DB023_17_	Days Helper[17] Helped
DB023_18_	Days Helper[18] Helped
DB023_19_	Days Helper[19] Helped
DB023_1_	Days Helper[1] Helped
DB023_20_	Days Helper[20] Helped
DB023_21_	Days Helper[21] Helped
DB023_22_	Days Helper[22] Helped
DB023_23_	Days Helper[23] Helped
DB023_24_	Days Helper[24] Helped
DB023_25_	Days Helper[25] Helped
DB023_26_	Days Helper[26] Helped
DB023_27_	Days Helper[27] Helped
DB023_28_	Days Helper[28] Helped
DB023_29_	Days Helper[29] Helped
DB023_2_	Days Helper[2] Helped
DB023_30_	Days Helper[30] Helped
DB023_31_	Days Helper[31] Helped
DB023_32_	Days Helper[32] Helped
DB023_33_	Days Helper[33] Helped
DB023_34_	Days Helper[34] Helped
DB023_3_	Days Helper[3] Helped
DB023_4_	Days Helper[4] Helped
DB023_5_	Days Helper[5] Helped
DB023_6_	Days Helper[6] Helped
DB023_7_	Days Helper[7] Helped
DB023_8_	Days Helper[8] Helped
DB023_9_	Days Helper[9] Helped
DB023_W3_1_S1	Who Help the Most
DB023_W3_1_S2	Who Help the Most
DB023_W3_1_S3	Who Help the Most
DB023_W3_1_S4	Who Help the Most
DB023_W3_3_10__S1	Who in Child[10]'s Family Helped
DB023_W3_3_10__S2	Who in Child[10]'s Family Helped
DB023_W3_3_10__S3	Who in Child[10]'s Family Helped
DB023_W3_3_11__S1	Who in Child[11]'s Family Helped
DB023_W3_3_11__S2	Who in Child[11]'s Family Helped
DB023_W3_3_11__S3	Who in Child[11]'s Family Helped
DB023_W3_3_1_1_	Number of Children Helped
DB023_W3_3_1_2_	Number of Children Helped
DB023_W3_3_1_3_	Number of Children Helped
DB023_W3_3_1_4_	Number of Children Helped
DB023_W3_3_1_5_	Number of Children Helped
DB023_W3_3_1_6_	Number of Children Helped
DB023_W3_3_1_7_	Number of Children Helped
DB023_W3_3_1_8_	Number of Children Helped
DB023_W3_3_1__S1	Who in Child[1]'s Family Helped
DB023_W3_3_1__S2	Who in Child[1]'s Family Helped
DB023_W3_3_1__S3	Who in Child[1]'s Family Helped
DB023_W3_3_2__S1	Who in Child[2]'s Family Helped
DB023_W3_3_2__S2	Who in Child[2]'s Family Helped
DB023_W3_3_2__S3	Who in Child[2]'s Family Helped





DB023_W3_5_9__S1	Who Help in Person from Sibling[9]'s Family
DB023_W3_5_9__S2	Who Help in Person from Sibling[9]'s Family
DB023_W3_5_9__S3	Who Help in Person from Sibling[9]'s Family
DB023_W3_6	Number of Relatives Help in Person
DB023_W3_7	Number of Others Who Help in Person
DB023_W3_9_S1	Most Important 7 Helpers
DB023_W3_9_S10	Most Important 7 Helpers
DB023_W3_9_S11	Most Important 7 Helpers
DB023_W3_9_S12	Most Important 7 Helpers
DB023_W3_9_S13	Most Important 7 Helpers
DB023_W3_9_S14	Most Important 7 Helpers
DB023_W3_9_S15	Most Important 7 Helpers
DB023_W3_9_S16	Most Important 7 Helpers
DB023_W3_9_S17	Most Important 7 Helpers
DB023_W3_9_S18	Most Important 7 Helpers
DB023_W3_9_S19	Most Important 7 Helpers
DB023_W3_9_S2	Most Important 7 Helpers
DB023_W3_9_S20	Most Important 7 Helpers
DB023_W3_9_S21	Most Important 7 Helpers
DB023_W3_9_S22	Most Important 7 Helpers
DB023_W3_9_S23	Most Important 7 Helpers
DB023_W3_9_S24	Most Important 7 Helpers
DB023_W3_9_S25	Most Important 7 Helpers
DB023_W3_9_S26	Most Important 7 Helpers
DB023_W3_9_S27	Most Important 7 Helpers
DB023_W3_9_S28	Most Important 7 Helpers
DB023_W3_9_S29	Most Important 7 Helpers
DB023_W3_9_S3	Most Important 7 Helpers
DB023_W3_9_S30	Most Important 7 Helpers
DB023_W3_9_S31	Most Important 7 Helpers
DB023_W3_9_S32	Most Important 7 Helpers
DB023_W3_9_S33	Most Important 7 Helpers
DB023_W3_9_S34	Most Important 7 Helpers
DB023_W3_9_S4	Most Important 7 Helpers
DB023_W3_9_S5	Most Important 7 Helpers
DB023_W3_9_S6	Most Important 7 Helpers
DB023_W3_9_S7	Most Important 7 Helpers
DB023_W3_9_S8	Most Important 7 Helpers
DB023_W3_9_S9	Most Important 7 Helpers
DB024_10_	Hours Helper[10] Helped
DB024_11_	Hours Helper[11] Helped
DB024_12_	Hours Helper[12] Helped
DB024_13_	Hours Helper[13] Helped
DB024_14_	Hours Helper[14] Helped
DB024_15_	Hours Helper[15] Helped
DB024_16_	Hours Helper[16] Helped
DB024_17_	Hours Helper[17] Helped
DB024_18_	Hours Helper[18] Helped
DB024_19_	Hours Helper[19] Helped
DB024_1_	Hours Helper[1] Helped
DB024_20_	Hours Helper[20] Helped
DB024_21_	Hours Helper[21] Helped
DB024_22_	Hours Helper[22] Helped
DB024_23_	Hours Helper[23] Helped
DB024_24_	Hours Helper[24] Helped
DB024_25_	Hours Helper[25] Helped
DB024_26_	Hours Helper[26] Helped
DB024_27_	Hours Helper[27] Helped
DB024_28_	Hours Helper[28] Helped
DB024_29_	Hours Helper[29] Helped
DB024_2_	Hours Helper[2] Helped
DB024_30_	Hours Helper[30] Helped
DB024_31_	Hours Helper[31] Helped
DB024_32_	Hours Helper[32] Helped
DB024_33_	Hours Helper[33] Helped
DB024_34_	Hours Helper[34] Helped
DB024_3_	Hours Helper[3] Helped
DB024_4_	Hours Helper[4] Helped
DB024_5_	Hours Helper[5] Helped

---

DB024_6_	Hours Helper[6] Helped
DB024_7_	Hours Helper[7] Helped
DB024_8_	Hours Helper[8] Helped
DB024_9_	Hours Helper[9] Helped
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Receives Informal Caregiving from Relatives</b>
--

Wave	Variable	Label	Type
2	R2RARCARE	r2rarcare:w2 r receives informal care from relatives for adl	Categ
2	S2RARCARE	s2rarcare:w2 s receives informal care from relatives for adl	Categ
2	R2RIRCARE	r2rircare:w2 r receives informal care from relatives for iad	Categ
2	S2RIRCARE	s2rircare:w2 s receives informal care from relatives for iad	Categ
1	R1RRCARE	r1rrcare:w1 r receives informal care from relatives for adls	Categ
2	R2RRCARE	r2rrcare:w2 r receives informal care from relatives for adls	Categ
3	R3RRCARE	r3rrcare:w3 r receives informal care from relatives for adls	Categ
4	R4RRCARE	r4rrcare:w4 r receives informal care from relatives for adls	Categ
1	S1RRCARE	s1rrcare:w1 s receives informal care from relatives for adls	Categ
2	S2RRCARE	s2rrcare:w2 s receives informal care from relatives for adls	Categ
3	S3RRCARE	s3rrcare:w3 s receives informal care from relatives for adls	Categ
4	S4RRCARE	s4rrcare:w4 s receives informal care from relatives for adls	Categ
2	R2RARCAREN	r2rarcaren:w2 number of relatives who help r with adls	Cont
2	S2RARCAREN	s2rarcaren:w2 number of relatives who help s with adls	Cont
2	R2RIRCAREN	r2rircaren:w2 number of relatives who help r with iadls	Cont
2	S2RIRCAREN	s2rircaren:w2 number of relatives who help s with iadls	Cont
1	R1RRCAREN	r1rrcaren:w1 number of relatives who help r with adls/iadls	Cont
2	R2RRCAREN	r2rrcaren:w2 number of relatives who help r with adls/iadls	Cont
3	R3RRCAREN	r3rrcaren:w3 number of relatives who help r with adls/iadls	Cont
4	R4RRCAREN	r4rrcaren:w4 number of relatives who help r with adls/iadls	Cont
1	S1RRCAREN	s1rrcaren:w1 number of relatives who help s with adls/iadls	Cont
2	S2RRCAREN	s2rrcaren:w2 number of relatives who help s with adls/iadls	Cont
3	S3RRCAREN	s3rrcaren:w3 number of relatives who help s with adls/iadls	Cont
4	S4RRCAREN	s4rrcaren:w4 number of relatives who help s with adls/iadls	Cont
1	R1RRCAREDPM	r1rrcaredpm:w1 r days/month receives care from relatives for	Cont
3	R3RRCAREDPM	r3rrcaredpm:w3 r days/month receives care from relatives for	Cont
4	R4RRCAREDPM	r4rrcaredpm:w4 r days/month receives care from relatives for	Cont
1	S1RRCAREDPM	s1rrcaredpm:w1 s days/month receives care from relatives for	Cont
3	S3RRCAREDPM	s3rrcaredpm:w3 s days/month receives care from relatives for	Cont
4	S4RRCAREDPM	s4rrcaredpm:w4 s days/month receives care from relatives for	Cont
1	R1RRCAREHR	r1rrcarehr:w1 r hours/day receives care from relatives for a	Cont
3	R3RRCAREHR	r3rrcarehr:w3 r hours/day receives care from relatives for a	Cont
4	R4RRCAREHR	r4rrcarehr:w4 r hours/day receives care from relatives for a	Cont
1	S1RRCAREHR	s1rrcarehr:w1 s hours/day receives care from relatives for a	Cont
3	S3RRCAREHR	s3rrcarehr:w3 s hours/day receives care from relatives for a	Cont
4	S4RRCAREHR	s4rrcarehr:w4 s hours/day receives care from relatives for a	Cont
1	R1RRCAREPD	r1rrcarepd:w1 r whether relative is paid for care for adls/i	Categ
3	R3RRCAREPD	r3rrcarepd:w3 r whether relative is paid for care for adls/i	Categ
1	S1RRCAREPD	s1rrcarepd:w1 s whether relative is paid for care for adls/i	Categ
3	S3RRCAREPD	s3rrcarepd:w3 s whether relative is paid for care for adls/i	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RARCARE	965	0.04	0.20	0.00	1.00

S2RARCARE	726	0.03	0.17	0.00	1.00
R2RIRCARE	3526	0.04	0.20	0.00	1.00
S2RIRCARE	2749	0.03	0.16	0.00	1.00
R1RRCARE	2230	0.03	0.18	0.00	1.00
R2RRCARE	3667	0.04	0.21	0.00	1.00
R3RRCARE	4085	0.05	0.22	0.00	1.00
R4RRCARE	3989	0.04	0.20	0.00	1.00
S1RRCARE	1712	0.02	0.15	0.00	1.00
S2RRCARE	2861	0.03	0.16	0.00	1.00
S3RRCARE	3139	0.04	0.19	0.00	1.00
S4RRCARE	2997	0.03	0.18	0.00	1.00
R2RARCAREN	965	0.06	0.32	0.00	5.00
S2RARCAREN	726	0.04	0.29	0.00	5.00
R2RIRCAREN	3526	0.05	0.28	0.00	4.00
S2RIRCAREN	2749	0.03	0.22	0.00	4.00
R1RRCAREN	2230	0.04	0.20	0.00	2.00
R2RRCAREN	3667	0.06	0.30	0.00	7.00
R3RRCAREN	4085	0.23	1.83	0.00	48.00
R4RRCAREN	3989	0.12	1.01	0.00	22.00
S1RRCAREN	1712	0.02	0.17	0.00	2.00
S2RRCAREN	2861	0.04	0.25	0.00	7.00
S3RRCAREN	3139	0.22	1.79	0.00	40.00
S4RRCAREN	2997	0.12	1.07	0.00	22.00
R1RRCAREDPM	2227	0.61	4.22	0.00	62.00
R3RRCAREDPM	4157	0.66	5.41	0.00	120.00
R4RRCAREDPM	3987	1.13	6.39	0.00	90.00
S1RRCAREDPM	1709	0.38	3.32	0.00	60.00
S3RRCAREDPM	3207	0.33	3.87	0.00	120.00
S4RRCAREDPM	2996	0.59	4.31	0.00	63.00
R1RRCAREHR	2223	0.15	1.22	0.00	24.00
R3RRCAREHR	4145	0.28	2.80	0.00	120.00
R4RRCAREHR	3987	0.37	2.47	0.00	61.00
S1RRCAREHR	1707	0.12	1.16	0.00	24.00
S3RRCAREHR	3202	0.20	2.63	0.00	120.00
S4RRCAREHR	2996	0.23	1.95	0.00	61.00
R1RRCAREPD	2229	0.00	0.02	0.00	1.00
R3RRCAREPD	4023	0.00	0.04	0.00	1.00
S1RRCAREPD	1711	0.00	0.02	0.00	1.00
S3RRCAREPD	3095	0.00	0.04	0.00	1.00

### Categorical Variable Codes

Value-----	R2RARCARE
.a:Healthy and young	114
.h:No help received	1991
.m:missing	257
.x:No difficulty	15285
0.No	924
1.Yes	41

Value-----	S2RARCARE			
.a:Healthy and young	104			
.h:No help received	1491			
.m:missing	131			
.u:unmar	2401			
.v:sp nr	622			
.x:No difficulty	13128			
0.No	704			
1.Yes	22			
Value-----	R2RIRCARE			
.h:No help received	1188			
.m:missing	236			
.x:No difficulty	13662			
0.No	3375			
1.Yes	151			
Value-----	S2RIRCARE			
.h:No help received	845			
.m:missing	109			
.u:unmar	2401			
.v:sp nr	622			
.x:No difficulty	11877			
0.No	2678			
1.Yes	71			
Value-----	R1RRCARE	R2RRCARE	R3RRCARE	R4RRCARE
.a:Healthy and young	3		1	1
.d:dk	6			
.h:No help received	367	1947	2451	2172
.m:missing	217	234	187	93
.x:No difficulty	14885	12764	14373	13561
0.No	2157	3503	3877	3817
1.Yes	73	164	208	172
Value-----	S1RRCARE	S2RRCARE	S3RRCARE	S4RRCARE
.a:Healthy and young	1		1	
.d:dk	4			
.h:No help received	258	1449	1874	1584
.m:missing	110	107	70	21
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:No difficulty	12825	11163	12640	11760
0.No	1674	2782	3015	2902
1.Yes	38	79	124	95
Value-----	R1RRCAREPD	R3RRCAREPD		
.a:Healthy and young	3	1		
.h:No help received	367	2451		
.m:missing	223	245		
.x:No difficulty	14886	14377		
0.No	2228	4015		
1.Yes	1	8		
Value-----	S1RRCAREPD	S3RRCAREPD		
.a:Healthy and young	1	1		
.h:No help received	258	1874		
.m:missing	114	111		
.u:unmar	2260	2719		
.v:sp nr	538	650		
.x:No difficulty	12826	12643		
0.No	1710	3091		
1.Yes	1	4		

**How Constructed:**

The following variables include help from the respondent's relatives, which includes help from their mother, father, mother-in-law, father-in-law, siblings, siblings of spouse, brother-in-laws, sister-in-laws, or other relatives.

RwRARCARE indicates whether the respondent's relatives help the respondent with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRARCARE is assigned 0 if the respondent does not report their relatives help them with any ADLs. RwRARCARE is assigned 1 if the respondent reports their relatives help them with at least one ADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRARCARE is only available in Wave 2.

RwRIRCARE indicates whether the respondent's relatives help the respondent with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRIRCARE is assigned 0 if the respondent does not report their relatives help them with any IADLs. RwRIRCARE is assigned 1 if the respondent reports their relatives help them with at least one IADL. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRIRCARE is only available in Wave 2.

RwRRCARE indicates whether the respondent's relatives help the respondent with any ADLs or IADLs. RwRRCARE is assigned 0 if the respondent does not report their relatives help them with any ADLs or IADLs. RwRRCARE is assigned 1 if the respondent reports their relatives help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

RwRARCAREN indicates the number of relatives who help the respondent with any ADLs. RwRARCAREN is assigned 0 if the respondent receives no help from their relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRARCAREN is only available in Wave 2. Please note that due to the way the data is structure in Wave 2, RwRARCAREN may underestimate the number of relative helpers for ADLs.

RwRIRCAREN indicates the number of relatives who help the respondent with any IADLs. RwRIRCAREN is assigned 0 if the respondent receives no help from their relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRIRCAREN is only available in Wave 2. Please note that due to the way the data is structure in Wave 2, RwRIRCAREN may underestimate the number of relative helpers for ADLs.

RwRRCAREN indicates the number of relatives who help the respondent with any ADLs or IADLs. RwRRCAREN is assigned 0 if the respondent receives no help from their relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. Please note that due to the way the data is structured in Wave 2, RwRRCAREN may underestimate the number of relative helpers for ADLs or IADLs.

RwRRCAREDPM indicates the number of days in the past month the respondent received help with any ADLs or IADLs from their relatives. RwRRCAREDPM is the sum of all days in the past month for all relative helpers, so the value can be over 31. RwRRCAREDPM is assigned 0 if the respondent did not receive any help from their relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRRCAREDPM is available in Wave 1 and starting again in Wave 3.

RwRRCAREHR indicates the number of hours per day the respondent receives help with any ADLs or IADLs from their relatives. RwRRCAREHR is the sum of all hours per day for all relative helpers, so the value can be over 24. RwRRCAREHR is assigned 0 if the respondent did not receive any help from their relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRRCAREHR is available in Wave 1 and starting again in Wave 3.

RwRRCAREPD indicates whether the respondent's relatives are paid to help the respondent with any ADLs or IADLs. RwRRCAREPD is assigned 0 if the respondent does not report their relatives are paid to help them with any ADLs or IADLs or if no relatives help the respondent. RwRRCAREPD is assigned 1 if the respondent reports their relatives are paid to help them with any ADLs or IADLs. Starting at Wave 4, respondents are not asked whether their relatives are paid to help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRRCAREPD is available in Waves 1 and 3.

Special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRARCARE indicates whether the respondent's spouse's relatives help the respondent's spouse with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. SwRIRCARE indicates whether the respondent's spouse's relatives help the respondent's spouse with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. SwRRCARE indicates whether the respondent's spouse's relatives help the respondent's spouse with any ADLs or IADLs. SwRRCAREN indicates the number of relatives who help the respondent's spouse with any ADLs or IADLs. SwRRCAREDPM indicates the number of days in the past month the respondent's spouse received help with any ADLs or IADLs from their relatives. SwRRCAREHR indicates the number of hours per day the respondent's spouse receives help with any ADLs or IADLs from their relatives. SwRRCAREPD indicates whether the respondent's spouse's relatives are paid to help the respondent's spouse with any ADLs or IADLs. SwRARCARE, SwRIRCARE, SwRRCARE, SwRRCAREN, SwRRCAREDPM, SwRRCAREHR, and SwRRCAREPD are taken from the spouse's values to RWRARCARE, RWRIRCARE, RWRRCARE, RWRRCAREN, RWRRCAREDPM, RWRRCAREHR, and RWRRCAREPD, respectively. In addition to the special missing values used in RWRARCARE, RWRIRCARE, RWRRCARE, RWRRCAREN, RWRRCAREDPM, RWRRCAREHR, and RWRRCAREPD, SwRARCARE, SwRIRCARE, SwRRCARE, SwRRCAREN, SwRRCAREDPM, SwRRCAREHR, and SwRRCAREPD employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Wave 1, CHARLS does not ask who helps the respondent with each activity separately.

At Wave 2, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of all people who help them with each activity separately.

At Waves 3 and 4, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Waves 3 and 4, CHARLS does not ask who helps the respondent with each activity separately. If the respondent reports receiving help from a sibling, then they are asked which family the sibling is from. After indicating the family, they are asked specifically who helps from the sibling's family and are given the following options: himself/herself, his/her spouse, his/her children.

At Waves 1 and 2, for each helper reported, the respondent is asked to also report the number of days in the last month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

At Wave 3, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they are asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

Starting at Wave 4, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per



day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help and the number of hours per day they received help.

Due to the way the questions were asked and the data is stored, we are not able to calculate the days per month, hours per day, or whether or not paid, for relative helpers at Wave 2.

### Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RWRRCAREDPW which indicates the number of days per week the respondent receives help from their relatives. The Harmonized CHARLS includes RWRCCAREDPM which indicates the number of days in the past month the respondent received help from their relatives.

The Harmonized HRS includes missing counts for the days of help and hours of help, given in RWRRCAREDPWM and RWRRCAREHRM, for all available waves. While these missing counts can be accurately created in the Harmonized CHARLS at Wave 1, they cannot be accurately created started in Wave 2, and so are not included in the Harmonized CHARLS.

