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Program on Global
Aging, Health, and Policy

Harmonized CHARLS Documentation

VERSION C, APRIL 2018

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g2aging.org

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, Indonesia Family Life Panel (IFLS) in Indonesia, and the Korean Longitudinal Study of Aging (KLoSA) in the Republic of Korea. Part of the reason for the close connection is to allow cross-country comparisons using these data.

To facilitate such comparisons, we, with funding and support from National Institute on Aging (NIA), have created the Harmonized CHARLS data which is created to harmonize the CHARLS with the RAND HRS data. To make the data more accessible to researchers, we created a user-friendly version of the dataset, similar to the RAND HRS. The RAND HRS contains cleaned and processed variables with consistent and intuitive naming conventions, model-based imputations and imputation flags, and spousal counterparts of most individual-level variables. Harmonized CHARLS includes variables defined as closely as possible to the RAND HRS. This document describes these data.

The Harmonized CHARLS initiative is part of a larger set of projects carried out by the USC Program on Global Aging, Health, and Policy to increase the availability and ease of use for data sets on aging around the world. In addition to the RAND HRS and Harmonized CHARLS, this includes Harmonized HRS (United States), Harmonized SHARE (Europe and Israel), Harmonized ELSA (England), Harmonized JSTAR (Japan), Harmonized KLoSA (South Korea), Harmonized LASI (India), Harmonized TILDA (Ireland), Harmonized MHAS (Mexico), and Harmonized CRELES (Costa Rica). This also includes a searchable website, www.g2aging.org, with questionnaires, and other metadata on a larger number of related data sets to facilitate the creation of customized data sets using variables from the original data sets and the harmonized ones.

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. 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, Bas Weerman, and the RAND HRS team.

Requested Acknowledgment

CHARLS Version and Acknowledgment

Contents

What's New in Version C of the Harmonized CHARLS?

Version C incorporates the latest released version of CHARLS data. It contains 25,504 observations or rows; there are 17,708 respondents in harmonized wave 1, 18,612 respondents are in harmonized wave 2, 20,543 respondents in harmonized wave 3 (life history), and 21,097 respondents in harmonized wave 4. It is a Respondent-level file so each row represents a unique respondent. It also adds new variables and makes adjustments and corrections since previous versions. The Version C includes:
- 2011 CHARLS Wave 1 (03/12/2013)
- 2013 CHARLS Wave 2 (11/18/2015)
- 2014 CHARLS Wave 3 Life History (06/01/2016)
- 2015 CHARLS Wave 4 (10/11/2017)

We have added the following to the file:

- We have added additional demographic variables, **RAIDBDAY**, indicates latest ID birth day, **RAIDBMONTH** indicates latest ID birth month, **RAIDBDAY** indicates latest ID birth year, and **RAFIDBDATE** indicate if there is any inconsistencies in report of ID birthday.
- We have added additional assets variables, **HwATOTFA**, **HwARLES, HwAHRTO, HwAHOUS, HwATRAN, HwADURBL, HwFIXC, HwALAND, HwALEND, HwAPLOAN,** and **HwATOTB**, which indicate total non-housing financial wealth, value of other real estate, primary residence ownership, primary residence value, value of vehicles, consumer durables, fixed capital assets, irrigable land, money lent, net value of monetary asset, and total wealth at the couple level.
- We have added two additional ADL summary variables, **RwADLFIVE** and **RwADLFIVEM**. We have also added 6 additional summary mobility variables: **RwLOWERMOB** indicates any difficulty with lower-body mobility activities, **RwUPPERMOB** indicates any difficulty with upper-body mobility activities, **RwMOBILSEV** indicates any difficulty with mobility activities, and **RwLOWERMOBM**, **RwUPPERMOBM** and **RwMOBILSEVM** indicate the count of missing components for those variables, respectively.

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 need of scientific research on health, economic position and quality of life as people aged. 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 Health and Retirement Study (HRS) and related aging surveys such as Indonesia Family Life Panel (IFLS) in Indonesia, and the Korean Longitudinal Study of Aging (KLoSA) in the Republic of Korea.

The baseline wave of CHARLS was conducted from 2011 to 2012; the individuals will be followed up every two years and all data will be released to the public one year after the end of data collection. This initial sample included 10,257 households and 17,500 individuals in 150 counties/districts and 450 villages or urban communities among 28 provinces. Currently, data for waves 1, 2, 3 and 4, which we describe in this document, are available for study. The Harmonized CHARLS data file incorporates the demographic background data, family information data, family transfer 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 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 and Retirement (JSTAR), the China Health and Retirement Longitudinal Study (CHARLS), the Mexican Health and Aging Study (MHAS), the Costa Rican Longevity and Healthy Aging Study (CRELES), and the Longitudinal Aging Study in India (LASI). The overview of this family of surveys, including their research designs, samples, and key domains can be found in Lee (2010).
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 (G2G) helps users understand and use these large-scale population surveys on health and retirement. The G2G 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
G2G 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 G2G also includes population and sub-population estimates for key harmonized variables.