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

### CHARLS Variables Used:

#### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties

DB022S12 Children Helps You Often With Functional Difficulties  
 DB022S13 Children Helps You Often With Functional Difficulties  
 DB022S14 Children Helps You Often With Functional Difficulties  
 DB022S15 Children Helps You Often With Functional Difficulties  
 DB022S16 Children Helps You Often With Functional Difficulties  
 DB022S17 Children Helps You Often With Functional Difficulties  
 DB022S18 Children Helps You Often With Functional Difficulties  
 DB022S19 Children Helps You Often With Functional Difficulties  
 DB022S2 Mother Helps You Often With Functional Difficulties  
 DB022S20 Children Helps You Often With Functional Difficulties  
 DB022S21 Children Helps You Often With Functional Difficulties  
 DB022S22 Children Helps You Often With Functional Difficulties  
 DB022S23 Children Helps You Often With Functional Difficulties  
 DB022S24 Children Helps You Often With Functional Difficulties  
 DB022S25 Children Helps You Often With Functional Difficulties  
 DB022S26 Children Helps You Often With Functional Difficulties  
 DB022S27 Children Helps You Often With Functional Difficulties  
 DB022S28 Children Helps You Often With Functional Difficulties  
 DB022S29 Children Helps You Often With Functional Difficulties  
 DB022S3 Father Helps You Often With Functional Difficulties  
 DB022S30 Children Helps You Often With Functional Difficulties  
 DB022S31 Sibling Helps You Often With Functional Difficulties  
 DB022S32 Sibling of Spouse Helps You Often With Functional Difficulties  
 DB022S33 Brother-in-law,Sister in law Helps You Often With Functional Di  
 DB022S34 Children's Spouse Helps You Often With Functional Difficulties  
 DB022S35 Grandchild Helps You Often With Functional Difficulties  
 DB022S36 Other Relative Helps You Often With Functional Difficulties  
 DB022S37 Paid Helper Helps You Often With Functional Difficulties  
 DB022S38 Volunteer Helps You Often With Functional Difficulties  
 DB022S39 Other Helps You Often With Functional Difficulties  
 DB022S4 Mother-in-law Helps You Often With Functional Difficulties  
 DB022S40 No One Helps You Often With Functional Difficulties  
 DB022S5 Father-in-law Helps You Often With Functional Difficulties  
 DB022S6 Children Helps You Often With Functional Difficulties  
 DB022S7 Children Helps You Often With Functional Difficulties  
 DB022S8 Children Helps You Often With Functional Difficulties  
 DB022S9 Children Helps You Often With Functional Difficulties  
 DB023\_2\_ How Many Days Did Mother Help You LM  
 DB023\_31\_ How Many Days Did Sibling Help You LM  
 DB023\_32\_ How Many Days Did Sibling of Spouse Help You LM  
 DB023\_33\_ How Many Days Did Brother-in-law,Sister in law Help You LM  
 DB023\_36\_ How Many Days Did Other Relative Help You LM  
 DB023\_4\_ How Many Days Did Mother-in-law Help You LM  
 DB023\_5\_ How Many Days Did Father-in-law Help You LM  
 DB024\_2\_ How Many Hours Per Day Did Mother Help You LM  
 DB024\_31\_ How Many Hours Per Day Did Sibling Help You LM  
 DB024\_32\_ How Many Hours Per Day Did Sibling of Spouse Help You LM  
 DB024\_33\_ How Many Hours Per Day Did Brother-in-law,Sister in law Help Yo  
 DB024\_36\_ How Many Hours Per Day Did Other Relative Help You LM  
 DB024\_4\_ How Many Hours Per Day Did Mother-in-law Help You LM  
 DB024\_5\_ How Many Hours Per Day Did Father-in-law Help You LM  
 DB026\_2\_ Is Mother Paid to Help You  
 DB026\_31\_ Is Sibling Paid to Help You  
 DB026\_32\_ Is Sibling of Spouse Paid to Help You  
 DB026\_33\_ Is Brother-in-law,Sister in law Paid to Help You  
 DB026\_36\_ Is Other Relative Paid to Help You  
 DB026\_4\_ Is Mother-in-law Paid to Help You  
 DB026\_5\_ Is Father-in-law Paid to Help You

## Wave 2:

DA001 Self Assessed Health Status (Excellent)  
 DA002 Self Assessed Health Status (Very Good)  
 DA003 Any Pain on The Left Side of Chest  
 DA004 Any Pains When Climbing Stairs or  
 DA005\_1\_ Physical Disabilities  
 DA005\_2\_ Brain Damage/Mental Retardation  
 DA005\_3\_ Vision Problem  
 DA005\_4\_ Hearing Problem  
 DA005\_5\_ Speech Impediment  
 DA007\_10\_ Have Been Diagnosed of Disease

DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W2_1_1_S3	Who Help You Most with Dressing/Bathing etc.? Mother
DB022_W2_1_1_S4	Who Help You Most with Dressing/Bathing etc.? Father
DB022_W2_1_1_S5	Who Help You Most with Dressing/Bathing etc.? Mother-in-Law
DB022_W2_1_1_S57	Who Help You Most with Dressing/Bathing etc.? Sibling
DB022_W2_1_1_S58	Who Help You Most with Dressing/Bathing etc.? Sibling of Spouse
DB022_W2_1_1_S59	Who Help You Most with Dressing/Bathing etc.? Brother-in-Law, S
DB022_W2_1_1_S6	Who Help You Most with Dressing/Bathing etc.? Father-in-Law
DB022_W2_1_1_S62	Who Help You Most with Dressing/Bathing etc.? Oher Relative
DB022_W2_1_2_S3	Who Help You Most with Dressing/Bathing etc.? Mother
DB022_W2_1_2_S4	Who Help You Most with Dressing/Bathing etc.? Father
DB022_W2_1_2_S5	Who Help You Most with Dressing/Bathing etc.? Mother-in-Law
DB022_W2_1_2_S57	Who Help You Most with Dressing/Bathing etc.? Sibling
DB022_W2_1_2_S58	Who Help You Most with Dressing/Bathing etc.? Sibling of Spouse
DB022_W2_1_2_S59	Who Help You Most with Dressing/Bathing etc.? Brother-in-Law, S
DB022_W2_1_2_S6	Who Help You Most with Dressing/Bathing etc.? Father-in-Law

DB022_W2_1_2_S62	Who Help You Most with Dressing/Bathing etc.?	Oher Relative
DB022_W2_1_3_S3	Who Help You Most with Dressing/Bathing etc.?	Mother
DB022_W2_1_3_S4	Who Help You Most with Dressing/Bathing etc.?	Father
DB022_W2_1_3_S5	Who Help You Most with Dressing/Bathing etc.?	Mother-in-Law
DB022_W2_1_3_S57	Who Help You Most with Dressing/Bathing etc.?	Sibling
DB022_W2_1_3_S58	Who Help You Most with Dressing/Bathing etc.?	Sibling of Spouse
DB022_W2_1_3_S59	Who Help You Most with Dressing/Bathing etc.?	Brother-in-Law, S
DB022_W2_1_3_S6	Who Help You Most with Dressing/Bathing etc.?	Father-in-Law
DB022_W2_1_3_S62	Who Help You Most with Dressing/Bathing etc.?	Oher Relative
DB022_W2_5_1_S3	Who Help You Most with Shopping etc.?	Mother
DB022_W2_5_1_S4	Who Help You Most with Shopping etc.?	Father
DB022_W2_5_1_S5	Who Help You Most with Shopping etc.?	Mother-in-Law
DB022_W2_5_1_S57	Who Help You Most with Shopping etc.?	Sibling
DB022_W2_5_1_S58	Who Help You Most with Shopping etc.?	Sibling of Spouse
DB022_W2_5_1_S59	Who Help You Most with Shopping etc.?	Brother-in-Law, Sister-in
DB022_W2_5_1_S6	Who Help You Most with Shopping etc.?	Father-in-Law
DB022_W2_5_1_S62	Who Help You Most with Shopping etc.?	Oher Relative
DB022_W2_5_2_S3	Who Help You Most with Shopping etc.?	Mother
DB022_W2_5_2_S4	Who Help You Most with Shopping etc.?	Father
DB022_W2_5_2_S5	Who Help You Most with Shopping etc.?	Mother-in-Law
DB022_W2_5_2_S57	Who Help You Most with Shopping etc.?	Sibling
DB022_W2_5_2_S58	Who Help You Most with Shopping etc.?	Sibling of Spouse
DB022_W2_5_2_S59	Who Help You Most with Shopping etc.?	Brother-in-Law, Sister-in
DB022_W2_5_2_S6	Who Help You Most with Shopping etc.?	Father-in-Law
DB022_W2_5_2_S62	Who Help You Most with Shopping etc.?	Oher Relative
DB022_W2_5_3_S3	Who Help You Most with Shopping etc.?	Mother
DB022_W2_5_3_S4	Who Help You Most with Shopping etc.?	Father
DB022_W2_5_3_S5	Who Help You Most with Shopping etc.?	Mother-in-Law
DB022_W2_5_3_S57	Who Help You Most with Shopping etc.?	Sibling
DB022_W2_5_3_S58	Who Help You Most with Shopping etc.?	Sibling of Spouse
DB022_W2_5_3_S59	Who Help You Most with Shopping etc.?	Brother-in-Law, Sister-in
DB022_W2_5_3_S6	Who Help You Most with Shopping etc.?	Father-in-Law
DB022_W2_5_3_S62	Who Help You Most with Shopping etc.?	Oher Relative
DB022_W2_5_4_S3	Who Help You Most with Shopping etc.?	Mother
DB022_W2_5_4_S4	Who Help You Most with Shopping etc.?	Father
DB022_W2_5_4_S5	Who Help You Most with Shopping etc.?	Mother-in-Law
DB022_W2_5_4_S57	Who Help You Most with Shopping etc.?	Sibling
DB022_W2_5_4_S58	Who Help You Most with Shopping etc.?	Sibling of Spouse
DB022_W2_5_4_S59	Who Help You Most with Shopping etc.?	Brother-in-Law, Sister-in
DB022_W2_5_4_S6	Who Help You Most with Shopping etc.?	Father-in-Law
DB022_W2_5_4_S62	Who Help You Most with Shopping etc.?	Oher Relative
DB022_W2_5_5_S3	Who Help You Most with Shopping etc.?	Mother
DB022_W2_5_5_S4	Who Help You Most with Shopping etc.?	Father
DB022_W2_5_5_S5	Who Help You Most with Shopping etc.?	Mother-in-Law
DB022_W2_5_5_S57	Who Help You Most with Shopping etc.?	Sibling
DB022_W2_5_5_S58	Who Help You Most with Shopping etc.?	Sibling of Spouse
DB022_W2_5_5_S59	Who Help You Most with Shopping etc.?	Brother-in-Law, Sister-in
DB022_W2_5_5_S6	Who Help You Most with Shopping etc.?	Father-in-Law
DB022_W2_5_5_S62	Who Help You Most with Shopping etc.?	Oher Relative
DB022_W2_9_1_S3	Who Help You Manage Your Money?	Mother
DB022_W2_9_1_S4	Who Help You Manage Your Money?	Father
DB022_W2_9_1_S5	Who Help You Manage Your Money?	Mother-in-Law
DB022_W2_9_1_S57	Who Help You Manage Your Money?	Sibling
DB022_W2_9_1_S58	Who Help You Manage Your Money?	Sibling of Spouse
DB022_W2_9_1_S59	Who Help You Manage Your Money?	Brother-in-Law, Sister-in-Law
DB022_W2_9_1_S6	Who Help You Manage Your Money?	Father-in-Law
DB022_W2_9_1_S62	Who Help You Manage Your Money?	Oher Relative
DB022_W2_9_2_S3	Who Help You Manage Your Money?	Mother
DB022_W2_9_2_S4	Who Help You Manage Your Money?	Father
DB022_W2_9_2_S5	Who Help You Manage Your Money?	Mother-in-Law
DB022_W2_9_2_S57	Who Help You Manage Your Money?	Sibling
DB022_W2_9_2_S58	Who Help You Manage Your Money?	Sibling of Spouse
DB022_W2_9_2_S59	Who Help You Manage Your Money?	Brother-in-Law, Sister-in-Law
DB022_W2_9_2_S6	Who Help You Manage Your Money?	Father-in-Law
DB022_W2_9_2_S62	Who Help You Manage Your Money?	Oher Relative
DB035_W2	Whether Need Help Make Telephone Calls	
ZDA007_10_	Chronic Disease	
ZDA007_11_	Chronic Disease	
ZDA007_12_	Chronic Disease	

ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease
Wave 3:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet



DB023_W3_5_9_S1	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_9_S2	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_5_9_S3	Helper From Sibling, Brother-in-law, Sister-in-law, etc.
DB023_W3_6	Who Help You Most
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB022_W3_1_S2	Helper[2]
DB022_W3_1_S4	Helper[4]
DB022_W3_1_S5	Helper[5]
DB023_10_	Days Helper[10] Helped
DB023_11_	Days Helper[11] Helped
DB023_12_	Days Helper[12] Helped
DB023_13_	Days Helper[13] Helped
DB023_14_	Days Helper[14] Helped
DB023_15_	Days Helper[15] Helped
DB023_16_	Days Helper[16] Helped
DB023_17_	Days Helper[17] Helped
DB023_18_	Days Helper[18] Helped
DB023_19_	Days Helper[19] Helped
DB023_1_	Days Helper[1] Helped
DB023_20_	Days Helper[20] Helped

DB023_21_	Days Helper[21]	Helped
DB023_22_	Days Helper[22]	Helped
DB023_23_	Days Helper[23]	Helped
DB023_24_	Days Helper[24]	Helped
DB023_25_	Days Helper[25]	Helped
DB023_26_	Days Helper[26]	Helped
DB023_27_	Days Helper[27]	Helped
DB023_28_	Days Helper[28]	Helped
DB023_29_	Days Helper[29]	Helped
DB023_2_	Days Helper[2]	Helped
DB023_30_	Days Helper[30]	Helped
DB023_31_	Days Helper[31]	Helped
DB023_32_	Days Helper[32]	Helped
DB023_33_	Days Helper[33]	Helped
DB023_34_	Days Helper[34]	Helped
DB023_3_	Days Helper[3]	Helped
DB023_4_	Days Helper[4]	Helped
DB023_5_	Days Helper[5]	Helped
DB023_6_	Days Helper[6]	Helped
DB023_7_	Days Helper[7]	Helped
DB023_8_	Days Helper[8]	Helped
DB023_9_	Days Helper[9]	Helped
DB023_W3_1_S1	Who Help the Most	
DB023_W3_1_S2	Who Help the Most	
DB023_W3_1_S3	Who Help the Most	
DB023_W3_1_S4	Who Help the Most	
DB023_W3_5_1_16_	Number of Children Help	
DB023_W3_5_1_17_	Number of Children Help	
DB023_W3_5_1_18_	Number of Children Help	
DB023_W3_5_1_19_	Number of Children Help	
DB023_W3_5_1_1_	Number of Children Help	
DB023_W3_5_1_20_	Number of Children Help	
DB023_W3_5_1_21_	Number of Children Help	
DB023_W3_5_1_22_	Number of Children Help	
DB023_W3_5_1_2_	Number of Children Help	
DB023_W3_5_1_3_	Number of Children Help	
DB023_W3_5_1_4_	Number of Children Help	
DB023_W3_5_1_5_	Number of Children Help	
DB023_W3_5_1_6_	Number of Children Help	
DB023_W3_5_1_7_	Number of Children Help	
DB023_W3_6_	Number of Relatives Help	in Person
DB023_W3_9_S1	Most Important 7 Helpers	
DB023_W3_9_S10	Most Important 7 Helpers	
DB023_W3_9_S11	Most Important 7 Helpers	
DB023_W3_9_S12	Most Important 7 Helpers	
DB023_W3_9_S13	Most Important 7 Helpers	
DB023_W3_9_S14	Most Important 7 Helpers	
DB023_W3_9_S15	Most Important 7 Helpers	
DB023_W3_9_S16	Most Important 7 Helpers	
DB023_W3_9_S17	Most Important 7 Helpers	
DB023_W3_9_S18	Most Important 7 Helpers	
DB023_W3_9_S19	Most Important 7 Helpers	
DB023_W3_9_S2	Most Important 7 Helpers	
DB023_W3_9_S20	Most Important 7 Helpers	
DB023_W3_9_S21	Most Important 7 Helpers	
DB023_W3_9_S22	Most Important 7 Helpers	
DB023_W3_9_S23	Most Important 7 Helpers	
DB023_W3_9_S24	Most Important 7 Helpers	
DB023_W3_9_S25	Most Important 7 Helpers	
DB023_W3_9_S26	Most Important 7 Helpers	
DB023_W3_9_S27	Most Important 7 Helpers	
DB023_W3_9_S28	Most Important 7 Helpers	
DB023_W3_9_S29	Most Important 7 Helpers	
DB023_W3_9_S3	Most Important 7 Helpers	
DB023_W3_9_S30	Most Important 7 Helpers	
DB023_W3_9_S31	Most Important 7 Helpers	
DB023_W3_9_S32	Most Important 7 Helpers	
DB023_W3_9_S33	Most Important 7 Helpers	
DB023_W3_9_S34	Most Important 7 Helpers	



DB023_W3_9_S4	Most Important	7	Helpers
DB023_W3_9_S5	Most Important	7	Helpers
DB023_W3_9_S6	Most Important	7	Helpers
DB023_W3_9_S7	Most Important	7	Helpers
DB023_W3_9_S8	Most Important	7	Helpers
DB023_W3_9_S9	Most Important	7	Helpers
DB024_10_	Hours Helper	[10]	Helped
DB024_11_	Hours Helper	[11]	Helped
DB024_12_	Hours Helper	[12]	Helped
DB024_13_	Hours Helper	[13]	Helped
DB024_14_	Hours Helper	[14]	Helped
DB024_15_	Hours Helper	[15]	Helped
DB024_16_	Hours Helper	[16]	Helped
DB024_17_	Hours Helper	[17]	Helped
DB024_18_	Hours Helper	[18]	Helped
DB024_19_	Hours Helper	[19]	Helped
DB024_1_	Hours Helper	[1]	Helped
DB024_20_	Hours Helper	[20]	Helped
DB024_21_	Hours Helper	[21]	Helped
DB024_22_	Hours Helper	[22]	Helped
DB024_23_	Hours Helper	[23]	Helped
DB024_24_	Hours Helper	[24]	Helped
DB024_25_	Hours Helper	[25]	Helped
DB024_26_	Hours Helper	[26]	Helped
DB024_27_	Hours Helper	[27]	Helped
DB024_28_	Hours Helper	[28]	Helped
DB024_29_	Hours Helper	[29]	Helped
DB024_2_	Hours Helper	[2]	Helped
DB024_30_	Hours Helper	[30]	Helped
DB024_31_	Hours Helper	[31]	Helped
DB024_32_	Hours Helper	[32]	Helped
DB024_33_	Hours Helper	[33]	Helped
DB024_34_	Hours Helper	[34]	Helped
DB024_3_	Hours Helper	[3]	Helped
DB024_4_	Hours Helper	[4]	Helped
DB024_5_	Hours Helper	[5]	Helped
DB024_6_	Hours Helper	[6]	Helped
DB024_7_	Hours Helper	[7]	Helped
DB024_8_	Hours Helper	[8]	Helped
DB024_9_	Hours Helper	[9]	Helped
DB035_W2	Anyone Ever		Helped
ZDISABILITY_1_	Had Disability	[1]	Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability	[2]	Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability	[3]	Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability	[4]	Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability	[5]	Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease	[10]	at ZIWTime
ZDISEASE_11_	Had Disease	[11]	at ZIWTime
ZDISEASE_12_	Had Disease	[12]	at ZIWTime
ZDISEASE_13_	Had Disease	[13]	at ZIWTime
ZDISEASE_14_	Had Disease	[14]	at ZIWTime
ZDISEASE_1_	Had Disease	[1]	at ZIWTime
ZDISEASE_2_	Had Disease	[2]	at ZIWTime
ZDISEASE_3_	Had Disease	[3]	at ZIWTime
ZDISEASE_4_	Had Disease	[4]	at ZIWTime
ZDISEASE_5_	Had Disease	[5]	at ZIWTime
ZDISEASE_6_	Had Disease	[6]	at ZIWTime
ZDISEASE_7_	Had Disease	[7]	at ZIWTime
ZDISEASE_8_	Had Disease	[8]	at ZIWTime
ZDISEASE_9_	Had Disease	[9]	at ZIWTime

<b>Receives Informal Care from Non-Relatives</b>
--

Wave	Variable	Label	Type
2	R2RAFCARE	r2rafcare:w2 r receives informal care from non-relatives for	Categ
2	S2RAFCARE	s2rafcare:w2 s receives informal care from non-relatives for	Categ
2	R2RIFCARE	r2rifcare:w2 r receives informal care from non-relatives for	Categ
2	S2RIFCARE	s2rifcare:w2 s receives informal care from non-relatives for	Categ
1	R1RFCARE	r1rfcare:w1 r receives informal care from non-relatives for	Categ
2	R2RFCARE	r2rfcare:w2 r receives informal care from non-relatives for	Categ
3	R3RFCARE	r3rfcare:w3 r receives informal care from non-relatives for	Categ
4	R4RFCARE	r4rfcare:w4 r receives informal care from non-relatives for	Categ
1	S1RFCARE	s1rfcare:w1 s receives informal care from non-relatives for	Categ
2	S2RFCARE	s2rfcare:w2 s receives informal care from non-relatives for	Categ
3	S3RFCARE	s3rfcare:w3 s receives informal care from non-relatives for	Categ
4	S4RFCARE	s4rfcare:w4 s receives informal care from non-relatives for	Categ
3	R3RFCAREN	r3rfcaren:w3 number of non-relatives who help r with adls/ia	Cont
4	R4RFCAREN	r4rfcaren:w4 number of non-relatives who help r with adls/ia	Cont
3	S3RFCAREN	s3rfcaren:w3 number of non-relatives who help s with adls/ia	Cont
4	S4RFCAREN	s4rfcaren:w4 number of non-relatives who help s with adls/ia	Cont
1	R1RFCAREDPM	r1rfcaredpm:w1 r days/month receives care from non-relatives	Cont
3	R3RFCAREDPM	r3rfcaredpm:w3 r days/month receives care from non-relatives	Cont
1	S1RFCAREDPM	s1rfcaredpm:w1 s days/month receives care from non-relatives	Cont
3	S3RFCAREDPM	s3rfcaredpm:w3 s days/month receives care from non-relatives	Cont
1	R1RFCAREHR	r1rfcarehr:w1 r hours/day receives care from non-relatives f	Cont
3	R3RFCAREHR	r3rfcarehr:w3 r hours/day receives care from non-relatives f	Cont
1	S1RFCAREHR	s1rfcarehr:w1 s hours/day receives care from non-relatives f	Cont
3	S3RFCAREHR	s3rfcarehr:w3 s hours/day receives care from non-relatives f	Cont
1	R1RFCAREPD	r1rfcarepd:w1 r whether non-relative is paid for care for ad	Categ
3	R3RFCAREPD	r3rfcarepd:w3 r whether non-relative is paid for care for ad	Categ
1	S1RFCAREPD	s1rfcarepd:w1 s whether non-relative is paid for care for ad	Categ
3	S3RFCAREPD	s3rfcarepd:w3 s whether non-relative is paid for care for ad	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RAFCARE	969	0.04	0.19	0.00	1.00
S2RAFCARE	729	0.03	0.17	0.00	1.00
R2RIFCARE	3524	0.06	0.23	0.00	1.00
S2RIFCARE	2746	0.04	0.20	0.00	1.00
R1RFCARE	2230	0.02	0.14	0.00	1.00
R2RFCARE	3669	0.06	0.24	0.00	1.00
R3RFCARE	4087	0.04	0.20	0.00	1.00
R4RFCARE	3989	0.05	0.23	0.00	1.00
S1RFCARE	1712	0.01	0.12	0.00	1.00
S2RFCARE	2862	0.05	0.21	0.00	1.00
S3RFCARE	3142	0.03	0.17	0.00	1.00
S4RFCARE	2997	0.04	0.19	0.00	1.00

R3RFCAREN	4060	0.07	0.69	0.00	20.00
R4RFCAREN	3989	0.13	0.75	0.00	15.00
S3RFCAREN	3127	0.06	0.59	0.00	20.00
S4RFCAREN	2997	0.08	0.53	0.00	10.00
R1RFCAREDPM	2226	0.27	2.58	0.00	30.00
R3RFCAREDPM	4106	0.10	1.41	0.00	30.00
S1RFCAREDPM	1710	0.12	1.57	0.00	30.00
S3RFCAREDPM	3181	0.07	1.11	0.00	30.00
R1RFCAREHR	2227	0.07	0.77	0.00	24.00
R3RFCAREHR	4097	0.03	0.30	0.00	8.00
S1RFCAREHR	1710	0.03	0.42	0.00	11.00
S3RFCAREHR	3175	0.02	0.25	0.00	6.00
R1RFCAREPD	2229	0.00	0.02	0.00	1.00
R3RFCAREPD	3999	0.00	0.02	0.00	1.00
S1RFCAREPD	1711	0.00	0.00	0.00	0.00
S3RFCAREPD	3096	0.00	0.00	0.00	0.00

**Categorical Variable Codes**

Value-----	R2RAFCARE
.a:Healthy and young	114
.h:No help received	1991
.m:missing	257
.x:No difficulty	15281
0.No	933
1.Yes	36

Value-----	S2RAFCARE
.a:Healthy and young	104
.h:No help received	1491
.m:missing	131
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	13125
0.No	707
1.Yes	22

Value-----	R2RIFCARE
.h:No help received	1188
.m:missing	236
.x:No difficulty	13664
0.No	3329
1.Yes	195

Value-----	S2RIFCARE
.h:No help received	845
.m:missing	109
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	11880
0.No	2635
1.Yes	111

Value-----	R1RFCARE	R2RFCARE	R3RFCARE	R4RFCARE
.a:Healthy and young	3		1	1
.d:dk	6			
.h:No help received	367	1947	2448	2172
.m:missing	217	234	187	93
.x:No difficulty	14885	12762	14374	13561

0.No	2184	3447	3921	3775
1.Yes	46	222	166	214
Value-----	S1RFCARE	S2RFCARE	S3RFCARE	S4RFCARE
.a:Healthy and young	1		1	
.d:dk	4			
.h:No help received	258	1449	1871	1584
.m:missing	110	107	70	21
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:No difficulty	12825	11162	12640	11760
0.No	1689	2732	3049	2883
1.Yes	23	130	93	114
Value-----	R1RFCAREPD		R3RFCAREPD	
.a:Healthy and young	3		1	
.d:dk	1			
.h:No help received	367		2451	
.m:missing	223		269	
.x:No difficulty	14885		14377	
0.No	2228		3998	
1.Yes	1		1	
Value-----	S1RFCAREPD		S3RFCAREPD	
.a:Healthy and young	1		1	
.d:dk	1			
.h:No help received	258		1874	
.m:missing	114		110	
.u:unmar	2260		2719	
.v:sp nr	538		650	
.x:No difficulty	12825		12643	
0.No	1711		3096	

### How Constructed:

The following variables include help received from non-relatives, which includes help from "other" person.

RwRAFCARE indicates whether non-relatives help the respondent with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRAFCARE is assigned 0 if the respondent does not report that non-relatives help them with any ADLs. RwRAFCARE is assigned 1 if the respondent reports that non-relatives help them with at least one ADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRAFCARE is only available in Wave 2.

RwRIFCARE indicates whether non-relatives help the respondent with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRIFCARE is assigned 0 if the respondent does not report that non-relatives help them with any IADLs. RwRIFCARE is assigned 1 if the respondent reports that non-relatives help them with at least one IADL. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRIFCARE is only available in Wave 2.

RwRFCARE indicates whether non-relatives help the respondent with any ADLs or IADLs. RwRFCARE is assigned 0 if the respondent does not report that non-relatives help them with any ADLs or IADLs. RwRFCARE is assigned 1 if the respondent reports that non-relatives help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question.

RwRFCAREN indicates the number of non-relatives who help the respondent with any ADLs or IADLs. RwRFCAREN is assigned 0 if the respondent does not receive help from any non-relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRFCAREN is available starting in Wave 3.

RwRFCAREDPM indicates the number of days in the last month the respondent received help with any ADLs or IADLs from non-relatives. RwRFCAREDPM is assigned 0 if the respondent did not receive any help from non-relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRFCAREDPM is available in Waves 1 and 3.

RwRFCAREHR indicates the number hours per day the respondent receives help with ADLs or IADLs from non-relatives. RwRFCAREHR is assigned 0 if the respondent did not receive any help from non-relatives. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRFCAREHR is available in Waves 1 and 3.

RwRFCAREPD indicates whether non-relatives are paid to help the respondent with ADLs or IADLs. RwRFCAREPD is assigned 0 if the respondent does not report that non-relatives are paid to help them with any ADLs or IADLs or reports that non-relatives do not help the respondent. RwRFCAREPD is assigned 1 if the respondent reports that relatives are paid to help them with any ADLs or IADLs. Starting at Wave 4, respondents are not asked whether non-relatives are paid to help them with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. RwRFCAREPD is available in Waves 1 and 3.

Special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRAFCARE indicates whether non-relatives help the respondent's spouse with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. SwRIFCARE indicates whether non-relatives help the respondent's spouse with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. SwRFCARE indicates whether non-relatives help the respondent's spouse with any ADLs or IADLs. SwRFCAREN indicates the number of non-relatives who help the respondent's spouse with any ADLs or IADLs. SwRFCAREDPM indicates the number of days in the last month the respondent's spouse received help with any ADLs or IADLs from non-relatives. SwRFCAREHR indicates the number hours per day the respondent's spouse receives help with ADLs or IADLs from non-relatives. SwRFCAREPD indicates whether non-relatives are paid to help the respondent's spouse with ADLs or IADLs. SwRAFCARE, SwRIFCARE, SwRFCARE, SwRFCAREN, SwRFCAREDPM, SwRFCAREHR, and SwRFCAREPD are taken from the spouse's values to RwRAFCARE, RwRIFCARE, RwRFCARE, RwRFCAREN, RwRFCAREDPM, RwRFCAREHR, and RwRFCAREPD, respectively. In addition to the special missing values used in RwRAFCARE, RwRIFCARE, RwRFCARE, RwRFCAREN, RwRFCAREDPM, RwRFCAREHR, and RwRFCAREPD, SwRAFCARE, SwRIFCARE, SwRFCARE, SwRFCAREN, SwRFCAREDPM, SwRFCAREHR, and SwRFCAREPD employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1, 3, and 4, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Waves 1, 3, and 4, CHARLS does not ask who helps the respondent with each activity separately.

At Wave 2, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of all people who help them with each activity separately.

At Waves 1 and 2, for each helper reported, the respondent is asked to also report the number of days in the last month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

At Wave 3, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the

respondent. If the respondent reports more than 7 helpers, they asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

Starting at Wave 4, if the respondent reports 7 or fewer helpers, they are then asked to report the number of days in the past month they received help from each helper, the number of hours per day they received help from each helper, and whether or not each helper was paid for providing help to the respondent. If the respondent reports more than 7 helpers, they asked to report the 7 most important helpers. For each important helper reported, the respondent is asked to also report the number of days in the past month the respondent received help and the number of hours per day they received help. However, the respondent is not asked about the number of days or hours non-relatives provided help starting in Wave 4.

Due to the way the questions are asked and the data is stored, we are not able to calculate the number of non-relative helpers at Waves 1 and 2.

Due to the way the questions were asked and the data is stored, we are not able to calculate the days per month, hours per day, or whether or not paid, for non-relative helpers at Wave 2.

### Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwrFCAREDPW which indicates the number of days per week the respondent receives help from non-relatives. The Harmonized CHARLS includes RwrFCAREDPM which indicates the number of days in the past month the respondent received help from non-relatives.

The Harmonized HRS includes missing counts for the days of help and hours of help, given in RwrFCAREDPWM and RwrFCAREHRM, for all available waves. While these missing counts can be accurately created in the Harmonized CHARLS at Wave 1, they cannot be accurately created started in Wave 2, and so are not included in the Harmonized CHARLS.

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

### CHARLS Variables Used:

#### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr

DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_39_	How Many Days Did Other Help You LM
DB024_39_	How Many Hours Per Day Did Other Help You LM
DB026_39_	Is Other Paid to Help You

## Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease

DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W2_1_1_S66	Who Help You Most with Dressing/Bathing etc.? Other
DB022_W2_1_2_S66	Who Help You Most with Dressing/Bathing etc.? Other
DB022_W2_1_3_S66	Who Help You Most with Dressing/Bathing etc.? Other
DB022_W2_5_1_S66	Who Help You Most with Shopping etc.? Other
DB022_W2_5_2_S66	Who Help You Most with Shopping etc.? Other
DB022_W2_5_3_S66	Who Help You Most with Shopping etc.? Other
DB022_W2_5_4_S66	Who Help You Most with Shopping etc.? Other
DB022_W2_5_5_S66	Who Help You Most with Shopping etc.? Other
DB022_W2_9_1_S66	Who Help You Manage Your Money? Other
DB022_W2_9_2_S66	Who Help You Manage Your Money? Other
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease



ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease
Wave 3:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_w2_1_10_	Verify Disease Record
DA007_w2_1_11_	Verify Disease Record
DA007_w2_1_12_	Verify Disease Record
DA007_w2_1_13_	Verify Disease Record
DA007_w2_1_14_	Verify Disease Record
DA007_w2_1_1_	Verify Disease Record
DA007_w2_1_2_	Verify Disease Record
DA007_w2_1_3_	Verify Disease Record
DA007_w2_1_4_	Verify Disease Record
DA007_w2_1_5_	Verify Disease Record
DA007_w2_1_6_	Verify Disease Record
DA007_w2_1_7_	Verify Disease Record
DA007_w2_1_8_	Verify Disease Record
DA007_w2_1_9_	Verify Disease Record
DA007_w2_2_10_	Doctor Told Disease
DA007_w2_2_11_	Doctor Told Disease
DA007_w2_2_12_	Doctor Told Disease
DA007_w2_2_13_	Doctor Told Disease
DA007_w2_2_14_	Doctor Told Disease
DA007_w2_2_1_	Doctor Told Disease
DA007_w2_2_2_	Doctor Told Disease
DA007_w2_2_3_	Doctor Told Disease
DA007_w2_2_4_	Doctor Told Disease
DA007_w2_2_5_	Doctor Told Disease
DA007_w2_2_6_	Doctor Told Disease
DA007_w2_2_7_	Doctor Told Disease
DA007_w2_2_8_	Doctor Told Disease
DA007_w2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_w2	Whether Need Help Dress
DB011_w2	Whether Need Help Bathe
DB012_w2	Whether Need Help Eat
DB013_w2	Whether Need Help Get in or Out of Bed
DB014_w2	Whether Need Help Use The Toilet
DB016_w2	Does Anyone Help You Prepare Hot Meals
DB017_w2	Does Anyone Help You Prepare Hot Meals
DB018_w2	Does Anyone Help You Shop for Groceries?
DB019_w2	Does Anyone Help You Take Medications?
DB020_w2	Does Anyone Help You Take Medications?
DB022_w3_1S10	Who Help You Most
DB023_w3_7	Who Help You Most
DB035_w2	Whether Need Help Make Telephone Calls

ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease
Wave 4:	
DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB022_W3_1_S10	Helper[10]
DB023_W3_7	Number of Others Who Help in Person
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime

---

ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

**Receives Formal Caregiving**

Wave	Variable	Label	Type
2	R2RAFAANY	r2rafaany:w2 r receives any formal care for adls	Categ
2	S2RAFAANY	s2rafaany:w2 s receives any formal care for adls	Categ
2	R2RIFAANY	r2rifaany:w2 r receives any formal care for iadls	Categ
2	S2RIFAANY	s2rifaany:w2 s receives any formal care for iadls	Categ
1	R1RFAANY	r1rfaany:w1 r receives any formal care for adls/iadls	Categ
2	R2RFAANY	r2rfaany:w2 r receives any formal care for adls/iadls	Categ
3	R3RFAANY	r3rfaany:w3 r receives any formal care for adls/iadls	Categ
4	R4RFAANY	r4rfaany:w4 r receives any formal care for adls/iadls	Categ
1	S1RFAANY	s1rfaany:w1 s receives any formal care for adls/iadls	Categ
2	S2RFAANY	s2rfaany:w2 s receives any formal care for adls/iadls	Categ
3	S3RFAANY	s3rfaany:w3 s receives any formal care for adls/iadls	Categ
4	S4RFAANY	s4rfaany:w4 s receives any formal care for adls/iadls	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RAFAANY	2956	0.01	0.08	0.00	1.00
S2RAFAANY	2217	0.00	0.06	0.00	1.00
R2RIFAANY	4710	0.01	0.07	0.00	1.00
S2RIFAANY	3591	0.00	0.05	0.00	1.00
R1RFAANY	2597	0.01	0.09	0.00	1.00
R2RFAANY	5611	0.00	0.07	0.00	1.00
R3RFAANY	6534	0.01	0.10	0.00	1.00
R4RFAANY	6161	0.01	0.11	0.00	1.00
S1RFAANY	1970	0.01	0.08	0.00	1.00
S2RFAANY	4308	0.00	0.05	0.00	1.00
S3RFAANY	5011	0.01	0.07	0.00	1.00
S4RFAANY	4581	0.01	0.08	0.00	1.00

**Categorical Variable Codes**

Value	R2RAFAANY
.a:Healthy and young	114
.m:missing	257
.x:No difficulty	15285
0.No	2937
1.Yes	19

Value	S2RAFAANY
.a:Healthy and young	104
.m:missing	131
.u:unmar	2401
.v:sp nr	622
.x:No difficulty	13128
0.No	2208
1.Yes	9

Value	R2RIFAANY
.m:missing	236
.x:No difficulty	13666

0.No			4686		
1.Yes			24		
Value-----			S2RIFAANY		
.m:missing			109		
.u:unmar			2401		
.v:sp nr			622		
.x:No difficulty			11880		
0.No			3581		
1.Yes			10		
Value-----	R1RFAANY	R2RFAANY	R3RFAANY	R4RFAANY	
.a:Healthy and young	3		1	1	
.d:dk	6				
.m:missing	217	234	187	93	
.x:No difficulty	14885	12767	14375	13561	
0.No	2577	5583	6474	6089	
1.Yes	20	28	60	72	
Value-----	S1RFAANY	S2RFAANY	S3RFAANY	S4RFAANY	
.a:Healthy and young	1		1		
.d:dk	4				
.m:missing	110	107	70	21	
.u:unmar	2260	2401	2719	2926	
.v:sp nr	538	622	650	517	
.x:No difficulty	12825	11165	12642	11760	
0.No	1956	4296	4985	4553	
1.Yes	14	12	26	28	

### How Constructed:

These variables include formal help. At Wave 1 this includes the following: paid helper (such as nanny), volunteer or employee of facility. At Wave 2 this includes the following: paid helper (such as nanny), volunteer or employee of facility, nursing home. At Wave 3 this includes the following: paid helper (such as nanny), volunteer or employee of facility, nursing home, community. Starting at Wave 4 this includes the following: paid helper (such as nanny), volunteer, employee of facility (nursing home), community.

RwRAFAANY indicates whether the respondent receives formal help with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. RwRAFAANY is assigned 0 if the respondent does not report receiving formal help with any ADLs or reports receiving no help with any ADLs. RwRAFAANY is assigned 1 if the respondent reports receiving formal help with at least one ADL. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs in question. RwRAFAANY is only available in Wave 2.

RwRIFAANY indicates whether the respondent receives formal help with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. RwRIFAANY is assigned 0 if the respondent does not report receiving formal help with any IADLs or reports receiving no help with any IADLs. RwRIFAANY is assigned 1 if the respondent reports receiving formal help with at least one IADL. Special missing value (.x) is assigned if the respondent reports no difficulty with the IADLs in question. RwRIFAANY is only available in Wave 2.

RwRFAANY indicates whether the respondent receives formal help with any ADLs or IADLs. RwRFAANY is assigned 0 if the respondent does not report receiving formal help with any ADLs or IADLs or reports receiving no help with any ADLs or IADLs. RwRFAANY is assigned 1 if the respondent reports receiving formal help with any ADLs or IADLs. Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLS in question.

Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRAFAANY indicates whether the respondent's spouse receives formal help with any Activities of Daily Living (ADLs), including dressing, bathing, eating, getting in/out of bed, and using the toilet. SwRIFAANY indicates whether the respondent's spouse receives formal help with any Instrumental Activities of Daily Living (IADLs), including doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, and managing money. SwRFAANY indicates whether the respondent's spouse receives any formal care for difficulties with any ADLs or IADLs. SwRAFAANY, SwRIFAANY, and SwRFAANY are taken from the spouse's values to RwRAFAANY, RwRIFAANY, and RwRFAANY, respectively. In addition to the special missing values used in RwRAFAANY, RwRIFAANY, and RwRFAANY, SwRAFAANY, SwRIFAANY, and SwRFAANY employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Waves 1, 3, and 4, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of people who help them with ADLs and/or IADLs. At Waves 1, 3, and 4, CHARLS does not ask who helps the respondent with each activity separately.

At Wave 2, if the respondent reports having difficulty with any ADLs and/or IADLs, CHARLS then asks the respondent to report the relationships of all people who help them with each activity separately.

## Differences with the RAND HRS/Harmonized HRS

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

## CHARLS Variables Used:

### Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals

DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_37_	How Many Days Did Paid Helper Help You LM
DB024_37_	How Many Hours Per Day Did Paid Helper Help You LM
DB026_37_	Is Paid Helper Paid to Help You

## Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease

DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W2_1_1_S63	Who Help You Most with Dressing/Bathing etc.? Paid Helper(Such
DB022_W2_1_1_S64	Who Help You Most with Dressing/Bathing etc.? Volunteer or Empl
DB022_W2_1_1_S65	Who Help You Most with Dressing/Bathing etc.? Nursing Home
DB022_W2_1_2_S63	Who Help You Most with Dressing/Bathing etc.? Paid Helper(Such
DB022_W2_1_2_S64	Who Help You Most with Dressing/Bathing etc.? Volunteer or Empl
DB022_W2_1_2_S65	Who Help You Most with Dressing/Bathing etc.? Nursing Home
DB022_W2_1_3_S63	Who Help You Most with Dressing/Bathing etc.? Paid Helper(Such
DB022_W2_1_3_S64	Who Help You Most with Dressing/Bathing etc.? Volunteer or Empl
DB022_W2_1_3_S65	Who Help You Most with Dressing/Bathing etc.? Nursing Home
DB022_W2_5_1_S63	Who Help You Most with Shopping etc.? Paid Helper(Such as Nanny
DB022_W2_5_1_S64	Who Help You Most with Shopping etc.? Volunteer or Employee of
DB022_W2_5_1_S65	Who Help You Most with Shopping etc.? Nursing Home
DB022_W2_5_2_S63	Who Help You Most with Shopping etc.? Paid Helper(Such as Nanny
DB022_W2_5_2_S64	Who Help You Most with Shopping etc.? Volunteer or Employee of
DB022_W2_5_2_S65	Who Help You Most with Shopping etc.? Nursing Home
DB022_W2_5_3_S63	Who Help You Most with Shopping etc.? Paid Helper(Such as Nanny
DB022_W2_5_3_S64	Who Help You Most with Shopping etc.? Volunteer or Employee of
DB022_W2_5_3_S65	Who Help You Most with Shopping etc.? Nursing Home
DB022_W2_5_4_S63	Who Help You Most with Shopping etc.? Paid Helper(Such as Nanny
DB022_W2_5_4_S64	Who Help You Most with Shopping etc.? Volunteer or Employee of
DB022_W2_5_4_S65	Who Help You Most with Shopping etc.? Nursing Home
DB022_W2_5_5_S63	Who Help You Most with Shopping etc.? Paid Helper(Such as Nanny
DB022_W2_5_5_S64	Who Help You Most with Shopping etc.? Volunteer or Employee of
DB022_W2_5_5_S65	Who Help You Most with Shopping etc.? Nursing Home
DB022_W2_9_1_S63	Who Help You Manage Your Money? Paid Helper(Such as Nanny)
DB022_W2_9_1_S64	Who Help You Manage Your Money? Volunteer or Employee of Factil
DB022_W2_9_1_S65	Who Help You Manage Your Money? Nursing Home



DB022_W2_9_2_S63	Who Help You Manage Your Money? Paid Helper(Such as Nanny)
DB022_W2_9_2_S64	Who Help You Manage Your Money? Volunteer or Employee of Factil
DB022_W2_9_2_S65	Who Help You Manage Your Money? Nursing Home
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 3:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease

DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB022_W3_1S6	Who Help You Most
DB022_W3_1S7	Who Help You Most
DB022_W3_1S8	Who Help You Most
DB022_W3_1S9	Who Help You Most
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

## Wave 4:

DA002	Self-Reported Health Status
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Diagnosed with Stomach Disease by a Doctor
DA007_11_	Diagnosed with Emotional Problems by a Doctor
DA007_12_	Diagnosed with Memory-Related Disease by a Doctor
DA007_13_	Diagnosed with Arthritis by a Doctor
DA007_14_	Diagnosed with Asthma by a Doctor
DA007_1_	Diagnosed with Hypertension by a Doctor
DA007_2_	Diagnosed with Dyslipidemia by a Doctor
DA007_3_	Diagnosed with Diabetes by a Doctor
DA007_4_	Diagnosed with Cancer by a Doctor
DA007_5_	Diagnosed with Chronic Lung Diseases by a Doctor
DA007_6_	Diagnosed with Liver Disease by a Doctor
DA007_7_	Diagnosed with Heart Attack by a Doctor
DA007_8_	Diagnosed with Stroke by a Doctor
DA007_9_	Diagnosed with Kidney disease by a Doctor
DA008_11_	Know Having Emotional Problems
DA008_1_	Know Having Hypertension
DA008_5_	Know Having Chronic Lung Disease
DA041_W4	Troubled with Body Pain
DB010_W2	Anyone Ever Helped
DB011_W2	Anyone Ever Helped
DB012_W2	Anyone Ever Helped
DB013_W2	Anyone Ever Helped
DB014_W2	Anyone Ever Helped
DB016_W2	Anyone Ever Helped
DB017_W2	Anyone Ever Helped
DB018_W2	Anyone Ever Helped
DB019_W2	Anyone Ever Helped
DB020_W2	Anyone Ever Helped
DB022_W3_1_S6	Helper[6]
DB022_W3_1_S7	Helper[7]
DB022_W3_1_S8	Helper[8]

---

DB022_W3_1_S9	Helper[9]
DB035_W2	Anyone Ever Helped
ZDISABILITY_1_	Had Disability[1] Listed in DA005 at ZIWTime
ZDISABILITY_2_	Had Disability[2] Listed in DA005 at ZIWTime
ZDISABILITY_3_	Had Disability[3] Listed in DA005 at ZIWTime
ZDISABILITY_4_	Had Disability[4] Listed in DA005 at ZIWTime
ZDISABILITY_5_	Had Disability[5] Listed in DA005 at ZIWTime
ZDISEASE_10_	Had Disease[10] at ZIWTime
ZDISEASE_11_	Had Disease[11] at ZIWTime
ZDISEASE_12_	Had Disease[12] at ZIWTime
ZDISEASE_13_	Had Disease[13] at ZIWTime
ZDISEASE_14_	Had Disease[14] at ZIWTime
ZDISEASE_1_	Had Disease[1] at ZIWTime
ZDISEASE_2_	Had Disease[2] at ZIWTime
ZDISEASE_3_	Had Disease[3] at ZIWTime
ZDISEASE_4_	Had Disease[4] at ZIWTime
ZDISEASE_5_	Had Disease[5] at ZIWTime
ZDISEASE_6_	Had Disease[6] at ZIWTime
ZDISEASE_7_	Had Disease[7] at ZIWTime
ZDISEASE_8_	Had Disease[8] at ZIWTime
ZDISEASE_9_	Had Disease[9] at ZIWTime

<b>Receives Formal Caregiving from Paid Professionals</b>
---

Wave	Variable	Label	Type
1	R1RPFCARE	rlrpfcare:w1 r receives formal care from paid caregivers for	Categ
1	S1RPFCARE	slrpfcare:w1 s receives formal care from paid caregivers for	Categ
1	R1RPFCAREDPM	rlrpfcairedpm:w1 r days/month receives care from paid caregiv	Cont
1	S1RPFCAREDPM	slrpfcairedpm:w1 s days/month receives care from paid caregiv	Cont
1	R1RPFCAREHR	rlrpfcarehr:w1 r hours/day receives care from paid caregiver	Cont
1	S1RPFCAREHR	slrpfcarehr:w1 s hours/day receives care from paid caregiver	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RPFCARE	2230	0.01	0.09	0.00	1.00
S1RPFCARE	1712	0.01	0.09	0.00	1.00
R1RPFCAREDPM	2230	0.22	2.51	0.00	30.00
S1RPFCAREDPM	1712	0.23	2.59	0.00	30.00
R1RPFCAREHR	2230	0.11	1.43	0.00	24.00
S1RPFCAREHR	1712	0.11	1.40	0.00	24.00

**Categorical Variable Codes**

Value-----	R1RPFCARE
.a:Healthy and young	3
.d:dk	6
.h:No help received	367
.m:missing	217
.x:No difficulty	14885
0.No	2212
1.Yes	18

Value-----	S1RPFCARE
.a:Healthy and young	1
.d:dk	4
.h:No help received	258
.m:missing	110
.u:unmar	2260
.v:sp nr	538
.x:No difficulty	12825
0.No	1698
1.Yes	14

**How Constructed:**

These variables include help from paid professionals. At Wave 1 this includes paid help from the following: paid helper (such as nanny), volunteer or employee of facility.

RwRPFCARE indicates whether paid professionals help the respondent with any Activities of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) or Instrumental Activities of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). RwRPFCARE is assigned 0 if the respondent does not report paid professionals help them with any ADLs or IADLS. RwrPFCARE is assigned 1 if the

respondent reports paid professionals help them with any ADLs or IADLs. RwrPFCARE is only available in Wave 1.

RwrPFCAREDPM indicates the number of days in the past month the respondent received help with any ADLs or IADLs from paid professionals. RwrPFCAREDPM is assigned 0 if the respondent did not receive any help from paid professionals. RwrPFCAREDPM is only available in Wave 1.

RwrPFCAREHR indicates the number of hours per day the respondent receives help with any ADLs or IADLs from paid professionals. RwrPFCAREHR is assigned 0 if the respondent did not receive any help from paid professionals. RwrPFCAREDPM is only available in Wave 1.

Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. Special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRPFCARE indicates whether paid professionals help the respondent's spouse with any Activities of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) or Instrumental Activities of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). SwRPFCAREDPM indicates the number of days in the past month the respondent's spouse received help with any ADLs or IADLs from paid professionals. SwRPFCAREHR indicates the number of hours per day the respondent's spouse receives help with any ADLs or IADLs from paid professionals. SwRPFCARE, SwRPFCAREDPM, and SwRPFCAREHR are taken from the spouse's values to RwrPFCARE, RwrPFCAREDPM, and RwrPFCAREHR, respectively. In addition to the special missing values used in RwrPFCARE, RwrPFCAREDPM, and RwrPFCAREHR, SwRPFCARE, SwRPFCAREDPM, and SwRPFCAREHR employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, for each helper reported, the respondent is asked to report the number of days in the last month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

Due to the way the questions were asked and the data is stored, we are not able to distinguish paid professionals from unpaid professionals starting at Wave 2, and so these variables are no longer available.

## Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwrPFCAREDPW which indicates the number of days per week the respondent receives help from paid professionals. The Harmonized CHARLS includes RwrPFCAREDPM which indicates the number of days in the past month the respondent received help from paid professionals.

The Harmonized HRS includes missing counts for the days of help and hours of help, given in RwrPFCAREDPWM and RwrPFCAREHRM, for all available waves. While these missing counts can be accurately created in the Harmonized CHARLS at Wave 1, they cannot be accurately created started in Wave 2, and so are not included in the Harmonized CHARLS.

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

## CHARLS Variables Used:

Wave 1:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation

DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties

---

DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_37_	How Many Days Did Paid Helper Help You LM
DB024_37_	How Many Hours Per Day Did Paid Helper Help You LM
DB026_37_	Is Paid Helper Paid to Help You

<b>Receives Formal Caregiving from Unpaid Professionals</b>
---

Wave	Variable	Label	Type
1	R1RUF CARE	rlrufcare:w1 r receives formal care from unpaid caregivers f	Categ
1	S1RUF CARE	slrufcare:w1 s receives formal care from unpaid caregivers f	Categ
1	R1RUF CARE DPM	rlrufcaredpm:w1 r days/month receives care from unpaid careg	Cont
1	S1RUF CARE DPM	slrufcaredpm:w1 s days/month receives care from unpaid careg	Cont
1	R1RUF CARE HR	rlrufcarehr:w1 r hours/day receives care from unpaid caregiv	Cont
1	S1RUF CARE HR	slrufcarehr:w1 s hours/day receives care from unpaid caregiv	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RUF CARE	2230	0.00	0.03	0.00	1.00
S1RUF CARE	1712	0.00	0.00	0.00	0.00
R1RUF CARE DPM	2230	0.03	0.90	0.00	30.00
S1RUF CARE DPM	1712	0.00	0.00	0.00	0.00
R1RUF CARE HR	2230	0.01	0.36	0.00	15.00
S1RUF CARE HR	1712	0.00	0.00	0.00	0.00

**Categorical Variable Codes**

Value	R1RUF CARE
.a:Healthy and young	3
.d:dk	6
.h:No help received	367
.m:missing	217
.x:No difficulty	14885
0.No	2228
1.Yes	2

Value	S1RUF CARE
.a:Healthy and young	1
.d:dk	4
.h:No help received	258
.m:missing	110
.u:unmar	2260
.v:sp nr	538
.x:No difficulty	12825
0.No	1712

**How Constructed:**

These variables include help from unpaid professionals. At Wave 1 this includes unpaid help from the following: paid helper (such as nanny), volunteer or employee of facility.

RwRUF CARE indicates whether unpaid professionals help the respondent with any Activities of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) or Instrumental Activities of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). RrRUF CARE is assigned 0 if the respondent does not report unpaid professionals help them with any ADLs or IADLS. RrRUF CARE is assigned 1 if the respondent reports unpaid professionals help them with any ADLs or IADLS. RrRUF CARE is only available in Wave 1.



RwRUFCAREDPM indicates the number of days in the past month the respondent received help with any ADLs or IADLs from unpaid professionals. RwRUFCAREDPM is assigned 0 if the respondent received no help from unpaid professionals. RwRUFCAREDPM is only available in Wave 1.

RwRUFCAREHR indicates the number of hours per day the respondent receives help with any ADLs or IADLs from unpaid professionals. RwRUFCAREHR is assigned 0 if the respondent received no help from unpaid professionals. RwRUFCAREHR is only available in Wave 1.

Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. Special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwRUFCARE indicates whether unpaid professionals help the respondent's spouse with any Activities of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) or Instrumental Activities of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). SwRUFCAREDPM indicates the number of days in the past month the respondent's spouse received help with any ADLs or IADLs from unpaid professionals. SwRUFCAREHR indicates the number of hours per day the respondent's spouse receives help with any ADLs or IADLs from unpaid professionals. SwRUFCARE, SwRUFCAREDPM, and SwRUFCAREHR are taken from the spouse's values to RwRUFCARE, RwRUFCAREDPM, and RwRUFCAREHR, respectively. In addition to the special missing values used in RwRUFCARE, RwRUFCAREDPM, and RwRUFCAREHR, SwRUFCARE, SwRUFCAREDPM, and SwRUFCAREHR employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, for each helper reported, the respondent is asked to report the number of days in the last month the respondent received help, the number of hours per day they received help, and whether or not the helper was paid for providing help to the respondent.

Due to the way the questions were asked and the data is stored, we are not able to distinguish paid professionals from unpaid professionals starting at Wave 2, so these variables are no longer available.

## Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwRPFCAREDPW which indicates the number of days per week the respondent receives help from paid professionals. The Harmonized CHARLS includes RwRPFCAREDPM which indicates the number of days in the past month the respondent received help from paid professionals.

The Harmonized HRS includes missing counts for the days of help and hours of help, given in RwRUFCAREDPWM and RwRUFCAREHRM, for all available waves. While these missing counts can be accurately created in the Harmonized CHARLS at Wave 1, they cannot be accurately created started in Wave 2, and so are not included in the Harmonized CHARLS.

The HRS first asks whether the respondent has difficulty with an activity, and if so, asks whether someone helps them with that activity. At Wave 1, CHARLS first asks whether the respondent has difficulty with an activity, but does not ask whether someone helps them with that activity. However, starting at Wave 2, respondents are asked both of those questions, similar to the HRS.

## CHARLS Variables Used:

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment

DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties
DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB023_37_	How Many Days Did Paid Helper Help You LM

---

DB024_37_	How Many Hours Per Day Did Paid Helper Help You LM
DB026_37_	Is Paid Helper Paid to Help You

<b>Paid Help</b>
------------------

Wave	Variable	Label	Type
1	R1HLPPDN	r1hlppdn:w1 r number of paid helpers	Cont
1	S1HLPPDN	s1hlppdn:w1 s number of paid helpers	Cont
2	R2HLPPDN_C	r2hlppdn_c:w2 r number of paid helpers	Cont
2	S2HLPPDN_C	s2hlppdn_c:w2 s number of paid helpers	Cont
3	R3HLPPDNI	r3hlppdni:w3 r number of paid informal helpers	Cont
3	S3HLPPDNI	s3hlppdni:w3 s number of paid informal helpers	Cont
1	R1HLPPDAMT	r1hlppdamt:w1 r total monthly oop cost for paid care	Cont
3	R3HLPPDAMT	r3hlppdamt:w3 r total monthly oop cost for paid care	Cont
1	S1HLPPDAMT	s1hlppdamt:w1 s total monthly oop cost for paid care	Cont
3	S3HLPPDAMT	s3hlppdamt:w3 s total monthly oop cost for paid care	Cont
2	R2HLPPDAMT_C	r2hlppdamt_c:w2 r total monthly oop cost for paid care	Cont
2	S2HLPPDAMT_C	s2hlppdamt_c:w2 s total monthly oop cost for paid care	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HLPPDN	2230	0.01	0.12	0.00	2.00
S1HLPPDN	1712	0.01	0.12	0.00	1.00
R2HLPPDN_C	3664	0.01	0.10	0.00	2.00
S2HLPPDN_C	2859	0.00	0.08	0.00	2.00
R3HLPPDNI	4075	0.02	0.19	0.00	7.00
S3HLPPDNI	3153	0.02	0.18	0.00	7.00
R1HLPPDAMT	2215	10.63	128.65	0.00	3000.00
R3HLPPDAMT	3947	20.93	250.15	0.00	7000.00
S1HLPPDAMT	1700	10.55	132.63	0.00	3000.00
S3HLPPDAMT	3086	11.70	169.42	0.00	5000.00
R2HLPPDAMT_C	1592	2.03	38.79	0.00	1000.00
S2HLPPDAMT_C	985	1.86	37.69	0.00	1000.00

### How Constructed:

RwHLPPDN indicates the number of all helpers who are paid to help the respondent with Activities of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) or Instrumental Activities of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). RwHLPPDN is only available in Wave 1.

RwHLPPDN\_C indicates the number of children and spouses of children helpers who are paid to help the respondent with ADLs or IADLs. RwHLPPDN\_C is only available in Wave 2.

RwHLPPDNI indicates the number of informal helpers who are paid to help the respondent with ADLs or IADLs. RwHLPPDNI is only available in Wave 3.

RwHLPPDAMT indicates the total amount paid, in Yuan, during the past month to those who help the respondent with ADLs or IADLs. RwHLPPDAMT is assigned 0 if none of the respondent's helpers are paid. RwHLPPDAMT is available in Waves 1 and 3.

RwHLPPDAMT\_C indicates the total amount paid, in Yuan, during the past month to children and spouses of children who help the respondent with ADLs or IADLs. RwHLPPDAMT is assigned 0 if none of the respondent's children helpers are paid. RwHLPPDAMT\_C is only available in Wave 2.

Special missing value (.a) is assigned if the activity of daily living questions were skipped because the respondent is younger than 50 and healthy. Special missing value (.x) is assigned if the respondent reports no difficulty with the ADLs and IADLs in question. Special missing value (.h) is assigned if the respondent reports difficulty with ADLs or IADLs but does not receive any help. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

SwHLPPDN indicates the number of people who are paid to help the respondent with Activities of Daily Living (dressing, bathing, eating, getting in/out of bed, using the toilet) or Instrumental Activities of Daily Living (doing household chores, preparing hot meals, shopping for groceries, making phone calls, taking medication, managing money). SwHLPPDN\_C indicates the number of children and spouses of children helpers who are paid to help the respondent's spouse with ADLs or IADLs. SwHLPPDNI indicates the number of informal helpers who are paid to help the respondent with ADLs or IADLs. SwHLPPDAMT indicates the total amount paid, in Yuan, during the past month to those who help the respondent's spouse with ADLs or IADLs. RwHLPPDAMT\_C indicates the total amount paid, in Yuan, during the past month to children and spouses of children who help the respondent's spouse with ADLs or IADLs. SwHLPPDN, SwHLPPDN\_C, SwHLPPDNI, SwHLPPDAMT, and SwHLPPDAMT\_C are taken from the spouse's values to RwHLPPDN, RwHLPPDN\_C, SwHLPPDNI, SwHLPPDAMT, and SwHLPPDAMT\_C, respectively. In addition to the special missing values used in SwHLPPDN, SwHLPPDN\_C, SwHLPPDNI, SwHLPPDAMT, and SwHLPPDAMT\_C, SwHLPPDN, SwHLPPDNI, SwHLPPDN\_C, SwHLPPDAMT, and SwHLPPDAMT\_C employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

At Wave 1, information regarding whether or not a helper was paid was available for all helpers.

At Wave 2, information regarding whether or not a helper was paid was only available for children and the spouses of children.

At Wave 3, information regarding whether or not a helper was paid was only available for informal helpers.

Starting at Wave 4, respondents are no longer asked if a helper is paid and the cost of paid help.

## Differences with the RAND HRS/Harmonized HRS

RwHLPPDN in the Harmonized HRS indicates the number of paid helpers who help the respondent with ADL or IADL activities. The Harmonized HRS also includes the variable RwHLPPDIN indicating the number of insurance-funded paid helpers, which is not available in the Harmonized CHARLS. The HRS ascertains whether each individual helper is paid. These are comparable to the corresponding variables at Wave 1 of the Harmonized CHARLS. However, at Wave 2, information regarding whether a helper was paid was only available for children, and in Wave 3 it was only available for informal helpers. The variable RwHLPPDN\_C was created for Wave 2 and RwHLPPDNI for Wave 3 using this information in CHARLS, but are not directly comparable to the Harmonized HRS.

RwHLPPDAMT in the Harmonized HRS indicates the total monthly out-of-pocket cost for the respondent's paid caregiving. For every helper the respondent reports except their spouse or employees of a nursing facility, the respondent is asked whether they are paid, and if so, how much. RwHLPPDAMT is available at Waves 1 and 3 of the Harmonized CHARLS and is comparable to the Harmonized HRS. However, at Wave 2, information regarding payment is only available for children. The variable RwHLPPDAMT\_C was created using the information in CHARLS, but is not directly comparable to the Harmonized HRS.

RwHLPPDAMT in the Harmonized HRS is in dollars, while RwHLPPDAMT and RwHLPPDAMT\_C in the Harmonized CHARLS are in Yuan, so conversion to a common currency is necessary before any comparison can be made.

**CHARLS Variables Used:**

DA001	Self Comment of Your Health
DA002	Self Comment of Your Health
DA003	Pain on the Left Side of Your Chest
DA004	Chest Pains When Climbing Stairs/Uphill or Walking Quickly
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Stomach or Other Digestive Disease
DA007_11_	Emotional,Nervous,or Psychiatric Problems
DA007_12_	Memory-Related Disease
DA007_13_	Arthritis or Rheumatism
DA007_14_	Asthma
DA007_1_	Hypertension
DA007_2_	Dyslipidemia
DA007_3_	Disabetes or High Blood Sugar
DA007_4_	Cancer or Malignant Tumor
DA007_5_	Chronic Lung Diseases
DA007_6_	Liver Disease
DA007_7_	Heart Problems
DA007_8_	Stroke
DA007_9_	Kidney Diease
DA008_11_	Do You Konw If You Have Emotional,Nervous,or Psychiatric Proble
DA008_1_	Do You Konw If You Have Hypertension
DA008_5_	Do You Konw If You Have Chronic Lung Diseases
DB010	Have Any Difficulty With Dressing Because of Health And Memory
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Memory Pr
DB013	Have Any Difficulty With Getting Out of Bed and Walking Across
DB014	Have Any Difficulty With Using the Toilet,Getting Up and Down
DB015	Have Any Difficulty With Controlling Urination and Defecation
DB016	Have Any Difficulty With Doing Household Chores
DB017	Have Any Difficulty With Preparing Hot Meals
DB018	Have Any Difficulty With Shopping Because of Health And Memory
DB019	Have Any Difficulty With Managing Assets Because of Health And
DB020	Have Any Difficulty With Taking Medications Because of Health A
DB022S1	Spouse Helps You Often With Functional Difficulties
DB022S10	Children Helps You Often With Functional Difficulties
DB022S11	Children Helps You Often With Functional Difficulties
DB022S12	Children Helps You Often With Functional Difficulties
DB022S13	Children Helps You Often With Functional Difficulties
DB022S14	Children Helps You Often With Functional Difficulties
DB022S15	Children Helps You Often With Functional Difficulties
DB022S16	Children Helps You Often With Functional Difficulties
DB022S17	Children Helps You Often With Functional Difficulties
DB022S18	Children Helps You Often With Functional Difficulties
DB022S19	Children Helps You Often With Functional Difficulties
DB022S2	Mother Helps You Often With Functional Difficulties
DB022S20	Children Helps You Often With Functional Difficulties
DB022S21	Children Helps You Often With Functional Difficulties
DB022S22	Children Helps You Often With Functional Difficulties
DB022S23	Children Helps You Often With Functional Difficulties
DB022S24	Children Helps You Often With Functional Difficulties
DB022S25	Children Helps You Often With Functional Difficulties
DB022S26	Children Helps You Often With Functional Difficulties
DB022S27	Children Helps You Often With Functional Difficulties
DB022S28	Children Helps You Often With Functional Difficulties
DB022S29	Children Helps You Often With Functional Difficulties
DB022S3	Father Helps You Often With Functional Difficulties
DB022S30	Children Helps You Often With Functional Difficulties
DB022S31	Sibling Helps You Often With Functional Difficulties
DB022S32	Sibling of Spouse Helps You Often With Functional Difficulties
DB022S33	Brother-in-law,Sister in law Helps You Often With Functional Di
DB022S34	Children's Spouse Helps You Often With Functional Difficulties
DB022S35	Grandchild Helps You Often With Functional Difficulties

DB022S36	Other Relative Helps You Often With Functional Difficulties
DB022S37	Paid Helper Helps You Often With Functional Difficulties
DB022S38	Volunteer Helps You Often With Functional Difficulties
DB022S39	Other Helps You Often With Functional Difficulties
DB022S4	Mother-in-law Helps You Often With Functional Difficulties
DB022S40	No One Helps You Often With Functional Difficulties
DB022S5	Father-in-law Helps You Often With Functional Difficulties
DB022S6	Children Helps You Often With Functional Difficulties
DB022S7	Children Helps You Often With Functional Difficulties
DB022S8	Children Helps You Often With Functional Difficulties
DB022S9	Children Helps You Often With Functional Difficulties
DB026_10_	Is Children Paid to Help You
DB026_11_	Is Children Paid to Help You
DB026_12_	Is Children Paid to Help You
DB026_1_	Is Spouse Paid to Help You
DB026_2_	Is Mother Paid to Help You
DB026_31_	Is Sibling Paid to Help You
DB026_32_	Is Sibling of Spouse Paid to Help You
DB026_33_	Is Brother-in-law,Sister in law Paid to Help You
DB026_34_	Is Children's Spouse Paid to Help You
DB026_35_	Is Grandchild Paid to Help You
DB026_36_	Is Other Relative Paid to Help You
DB026_37_	Is Paid Helper Paid to Help You
DB026_39_	Is Other Paid to Help You
DB026_4_	Is Mother-in-law Paid to Help You
DB026_5_	Is Father-in-law Paid to Help You
DB026_6_	Is Children Paid to Help You
DB026_7_	Is Children Paid to Help You
DB026_8_	Is Children Paid to Help You
DB026_9_	Is Children Paid to Help You
DB027	Your Total Pay for the Help

## Wave 2:

DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA003	Any Pain on The Left Side of Chest
DA004	Any Pains When Climbing Stairs or
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_w2_1_10_	Verify Disease Record
DA007_w2_1_11_	Verify Disease Record
DA007_w2_1_12_	Verify Disease Record
DA007_w2_1_13_	Verify Disease Record
DA007_w2_1_14_	Verify Disease Record
DA007_w2_1_1_	Verify Disease Record
DA007_w2_1_2_	Verify Disease Record
DA007_w2_1_3_	Verify Disease Record
DA007_w2_1_4_	Verify Disease Record
DA007_w2_1_5_	Verify Disease Record
DA007_w2_1_6_	Verify Disease Record
DA007_w2_1_7_	Verify Disease Record
DA007_w2_1_8_	Verify Disease Record
DA007_w2_1_9_	Verify Disease Record

DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat
DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB026_11_	Paid to Help You
DB026_14_	Paid to Help You
DB026_16_	Paid to Help You
DB026_19_	Paid to Help You
DB026_1_	Paid to Help You
DB026_21_	Paid to Help You
DB026_22_	Paid to Help You
DB026_23_	Paid to Help You
DB026_24_	Paid to Help You
DB026_25_	Paid to Help You
DB026_26_	Paid to Help You
DB026_27_	Paid to Help You
DB026_28_	Paid to Help You
DB026_29_	Paid to Help You
DB026_2_	Paid to Help You
DB026_30_	Paid to Help You
DB026_31_	Paid to Help You
DB026_32_	Paid to Help You
DB026_33_	Paid to Help You
DB026_34_	Paid to Help You
DB026_35_	Paid to Help You
DB026_36_	Paid to Help You
DB026_37_	Paid to Help You
DB026_39_	Paid to Help You
DB026_3_	Paid to Help You
DB026_40_	Paid to Help You
DB026_41_	Paid to Help You
DB026_43_	Paid to Help You
DB026_44_	Paid to Help You
DB026_45_	Paid to Help You
DB026_46_	Paid to Help You
DB026_49_	Paid to Help You
DB026_4_	Paid to Help You
DB026_50_	Paid to Help You
DB026_5_	Paid to Help You
DB026_6_	Paid to Help You
DB026_7_	Paid to Help You
DB026_8_	Paid to Help You
DB026_9_	Paid to Help You
DB027	Total Pay for Help
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease



ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease
Wave 3:	
DA001	Self Assessed Health Status (Excellent)
DA002	Self Assessed Health Status (Very Good)
DA005_1_	Physical Disabilities
DA005_2_	Brain Damage/Mental Retardation
DA005_3_	Vision Problem
DA005_4_	Hearing Problem
DA005_5_	Speech Impediment
DA007_10_	Have Been Diagnosed of Disease
DA007_11_	Have Been Diagnosed of Disease
DA007_12_	Have Been Diagnosed of Disease
DA007_13_	Have Been Diagnosed of Disease
DA007_14_	Have Been Diagnosed of Disease
DA007_1_	Have Been Diagnosed of Disease
DA007_2_	Have Been Diagnosed of Disease
DA007_3_	Have Been Diagnosed of Disease
DA007_4_	Have Been Diagnosed of Disease
DA007_5_	Have Been Diagnosed of Disease
DA007_6_	Have Been Diagnosed of Disease
DA007_7_	Have Been Diagnosed of Disease
DA007_8_	Have Been Diagnosed of Disease
DA007_9_	Have Been Diagnosed of Disease
DA007_W2_1_10_	Verify Disease Record
DA007_W2_1_11_	Verify Disease Record
DA007_W2_1_12_	Verify Disease Record
DA007_W2_1_13_	Verify Disease Record
DA007_W2_1_14_	Verify Disease Record
DA007_W2_1_1_	Verify Disease Record
DA007_W2_1_2_	Verify Disease Record
DA007_W2_1_3_	Verify Disease Record
DA007_W2_1_4_	Verify Disease Record
DA007_W2_1_5_	Verify Disease Record
DA007_W2_1_6_	Verify Disease Record
DA007_W2_1_7_	Verify Disease Record
DA007_W2_1_8_	Verify Disease Record
DA007_W2_1_9_	Verify Disease Record
DA007_W2_2_10_	Doctor Told Disease
DA007_W2_2_11_	Doctor Told Disease
DA007_W2_2_12_	Doctor Told Disease
DA007_W2_2_13_	Doctor Told Disease
DA007_W2_2_14_	Doctor Told Disease
DA007_W2_2_1_	Doctor Told Disease
DA007_W2_2_2_	Doctor Told Disease
DA007_W2_2_3_	Doctor Told Disease
DA007_W2_2_4_	Doctor Told Disease
DA007_W2_2_5_	Doctor Told Disease
DA007_W2_2_6_	Doctor Told Disease
DA007_W2_2_7_	Doctor Told Disease
DA007_W2_2_8_	Doctor Told Disease
DA007_W2_2_9_	Doctor Told Disease
DA008_11_	Self Aware of Disease
DA008_1_	Self Aware of Disease
DA008_5_	Self Aware of Disease
DB010_W2	Whether Need Help Dress
DB011_W2	Whether Need Help Bathe
DB012_W2	Whether Need Help Eat