The G2G can be accessed at www.g2aging.org. For more information about using the G2G visit the Help page. For more information about obtaining the Harmonized CHARLS by downloading the Stata file used to create the Harmonized CHARLS using the G2G 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 his or her 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 information from 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 RAND HRS, households in the CHARLS might include information about 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").[12] The second character indicates the wave to which the variable pertains: "1", 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 through 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:

<div align="center">S1HLTHLM:W1 Hlth problems limit work</div>

It may seem duplicative to include the name of the variable and the wave in the variable label. However, statistical packages often suppress the variable name and instead use 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 for the same measure. Measures which are exactly or near-exactly comparable between the Harmonized CHARLS and RAND 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 RAND 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 RAND HRS version of this measure. For example, the Harmonized CHARLS variable for 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 and Harmonized CHARLS measure and comparability between these measure 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 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 are always expressed in nominal dollars. Users should always check the "Differences with RAND 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 offers 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 spouse variables)
.m	Other missing

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

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: individual weight without non-response adjustment, individual weight with household non-response adjustment, and 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. In wave 2, CHARLS provides two additional longitudinal weights at both the household and the individual level, and please note there is no individual biomarker weight with household non-response adjustment starting 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 at China Health and Retirement Longitudinal Study (CHARLS) website.

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 includes the value of cash, saving account, 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 individual wage, bonus and pension in both 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, earning income (wage and bonus), 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 primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, agricultural asset, monetary asset, 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 RAND HRS neither has information on wealth and income of household members outside the couple nor does the RAND HRS have individual-level asset information, measures are provided at the individual level such as earning, pension, etc., the couple level, and the household level (e.g. asset income and wealth) where possible. Thus, in constructing our couple-level variables, income and wealth value from household members outside the couple are not included. These couple-level variables can be compared to the RAND HRS income and wealth household measures.

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

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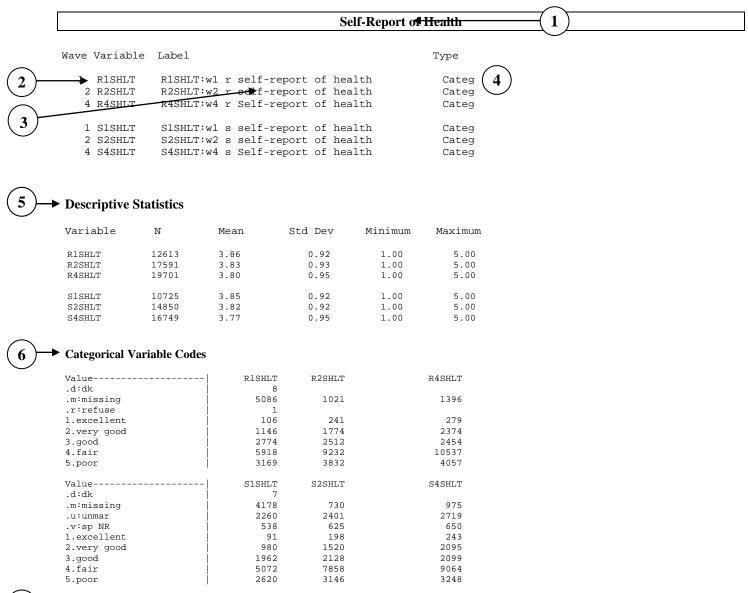All CHARLS financial variables are expressed in current yuan. CHARLS asset questions are asked about current asset values.

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                              1


     Wave Variable  Label                                         Type

 2       R1SHLT    R1SHLT:w1 r self-report of health              Categ    4
         2 R2SHLT    R2SHLT:w2 r self-report of health            Categ
         4 R4SHLT    R4SHLT:w4 r Self-report of health            Categ
 3
         1 S1SHLT    S1SHLT:w1 s self-report of health            Categ
         2 S2SHLT    S2SHLT:w2 s self-report of health            Categ
         4 S4SHLT    S4SHLT:w4 s Self-report of health            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
     R4SHLT        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
     S4SHLT        16749     3.77       0.95        1.00       5.00
```

6 → **Categorical Variable Codes**

```
     Value-------------------|     R1SHLT      R2SHLT           R4SHLT
     .d:dk                   |        8
     .m:missing              |     5086        1021             1396
     .r:refuse               |        1
     1.excellent             |      106         241              279
     2.very good             |     1146        1774             2374
     3.good                  |     2774        2512             2454
     4.fair                  |     5918        9232            10537
     5.poor                  |     3169        3832             4057

     Value-------------------|     S1SHLT      S2SHLT           S4SHLT
     .d:dk                   |        7
     .m:missing              |     4178         730              975
     .u:unmar                |     2260        2401             2719
     .v:sp NR                |      538         625              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
```

7 → **How Constructed**