---

DB013_W2	Whether Need Help Get in or Out of Bed
DB014_W2	Whether Need Help Use The Toilet
DB016_W2	Does Anyone Help You Prepare Hot Meals
DB017_W2	Does Anyone Help You Prepare Hot Meals
DB018_W2	Does Anyone Help You Shop for Groceries?
DB019_W2	Does Anyone Help You Take Medications?
DB020_W2	Does Anyone Help You Take Medications?
DB026_10_	Paid to Help You
DB026_11_	Paid to Help You
DB026_12_	Paid to Help You
DB026_13_	Paid to Help You
DB026_14_	Paid to Help You
DB026_15_	Paid to Help You
DB026_16_	Paid to Help You
DB026_17_	Paid to Help You
DB026_18_	Paid to Help You
DB026_19_	Paid to Help You
DB026_1_	Paid to Help You
DB026_20_	Paid to Help You
DB026_21_	Paid to Help You
DB026_22_	Paid to Help You
DB026_24_	Paid to Help You
DB026_25_	Paid to Help You
DB026_2_	Paid to Help You
DB026_3_	Paid to Help You
DB026_4_	Paid to Help You
DB026_5_	Paid to Help You
DB026_6_	Paid to Help You
DB026_7_	Paid to Help You
DB026_8_	Paid to Help You
DB026_9_	Paid to Help You
DB027	Total Pay for Help
DB035_W2	Whether Need Help Make Telephone Calls
ZDA007_10_	Chronic Disease
ZDA007_11_	Chronic Disease
ZDA007_12_	Chronic Disease
ZDA007_13_	Chronic Disease
ZDA007_14_	Chronic Disease
ZDA007_1_	Chronic Disease
ZDA007_2_	Chronic Disease
ZDA007_3_	Chronic Disease
ZDA007_4_	Chronic Disease
ZDA007_5_	Chronic Disease
ZDA007_6_	Chronic Disease
ZDA007_7_	Chronic Disease
ZDA007_8_	Chronic Disease
ZDA007_9_	Chronic Disease

**Provides Informal Care**

Wave	Variable	Label	Type
1	H1GPCARE	h1gpcare:w1 gave care to parents/parents-in-law	Categ
2	H2GPCARE	h2gpcare:w2 gave care to parents/parents-in-law	Categ
4	H4GPCARE	h4gpcare:w4 gave care to parents/parents-in-law	Categ
1	H1GKCARE	h1gkcare:w1 gave care grandchildren	Categ
2	H2GKCARE	h2gkcare:w2 gave care grandchildren	Categ
3	H3GKCARE	h3gkcare:w3 gave care grandchildren	Categ
4	H4GKCARE	h4gkcare:w4 gave care grandchildren	Categ
1	R1GCARESCK	r1gcaresck:w1 whether r gave informal care to sick or disabl	Categ
2	R2GCARESCK	r2gcaresck:w2 whether r gave informal care to sick or disabl	Categ
3	R3GCARESCK	r3gcaresck:w3 whether r gave informal care to sick or disabl	Categ
4	R4GCARESCK	r4gcaresck:w4 whether r gave informal care to sick or disabl	Categ
1	S1GCARESCK	s1gcaresck:w1 whether s gave informal care to sick or disabl	Categ
2	S2GCARESCK	s2gcaresck:w2 whether s gave informal care to sick or disabl	Categ
3	S3GCARESCK	s3gcaresck:w3 whether s gave informal care to sick or disabl	Categ
4	S4GCARESCK	s4gcaresck:w4 whether s gave informal care to sick or disabl	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
H1GPCARE	0	.	.	.	.
H2GPCARE	5336	0.37	0.48	0.00	1.00
H4GPCARE	8508	0.50	0.50	0.00	1.00
H1GKCARE	0	.	.	.	.
H2GKCARE	13213	0.51	0.50	0.00	1.00
H3GKCARE	14937	0.53	0.50	0.00	1.00
H4GKCARE	16347	0.49	0.50	0.00	1.00
R1GCARESCK	16224	0.01	0.09	0.00	1.00
R2GCARESCK	16819	0.02	0.13	0.00	1.00
R3GCARESCK	19696	0.04	0.19	0.00	1.00
R4GCARESCK	19730	0.03	0.17	0.00	1.00
S1GCARESCK	13705	0.01	0.09	0.00	1.00
S2GCARESCK	14221	0.02	0.14	0.00	1.00
S3GCARESCK	16753	0.04	0.19	0.00	1.00
S4GCARESCK	16342	0.03	0.17	0.00	1.00

**Categorical Variable Codes**

Value-----	H1GPCARE	H2GPCARE	H4GPCARE	
.h:Live in the same household		62	24	
.m:missing	9026	759	531	
.n:No parent alive	8682	9841	10753	
.s:skip		2614		
0.no		3346	4265	
1.yes		1990	4243	
Value-----	H1GKCARE	H2GKCARE	H3GKCARE	H4GKCARE
.g:no young grandchildren	5299	4913	5822	3230
.k:No Kid	480	419	271	181
.m:missing	11929	67	67	58
0.no		6412	7038	8365
1.yes		6801	7899	7982
Value-----	R1GCARESCK	R2GCARESCK	R3GCARESCK	R4GCARESCK
.d:dk	12			

.m:missing	155	1322	172	86
.p:proxy	1315	471	1229	
.r:refuse	2			
0.No	16102	16511	18973	19154
1.Yes	122	308	723	576
Value-----	S1GCARESCK	S2GCARESCK	S3GCARESCK	S4GCARESCK
.d:dk	10			
.m:missing	68	1006	58	20
.p:proxy	1126	353	913	
.r:refuse	1			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	13598	13956	16123	15838
1.Yes	107	265	630	504

## How Constructed:

In CHARLS, the family respondent is asked about care provision for both his or her own parents and children and their spouse's parents and children. The family respondent can be identified using RwfAMR.

HwGPCARE indicates whether the family respondent and spouse provided any informal care, such as doing household chores, meal preparation, laundry, grocery shopping, or financial management, to parents/parents-in-law in the past year. HwGPCARE is assigned 0 if the family respondent reports not providing care to parents/parents-in-law. HwFRCARE is assigned 1 if the family respondent reports providing care to parents/parents-in-law. HwGPCARE is available at Waves 1, 2, and 4. Special missing value (.n) is assigned if the family respondent and spouse do not have any living parents. At Wave 2, special missing value (.s) is assigned if both of the family respondent's parents were not living at the previous wave, but at least one of the family respondent's spouse's parents was living at the previous wave. Starting at Wave 2, special missing value (.h) is assigned if any parent/parent-in-law co-resides with the family respondent and spouse. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwGPCARE is coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 1, family respondents are asked whether they or their spouse have spent time taking care of parents/parents-in-law, even if they have no living parents/parents-in-law. Starting at Wave 2, CHARLS only asks this question to family respondents with at least one living parent/parent-in-law who is not co-residing with the respondent and spouse. In order to provide a more comparable cross-wave variable, Wave 1 households who reported not taking care of the parents/parents-in-law and who had no living parents were assigned a special missing value (.n) instead of a 0 value.

The current Wave 3 CHARLS public data contains empty variables for informal care for parents/parents-in-law, which leads us to believe that providing informal care to parents/parents-in-law is not currently accounted for at Wave 3.

HwGKCARE indicates whether the family respondent and spouse provided any informal care to grandchildren in the past year. HwGKCARE is assigned 0 if the family respondent reports not providing care to grandchildren. HwGKCARE is assigned 1 if the family respondent reports providing care to grandchildren. Special missing value (.k) is assigned if the family respondent and spouse do not have any children. Special missing value (.g) is assigned if the family respondent was not asked the question because they do not have grandchildren under the age of 16. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwGKCARE is coded as blank missing (.) if the family respondent did not respond to this wave.

At Wave 1, there is large number of households assigned special missing value (.m) for whether the family respondent and their spouse have spent time taking care of their grandchildren. The majority of these households earlier reported that they had grandchildren under the age of 16 so it is unclear why they were not asked or did not answer the informal care for grandchildren question.

RwGCARESCK indicates whether the respondent cared for a sick or disabled adult who does not live with them in the past month. RwGCARESCK is assigned 0 if the respondent does not report caring for a sick or disabled adult who does not live with them in the past month. RwGCARESCK is assigned 1 if the respondent reports caring for a sick or disabled adult who does not live with them in the past month. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwGCARESCK is assigned special missing value (.p) in Waves 1-3 if the question was skipped because the interview was by proxy. RwGCARESCK is coded as blank missing (.) if the respondent did not respond to this wave.

SwGCARESK indicates whether the respondent's spouse cared for a sick or disabled adult who does not live with them in the past month. SwGCARESK is taken from the spouse's values to RwgCARESK. In addition to the special missing values used in RwgCARESK, SwGCARESK employs two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

At Wave 1, family respondents are asked whether they or their spouse have spent time taking care of parents/parents-in-law, even if they have no living parents/parents-in-law. At Waves 2 and 3, CHARLS only asks this question to family respondents with at least one living parent/parent-in-law who is not co-residing with the respondent and spouse. At Wave 4, CHARLS only asks this question to family respondents with at least one living parent/parent-in-law.

At Waves 1, 3, and 4, CHARLS asks family respondents whether they or their spouse have spent time taking care of grandchildren. At Wave 2, family respondents are asked whether they or their spouse have spent time taking care of grandchildren or great-grandchildren.

At Waves 1 and 2, CHARLS asks respondents whether they cared for a sick or disabled adult who does not live with them and did not pay them in the past month. Starting at Wave 3, CHARLS asks respondents whether they cared for a sick or disabled adult who does not live with them in the past month.

In Waves 1 to 3, the question asking respondents whether they cared for a sick or disabled adult who does not live with them is skipped for proxy respondents.

### Differences with the RAND HRS/Harmonized HRS

These variables are not available in the RAND HRS, but users can construct an identical variable from the HRS.

RwgCARESK in the Harmonized HRS indicates whether the respondent cares for a sick or disabled adult, which is comparable to RwgCARESK in the Harmonized CHARLS. Please note that this question is asked in the leave behind questionnaire in the HRS and so is not asked to every respondent in every wave, while it is included in the main interview in the CHARLS.

### CHARLS Variables Used:

Wave 1:

A002_10_	Gender of This Household Member
A002_11_	Gender of This Household Member
A002_12_	Gender of This Household Member
A002_13_	Gender of This Household Member
A002_14_	Gender of This Household Member
A002_15_	Gender of This Household Member
A002_16_	Gender of This Household Member
A002_1_	Gender of This Household Member
A002_2_	Gender of This Household Member
A002_3_	Gender of This Household Member
A002_4_	Gender of This Household Member
A002_5_	Gender of This Household Member
A002_6_	Gender of This Household Member
A002_7_	Gender of This Household Member
A002_8_	Gender of This Household Member
A002_9_	Gender of This Household Member
A006_10_	Relationship to FamilyR
A006_11_	Relationship to FamilyR
A006_12_	Relationship to FamilyR
A006_13_	Relationship to FamilyR
A006_14_	Relationship to FamilyR
A006_15_	Relationship to FamilyR
A006_16_	Relationship to FamilyR
A006_1_	Relationship to FamilyR
A006_2_	Relationship to FamilyR
A006_3_	Relationship to FamilyR
A006_4_	Relationship to FamilyR

A006_5_	Relationship to FamilyR
A006_6_	Relationship to FamilyR
A006_7_	Relationship to FamilyR
A006_8_	Relationship to FamilyR
A006_9_	Relationship to FamilyR
CB049_10_	GENDER
CB049_11_	GENDER
CB049_12_	GENDER
CB049_13_	GENDER
CB049_14_	GENDER
CB049_1_	GENDER
CB049_2_	GENDER
CB049_3_	GENDER
CB049_4_	GENDER
CB049_5_	GENDER
CB049_6_	GENDER
CB049_7_	GENDER
CB049_8_	GENDER
CB049_9_	GENDER
CF001	spend any time taking care of grandchildren
CF004	take care of your parents or parents-in-law
DA056S1	Do Activities LM of Interacted With Friends
DA056S10	Do Activities LM of Used the Internet
DA056S11	Do Activities LM of Other
DA056S12	Do Activities LM of None of These
DA056S2	Do Activities LM of Played Ma-jong/Cards/Chess or Went to Commu
DA056S3	Do Activities LM of Provided Help to People Who Lived Apart
DA056S4	Do Activities LM of Went to Club
DA056S5	Do Activities LM of Took Part In A Community-related Organizati
DA056S6	Do Activities LM of Voluntary or Charity
DA056S7	Do Activities LM of Cared for A Sick or Disabled Adult Who Live
DA056S8	Do Activities LM of Attended An Educational or Training Course
DA056S9	Do Activities LM of Stock Investment

## Wave 2:

A002_10_	Gender of Household Member
A002_11_	Gender of Household Member
A002_12_	Gender of Household Member
A002_13_	Gender of Household Member
A002_14_	Gender of Household Member
A002_15_	Gender of Household Member
A002_16_	Gender of Household Member
A002_1_	Gender of Household Member
A002_2_	Gender of Household Member
A002_3_	Gender of Household Member
A002_4_	Gender of Household Member
A002_5_	Gender of Household Member
A002_6_	Gender of Household Member
A002_7_	Gender of Household Member
A002_8_	Gender of Household Member
A002_9_	Gender of Household Member
A006_10_	Relationship to You
A006_11_	Relationship to You
A006_12_	Relationship to You
A006_13_	Relationship to You
A006_14_	Relationship to You
A006_15_	Relationship to You
A006_16_	Relationship to You
A006_1_	Relationship to You
A006_2_	Relationship to You
A006_3_	Relationship to You
A006_4_	Relationship to You
A006_5_	Relationship to You
A006_6_	Relationship to You
A006_7_	Relationship to You
A006_8_	Relationship to You
A006_9_	Relationship to You
CB049_10_	Gender of Child
CB049_11_	Gender of Child
CB049_1_	Gender of Child

CB049_2_	Gender of Child
CB049_3_	Gender of Child
CB049_4_	Gender of Child
CB049_5_	Gender of Child
CB049_6_	Gender of Child
CB049_7_	Gender of Child
CB049_8_	Gender of Child
CB049_9_	Gender of Child
CF001	Take Care of Grandchildren
CF004	Take Care of Your Parents/Parents-in-law
DA056S1	Do Activities
DA056S10	Do Activities
DA056S11	Do Activities
DA056S12	Do Activities
DA056S2	Do Activities
DA056S3	Do Activities
DA056S4	Do Activities
DA056S5	Do Activities
DA056S6	Do Activities
DA056S7	Do Activities
DA056S8	Do Activities
DA056S9	Do Activities
ZA002_10_	Gender of Household Member
ZA002_11_	Gender of Household Member
ZA002_12_	Gender of Household Member
ZA002_13_	Gender of Household Member
ZA002_14_	Gender of Household Member
ZA002_1_	Gender of Household Member
ZA002_2_	Gender of Household Member
ZA002_3_	Gender of Household Member
ZA002_4_	Gender of Household Member
ZA002_5_	Gender of Household Member
ZA002_6_	Gender of Household Member
ZA002_7_	Gender of Household Member
ZA002_8_	Gender of Household Member
ZA002_9_	Gender of Household Member
ZA006_10_	Relationship to You
ZA006_11_	Relationship to You
ZA006_12_	Relationship to You
ZA006_13_	Relationship to You
ZA006_14_	Relationship to You
ZA006_15_	Relationship to You
ZA006_16_	Relationship to You
ZA006_1_	Relationship to You
ZA006_2_	Relationship to You
ZA006_3_	Relationship to You
ZA006_4_	Relationship to You
ZA006_5_	Relationship to You
ZA006_6_	Relationship to You
ZA006_7_	Relationship to You
ZA006_8_	Relationship to You
ZA006_9_	Relationship to You

## Wave 3:

A001_W3_OS1	Which Parents
A001_W3_OS10	Which Parents
A001_W3_OS11	Which Parents
A001_W3_OS12	Which Parents
A001_W3_OS2	Which Parents
A001_W3_OS3	Which Parents
A001_W3_OS4	Which Parents
A001_W3_OS5	Which Parents
A001_W3_OS6	Which Parents
A001_W3_OS7	Which Parents
A001_W3_OS8	Which Parents
A001_W3_OS9	Which Parents
A006_10_	Relationship with 10th other Member
A006_1_	Relationship with 1th other Member
A006_2_	Relationship with 2th other Member
A006_3_	Relationship with 3th other Member

A006_4_	Relationship with 4th other Member
A006_5_	Relationship with 5th other Member
A006_6_	Relationship with 6th other Member
A006_7_	Relationship with 7th other Member
A006_8_	Relationship with 8th other Member
A006_9_	Relationship with 9th other Member
CA000_W3_2_1_	R's Biological Father Is Still Alive
CA000_W3_2_2_	Spouse's Biological Father Is Still Alive
CA004_W3_2_1_	R's Stepfather Is Still Living
CA004_W3_2_2_	Spouse's Stepfather Is Still Living
CA005_W3_2_1_	R's Stepmother Is Still Living
CA006_W3_2_1_	R's Adopted Father Is Still Living
CA006_W3_2_2_	Spouse's Adopted Father Is Still Living
CA007_W3_2_1_	R's Adopted Mother Is Still Living
CA016_10_	The Place Where Spouse's Stepmother Normally Live
CA016_11_	The Place Where Spouse's Adopted Father Normally Live
CA016_12_	The Place Where Spouse's Adopted Mother Normally Live
CA016_1_	The Place Where R's Biological Father Normally Live
CA016_2_	The Place Where R's Biological Mother Normally Live
CA016_3_	The Place Where R's Stepfather Normally Live
CA016_4_	The Place Where R's Stepmother Normally Live
CA016_5_	The Place Where R's Adopted Father Normally Live
CA016_6_	The Place Where R's Adopted Mother Normally Live
CA016_7_	The Place Where Spouse's Biological Father Normally Live
CA016_8_	The Place Where Spouse's Biological Mother Normally Live
CA016_9_	The Place Where Spouse's Stepfather Normally Live
CD001_10_S3	Whom Does R's Stepfather Live With
CD001_11_S3	Whom Does R's Stepfather Live With
CD001_12_S3	Whom Does R's Stepfather Live With
CD001_1_S3	Whom Does R's Stepfather Live With
CD001_2_S3	Whom Does R's Stepfather Live With
CD001_3_S3	Whom Does R's Stepfather Live With
CD001_4_S3	Whom Does R's Stepfather Live With
CD001_5_S3	Whom Does R's Stepfather Live With
CD001_6_S3	Whom Does R's Stepfather Live With
CD001_7_S3	Whom Does R's Stepfather Live With
CD001_8_S3	Whom Does R's Stepfather Live With
CD001_9_S3	Whom Does R's Stepfather Live With
CF004	Taking Care of Parents or Parents-in-Law Last Year
DA056S1	Do Activities
DA056S10	Do Activities
DA056S11	Do Activities
DA056S12	Do Activities
DA056S2	Do Activities
DA056S3	Do Activities
DA056S4	Do Activities
DA056S5	Do Activities
DA056S6	Do Activities
DA056S7	Do Activities
DA056S8	Do Activities
DA056S9	Do Activities
ZCA001_1_	R's Biological Father Was Not Living
ZCA001_2_	R's Biological Mother Was Not Living
ZCA001_7_	Spouse's Biological Father Was Not Living
Wave 4:	
A006_10_	Relationship
A006_1_	Relationship
A006_2_	Relationship
A006_3_	Relationship
A006_4_	Relationship
A006_5_	Relationship
A006_6_	Relationship
A006_7_	Relationship
A006_8_	Relationship
A006_9_	Relationship
CA016_1_	Where is [ParType[1]] Living Regularly
CA016_2_	Where is [ParType[2]] Living Regularly
CA016_3_	Where is [ParType[3]] Living Regularly
CA016_4_	Where is [ParType[4]] Living Regularly



CA016_5_	Where is [ParType[5]] Living Regularly
CA016_6_	Where is [ParType[6]] Living Regularly
CA016_7_	Where is [ParType[7]] Living Regularly
CA016_8_	Where is [ParType[8]] Living Regularly
CB066_10_	Number of [XChildName[10]]'s Children below 16 Years Old
CB066_11_	Number of [XChildName[11]]'s Children below 16 Years Old
CB066_12_	Number of [XChildName[12]]'s Children below 16 Years Old
CB066_13_	Number of [XChildName[13]]'s Children below 16 Years Old
CB066_14_	Number of [XChildName[14]]'s Children below 16 Years Old
CB066_15_	Number of [XChildName[15]]'s Children below 16 Years Old
CB066_1_	Number of [XChildName[1]]'s Children below 16 Years Old
CB066_2_	Number of [XChildName[2]]'s Children below 16 Years Old
CB066_3_	Number of [XChildName[3]]'s Children below 16 Years Old
CB066_4_	Number of [XChildName[4]]'s Children below 16 Years Old
CB066_5_	Number of [XChildName[5]]'s Children below 16 Years Old
CB066_6_	Number of [XChildName[6]]'s Children below 16 Years Old
CB066_7_	Number of [XChildName[7]]'s Children below 16 Years Old
CB066_8_	Number of [XChildName[8]]'s Children below 16 Years Old
CB066_9_	Number of [XChildName[9]]'s Children below 16 Years Old
CD001_W4_1_	Who Live with XConParName[1]
CD001_W4_2_	Who Live with XConParName[2]
CD001_W4_3_	Who Live with XConParName[3]
CD001_W4_4_	Who Live with XConParName[4]
CD001_W4_5_	Who Live with XConParName[5]
CD001_W4_6_	Who Live with XConParName[6]
CD001_W4_7_	Who Live with XConParName[7]
CD001_W4_8_	Who Live with XConParName[8]
CF001	Take Care of GrandChildren
CF004_W4_1_	Take care of XConParName[1]
CF004_W4_2_	Take care of XConParName[2]
CF004_W4_3_	Take care of XConParName[3]
CF004_W4_4_	Take care of XConParName[4]
CF004_W4_5_	Take care of XConParName[5]
CF004_W4_6_	Take care of XConParName[6]
CF004_W4_7_	Take care of XConParName[7]
CF004_W4_8_	Take care of XConParName[8]
DA056_S1	Activities in Last Month
DA056_S10	Activities in Last Month
DA056_S11	Activities in Last Month
DA056_S12	Activities in Last Month
DA056_S2	Activities in Last Month
DA056_S3	Activities in Last Month
DA056_S4	Activities in Last Month
DA056_S5	Activities in Last Month
DA056_S6	Activities in Last Month
DA056_S7	Activities in Last Month
DA056_S8	Activities in Last Month
DA056_S9	Activities in Last Month



## **Section M: Stress**

<b>Childhood/Lifetime Stressful Events</b>
--

Wave	Variable	Label	Type
1	RAMOMDRUG	ramomdrug:r female guardian had an alcohol and/or drug issue	Categ
1	S1MOMDRUG	s1momdrug:w1 s female guardian had an alcohol and/or drug is	Categ
2	S2MOMDRUG	s2momdrug:w2 s female guardian had an alcohol and/or drug is	Categ
3	S3MOMDRUG	s3momdrug:w3 s female guardian had an alcohol and/or drug iss	Categ
4	S4MOMDRUG	s4momdrug:w4 s female guardian had an alcohol and/or drug is	Categ
1	RADADDRUG	radaddrug:r male guardian had an alcohol and/or drug issue	Categ
1	S1DADDRUG	s1daddrug:w1 s male guardian had an alcohol and/or drug issu	Categ
2	S2DADDRUG	s2daddrug:w2 s male guardian had an alcohol and/or drug issu	Categ
3	S3DADDRUG	s3daddrug:w3 s male guardian had an alcohol and/or drug issu	Categ
4	S4DADDRUG	s4daddrug:w4 s male guardian had an alcohol and/or drug issu	Categ
1	RAPADRUG	rapadrug:r guardians had an alcohol and/or drug issue	Categ
1	S1PADRUG	s1padrug:w1 s guardians had an alcohol and/or drug issue	Categ
2	S2PADRUG	s2padrug:w2 s guardians had an alcohol and/or drug issue	Categ
3	S3PADRUG	s3padrug:w3 s guardians had an alcohol and/or drug issue	Categ
4	S4PADRUG	s4padrug:w4 s guardians had an alcohol and/or drug issue	Categ
1	R1LIFETHE	r1lifethe:w1 r ever experienced serious traffic accident/inj	Categ
2	R2LIFETHE	r2lifethe:w2 r ever experienced serious traffic accident/inj	Categ
3	R3LIFETHE	r3lifethe:w3 r ever experienced serious traffic accident/inj	Categ
4	R4LIFETHE	r4lifethe:w4 r ever experienced serious traffic accident/inj	Categ
1	S1LIFETHE	s1lifethe:w1 s ever experienced serious traffic accident/inj	Categ
2	S2LIFETHE	s2lifethe:w2 s ever experienced serious traffic accident/inj	Categ
3	S3LIFETHE	s3lifethe:w3 s ever experienced serious traffic accident/inj	Categ
4	S4LIFETHE	s4lifethe:w4 s ever experienced serious traffic accident/inj	Categ
1	R1CHDEATHE	r1chdeathe:w1 r ever experienced death of own child	Categ
2	R2CHDEATHE	r2chdeathe:w2 r ever experienced death of own child	Categ
3	R3CHDEATHE	r3chdeathe:w3 r ever experienced death of own child	Categ
4	R4CHDEATHE	r4chdeathe:w4 r ever experienced death of own child	Categ
1	S1CHDEATHE	s1chdeathe:w1 s ever experienced death of own child	Categ
2	S2CHDEATHE	s2chdeathe:w2 s ever experienced death of own child	Categ
3	S3CHDEATHE	s3chdeathe:w3 s ever experienced death of own child	Categ
4	S4CHDEATHE	s4chdeathe:w4 s ever experienced death of own child	Categ
1	RAMISCHLTH	ramischlth:r missed school for 1+ mo due to health before ag	Categ
1	S1MISCHLTH	s1mischlth:w1 s missed school for 1+ mo due to health before	Categ
2	S2MISCHLTH	s2mischlth:w2 s missed school for 1+ mo due to health before	Categ
3	S3MISCHLTH	s3mischlth:w3 s missed school for 1+ mo due to health before	Categ
4	S4MISCHLTH	s4mischlth:w4 s missed school for 1+ mo due to health before	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAMOMDRUG	19171	0.01	0.09	0.00	1.00
S1MOMDRUG	11776	0.01	0.08	0.00	1.00
S2MOMDRUG	13055	0.01	0.09	0.00	1.00
S3MOMDRUG	15174	0.01	0.09	0.00	1.00
S4MOMDRUG	13818	0.01	0.08	0.00	1.00
RADADDRUG	18679	0.07	0.26	0.00	1.00
S1DADDRUG	11462	0.07	0.25	0.00	1.00
S2DADDRUG	12726	0.07	0.26	0.00	1.00