```
     CHARLS has two scales for respondents to self-report their current health condition; one is a scale
     ranging from 1 for Excellent to 5 for Poor, and the other is a scale ranging from 1 for Very Good to 5
     for Very Bad. Respondents were asked their health status twice; once in the beginning of the health
     module and again in the end of the health module. In the beginning of the health module, respondents are
     randomly assigned into two groups, the first group of respondents are asked first scale in the beginning
     and second scale at the end. The second group of respondents are vice versa.
     RwSHLT is the respondent's self-reported general health status using a 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.
     Self-reported general health status on a scale from Excellent to Poor is asked either at the beginning
     or in the end of the Health module. RwSHLTF indicates this timing. Specifically, a code of 1 indicates
     that the respondent was asked RwHSLT at the beginning of the module. A code of 2 indicates that the
```

```
respondent was asked RwSHLT at the end of the module. 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 the special missing value .u, when the
respondent did 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.
```

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.
```

9 → **Differences with the RAND HRS**

```
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
Wave 2:
    DA001           self assessed health status (excellent)
Wave 4:
    DA001           Self Assessed Health Status (Excellent)
```
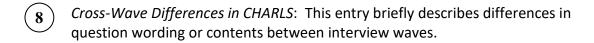
---

1 *Title*: The variables are documented in groups according to the concept that they measure. For example, there are eight variables related to self-reported health, 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.

3 *Variable Labels*: This entry shows the Stata variable labels. As discussed above, the labels typically include the name of the variable, the wave it corresponds to, 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 indicates the value to which each label has been assigned. For example, value "1" 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*: This entry describes any differences between the RAND 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 with the 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 *C* 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) under the Download tabs.

5. Data Codebook

Section A: Demographics and Identifiers

Identifiers

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	HHID_W1	hhid_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	25504	653836809.65	916037368.94	10104101.00	3477633170.00
PN	25504	1.46	0.52	1.00	5.00

How Constructed:

ID is the 12-digit character identifier that identifies each respondent uniquely. The ID and HouseholdID are based on wave 4 data. 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.

Wave 1 identifiers are ID_w1 and hhid_w1. ID_w1 is an 11-digit identifier for each respondent and hhid_w1 is a 9-digit character household identifier.

Please note that ID and HouseholdID are specific to the CHARLS wave 2-4 data set. Starting in wave 2, CHARLS revised the ID and HouseholdID formats to account for splitting of households due to divorce. Wave 2 and forward follow a 12-digit character individual identifier and a 10-digit character household identifier.

CommunityID is a 7-digit character community identifier to indicate 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

CHARLS revised the wave 1 ID and householdID so users need to use ID_w1 and hhid_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            20543        1.22          0.76         0.00         4.00
S4PN            21097        1.27          0.73         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

```
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
```

Couple Identifier

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	20543	6142.37	3544.30	1.00	12248.00
H4COUPID	21097	6147.04	3535.53	1.00	12235.00

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

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: Response Indicator

```
Wave Variable      Label                                              Type

  1  INW1           inw1:In wave 1                                     Categ
  2  INW2           inw2:In wave 2                                     Categ
  3  INW3           inw3:In wave 3 (life history)                      Categ
  4  INW4           inw4:In wave 4                                     Categ
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev    Minimum     Maximum

INW1            25504       0.69       0.46        0.00        1.00
INW2            25504       0.73       0.44        0.00        1.00
INW3            25504       0.81       0.40        0.00        1.00
INW4            25504       0.83       0.38        0.00        1.00
```

Categorical Variable Codes

```
Value--------------------------------|       INW1        INW2        INW3        INW4
0.no                                 |       7796        6892        4961        4407
1.yes                                |      17708       18612       20543       21097
```

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

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       25504       0.69        0.46        0.00        1.00
R2IWSTAT       25504       1.55        2.32        0.00        9.00
R3IWSTAT       25504       2.11        2.74        0.00        9.00
R4IWSTAT       25504       2.12        2.73        0.00        9.00

S1IWSTAT       14912       1.00        0.01        0.00        1.00
S2IWSTAT       15580       1.00        0.00        1.00        1.00
S3IWSTAT       16590       1.00        0.00        1.00        1.00
S4IWSTAT       17724       1.00        0.00        1.00        1.00
```

Categorical Variable Codes

Value	R1IWSTAT	R2IWSTAT	R3IWSTAT	R4IWSTAT
0.inap.	7796	4370	940	467
1.resp, alive	17708	18612	20543	21097
4.nr, alive			80	3
5.nr, died this wv		441	287	390
6.nr, died prev wv			441	282
9.nr, dk if alive or died		2081	3213	3265

Value	S1IWSTAT	S2IWSTAT	S3IWSTAT	S4IWSTAT
.u:unmar	2260	2401	2595	2719
.v:sp nr	536	623	1358	650
0.inap.	2			
1.resp, alive	14910	15580	16590	17724

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.

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

```
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 4:
    DIED
    HOUSEHOLDID     Household ID
    ID              Individual ID
```

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Household Analysis Weight

</div>

```
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
  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
  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
R4WTHH         20281      21297.71     20032.04      3768.13     681674.75

R1WTHHA        17708      29108.44     35178.59      9374.16    1001306.38
R2WTHHA        18262      28371.13     37626.88      6951.99     992518.31
R4WTHHA        20281      26576.96     32916.61      4469.18    1136124.50

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.

RwWTHHL is the household level longitudinal weight.

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 4, only household cross-sectional weights are provided.

Differences with the RAND 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 adjus
    HH_WEIGHT_AD1  cross-section household weight with nonresponse adjustme
Wave 4:
    HH_WEIGHT      Household Weight without Response Adjustment
    HH_WEIGHT_AD1  Household Weight with Response Adjustment
```

Person-Level Analysis Weight

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
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
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
4	R4WTRESPA	r4wtrespa:w4 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
4	S4WTRESPA	s4wtrespa:w4 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
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
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
4	R4WTRESPBIOB	r4wtrespbiob:w4 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
4	S4WTRESPBIOB	s4wtrespbiob:w4 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
R4WTRESP	20281	22683.59	21174.38	3768.13	681674.75
S1WTRESP	14910	23803.52	19065.01	7772.42	500653.19
S2WTRESP	15290	22636.55	20411.40	7356.49	591967.31
S4WTRESP	16968	22365.45	21258.56	6207.93	681674.75
R1WTRESPA	17708	31362.23	36830.06	9374.16	1001306.38
R2WTRESPA	18262	30433.78	38919.69	6951.99	992518.31
R4WTRESPA	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
S4WTRESPA	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
R4WTRESPB	20281	28801.27	35309.84	4624.06	1186327.25

```
S1WTRESPB       14910       30545.32       36891.89        9426.16     1032705.25
S2WTRESPB       15290       30233.60       39632.73        8447.57     1029979.63
S4WTRESPB       16968       28332.12       35408.03        6757.37     1186327.25

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
R4WTRESPBIOB    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
S4WTRESPBIOB    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.

RwWTRESPL is the individual longitudinal weight.

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, RwWTRESPL, RwWTRESPBIOA, and RwWTRESPBIOB are set to plain missing
(.) if the respondent did not respond at a particular interview.

SwWTRESP, SwWTRESPA, SwWTRESPB, SwWTRESPL, SwWTRESPBIOA, and SwWTRESPBIOB indicate the current
wave's spouse's weights. They are taken from the spouse's values to RwWTRESP, RwWTRESPA, RwWTRESPB,
RwWTRESPL, 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 4, 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

```
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-respo
    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-resp
Wave 2:
    BIOMARKER_WEIG
    INDV_L_WEIGHT  individual longitudinal weight
    INDV_WEIGHT    cross-section individual weight without nonresponse adju
```

```
    INDV_WEIGHT_AD cross-section individual weight with household nonrespon
    INDV_WEIGHT_AD cross-section individual weight with household and indiv
Wave 4:
    INDV_WEIGHT    Individual Weight without Response Adjustment
    INDV_WEIGHT_AD Individual Weight with Household Response Adjustment
    INDV_WEIGHT_AD Individual Weight with Household and Individual Response
```

Number of Household Respondents

```
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       20543       1.81       0.39        1.00        2.00
H4HHRESP       21097       1.84       0.37        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

```
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
```

Whether Coupled Household

```
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          20543        0.81       0.39         0.00         1.00
H4CPL          21097        0.84       0.37         0.00         1.00
```

Categorical Variable Codes

```
Value-------------------------------|      H1CPL        H2CPL        H3CPL        H4CPL
0.not coupled                       |       2798         3052         3971         3407
1.coupled                           |      14910        15560        16572        17690
```

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

```
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         20543         1.00         0.07        0.00         1.00
R4FAMR         21097         0.58         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         16590         1.00         0.04        0.00         1.00
S4FAMR         17724         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       20543         1.00         0.06        0.00         1.00
H4ANYFAM       21097         1.00         0.03        0.00         1.00
```

Categorical Variable Codes

```
Value--------------------------------|     R1FAMR       R2FAMR       R3FAMR       R4FAMR
0.no                                 |       7511         7824           92         8880
1.yes                                |      10197        10788        20451        12217

Value--------------------------------|     S1FAMR       S2FAMR       S3FAMR       S4FAMR
.u:unmar                             |       2260         2401         2595         2719
.v:sp nr                             |        538          623         1358          650
0.no                                 |       7455         7795           28         8862
1.yes                                |       7455         7785        16562         8862

Value--------------------------------|    H1ANYFAM     H2ANYFAM     H3ANYFAM     H4ANYFAM
0.no                                 |         56           39           66           18
1.yes                                |      17652        18573        20477        21079
```

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

No differences known.

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID     Household ID
Wave 2:
    HOUSEHOLDID     household id
Wave 4:
    HOUSEHOLDID     Household ID
```