S3DADDRUG	14824	0.07	0.26	0.00	1.00
S4DADDRUG	13536	0.08	0.26	0.00	1.00
RAPADRUG	19611	0.07	0.26	0.00	1.00
S1PADRUG	12061	0.07	0.25	0.00	1.00
S2PADRUG	13362	0.07	0.26	0.00	1.00
S3PADRUG	15500	0.07	0.26	0.00	1.00
S4PADRUG	14115	0.07	0.26	0.00	1.00
R1LIFETHE	16244	0.10	0.30	0.00	1.00
R2LIFETHE	18628	0.12	0.33	0.00	1.00
R3LIFETHE	21234	0.15	0.36	0.00	1.00
R4LIFETHE	2912	0.90	0.30	0.00	1.00
S1LIFETHE	13720	0.10	0.30	0.00	1.00
S2LIFETHE	15494	0.11	0.32	0.00	1.00
S3LIFETHE	17664	0.14	0.34	0.00	1.00
S4LIFETHE	2410	0.89	0.31	0.00	1.00
R1CHDEATHE	17605	0.09	0.28	0.00	1.00
R2CHDEATHE	18517	0.11	0.32	0.00	1.00
R3CHDEATHE	20848	0.14	0.34	0.00	1.00
R4CHDEATHE	19624	0.13	0.34	0.00	1.00
S1CHDEATHE	15362	0.07	0.26	0.00	1.00
S2CHDEATHE	16112	0.09	0.29	0.00	1.00
S3CHDEATHE	18295	0.12	0.32	0.00	1.00
S4CHDEATHE	16836	0.10	0.31	0.00	1.00
RAMISCHLTH	16089	0.05	0.22	0.00	1.00
S1MISCHLTH	9791	0.05	0.21	0.00	1.00
S2MISCHLTH	11016	0.05	0.21	0.00	1.00
S3MISCHLTH	13052	0.05	0.22	0.00	1.00
S4MISCHLTH	11937	0.05	0.22	0.00	1.00

### Categorical Variable Codes

Value-----	RAMOMDRUG			
.a:No life history survey	5334			
.m:missing	614			
.n:No female guardian	467			
0.No	19029			
1.Yes	142			
Value-----	S1MOMDRUG	S2MOMDRUG	S3MOMDRUG	S4MOMDRUG
.a:No life history survey	2514	1873	1925	2013
.m:missing	321	337	289	229
.n:No female guardian	299	315	336	302
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	11695	12959	15062	13719
1.Yes	81	96	112	99
Value-----	RADADDRUG			
.a:No life history survey	5334			
.m:missing	693			
.n:No male guardian	880			
0.No	17293			
1.Yes	1386			
Value-----	S1DADDRUG	S2DADDRUG	S3DADDRUG	S4DADDRUG
.a:No life history survey	2514	1873	1925	2013
.m:missing	382	400	346	277
.n:No male guardian	552	581	629	536
.u:unmar	2260	2401	2719	2926

.v:sp nr	538	622	650	517
0.No	10678	11809	13715	12520
1.Yes	784	917	1109	1016
Value-----	RAPADRUG			
.a:No life history survey	5334			
.m:missing	532			
.n:No male or female guardian	109			
0.No	18166			
1.Yes	1445			
Value-----	S1PADRUG	S2PADRUG	S3PADRUG	S4PADRUG
.a:No life history survey	2514	1873	1925	2013
.m:missing	269	285	235	184
.n:No male or female guardian	66	60	64	50
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	11242	12402	14343	13060
1.Yes	819	960	1157	1055
Value-----	R1LIFETHE	R2LIFETHE	R3LIFETHE	R4LIFETHE
.d:dk	3			
.m:missing	1249	185	168	64
.p:proxy	209	11		
.r:refuse	3			
.x:Re-interview respondent				16840
0.No	14641	16348	18063	285
1.Yes	1603	2280	3171	2627
Value-----	S1LIFETHE	S2LIFETHE	S3LIFETHE	S4LIFETHE
.m:missing	1013	79	60	14
.p:proxy	175	7		
.r:refuse	2			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
.x:Re-interview respondent				13938
0.No	12346	13746	15262	260
1.Yes	1374	1748	2402	2150
Value-----	R1CHDEATHE	R2CHDEATHE	R3CHDEATHE	R4CHDEATHE
.d:dk	2			
.m:missing	94	95	249	192
.r:refuse	7			
0.No	16052	16443	18000	17079
1.Yes	1553	2074	2848	2545
Value-----	S1CHDEATHE	S2CHDEATHE	S3CHDEATHE	S4CHDEATHE
.m:missing	82	99	83	54
.r:refuse	4			
.u:unmar	2260	2401	2719	2926
0.No	14229	14640	16183	15085
1.Yes	1133	1472	2112	1751
Value-----	RAMISCHLTH			
.a:No life history survey	5334			
.m:missing	216			
.n:No education before age 16	3947			
0.No	15290			
1.Yes	799			
Value-----	S1MISCHLTH	S2MISCHLTH	S3MISCHLTH	S4MISCHLTH
.a:No life history survey	2514	1873	1925	2013
.m:missing	117	113	111	103
.n:No education before age 16	2488	2578	2636	2309
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
0.No	9332	10489	12400	11350
1.Yes	459	527	652	587

**How Constructed:**

RAMOMDRUG indicates whether the respondent's female guardian was an alcoholic or had a drug problem during the years they were growing up. RAMOMDRUG is assigned 0 if the respondent does not report that their female guardian was an alcoholic or had a drug problem during the years they were growing up. RAMOMDRUG is assigned 1 if the respondent reports that their female guardian was an alcoholic or had a drug problem during the years they were growing up. Special missing value (.n) is assigned if the respondent reports not having a female guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively.

RADADDRUG indicates whether the respondent's male guardian was an alcoholic or had a drug problem during the years they were growing up. RADADDRUG is assigned 0 if the respondent does not report that their male guardian was an alcoholic or had a drug problem during the years they were growing up. RADADDRUG is assigned 1 if the respondent reports that their male guardian was an alcoholic or had a drug problem during the years they were growing up. Special missing value (.n) is assigned if the respondent reports not having a male guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively.

RAPADRUG indicates whether either of the respondent's guardians was an alcoholic nor had a drug problem during the years they were growing up. RAPADRUG is assigned 0 if the respondent does not report that either of their guardians was an alcoholic or had a drug problem during the years they were growing up. RAPADRUG is assigned 1 if the respondent reports that either of their guardians was an alcoholic or had a drug problem during the years they were growing up. Special missing value (.n) is assigned if the respondent reports not having a male or female guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when these questions were asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively.

RwLIFETHE indicates whether the respondent has ever received medical treatment as the result of a traffic accident or another kind of major accidental injury. RwLIFETHE is assigned 0 if the respondent reports having never received medical treatment as the result of a traffic accident or another kind of major accidental injury. RwLIFETHE is assigned 1 if the respondent reports having ever received medical treatment as the result of a traffic accident or another kind of major accidental injury. RwLIFETHE is also assigned 1 if, at a previous wave, the respondent reported having ever received medical treatment as the result of a traffic accident or another kind of major accidental injury. At Wave 4, special missing value (.x) is assigned if the respondent participated in that wave as a re-interview respondent. While Wave 4 re-interview respondents were asked whether they have ever been in a traffic accident or any other kind of major accident and received medical treatment, the current release of CHARLS data does not include their responses. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwLIFETHE is coded as blank missing (.) if the respondent did not respond to this wave.

RwCHDEATHE indicates whether the respondent has experienced the death of his/her own child. RwCHDEATHE is assigned 0 if none of the respondent reports that none of their children have passed away. RwCHDEATHE is assigned 1 if the respondent reports that at least one of their children has passed away. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwCHDEATHE is coded as blank missing (.) if the respondent did not respond to this wave.

RAMISCHLTH indicates whether the respondent ever missed a month or more of school because of a health condition before age 16. RAMISCHLTH is assigned 0 if the respondent reports never missing a month or more of school because of a health condition before age 16. RAMISCHLTH is assigned 1 if the respondent reports missing a month or more of school because of a health condition before age 16. Special missing value (.n) is assigned if the respondent reports not having any education before age 16. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

SwMOMDRUG, SwDADDRUG, SwPADRUG, SwLIFETHE, SwCHDEATHE, and SwMISCHLTH are taken from the spouse's values of RAMOMDRUG, RADADDRUG, RAPADRUG, RwLIFETHE, RwCHDEATHE, and RAMISCHLTH, respectively. In addition to the special missing values used in RAMOMDRUG, RADADDRUG, RAPADRUG, RwLIFETHE, RwCHDEATHE, and RAMISCHLTH, SwMOMDRUG, SwDADDRUG, SwPADRUG, SwLIFETHE, SwCHDEATHE, and SwMISCHLTH employ two additional special missing values. Special missing value (.u) is assigned if the

respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Questions about paternal alcoholism and drug problems and whether the respondent ever missed a month or more of school because of a health condition before age 16 are only available in the 2014 CHARLS Life History Survey.

Questions about whether the respondent has ever received medical treatment as a result of a traffic accident or another kind of major accidental injury or whether the respondent has any children that are currently deceased are available at Waves 1 to 4. The current release of the CHARLS data does not include the responses of Wave 4 re-interview respondents to the question asking whether they have ever received medical treatment as the result of a traffic accident or another kind of major accidental injury.

At Waves 1 and 2, CHARLS asks respondents separate questions regarding how many of their biological and adopted children have passed away. Starting at Wave 3, CHARLS asks whether each previously reported living child is still alive.

## Differences with the RAND HRS/Harmonized HRS

HRS asks respondents whether their parents' drinking and drug behavior caused a problem to the family in a single question, whereas CHARLS asks respondents about male and female guardian's alcoholism and drug problems in separate questions.

CHARLS asks respondents whether they have ever received medical treatment as the result of a traffic accident or another kind of major accidental injury, whereas HRS asks if the respondent has ever had a life-threatening illness or accident.

At Waves 1 and 2, CHARLS asks respondents separate questions regarding how many of their biological and adoptive children have passed away. Starting at Wave 3, CHARLS asks whether each previously reported living child is still alive. HRS always asks respondents whether a child of theirs has died in a single question and does not differentiate between biological and adoptive children.

## CHARLS Variables Used:

### Wave 1:

CB003	Num. of Dead Children
CB011	Num. of Passed Away Adopted or Step Children
CB019	biological children who have died
CB027	biological children that have passed away
CB035	biological children of spouse that have passed away
CB043	adopted children that have passed away
DA021	Traffic Accident or Major Accidental Injury

### Wave 2:

CB003	Num of Deceased Biological Children
CB011	Number of Deceased Adopted/Foster/Step Children
CB019	Number of Deceased Biological Children
CB027	Number of Deceased Your Own Biological Children
CB035	Number of Deceased Your Own Biological Children
CB043	Number of Deceased Your and Your Spouse's Adopted/Foster/Step C
DA021	Traffic Accident or Major Accidental Injury

### Life History:

A4A	Who Spent Most Time Raising You
A4B	Who Spent Most Time Raising You
H9_AS1	Did Female Dependents Have This Problem
H9_AS2	Did Female Dependents Have This Problem
H9_AS3	Did Female Dependents Have This Problem
H9_AS4	Did Female Dependents Have This Problem
H9_AS5	Did Female Dependents Have This Problem
H9_BS1	Did Female Dependents Have This Problem
H9_BS2	Did Female Dependents Have This Problem
H9_BS3	Did Female Dependents Have This Problem
H9_BS4	Did Female Dependents Have This Problem
H9_BS5	Did Female Dependents Have This Problem
HS003	Childhood Missing School



## Wave 3:

DA021	Traffic Accident or Major Accidental Injury
XCHILDALIVE_10_	Whether R's No.10 Child Is Alive Or Not
XCHILDALIVE_11_	Whether R's No.11 Child Is Alive Or Not
XCHILDALIVE_12_	Whether R's No.12 Child Is Alive Or Not
XCHILDALIVE_13_	Whether R's No.13 Child Is Alive Or Not
XCHILDALIVE_14_	Whether R's No.14 Child Is Alive Or Not
XCHILDALIVE_15_	Whether R's No.15 Child Is Alive Or Not
XCHILDALIVE_16_	Whether R's No.16 Child Is Alive Or Not
XCHILDALIVE_17_	Whether R's No.17 Child Is Alive Or Not
XCHILDALIVE_18_	Whether R's No.18 Child Is Alive Or Not
XCHILDALIVE_19_	Whether R's No.19 Child Is Alive Or Not
XCHILDALIVE_1_	Whether R's No.1 Child Is Alive Or Not
XCHILDALIVE_20_	Whether R's No.20 Child Is Alive Or Not
XCHILDALIVE_2_	Whether R's No.2 Child Is Alive Or Not
XCHILDALIVE_3_	Whether R's No.3 Child Is Alive Or Not
XCHILDALIVE_4_	Whether R's No.4 Child Is Alive Or Not
XCHILDALIVE_5_	Whether R's No.5 Child Is Alive Or Not
XCHILDALIVE_6_	Whether R's No.6 Child Is Alive Or Not
XCHILDALIVE_7_	Whether R's No.7 Child Is Alive Or Not
XCHILDALIVE_8_	Whether R's No.8 Child Is Alive Or Not
XCHILDALIVE_9_	Whether R's No.9 Child Is Alive Or Not

## Wave 4:

DA021	Traffic Accident/Injury and Received Medical Treatment
XCHILDALIVE_10_	XChildAlive[10]
XCHILDALIVE_11_	XChildAlive[11]
XCHILDALIVE_12_	XChildAlive[12]
XCHILDALIVE_13_	XChildAlive[13]
XCHILDALIVE_14_	XChildAlive[14]
XCHILDALIVE_15_	XChildAlive[15]
XCHILDALIVE_16_	XChildAlive[16]
XCHILDALIVE_1_	XChildAlive[1]
XCHILDALIVE_2_	XChildAlive[2]
XCHILDALIVE_3_	XChildAlive[3]
XCHILDALIVE_4_	XChildAlive[4]
XCHILDALIVE_5_	XChildAlive[5]
XCHILDALIVE_6_	XChildAlive[6]
XCHILDALIVE_7_	XChildAlive[7]
XCHILDALIVE_8_	XChildAlive[8]
XCHILDALIVE_9_	XChildAlive[9]
XCHILDTYPE_10_	XChildType[10]
XCHILDTYPE_11_	XChildType[11]
XCHILDTYPE_12_	XChildType[12]
XCHILDTYPE_13_	XChildType[13]
XCHILDTYPE_14_	XChildType[14]
XCHILDTYPE_15_	XChildType[15]
XCHILDTYPE_16_	XChildType[16]
XCHILDTYPE_1_	XChildType[1]
XCHILDTYPE_2_	XChildType[2]
XCHILDTYPE_3_	XChildType[3]
XCHILDTYPE_4_	XChildType[4]
XCHILDTYPE_5_	XChildType[5]
XCHILDTYPE_6_	XChildType[6]
XCHILDTYPE_7_	XChildType[7]
XCHILDTYPE_8_	XChildType[8]
XCHILDTYPE_9_	XChildType[9]
XRTYPE	Respondent Type

<b>Self-Rated Childhood Health and Finances</b>
---

Wave	Variable	Label	Type
1	RAHLTCOM	rahlcom:r health condition compared to other children of sa	Categ
1	S1HLTCOM	s1hltcom:w1 s health condition compared to other children of	Categ
2	S2HLTCOM	s2hltcom:w2 s health condition compared to other children of	Categ
3	S3HLTCOM	s3hltcom:w3 s health condition compared to other children of	Categ
4	S4HLTCOM	s4hltcom:w4 s health condition compared to other children of	Categ
1	RAFINACOM	rafinacom:r financial status compared to avg family in same	Categ
1	S1FINACOM	s1finacom:w1 s financial status compared to avg family in sa	Categ
2	S2FINACOM	s2finacom:w2 s financial status compared to avg family in sa	Categ
3	S3FINACOM	s3finacom:w3 s financial status compared to avg family in sa	Categ
4	S4FINACOM	s4finacom:w4 s financial status compared to avg family in sa	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAHLTCOM	19997	2.66	1.01	1.00	5.00
S1HLTCOM	12272	2.67	1.01	1.00	5.00
S2HLTCOM	13596	2.66	1.01	1.00	5.00
S3HLTCOM	15688	2.65	1.01	1.00	5.00
S4HLTCOM	14261	2.64	1.01	1.00	5.00
RAFINACOM	20009	3.52	0.98	1.00	5.00
S1FINACOM	12289	3.54	0.97	1.00	5.00
S2FINACOM	13594	3.53	0.97	1.00	5.00
S3FINACOM	15693	3.52	0.97	1.00	5.00
S4FINACOM	14255	3.52	0.97	1.00	5.00

### Categorical Variable Codes

Value-----	RAHLTCOM			
.a:No life history survey	5334			
.m:missing	255			
1.Much healthier	3329			
2.Somewhat healthier	3714			
3.About average	10333			
4.Somewhat less healthy	1599			
5.Much less healthy	1022			
Value-----	S1HLTCOM	S2HLTCOM	S3HLTCOM	S4HLTCOM
.a:No life history survey	2514	1873	1925	2013
.m:missing	124	111	111	88
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Much healthier	2016	2245	2670	2472
2.Somewhat healthier	2265	2531	2909	2630
3.About average	6400	7067	8113	7354
4.Somewhat less healthy	952	1056	1235	1118
5.Much less healthy	639	697	761	687
Value-----	RAFINACOM			
.a:No life history survey	5334			
.m:missing	243			
1.A lot better off than them	241			
2.Somewhat better off than them	1710			
3.Same as them	10193			
4.Somewhat worse off than them	3189			

Value-----	S1FINACOM	S2FINACOM	S3FINACOM	S4FINACOM
5.A lot worse off than them	4676			
.a:No life history survey	2514	1873	1925	2013
.m:missing	107	113	106	94
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.A lot better off than them	116	144	177	154
2.Somewhat better off than them	965	1084	1298	1195
3.Same as them	6321	7000	8103	7306
4.Somewhat worse off than them	1957	2147	2473	2297
5.A lot worse off than them	2930	3219	3642	3303

### How Constructed:

RAHLTCOM indicates the respondent's self-rated health condition before age 16 compared to the other children of the same age. RAHLTCOM uses a scale ranging from 1 for "Much Healthier" to 5 for "Much Less Healthy". Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

RAFINACOM indicates the respondent's self-rated family financial situation before age 17 compared to the average family in the same community/village. RAFINACOM uses a scale ranging from 1 for "A lot better off than them" to 5 for "A lot worse off than them". Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

SwHLTCOM and SwFINACOM are taken from the spouse's values of RAHLTCOM and RAFINACOM, respectively. In addition to the special missing values used in RAHLTCOM and RAFINACOM, SwHLTCOM and SwFINACOM employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

Questions about the respondent's self-rated health condition before age 16 compared to other children of the same age and the respondent's self-rated family financial situation before age 17 compared to the average family in the same community/village are only available in the 2014 CHARLS Life History Survey.

### Differences with the RAND HRS/Harmonized HRS

CHARLS asks respondents to compare their health condition and financial situation to others, whereas HRS asks respondents to rate their own health condition and financial situation.

### CHARLS Variables Used:

Life History:

C4_A	Family's Financial Situation
HS002	Childhood Health Status

<b>Parental Warmth</b>
------------------------

Wave	Variable	Label	Type
1	RAMOMEFT	ramomeft:female guardian put effort into watching over r	Categ
1	S1MOMEFT	s1momeft:w1 female guardian put effort into watching over s	Categ
2	S2MOMEFT	s2momeft:w2 female guardian put effort into watching over s	Categ
3	S3MOMEFT	s3momeft:w3 female guardian put effort into watching over s	Categ
4	S4MOMEFT	s4momeft:w4 female guardian put effort into watching over s	Categ
1	RAMOMATT_C	ramomatt_c:r received female guardian's love and affection w	Categ
1	S1MOMATT_C	s1momatt_c:w1 s received female guardian's love and affectio	Categ
2	S2MOMATT_C	s2momatt_c:w2 s received female guardian's love and affectio	Categ
3	S3MOMATT_C	s3momatt_c:w3 s received female guardian's love and affectio	Categ
4	S4MOMATT_C	s4momatt_c:w4 s received female guardian's love and affectio	Categ
1	RAMOMGRELA	ramomgrela:r good relationship with female guardian when gro	Categ
1	S1MOMGRELA	s1momgrela:w1 s good relationship with female guardian when	Categ
2	S2MOMGRELA	s2momgrela:w2 s good relationship with female guardian when	Categ
3	S3MOMGRELA	s3momgrela:w3 s good relationship with female guardian when	Categ
4	S4MOMGRELA	s4momgrela:w4 s good relationship with female guardian when	Categ
1	RADADGRELA	radadgrela:r good relationship with male guardian when growi	Categ
1	S1DADGRELA	s1dadgrela:w1 s good relationship with male guardian when gr	Categ
2	S2DADGRELA	s2dadgrela:w2 s good relationship with male guardian when gr	Categ
3	S3DADGRELA	s3dadgrela:w3 s good relationship with male guardian when gr	Categ
4	S4DADGRELA	s4dadgrela:w4 s good relationship with male guardian when gr	Categ
1	RAMWARMM_C	ramwarmm_c:missings in r female guardian warmth summary mean	Cont
1	S1MWARM_C	s1mwarmm_c:w1 missings in s female guardian warmth summary m	Cont
2	S2MWARM_C	s2mwarmm_c:w2 missings in s female guardian warmth summary m	Cont
3	S3MWARM_C	s3mwarmm_c:w3 missings in s female guardian warmth summary m	Cont
4	S4MWARM_C	s4mwarmm_c:w4 missings in s female guardian warmth summary m	Cont
1	RAMWARM_C	ramwarm_c:r female guardian warmth summary mean score	Cont
1	S1MWARM_C	s1mwarm_c:w1 s female guardian warmth summary mean score	Cont
2	S2MWARM_C	s2mwarm_c:w2 s female guardian warmth summary mean score	Cont
3	S3MWARM_C	s3mwarm_c:w3 s female guardian warmth summary mean score	Cont
4	S4MWARM_C	s4mwarm_c:w4 s female guardian warmth summary mean score	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAMOMEFT	18983	1.73	0.96	1.00	4.00
S1MOMEFT	11665	1.74	0.96	1.00	4.00
S2MOMEFT	12943	1.74	0.96	1.00	4.00
S3MOMEFT	15049	1.73	0.95	1.00	4.00
S4MOMEFT	13714	1.72	0.95	1.00	4.00
RAMOMATT_C	18936	1.70	1.00	1.00	4.00
S1MOMATT_C	11653	1.68	1.00	1.00	4.00
S2MOMATT_C	12909	1.69	1.00	1.00	4.00
S3MOMATT_C	15021	1.69	1.00	1.00	4.00
S4MOMATT_C	13681	1.68	0.99	1.00	4.00
RAMOMGRELA	19135	2.19	1.10	1.00	5.00
S1MOMGRELA	11762	2.21	1.10	1.00	5.00

S2MOMGRELA	13034	2.20	1.10	1.00	5.00
S3MOMGRELA	15158	2.19	1.10	1.00	5.00
S4MOMGRELA	13805	2.18	1.09	1.00	5.00
RADADGRELA	18588	2.30	1.12	1.00	5.00
S1DADGRELA	11415	2.31	1.12	1.00	5.00
S2DADGRELA	12664	2.32	1.12	1.00	5.00
S3DADGRELA	14757	2.29	1.12	1.00	5.00
S4DADGRELA	13489	2.28	1.11	1.00	5.00
RAMWARMM_C	25586	0.77	1.30	0.00	3.00
S1MWARMM_C	14910	0.65	1.22	0.00	3.00
S2MWARMM_C	15580	0.50	1.11	0.00	3.00
S3MWARMM_C	17724	0.45	1.05	0.00	3.00
S4MWARMM_C	16362	0.48	1.09	0.00	3.00
RAMWARM_C	19186	1.79	0.69	1.00	4.00
S1MWARM_C	11793	1.79	0.69	1.00	4.00
S2MWARM_C	13071	1.79	0.69	1.00	4.00
S3MWARM_C	15194	1.79	0.69	1.00	4.00
S4MWARM_C	13838	1.78	0.68	1.00	4.00

### Categorical Variable Codes

Value-----	RAMOMEFT
.a:No life history survey	5334
.m:missing	801
.n:No female guardian	468
1.A lot	10622
2.Some	4024
3.A little	3099
4.Not at all	1238

Value-----	S1MOMEFT	S2MOMEFT	S3MOMEFT	S4MOMEFT
.a:No life history survey	2514	1873	1925	2013
.m:missing	432	449	414	333
.n:No female guardian	299	315	336	302
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.A lot	6556	7201	8434	7726
2.Some	2429	2744	3177	2902
3.A little	1890	2140	2466	2243
4.Not at all	790	858	972	843

Value-----	RAMOMATT_C
.a:No life history survey	5334
.m:missing	848
.n:No female guardian	468
1.Often	11521
2.Sometimes	3391
3.Rarely	2262
4.Never	1762

Value-----	S1MOMATT_C	S2MOMATT_C	S3MOMATT_C	S4MOMATT_C
.a:No life history survey	2514	1873	1925	2013
.m:missing	444	483	442	366
.n:No female guardian	299	315	336	302
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Often	7163	7880	9163	8378
2.Sometimes	2072	2331	2724	2470
3.Rarely	1357	1520	1786	1627
4.Never	1061	1178	1348	1206

Value-----	RAMOMGRELA			
.a:No life history survey	5334			
.m:missing	649			
.n:No female guardian	468			
1.Excellent	6474			
2.Very good	6070			
3.Good	3310			
4.Fair	3107			
5.Poor	174			
Value-----	S1MOMGRELA	S2MOMGRELA	S3MOMGRELA	S4MOMGRELA
.a:No life history survey	2514	1873	1925	2013
.m:missing	335	358	305	242
.n:No female guardian	299	315	336	302
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Excellent	3897	4299	5101	4674
2.Very good	3718	4178	4876	4457
3.Good	2086	2269	2548	2338
4.Fair	1945	2173	2500	2232
5.Poor	116	115	133	104
Value-----	RADADGRELA			
.a:No life history survey	5334			
.m:missing	784			
.n:No male guardian	880			
1.Excellent	5546			
2.Very good	5952			
3.Good	3379			
4.Fair	3479			
5.Poor	232			
Value-----	S1DADGRELA	S2DADGRELA	S3DADGRELA	S4DADGRELA
.a:No life history survey	2514	1873	1925	2013
.m:missing	429	462	413	324
.n:No male guardian	552	581	629	536
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Excellent	3326	3641	4384	4046
2.Very good	3657	4115	4792	4391
3.Good	2111	2330	2615	2383
4.Fair	2180	2424	2790	2524
5.Poor	141	154	176	145

### How Constructed:

RAMOMEFT indicates the respondent's judgement of how much effort their female guardian put into watching them while they were growing up. RAMOMLEFT uses a scale ranging from 1 for "A lot" to 4 for "None at all". Special missing value (.n) is assigned if the respondent reports not having a female guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

RAMOMATT\_C indicates the respondent's judgement of how much love and affection their female guardian gave them while they were growing up. RAMOMATT\_C uses a scale ranging from 1 for "Often" to 4 for "Never". Special missing value (.n) is assigned if the respondent reports not having a female guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

RAMOMGRELA indicates the respondent's self-rated relationship with their female guardian while they were growing up. RAMOMGRELA uses a scale ranging from 1 for "Excellent" to 5 for "Poor". Special missing value (.n) is assigned if the respondent reports not having a female guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know,

refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

RADADGRELA indicates the respondent's self-rated relationship with their male guardian while they were growing up. RADADGRELA uses a scale ranging from 1 for "Excellent" to 5 for "Poor". Special missing value (.n) is assigned if the respondent reports not having a male guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when this question was asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

RAMWARM\_C is a measure of mean maternal warmth. RAPWARM\_C is based on three components: how much effort the respondent's female guardian put into watching them while they were growing up (RAMOMEFT), how much love and affection the respondent's female guardian gave them while they were growing up (RAMOMATT\_C), and the respondent's self-rated relationship with their female guardian while they were growing up (RAMOMGRELA). To construct a mean score, RAMOMGRELA was transformed from a five-point scale to a four-point scale to be more comparable to RAMOMEFT and RAMOMATT\_C. Special missing value (.n) is assigned if the respondent reports not having a female guardian during the years they were growing up. Special missing value (.a) is assigned if the respondent did not participate in the 2014 CHARLS Life History Survey when these questions were asked. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m) respectively.

RAMWARMM\_C is the number of RAMWARM\_C components with missing values.

SwMOMEFT, SwMOMATT\_C, SwMOMGRELA, SwDADGRELA, SwPWARM\_C, and SwPWARMM\_C are taken from the spouse's values of RAMOMEFT, RAMOMATT\_C, RAMOMGRELA, RADADGRELA, RAPWARM\_C, and RAPWARMM\_C, respectively. In addition to the special missing values used in RAMOMEFT, RAMOMATT\_C, RAMOMGRELA, RADADGRELA, RAPWARM\_C, and RAPWARMM\_C, SwMOMEFT, SwMOMATT\_C, SwMOMGRELA, SwDADGRELA, SwPWARM\_C, and SwPWARMM\_C employ two additional special missing values. Special missing (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

Questions about parental warmth are only available in the 2014 CHARLS Life History Survey.

## Differences with the RAND HRS/Harmonized HRS

CHARLS asks respondents how much love and affection their female guardian give them while they were growing up, whereas HRS asks respondents how much time and attention the respondent's mother gave them when they needed it before age 18.

## CHARLS Variables Used:

A4A	Who Spent Most Time Raising You
A4B	Who Spent Most Time Raising You
J1_A	Relationship with Female Dependents
J1_B	Relationship with Male Dependents
J3_A	How Much Love and Affection Female Dependents Give You
J4_A	How Much Effort Female Dependents Put into Watching over You

## **Section Q: Psychosocial**



<b>Mental Health (CESD score)</b>
-----------------------------------

Wave	Variable	Label	Type
1	R1DEPRESL	r1depresl:w1 r CESD: Felt depressed	Categ
2	R2DEPRESL	r2depresl:w2 r CESD: Felt depressed	Categ
3	R3DEPRESL	r3depresl:w3 r CESD: Felt depressed	Categ
4	R4DEPRESL	r4depresl:w4 r CESD: Felt depressed	Categ
1	S1DEPRESL	s1depresl:w1 s CESD: Felt depressed	Categ
2	S2DEPRESL	s2depresl:w2 s CESD: Felt depressed	Categ
3	S3DEPRESL	s3depresl:w3 s CESD: Felt depressed	Categ
4	S4DEPRESL	s4depresl:w4 s CESD: Felt depressed	Categ
1	R1EFFORTL	r1effortl:w1 r CESD: Everything an effort	Categ
2	R2EFFORTL	r2effortl:w2 r CESD: Everything an effort	Categ
3	R3EFFORTL	r3effortl:w3 r CESD: Everything an effort	Categ
4	R4EFFORTL	r4effortl:w4 r CESD: Everything an effort	Categ
1	S1EFFORTL	s1effortl:w1 s CESD: Everything an effort	Categ
2	S2EFFORTL	s2effortl:w2 s CESD: Everything an effort	Categ
3	S3EFFORTL	s3effortl:w3 s CESD: Everything an effort	Categ
4	S4EFFORTL	s4effortl:w4 s CESD: Everything an effort	Categ
1	R1SLEEPRL	r1sleeprl:w1 r CESD: Sleep was restless	Categ
2	R2SLEEPRL	r2sleeprl:w2 r CESD: Sleep was restless	Categ
3	R3SLEEPRL	r3sleeprl:w3 r CESD: Sleep was restless	Categ
4	R4SLEEPRL	r4sleeprl:w4 r CESD: Sleep was restless	Categ
1	S1SLEEPRL	s1sleeprl:w1 s CESD: Sleep was restless	Categ
2	S2SLEEPRL	s2sleeprl:w2 s CESD: Sleep was restless	Categ
3	S3SLEEPRL	s3sleeprl:w3 s CESD: Sleep was restless	Categ
4	S4SLEEPRL	s4sleeprl:w4 s CESD: Sleep was restless	Categ
1	R1WHAPPYL	r1whappyl:w1 r CESD: Was happy	Categ
2	R2WHAPPYL	r2whappyl:w2 r CESD: Was happy	Categ
3	R3WHAPPYL	r3whappyl:w3 r CESD: Was happy	Categ
4	R4WHAPPYL	r4whappyl:w4 r CESD: Was happy	Categ
1	S1WHAPPYL	s1whappyl:w1 s CESD: Was happy	Categ
2	S2WHAPPYL	s2whappyl:w2 s CESD: Was happy	Categ
3	S3WHAPPYL	s3whappyl:w3 s CESD: Was happy	Categ
4	S4WHAPPYL	s4whappyl:w4 s CESD: Was happy	Categ
1	R1FLONEL	r1flonel:w1 r CESD: Felt lonely	Categ
2	R2FLONEL	r2flonel:w2 r CESD: Felt lonely	Categ
3	R3FLONEL	r3flonel:w3 r CESD: Felt lonely	Categ
4	R4FLONEL	r4flonel:w4 r CESD: Felt lonely	Categ
1	S1FLONEL	s1flonel:w1 s CESD: Felt lonely	Categ
2	S2FLONEL	s2flonel:w2 s CESD: Felt lonely	Categ
3	S3FLONEL	s3flonel:w3 s CESD: Felt lonely	Categ
4	S4FLONEL	s4flonel:w4 s CESD: Felt lonely	Categ
1	R1BOTHERL	r1botherl:w1 r CESD: Bothered by little things	Categ
2	R2BOTHERL	r2botherl:w2 r CESD: Bothered by little things	Categ
3	R3BOTHERL	r3botherl:w3 r CESD: Bothered by little things	Categ
4	R4BOTHERL	r4botherl:w4 r CESD: Bothered by little things	Categ
1	S1BOTHERL	s1botherl:w1 s CESD: Bothered by little things	Categ
2	S2BOTHERL	s2botherl:w2 s CESD: Bothered by little things	Categ
3	S3BOTHERL	s3botherl:w3 s CESD: Bothered by little things	Categ
4	S4BOTHERL	s4botherl:w4 s CESD: Bothered by little things	Categ
1	R1GOINGL	r1goingl:w1 r CESD: Could not get going	Categ
2	R2GOINGL	r2goingl:w2 r CESD: Could not get going	Categ
3	R3GOINGL	r3goingl:w3 r CESD: Could not get going	Categ

4	R4GOINGL	r4goingl:w4	r	CESD: Could not get going	Categ
1	S1GOINGL	s1goingl:w1	s	CESD: Could not get going	Categ
2	S2GOINGL	s2goingl:w2	s	CESD: Could not get going	Categ
3	S3GOINGL	s3goingl:w3	s	CESD: Could not get going	Categ
4	S4GOINGL	s4goingl:w4	s	CESD: Could not get going	Categ
1	R1MINDTSL	r1mindtsl:w1	r	CESD: Had trouble keeping mind on what is doi	Categ
2	R2MINDTSL	r2mindtsl:w2	r	CESD: Had trouble keeping mind on what is doi	Categ
3	R3MINDTSL	r3mindtsl:w3	r	CESD: Had trouble keeping mind on what is doi	Categ
4	R4MINDTSL	r4mindtsl:w4	r	CESD: Had trouble keeping mind on what is doi	Categ
1	S1MINDTSL	s1mindtsl:w1	s	CESD: Had trouble keeping mind on what is doi	Categ
2	S2MINDTSL	s2mindtsl:w2	s	CESD: Had trouble keeping mind on what is doi	Categ
3	S3MINDTSL	s3mindtsl:w3	s	CESD: Had trouble keeping mind on what is doi	Categ
4	S4MINDTSL	s4mindtsl:w4	s	CESD: Had trouble keeping mind on what is doi	Categ
1	R1FHOPEL	r1fhopeL:w1	r	CESD: Feel hopeful about the future	Categ
2	R2FHOPEL	r2fhopeL:w2	r	CESD: Feel hopeful about the future	Categ
3	R3FHOPEL	r3fhopeL:w3	r	CESD: Feel hopeful about the future	Categ
4	R4FHOPEL	r4fhopeL:w4	r	CESD: Feel hopeful about the future	Categ
1	S1FHOPEL	s1fhopeL:w1	s	CESD: Feel hopeful about the future	Categ
2	S2FHOPEL	s2fhopeL:w2	s	CESD: Feel hopeful about the future	Categ
3	S3FHOPEL	s3fhopeL:w3	s	CESD: Feel hopeful about the future	Categ
4	S4FHOPEL	s4fhopeL:w4	s	CESD: Feel hopeful about the future	Categ
1	R1FEARLL	r1fearll:w1	r	CESD: Feel fearful	Categ
2	R2FEARLL	r2fearll:w2	r	CESD: Feel fearful	Categ
3	R3FEARLL	r3fearll:w3	r	CESD: Feel fearful	Categ
4	R4FEARLL	r4fearll:w4	r	CESD: Feel fearful	Categ
1	S1FEARLL	s1fearll:w1	s	CESD: Feel fearful	Categ
2	S2FEARLL	s2fearll:w2	s	CESD: Feel fearful	Categ
3	S3FEARLL	s3fearll:w3	s	CESD: Feel fearful	Categ
4	S4FEARLL	s4fearll:w4	s	CESD: Feel fearful	Categ
1	R1CESD10	r1cesd10:w1	r	CESD Score	Cont
2	R2CESD10	r2cesd10:w2	r	CESD Score	Cont
3	R3CESD10	r3cesd10:w3	r	CESD Score	Cont
4	R4CESD10	r4cesd10:w4	r	CESD Score	Cont
1	S1CESD10	s1cesd10:w1	s	CESD Score	Cont
2	S2CESD10	s2cesd10:w2	s	CESD Score	Cont
3	S3CESD10	s3cesd10:w3	s	CESD Score	Cont
4	S4CESD10	s4cesd10:w4	s	CESD Score	Cont
1	R1CESD10M	r1cesd10m:w1	r	Missing in CESD Score	Cont
2	R2CESD10M	r2cesd10m:w2	r	Missing in CESD Score	Cont
3	R3CESD10M	r3cesd10m:w3	r	Missing in CESD Score	Cont
4	R4CESD10M	r4cesd10m:w4	r	Missing in CESD Score	Cont
1	S1CESD10M	s1cesd10m:w1	s	Missing in CESD Score	Cont
2	S2CESD10M	s2cesd10m:w2	s	Missing in CESD Score	Cont
3	S3CESD10M	s3cesd10m:w3	s	Missing in CESD Score	Cont
4	S4CESD10M	s4cesd10m:w4	s	Missing in CESD Score	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DEPRESL	15860	1.98	1.07	1.00	4.00
R2DEPRESL	16332	1.75	1.01	1.00	4.00
R3DEPRESL	19355	1.84	1.08	1.00	4.00
R4DEPRESL	17607	1.92	1.08	1.00	4.00
S1DEPRESL	13416	1.96	1.06	1.00	4.00
S2DEPRESL	13871	1.73	0.99	1.00	4.00

## Section Q: Psychosocial

818

S3DEPRESL	16507	1.81	1.06	1.00	4.00
S4DEPRESL	14801	1.89	1.06	1.00	4.00
R1EFFORTL	15890	2.01	1.14	1.00	4.00
R2EFFORTL	16363	1.79	1.09	1.00	4.00
R3EFFORTL	19364	1.82	1.13	1.00	4.00
R4EFFORTL	17586	1.97	1.16	1.00	4.00
S1EFFORTL	13442	1.99	1.14	1.00	4.00
S2EFFORTL	13900	1.78	1.08	1.00	4.00
S3EFFORTL	16525	1.79	1.11	1.00	4.00
S4EFFORTL	14795	1.94	1.14	1.00	4.00
R1SLEEPRL	15991	2.05	1.19	1.00	4.00
R2SLEEPRL	16498	2.02	1.19	1.00	4.00
R3SLEEPRL	19529	2.02	1.21	1.00	4.00
R4SLEEPRL	17859	2.13	1.22	1.00	4.00
S1SLEEPRL	13520	2.02	1.18	1.00	4.00
S2SLEEPRL	13981	1.99	1.18	1.00	4.00
S3SLEEPRL	16638	1.98	1.19	1.00	4.00
S4SLEEPRL	14985	2.10	1.20	1.00	4.00
R1WHAPPYL	15948	2.94	1.11	1.00	4.00
R2WHAPPYL	16438	2.61	1.23	1.00	4.00
R3WHAPPYL	19392	2.93	1.21	1.00	4.00
R4WHAPPYL	17740	2.95	1.19	1.00	4.00
S1WHAPPYL	13486	2.96	1.11	1.00	4.00
S2WHAPPYL	13943	2.63	1.23	1.00	4.00
S3WHAPPYL	16541	2.96	1.19	1.00	4.00
S4WHAPPYL	14911	2.98	1.17	1.00	4.00
R1FLONEL	15924	1.54	0.95	1.00	4.00
R2FLONEL	16421	1.42	0.87	1.00	4.00
R3FLONEL	19438	1.51	0.97	1.00	4.00
R4FLONEL	17718	1.60	1.01	1.00	4.00
S1FLONEL	13465	1.45	0.87	1.00	4.00
S2FLONEL	13931	1.35	0.79	1.00	4.00
S3FLONEL	16573	1.42	0.88	1.00	4.00
S4FLONEL	14892	1.51	0.93	1.00	4.00
R1BOTHERL	15921	2.03	1.11	1.00	4.00
R2BOTHERL	16332	1.75	1.03	1.00	4.00
R3BOTHERL	19389	1.87	1.11	1.00	4.00
R4BOTHERL	17603	1.93	1.10	1.00	4.00
S1BOTHERL	13459	2.03	1.11	1.00	4.00
S2BOTHERL	13868	1.75	1.02	1.00	4.00
S3BOTHERL	16548	1.85	1.10	1.00	4.00
S4BOTHERL	14817	1.92	1.09	1.00	4.00
R1GOINGL	15886	1.37	0.79	1.00	4.00
R2GOINGL	16386	1.27	0.72	1.00	4.00
R3GOINGL	19343	1.33	0.81	1.00	4.00
R4GOINGL	17551	1.42	0.88	1.00	4.00
S1GOINGL	13445	1.34	0.77	1.00	4.00
S2GOINGL	13904	1.25	0.69	1.00	4.00
S3GOINGL	16520	1.30	0.76	1.00	4.00
S4GOINGL	14773	1.39	0.84	1.00	4.00
R1MINDTSL	15825	1.92	1.08	1.00	4.00
R2MINDTSL	16197	1.73	1.03	1.00	4.00
R3MINDTSL	19167	1.82	1.09	1.00	4.00
R4MINDTSL	17266	1.92	1.09	1.00	4.00
S1MINDTSL	13405	1.90	1.08	1.00	4.00

S2MINDTSL	13769	1.72	1.02	1.00	4.00
S3MINDTSL	16381	1.80	1.08	1.00	4.00
S4MINDTSL	14572	1.90	1.08	1.00	4.00
R1FHOPEL	15631	2.83	1.20	1.00	4.00
R2FHOPEL	16052	2.45	1.29	1.00	4.00
R3FHOPEL	18796	2.63	1.30	1.00	4.00
R4FHOPEL	16977	2.68	1.27	1.00	4.00
S1FHOPEL	13230	2.86	1.19	1.00	4.00
S2FHOPEL	13653	2.48	1.29	1.00	4.00
S3FHOPEL	16074	2.67	1.29	1.00	4.00
S4FHOPEL	14317	2.71	1.26	1.00	4.00
R1FEARLL	15972	1.36	0.78	1.00	4.00
R2FEARLL	16478	1.27	0.72	1.00	4.00
R3FEARLL	19524	1.31	0.77	1.00	4.00
R4FEARLL	17825	1.39	0.84	1.00	4.00
S1FEARLL	13501	1.35	0.77	1.00	4.00
S2FEARLL	13964	1.26	0.70	1.00	4.00
S3FEARLL	16637	1.29	0.75	1.00	4.00
S4FEARLL	14966	1.38	0.82	1.00	4.00
R1CESD10	16037	8.40	6.33	0.00	30.00
R2CESD10	16567	7.83	5.77	0.00	30.00
R3CESD10	19611	7.82	6.33	0.00	30.00
R4CESD10	18005	8.43	6.45	0.00	30.00
S1CESD10	13551	8.14	6.23	0.00	30.00
S2CESD10	14032	7.61	5.66	0.00	30.00
S3CESD10	16696	7.52	6.16	0.00	30.00
S4CESD10	15086	8.15	6.30	0.00	30.00
R1CESD10M	17708	1.03	2.95	0.00	10.00
R2CESD10M	18612	1.22	3.15	0.00	10.00
R3CESD10M	21097	0.84	2.60	0.00	10.00
R4CESD10M	19816	1.13	2.94	0.00	10.00
S1CESD10M	14910	0.99	2.90	0.00	10.00
S2CESD10M	15580	1.09	3.01	0.00	10.00
S3CESD10M	17724	0.69	2.38	0.00	10.00
S4CESD10M	16362	0.97	2.74	0.00	10.00

### Categorical Variable Codes

Value-----	R1DEPRESL	R2DEPRESL	R3DEPRESL	R4DEPRESL
.d:dk	195			369
.m:missing	170	1803	487	731
.p:proxy	1473	477	1255	946
.r:refuse	10			163
1.Rarely or none of the time < 1 day	7240	9395	10733	8792
2.Some or a little of the time 1-2 days	3673	3166	3267	3725
3.Occasionally or a moderate amount of 3	2988	2267	3065	2803
4.Most or all of the time 5-7 days	1959	1504	2290	2287

Value-----	S1DEPRESL	S2DEPRESL	S3DEPRESL	S4DEPRESL
.d:dk	147			265
.m:missing	68	1333	282	462
.p:proxy	1272	376	935	721
.r:refuse	7			113
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	6233	8091	9308	7478
2.Some or a little of the time 1-2 days	3086	2702	2834	3187
3.Occasionally or a moderate amount of 3	2512	1876	2558	2357
4.Most or all of the time 5-7 days	1585	1202	1807	1779