	Interview Dates

```
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	20543	2014.00	0.00	2014.00	2014.00
R4IWY	21097	2015.00	0.05	2015.00	2016.00
S1IWY	14910	2011.02	0.13	2011.00	2012.00
S2IWY	15580	2013.00	0.01	2013.00	2014.00
S3IWY	16590	2014.00	0.00	2014.00	2014.00
S4IWY	17724	2015.00	0.06	2015.00	2016.00
R1IWM	17708	7.58	1.34	1.00	12.00
R2IWM	18612	7.73	0.92	1.00	12.00
R3IWM	20543	7.13	0.51	6.00	12.00
R4IWM	21097	7.39	0.60	1.00	9.00
S1IWM	14910	7.57	1.30	1.00	12.00
S2IWM	15580	7.72	0.91	1.00	11.00
S3IWM	16590	7.12	0.51	6.00	12.00
S4IWM	17724	7.38	0.60	1.00	9.00

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

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
```

Birth date: Month, and Year

```
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  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  RABDAY        rabday:r birth day                                      Cont

  1  S1BDAY        s1bday:w1 s birth day                                   Cont
  2  S2BDAY        s2bday:w2 s birth day                                   Cont
  4  S4BDAY        s4bday:w4 s birth day                                   Cont

  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  RAIDBYEAR     raidbyear:r ID birth year                               Cont

  1  S1IDBYEAR     s1idbyear:w1 s birth year                               Cont
  2  S2IDBYEAR     s2idbyear:w2 s birth year                               Cont
  3  S3IDBYEAR     s3idbyear:w3 s birth year                               Cont
  4  S4IDBYEAR     s4idbyear:w4 s birth year                               Cont

  1  RAIDBMONTH    raidbmonth:r ID birth month                             Cont

  1  S1IDBMONTH    s1idbmonth:w1 s birth month                             Cont
  2  S2IDBMONTH    s2idbmonth:w2 s birth month                             Cont
  3  S3IDBMONTH    s3idbmonth:w3 s birth month                             Cont
  4  S4IDBMONTH    s4idbmonth:w4 s birth month                             Cont

  1  RAIDBDAY      raidbday:r ID birth day                                 Cont

  1  S1IDBDAY      s1idbday:w1 s birth day                                 Cont
  2  S2IDBDAY      s2idbday:w2 s birth day                                 Cont
  4  S4IDBDAY      s4idbday:w4 s birth day                                 Cont

  1  RAFIDBDATE    rafidbdate:r flag ID birth date                         Categ

  1  S1FIDBDATE    s1fidbdate:w1 s flag birth date                         Categ
  2  S2FIDBDATE    s2fidbdate:w2 s flag birth date                         Categ
  3  S3FIDBDATE    s3fidbdate:w3 s flag birth date                         Categ
  4  S4FIDBDATE    s4fidbdate:w4 s flag birth date                         Categ
```

Descriptive Statistics

```
Variable          N          Mean        Std Dev      Minimum      Maximum

RABYEAR         25449       1954.93        11.23       1900.00      2015.00

S1BYEAR         14903       1953.30         9.37       1916.00      2015.00
S2BYEAR         15575       1954.39         9.48       1914.00      2015.00
S3BYEAR         16589       1956.38        10.12       1916.00      2015.00
```

S4BYEAR	17691	1956.77	9.94	1900.00	2015.00
RABMONTH	25175	6.64	3.49	1.00	12.00
S1BMONTH	14783	6.62	3.49	1.00	12.00
S2BMONTH	15485	6.61	3.49	1.00	12.00
S3BMONTH	16511	6.61	3.49	1.00	12.00
S4BMONTH	17593	6.63	3.49	1.00	12.00
RABDAY	24153	14.88	8.48	1.00	31.00
S1BDAY	14607	14.85	8.46	1.00	31.00
S2BDAY	15291	14.81	8.48	1.00	31.00
S4BDAY	17330	14.89	8.50	1.00	31.00
RAFBDATE	25504	0.05	0.22	0.00	1.00
S1FBDATE	14912	0.07	0.25	0.00	1.00
S2FBDATE	15580	0.07	0.25	0.00	1.00
S3FBDATE	16590	0.06	0.23	0.00	1.00
S4FBDATE	17724	0.05	0.23	0.00	1.00
RAIDBYEAR	22758	1955.53	10.84	1910.00	1996.00
S1IDBYEAR	13249	1953.63	9.03	1916.00	1995.00
S2IDBYEAR	14600	1954.46	9.32	1921.00	1996.00
S3IDBYEAR	16558	1956.42	10.06	1916.00	1996.00
S4IDBYEAR	17628	1956.82	9.87	1916.00	1996.00
RAIDBMONTH	22637	6.63	3.47	1.00	12.00
S1IDBMONTH	13206	6.61	3.47	1.00	12.00
S2IDBMONTH	14557	6.61	3.47	1.00	12.00
S3IDBMONTH	16518	6.62	3.47	1.00	12.00
S4IDBMONTH	17547	6.63	3.47	1.00	12.00
RAIDBDAY	19955	14.81	8.46	1.00	31.00
S1IDBDAY	11933	14.80	8.43	1.00	31.00
S2IDBDAY	13167	14.75	8.45	1.00	31.00
S4IDBDAY	16869	14.82	8.49	1.00	31.00
RAFIDBDATE	21097	0.03	0.16	0.00	1.00
S1FIDBDATE	12529	0.03	0.16	0.00	1.00
S2FIDBDATE	13812	0.03	0.16	0.00	1.00
S3FIDBDATE	15368	0.03	0.16	0.00	1.00
S4FIDBDATE	17724	0.02	0.16	0.00	1.00