Value-----	R1EFFORTL	R2EFFORTL	R3EFFORTL	R4EFFORTL
.d:dk	164			387
.m:missing	170	1772	481	731
.p:proxy	1473	477	1252	946
.r:refuse	11			166
1.Rarely or none of the time < 1 day	7710	9694	11555	9008
2.Some or a little of the time 1-2 days	2951	2499	2595	3097
3.Occasionally or a moderate amount of 3	2624	2022	2354	2450
4.Most or all of the time 5-7 days	2605	2148	2860	3031

Value-----	S1EFFORTL	S2EFFORTL	S3EFFORTL	S4EFFORTL
.d:dk	119			264
.m:missing	68	1304	267	462
.p:proxy	1272	376	932	720
.r:refuse	9			121
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	6643	8303	9996	7707
2.Some or a little of the time 1-2 days	2469	2142	2235	2655
3.Occasionally or a moderate amount of 3	2204	1716	2003	2040
4.Most or all of the time 5-7 days	2126	1739	2291	2393

Value-----	R1SLEEPRL	R2SLEEPRL	R3SLEEPRL	R4SLEEPRL
.d:dk	63			151
.m:missing	171	1637	316	731
.p:proxy	1473	477	1252	946
.r:refuse	10			129
1.Rarely or none of the time < 1 day	7791	8323	10167	8255
2.Some or a little of the time 1-2 days	2682	2652	2725	2922
3.Occasionally or a moderate amount of 3	2379	2312	2709	2713
4.Most or all of the time 5-7 days	3139	3211	3928	3969

Value-----	S1SLEEPRL	S2SLEEPRL	S3SLEEPRL	S4SLEEPRL
.d:dk	42			102
.m:missing	68	1223	154	462
.p:proxy	1272	376	932	721
.r:refuse	8			92
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	6760	7221	8881	7097
2.Some or a little of the time 1-2 days	2240	2256	2331	2496
3.Occasionally or a moderate amount of 3	1964	1904	2274	2261
4.Most or all of the time 5-7 days	2556	2600	3152	3131

Value-----	R1WHAPPYL	R2WHAPPYL	R3WHAPPYL	R4WHAPPYL
.d:dk	102			243
.m:missing	171	1697	451	731
.p:proxy	1473	477	1254	947
.r:refuse	14			155
1.Rarely or none of the time < 1 day	2637	4759	4207	3544
2.Some or a little of the time 1-2 days	2449	2506	2216	2300
3.Occasionally or a moderate amount of 3	4065	3505	3718	3408
4.Most or all of the time 5-7 days	6797	5668	9251	8488

Value-----	S1WHAPPYL	S2WHAPPYL	S3WHAPPYL	S4WHAPPYL
.d:dk	73			162
.m:missing	68	1261	249	462
.p:proxy	1272	376	934	722
.r:refuse	11			105
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	2153	3967	3398	2830
2.Some or a little of the time 1-2 days	2029	2125	1881	1920
3.Occasionally or a moderate amount of 3	3457	2965	3201	2899
4.Most or all of the time 5-7 days	5847	4886	8061	7262

Value-----	R1FLONEL	R2FLONEL	R3FLONEL	R4FLONEL
.d:dk	127			268

## Section Q: Psychosocial

821

.m:missing	171	1714	406	731
.p:proxy	1473	477	1253	946
.r:refuse	13			153
1.Rarely or none of the time < 1 day	11211	12651	14539	12252
2.Some or a little of the time 1-2 days	2020	1601	1662	2111
3.Occasionally or a moderate amount of 3	1444	1145	1540	1541
4.Most or all of the time 5-7 days	1249	1024	1697	1814

Value-----	S1FLONEL	S2FLONEL	S3FLONEL	S4FLONEL
.d:dk	97			182
.m:missing	68	1273	218	462
.p:proxy	1272	376	933	721
.r:refuse	8			105
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	9982	11168	12912	10773
2.Some or a little of the time 1-2 days	1646	1290	1374	1790
3.Occasionally or a moderate amount of 3	1063	851	1217	1198
4.Most or all of the time 5-7 days	774	622	1070	1131

Value-----	R1BOTHERL	R2BOTHERL	R3BOTHERL	R4BOTHERL
.d:dk	139			353
.m:missing	168	1803	455	730
.p:proxy	1472	477	1253	948
.r:refuse	8			182
1.Rarely or none of the time < 1 day	7180	9445	10799	8824
2.Some or a little of the time 1-2 days	3481	3119	3025	3696
3.Occasionally or a moderate amount of 3	2860	2102	2935	2609
4.Most or all of the time 5-7 days	2400	1666	2630	2474

Value-----	S1BOTHERL	S2BOTHERL	S3BOTHERL	S4BOTHERL
.d:dk	108			239
.m:missing	67	1336	243	462
.p:proxy	1271	376	933	723
.r:refuse	5			121
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	6070	8023	9253	7410
2.Some or a little of the time 1-2 days	2976	2661	2644	3218
3.Occasionally or a moderate amount of 3	2414	1803	2492	2187
4.Most or all of the time 5-7 days	1999	1381	2159	2002

Value-----	R1GOINGL	R2GOINGL	R3GOINGL	R4GOINGL
.d:dk	165			375
.m:missing	171	1749	501	731
.p:proxy	1473	477	1253	948
.r:refuse	13			211
1.Rarely or none of the time < 1 day	12454	13953	16064	13657
2.Some or a little of the time 1-2 days	1722	1059	1166	1534
3.Occasionally or a moderate amount of 3	996	742	1086	1205
4.Most or all of the time 5-7 days	714	632	1027	1155

Value-----	S1GOINGL	S2GOINGL	S3GOINGL	S4GOINGL
.d:dk	117			263
.m:missing	68	1300	271	462
.p:proxy	1272	376	933	722
.r:refuse	8			142
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	10725	12001	13925	11704
2.Some or a little of the time 1-2 days	1359	850	977	1264
3.Occasionally or a moderate amount of 3	815	577	882	970
4.Most or all of the time 5-7 days	546	476	736	835

Value-----	R1MINDTSL	R2MINDTSL	R3MINDTSL	R4MINDTSL
.d:dk	225			669
.m:missing	168	1938	678	730
.p:proxy	1473	477	1252	948
.r:refuse	17			203

## Section Q: Psychosocial

822

1.Rarely or none of the time < 1 day	7978	9708	11079	8743
2.Some or a little of the time 1-2 days	3200	2786	2832	3518
3.Occasionally or a moderate amount of 3	2626	2083	2840	2705
4.Most or all of the time 5-7 days	2021	1620	2416	2300
Value-----	S1MINDTSL	S2MINDTSL	S3MINDTSL	S4MINDTSL
.d:dk	154			463
.m:missing	67	1435	410	462
.p:proxy	1272	376	933	722
.r:refuse	12			143
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	6854	8275	9536	7411
2.Some or a little of the time 1-2 days	2674	2395	2475	3019
3.Occasionally or a moderate amount of 3	2199	1750	2420	2287
4.Most or all of the time 5-7 days	1678	1349	1950	1855
Value-----	R1FHOPEL	R2FHOPEL	R3FHOPEL	R4FHOPEL
.d:dk	417			948
.m:missing	170	2083	1046	731
.p:proxy	1473	477	1255	947
.r:refuse	17			213
1.Rarely or none of the time < 1 day	3490	5959	6158	4997
2.Some or a little of the time 1-2 days	2365	2207	2228	2309
3.Occasionally or a moderate amount of 3	3116	2576	2881	2778
4.Most or all of the time 5-7 days	6660	5310	7529	6893
Value-----	S1FHOPEL	S2FHOPEL	S3FHOPEL	S4FHOPEL
.d:dk	329			707
.m:missing	68	1551	715	462
.p:proxy	1272	376	935	722
.r:refuse	11			154
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	2833	4941	5023	4035
2.Some or a little of the time 1-2 days	1945	1872	1920	1946
3.Occasionally or a moderate amount of 3	2664	2211	2543	2401
4.Most or all of the time 5-7 days	5788	4629	6588	5935
Value-----	R1FEARLL	R2FEARLL	R3FEARLL	R4FEARLL
.d:dk	83			175
.m:missing	170	1657	319	731
.p:proxy	1473	477	1254	945
.r:refuse	10			140
1.Rarely or none of the time < 1 day	12606	13996	16373	13938
2.Some or a little of the time 1-2 days	1673	1088	1212	1761
3.Occasionally or a moderate amount of 3	1013	785	1033	1144
4.Most or all of the time 5-7 days	680	609	906	982
Value-----	S1FEARLL	S2FEARLL	S3FEARLL	S4FEARLL
.d:dk	61			118
.m:missing	68	1240	154	462
.p:proxy	1272	376	933	720
.r:refuse	8			96
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Rarely or none of the time < 1 day	10749	11942	14057	11769
2.Some or a little of the time 1-2 days	1360	912	1018	1505
3.Occasionally or a moderate amount of 3	830	641	869	916
4.Most or all of the time 5-7 days	562	469	693	776

**How Constructed:**

RwDEPRESL indicates how often the respondent felt depressed during the past week. RweFFORTL indicates how often the respondent felt that everything they did was an effort during the past week. RwsLEEPRL indicates how often the respondent felt their sleep was restless during the past week. RwwHAPPYL indicates how often the respondent felt happy during the past week. RwfLONEL indicates how often the respondent felt lonely during the past week. RwbOTHERL indicates how often

the respondent felt bothered by things that do not usually bother them during the past week. RwGOINGL indicates how often the respondent felt they could not get "going" during the past week. RwmINDTSL indicates how often the respondent felt they had trouble keeping their mind on what they were doing during the past week. RwfHOPEL indicates how often the respondent felt hopeful about the future during the past week. RwfFEARLL indicates how often the respondent felt fearful during the past week. The variables are assigned 1 if the respondent reported experiencing the particular feeling rarely or never (less than once per day). These variables are assigned 2 if the respondent reported experience the particular feeling some or a little of the time (1-2 days). These variables are assigned 3 if the respondent reported experience the particular feeling occasionally or a moderate amount of the time (3-4 days). These variables are assigned 4 if the respondent reported experience the particular feeling most or all of the time (5-7 days). Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. These variables are coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides a variable, proxy, to identify interviews when the selected respondent was absent or totally unable to answer the questions. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Waves 2 and 4.

SwDEPRESL indicates how often the respondent's spouse felt depressed during the past week. SwEFFORTL indicates how often the respondent's spouse felt that everything they did was an effort during the past week. SwSLEEPRL indicates how often the respondent's spouse felt their sleep was restless during the past week. SwWHAPPYL indicates how often the respondent's spouse felt happy during the past week. SwFLONEL indicates how often the respondent's spouse felt lonely during the past week. SwBOTHERL indicates how often the respondent's spouse felt bothered by things that do not usually bother them during the past week. SwGOINGL indicates how often the respondent's spouse felt they could not get "going" during the past week. SwMINDTSL indicates how often the respondent's spouse felt they had trouble keeping their mind on what they were doing during the past week. SwFHOPPEL indicates how often the respondent's spouse felt hopeful about the future during the past week. SwFEARLL indicates how often the respondent's spouse felt fearful during the past week. SwDEPRESL, SwEFFORTL, SwSLEEPRL, SwWHAPPYL, SwFLONEL, SwBOTHERL, SwGOINGL, SwMINDTSL, SwFHOPPEL and SwFEARLL are taken from the spouse's values to RwDEPRESL, RweFFORTL, RwsLEEPRL, RwwHAPPYL, RwfLONEL, RwbOTHERL, RwgOINGL, RwmINDTSL, RwfHOPEL and RwfFEARLL, respectively. In addition to the special missing values used in RwDEPRESL, RweFFORTL, RwsLEEPRL, RwwHAPPYL, RwfLONEL, RwbOTHERL, RwgOINGL, RwmINDTSL, RwfHOPEL and RwfFEARLL, SwDEPRESL, SwEFFORTL, SwSLEEPRL, SwWHAPPYL, SwFLONEL, SwBOTHERL, SwGOINGL, SwMINDTSL, SwFHOPPEL, and SwFEARLL employ two additional missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwCESD10 is the sum of RwDEPRESL, RweFFORTL, RwsLEEPRL, RwwHAPPYL, RwfLONEL, RwbOTHERL, RwgOINGL, RwmINDTSL, RwfHOPEL and RwfFEARLL, after reverse coding RwfHOPEL and RwwHAPPYL. Additionally, the scales for each of the ten questions were adjusted so that the anchors were 0 to 3, rather than 1 to 4. RwCESD10M indicates how many individual measures used to derive RwCESD10 are missing. Special missing value (.p) is assigned if these questions were skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwCESD10 is coded as blank missing (.) if the respondent did not respond to this wave.

RwCESD10M indicates how many individual measures used to derive RwCESD10 are missing.

SwCESD10 and SwCESD10M are taken from the spouse's values to RwCESD10 and RwCESD10M, respectively. In addition to the special missing values used in RwCESD10 and RwCESD10M, SwCESD10 and SwCESD10M employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

## Cross Wave Differences in CHARLS

The current release of the CHARLS data includes a large number of missing responses to the questions asking about the frequency of respondent's feelings during the past week, especially at Wave 2.



## Differences with the RAND HRS/Harmonized HRS

In the CHARLS, CESD questions are asked using a 4 point scale which correspond to the frequency of respondent's feeling during the past week. All but the first wave of the HRS respondents are asked CESD questions as yes and no.

Unlike the HRS, CHARLS does not include questions asking respondents whether they felt sad or enjoyed life. Four additional variables are not included in the HRS but are included in the CHARLS ask about being bothered by things that usually do not bother them, having trouble keeping their mind on what they are doing, feeling hopeful about the future, and feeling fearful.

While the RAND HRS uses an 8-item version of the CESD scale, the CHARLS version of the CESD scale was validated with 10-items. Because of the difference in the number of questions used for the summary measure and the use of a 4-point scale for each question, RWCESD10 ranges from 0-30, unlike the RAND HRS RWCESD, which ranges from 0-8.

### CHARLS Variables Used:

#### Wave 1:

DB032	How Often Did the Respondent Receive Assistance
DC009	Bothered by Things
DC010	Had Trouble Keeping Mind
DC011	Felt Depressed
DC012	Felt Everything I Did Was An Effort
DC013	Felt Hopeful About the Future
DC014	Felt fearful
DC015	Sleep Was Restless
DC016	Happy
DC017	Felt Lonely
DC018	Could Not Get Going
PROXY	interview done by proxy

#### Wave 2:

DB032	Receive Assistance
DC009	Bothered by Things
DC010	Had Trouble Keeping Mind
DC011	Felt Depressed
DC012	I Felt Everything I Did Was An Effort.
DC013	I Felt Hopeful about The Future.
DC014	I Felt Fearful.
DC015	My Sleep Was Restless.
DC016	I Was Happy.
DC017	I Felt Lonely.
DC018	I Could Not Get

#### Wave 3:

DB032	Receive Assistance
DC009	Bothered by Things
DC010	Had Trouble Keeping Mind
DC011	Felt Depressed
DC012	I Felt Everything I Did Was An Effort.
DC013	I Felt Hopeful about The Future.
DC014	I Felt Fearful.
DC015	My Sleep Was Restless.
DC016	I Was Happy.
DC017	I Felt Lonely.
DC018	I Could Not Get
PROXY	Proxy Mode or Not

#### Wave 4:

DB032	How often the Respondent Receive Assistance
DC009	Bothered by Things
DC010	Had Trouble Keeping Mind
DC011	Felt Depressed
DC012	I Felt Everything I Did Was An Effort
DC013	I Felt Hopeful about the Future
DC014	I Felt Fearful
DC015	My Sleep Was Restless
DC016	I Was Happy
DC017	I Felt Lonely
DC018	I Could Not Get on

<b>Single Life Satisfaction Question</b>
--

Wave	Variable	Label	Type
1	R1SATLIFE	r1satlife:w1 r satisfied with life	Categ
2	R2SATLIFE	r2satlife:w2 r satisfied with life	Categ
3	R3SATLIFE	r3satlife:w3 r satisfied with life	Categ
4	R4SATLIFE	r4satlife:w4 r satisfied with life	Categ
1	S1SATLIFE	s1satlife:w1 s satisfied with life	Categ
2	S2SATLIFE	s2satlife:w2 s satisfied with life	Categ
3	S3SATLIFE	s3satlife:w3 s satisfied with life	Categ
4	S4SATLIFE	s4satlife:w4 s satisfied with life	Categ
1	R1SATLIFEZ	r1satlife:w1 r satisfied with life z-score	Cont
2	R2SATLIFEZ	r2satlife:w2 r satisfied with life z-score	Cont
3	R3SATLIFEZ	r3satlife:w3 r satisfied with life z-score	Cont
4	R4SATLIFEZ	r4satlife:w4 r satisfied with life z-score	Cont
1	S1SATLIFEZ	s1satlifez:w1 s satisfied with life z-score	Cont
2	S2SATLIFEZ	s2satlifez:w2 s satisfied with life z-score	Cont
3	S3SATLIFEZ	s3satlifez:w3 s satisfied with life z-score	Cont
4	S4SATLIFEZ	s4satlifez:w4 s satisfied with life z-score	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SATLIFE	14362	3.05	0.71	1.00	5.00
R2SATLIFE	16461	3.11	0.75	1.00	5.00
R3SATLIFE	19468	3.39	0.78	1.00	5.00
R4SATLIFE	18152	3.25	0.81	1.00	5.00
S1SATLIFE	12262	3.06	0.70	1.00	5.00
S2SATLIFE	13965	3.12	0.74	1.00	5.00
S3SATLIFE	16611	3.41	0.77	1.00	5.00
S4SATLIFE	15185	3.26	0.79	1.00	5.00
R1SATLIFEZ	14362	0.00	1.00	-2.89	2.74
R2SATLIFEZ	16457	0.00	1.00	-2.82	2.52
R3SATLIFEZ	19439	-0.00	1.00	-3.06	2.05
R4SATLIFEZ	18097	0.00	1.00	-2.79	2.18
S1SATLIFEZ	12262	0.00	0.99	-2.89	2.74
S2SATLIFEZ	13962	0.01	0.98	-2.82	2.52
S3SATLIFEZ	16587	0.02	0.98	-3.06	2.05
S4SATLIFEZ	15164	0.02	0.98	-2.79	2.18

### Categorical Variable Codes

Value-----	R1SATLIFE	R2SATLIFE	R3SATLIFE	R4SATLIFE
.d:dk	57			
.m:missing	1795	1674	372	731
.p:proxy	1473	477	1257	933
.r:refuse	21			
1.Not at all satisfied	365	467	337	577
2.Not very satisfied	1911	1860	1325	1542
3.Somewhat satisfied	8942	10069	9441	9801
4.Very satisfied	2879	3516	7053	5303
5.Completely satisfied	265	549	1312	929
Value-----	S1SATLIFE	S2SATLIFE	S3SATLIFE	S4SATLIFE
.d:dk	40			
.m:missing	1320	1239	176	462
.p:proxy	1272	376	937	715

.r:refuse	16			
.u:unmar	2260	2401	2719	2926
.v:sp nr	538	622	650	517
1.Not at all satisfied	297	357	221	427
2.Not very satisfied	1586	1539	1062	1210
3.Somewhat satisfied	7731	8639	8112	8311
4.Very satisfied	2426	2980	6075	4482
5.Completely satisfied	222	450	1141	755

### How Constructed:

RwSATLIFE and RwSATLIFEZ indicate the respondent's level of life satisfaction. In CHARLS, life satisfaction is asked with the question "Please think about your life-as-a-whole. How satisfied are you with it?" and using the response scale of 1.Completely satisfied, 2.Very satisfied, 3.Somewhat satisfied, 4.Not very satisfied, and 5.Not at all satisfied. To make RwSATLIFE comparable across Harmonized datasets, responses to this question have been reverse-coded, so that RwSATLIFE is coded as follows: 1.Not at all satisfied, 2.Not very satisfied, 3.Somewhat satisfied, 4.Very satisfied, and 5.Completely satisfied. RwSATLIFEZ is a z-scored version of the respondent's level of life satisfaction, and is calculated by z-scoring RwSATLIFE. Special missing value (.p) is assigned if this question was skipped because the interview was completed by a proxy. Don't know, refused, and missing responses are assigned special missing values (.d), (.r), and (.m), respectively. RwSATLIFE and RwSATLIFEZ are coded as blank missing (.) if the respondent did not respond to this wave.

At Waves 1 and 3, CHARLS provides a variable, proxy, to identify interviews when the selected respondent was absent or totally unable to answer the questions. This variable is not available at Waves 2 and 4. The absence of this variable may explain in part the high number of missing values at Waves 2 and 4.

SwsATLIFE and SwsATLIFEZ indicate the respondent's spouse's level of life satisfaction. SwsATLIFE and SwsATLIFEZ are taken from the spouse's values to RwSATLIFE and RwSATLIFEZ, respectively. In addition to the special missing values using in RwSATLIFE and RwSATLIFEZ, SwsATLIFE and SwsATLIFEZ employ two additional special missing values. Special missing value (.u) is assigned if the respondent does not report being coupled in the current wave. Special missing value (.v) is assigned if the respondent reports being coupled in the current wave but their spouse is not interviewed.

### Cross Wave Differences in CHARLS

The current release of the CHARLS data includes a large number of missing responses to the question asking the respondent's level of life satisfaction, especially at Waves 1 and 2.

### Differences with the RAND HRS/Harmonized HRS

No differences known.

### CHARLS Variables Used:

Wave 1:	
DB032	How Often Did the Respondent Receive Assistance
DC028	Self Comment of Your Life
PROXY	interview done by proxy
Wave 2:	
DB032	Receive Assistance
DC028	Life Satisfaction
Wave 3:	
DB032	Receive Assistance
DC028	Life Satisfaction
PROXY	Proxy Mode or Not
Wave 4:	
DB032	How often the Respondent Receive Assistance
DC028	Life Satisfication

## References

- Beaumaster S, Chien S, Crosswell A, Lin A, Phillips D, Valev M, Wilkens J, and Lee J. 2018. Harmonized HRS Documentation: Version B, October 2018. Center for Economic and Social Research, University of Southern California, Los Angeles, CA.  
[https://g2aging.org/startfile.php?f=codebooks/Harmonized\\_HRS\\_B.pdf&rs=%5eq%5esection=downloads](https://g2aging.org/startfile.php?f=codebooks/Harmonized_HRS_B.pdf&rs=%5eq%5esection=downloads)
- Bugliari D, Carroll J, Hayden O, Hayes J, Hurd M, Karabatakis A, Main R, Marks J, McCullough C, Meijer E, Moldoff M, Pantoja P, Rohwedder S, and St.Clair P. 2021. RAND HRS Longitudinal File 2018 (V1) Documentation: Includes 1992-2018 (Early Release). RAND Center for the Study of Aging, Santa Monica, CA.  
[https://www.rand.org/content/dam/rand/www/external/labor/aging/dataproducts/randhrs1992\\_2018v1.pdf](https://www.rand.org/content/dam/rand/www/external/labor/aging/dataproducts/randhrs1992_2018v1.pdf)
- Gruenewald TL, Crosswell AD, Epel E, Mayer S, Smith J, and Lee J. 2020. Measures of Stress in the Health and Retirement Study (HRS) and the HRS Family of Studies. User Guide. University of Southern California San Francisco, San Francisco, CA.  
[https://g2aging.org/startfile.php?f=documents/Stress%20Measurement%20in%20the%20HRS%20Family%20of%20Studies%20Guide\\_5%2014%2020.pdf&rs=%5eq%5esection=documentation](https://g2aging.org/startfile.php?f=documents/Stress%20Measurement%20in%20the%20HRS%20Family%20of%20Studies%20Guide_5%2014%2020.pdf&rs=%5eq%5esection=documentation)
- Lee J, Phillips D, and Wilkens J. 2019. Gateway to Global Aging Data. Encyclopedia of Gerontology and Population Aging, eds. Danan Gu and Matthew E. Dupre.  
[https://doi.org/10.1007/978-3-319-69892-2\\_1105\\_1](https://doi.org/10.1007/978-3-319-69892-2_1105_1)
- Wallace, Robert B. and A. R. Herzog. 1995. Overview of the Health Measures in the Health and Retirement Study. *The Journal of Human Resources*, Volume 30 (Supplement 1995):S84-S107.