Categorical Variable Codes

```
Value-------------------------------|    RAFBDATE
0.no dispute                         |     24200
1.dispute, last report used          |      1304
```

Value-------------------------------|	S1FBDATE	S2FBDATE	S3FBDATE	S4FBDATE
.u:unmar		2260	2401	2595	2719
.v:sp nr		536	623	1358	650
0.no dispute		13882	14537	15661	16769
1.dispute, last report used		1030	1043	929	955

```
Value-------------------------------|   RAFIDBDATE
0.no dispute                         |     20544
1.dispute, last report used          |       553
```

Value-------------------------------|	S1FIDBDATE	S2FIDBDATE	S3FIDBDATE	S4FIDBDATE
.u:unmar		2260	2401	2652	2719
.v:sp nr		538	633	1359	650

0.no dispute	12179	13433	14953	17285
1.dispute, last report used	350	379	415	439

How Constructed:

RABYEAR is the respondent's reported birth year. RABMONTH is the respondent's reported birth month. RABDAY is the respondent's reported birth day. If the respondent does not provide birth year the CHARLS also ask respondents their age. RABYEAR takes the respondents reported age if the birth year is missing. RABYEAR, RABMONTH and RABDAY are set to special missing code (.m) when birth information is missing.

In wave 2, the CHARLS asks respondents to confirm their previously reported birth date. If respondent indicates the previous wave's information is incorrect, the CHARLS asks the respondent for the correct birth year, month and date. In Wave 3, the respondent is asked to confirm or dispute the previously reported birthday. If the respondent disputes the previous wave's value, the interviewer records the updated birthday. In Wave 4, all respondents are asked their birthday again. RABYEAR, RABMONTH and RABDAY always use the latest birth date information.

RAFBDATE indicates a flag variable for whether RABYEAR, RABMONTH and RABDAY contain birthdate values, which were later reported because the initial report of birth information was said to be incorrect or different values were given at a later point. A value of 0 indicates the respondent has not disputed the first report of their birth date and has not given a different birth date in a later wave. A value of 1 indicates that the respondent reported their initial report of birth date was incorrect or provided different birth date information later in the survey.

Starting in Wave 3, CHARLS also asks respondent for the birthdate on their ID card, which can be different from their reported birthdate. RAIDBYEAR is the respondent's birth year from their ID. RAIDBMONTH is the respondent's birth month from their ID. RAIDBDAY is the respondent's birth day from their ID. RAIDBYEAR, RAIDBMONTH and RAIDBDAY are set to special missing code (.m) when birth information is missing. RAIDBYEAR, RAIDBMONTH and RAIDBDAY are set to special missing code (.q) if the respondent has not participated in an interview since Wave 2 so was never asked for their birthdate on their ID card.

In Wave 4, all respondents are asked their ID birthday again. RAIDBYEAR, RAIDBMONTH and RAIDBDAY always use the latest ID birth date information. RAFIDBDATE indicates a flag variable for whether RAIDBYEAR, RAIDBMONTH and RAIDBDAY contain ID birthdate values that were later reported because different values were given later. A value of 0 indicates the respondent has not given different ID birth date information in a later wave. A value of 1 indicates that the respondent provided different ID birth date information later in the survey.

SwBYEAR, SwBMONTH, SwBDAY and SwFBDATE indicate the current wave's spouse's reported birth year, month day, and whether there have been any updates to these values. SwBYEAR, SwBMONTH, SwBDAY and SwFBDATE are taken from the spouse's values to RABYEAR, RABMONTH, RABDAY and RAFBDATE, respectively. SwIDBYEAR, SwIDBMONTH, SwIDBDAY and SwFIDBDATE indicate the current wave's spouse's ID birth year, month day, and whether there have been any updates to these values. SwBYEAR, SwBMONTH, SwBDAY and SwFBDATE are taken from the spouse's values to RAIDBYEAR, RAIDBMONTH, RAIDBDAY and RAFIDBDATE, respectively. If the respondent is not designated as coupled in the current wave special missing (.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. These variables are set to plain missing (.) if the respondent did not respond at a particular interview.

Note: There are some cases in which respondents birth year indicate a young respondent. These cases are considered valid, as they are the spouses of age eligible respondents.

Cross Wave Differences in CHARLS

In wave 2, CHARLS asks respondents to confirm their previously reported birth date. If the respondent indicates the previous wave information is incorrect, the CHARLS asks the respondent for the correct birth year, month and date. These cases are flagged with RAFBDATE.

In Wave 3, CHARLS asks the interviewer to confirm the birthday with the respondent and if there is any change to record the updated birthday. If the respondent reports a different birthday than was previously given, the new reported birthday is used and these cases are flagged with RAFBDATE. After confirming the respondent's birthday, CHARLS then asks if their birthday on their ID card is the same as just reported. In the case that the ID birthday is different, the respondent reports their ID birthday. Wave 3 did not ask day of birth for either actual birth day or ID birth day, instead they just asked birth month and year.

In Wave 4, CHARLS asks all respondents what is the date of birth on their ID card. In the case that this birthday information is different from what is given in Wave 3 the new reported ID birthday is used and these cases are flagged with RAFIDBDATE. After asking for the ID birthday, CHARLS then asks if their actual date of birth is the same as on their ID. In the case that the respondent says that their actual birthday is different from their ID birthday, they are asked their actual birthday. If the respondent reports a different birthday than was previously given, the new reported birthday is used and these cases are flagged with RAFBDATE.

Differences with the RAND 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.

CHARLS Variables Used:

```
Wave 1:
    BA002_1        Birth Year
    BA002_2        Birth Month
    BA002_3        Birth Day
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
Wave 3:
    RBIRTHMONTH    Respondent's Birth Month
    RBIRTHYEAR     Respondent's Birth Year
Wave 4:
    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
```

Death: Month, and Year

Wave	Variable	Label	Type
1	RADYEAR	radyear: r death year	Cont
1	S1DYEAR	s1dyear:w1 s death year	Cont
2	S2DYEAR	s2dyear:w2 s death year	Cont
1	RADMONTH	radmonth: r death month	Cont
1	S1DMONTH	s1dmonth:w1 s death month	Cont
2	S2DMONTH	s2dmonth:w2 s death month	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RADYEAR	404	2012.13	0.68	2011.00	2013.00
S1DYEAR	255	2012.12	0.68	2011.00	2013.00
S2DYEAR	0	.	.	.	.
RADMONTH	399	6.05	3.74	1.00	12.00
S1DMONTH	254	5.98	3.74	1.00	12.00
S2DMONTH	0	.	.	.	.

How Constructed:

RADYEAR is the respondent's reported year of death. RADMONTH is 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. RADYEAR and RADMONTH are set to special missing (.m) for respondents who are known to have passed away and are in the exit data set but do not have any information for death year or death month, respectively. RADYEAR and RADMONTH are set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in CHARLS

Wave 4 exit interview file is not available yet.

Differences with the RAND 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)
```

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        17682       58.69        10.15         21.00        101.00
R2AGEY        18596       59.55        10.25         16.00        101.00
R3AGEY        20538       58.39        10.87         19.00         98.00
R4AGEY        21059       59.12        10.79          0.00        115.00

S1AGEY        14890       57.43         9.29         21.00        100.00
S2AGEY        15572       58.30         9.38         16.00         99.00
S3AGEY        16585       57.23        10.03         19.00         94.00
S4AGEY        17691       57.83         9.94          0.00        115.00
```

How Constructed:

RwAGEY is the respondent's age in years at the time of the current wave's interview. Respondent's age is calculated by the respondent's birth year and month minus the interview year and month. In wave 1 and wave 2, self-reported age is used if there is a missing value for the calculated age. After wave 2, self-reported age is not asked to the respondent. In the case that the respondent's birth month is missing, RwAGEY is calculated assuming that the respondent's birth month is month 6 (June). RwAGEY is set to plain missing (.) for respondents who did not respond to any waves.

SwAGEY is the current wave's spouse's age in years at the time of the current wave's interview. SwAGEY is taken from the spouse's value to RwAGEY. If the respondent is not designated as coupled in the current wave special missing (.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 and wave 2, self-reported age is used if there is a missing value for the calculated age. After wave 2, self-reported age is not asked to the respondent.

Differences with the RAND HRS

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

CHARLS Variables Used:

```
Wave 1:
    BA002_1       Birth Year
    BA002_2       Birth Month
    BA004         Age
    IMONTH        interview month
    IYEAR         interview year
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
```

```
Wave 3:
    IMONTH          Interview Month
    IYEAR           Interview Year
    RBIRTHMONTH     Respondent's Birth Month
    RBIRTHYEAR      Respondent's Birth Year
Wave 4:
    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
```

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: 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	25493	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	16590	1.50	0.50	1.00	2.00
S4GENDER	17716	1.50	0.50	1.00	2.00
RAFGENDR	25493	0.01	0.15	0.00	3.00
S2FGENDR	15579	0.02	0.16	0.00	3.00
S3FGENDR	16590	0.01	0.16	0.00	3.00
S4FGENDR	17716	0.02	0.17	0.00	3.00

Categorical Variable Codes

```
Value--------------------------------|    RAGENDER
.m:missing                           |        11
1.male                               |     12296
2.female                             |     13197

Value--------------------------------|    S1GENDER   S2GENDER   S3GENDER   S4GENDER
.m:missing                           |        1          1                     8
.u:unmar                             |     2260       2401       2595       2719
.v:sp nr                             |      538        623       1358        650
1.male                               |     7449       7790       8293       8856
2.female                             |     7460       7789       8297       8860

Value--------------------------------|    RAFGENDR
0.no gender problem                  |     25256
1.gender prob, used health gender    |       151
2.gender prob, used demog gender     |        67
3.gender prob, used first gender     |        19

Value--------------------------------|                S2FGENDR   S3FGENDR   S4FGENDR
.u:unmar                             |                 2401       2595       2719
.v:sp nr                             |                  623       1358        650
0.no gender problem                  |                15390      16420      17535
1.gender prob, used health gender    |                  122        109        106
2.gender prob, used demog gender     |                   60         47         58
3.gender prob, used first gender     |                    7         14         17
```

How Constructed:

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

In wave 1, gender is reported in the Demographic module. The Demographic module gender reported is taken as the respondent's gender in wave 1. In wave 2 and wave 4, gender is reported in the Demographic module and the Health module. In wave 2 and wave 4, some respondents report inconsistent gender information between the Demographic module and the Health module. In the Life History wave, gender is reported in the Demographic module and the Residence module. In the Life History wave, some respondents report inconsistent gender information between the Demographic module and the Residence module. Additionally, there are 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. In wave 2 and wave 4, gender is reported in the Demographic module and the Health module. In the Life History module, gender is reported in the Demographic module and the Residence module. We treat Life History gender inconsistencies between the Demographic module and Residence module as wave 2 and 4 accounts for differences between the Demographic module and Health Module.

Differences with the RAND 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¡¯s gender.
    XRGENDER        gender of r
Wave 3:
    RGENDER         Gender
Wave 4:
```

```
BA000_W2_3     Gender
XRGENDER       Gender of R
```

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       25419       3.47        1.93        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       16582       3.45        1.81        1.00       10.00
S4EDUC_C       17681       3.53        1.86        1.00       10.00

RAEDUCL        25419       1.15        0.43        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        16582       1.12        0.36        1.00        3.00
S4EDUCL        17681       1.14        0.41        1.00        3.00
```

Categorical Variable Codes

```
Value--------------------------------|     RAEDUC_C
.d:dk                                |         5
.m:missing                           |        47
.q.Not specified                     |        32
.r:refuse                            |         1
1.No formal education illiterate     |      6253
2.Did not finish primary school but capa|   3858
3.Sishu                              |       104
4.Elementary school                  |      7341
5.Middle school                      |      4732
6.High school                        |      1925
7.Vocational school                  |       587
8.Two/Three Year College/Associate degre|    376
9.Four Year College/Bachelor's degree |      227
10.Post-graduated(Master/PhD)        |        16

Value--------------------------------|    S1EDUC_C    S2EDUC_C    S3EDUC_C    S4EDUC_C
.d:dk                                |        18
.m:missing                           |        20          17           8          14
.q.Not specified                     |                                             29
.r:refuse                            |         1
.u:unmar                             |      2260        2401        2595        2719
.v:sp nr                             |       538         623        1358         650
1.No formal education illiterate     |      3642        3634        3766        3869
2.Did not finish primary school but capa|   2608        2745        2583        2751
3.Sishu                              |        55          54          37          39
4.Elementary school                  |      3321        3464        5336        5459
5.Middle school                      |      3294        3538        3157        3517
```

6.High school		1218	1373	1149	1308
7.Vocational school		374	406	333	385
8.Two/Three Year College/Associate degre		237	224	150	228
9.Four Year College/Bachelor's degree		116	117	66	117
10.Post-graduated(Master/PhD)		6	8	5	8

Value	RAEDUCL			
.d:dk	5			
.m:missing	47			
.q:dispute the education but no record	32			
.r:refuse	1			
1.Less than lower secondary	22240			
2.upper secondary & vocational training	2513			
3.tertiary	666			

Value	S1EDUCL	S2EDUCL	S3EDUCL	S4EDUCL
.d:dk	18			
.m:missing	20	17	8	14
.q:dispute the education but no record				29
.r:refuse	1			
.u:unmar	2260	2401	2595	2719
.v:sp nr	538	623	1358	650
1.Less than lower secondary	12920	13435	14879	15594
2.upper secondary & vocational training	1592	1779	1482	1698
3.tertiary	359	349	221	389

How Constructed:

RAEDUC_C identifies the highest level of education that the respondent has attained. To account for the high prevalence of low levels of education, CHARLS provides additional lower education categories. 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 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 waves
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 (Wave 3). 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, parttime), 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

To account for the high prevalence of lower level of education, RAEDUC_C includes additional lower
education categories from RAEDUC in the RAND HRS. RAEDUCL 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_3     what's the highest level of education in last wave
    BD001_W2_4     have your highest level of education changed? if so, wha
Wave 3:
    E000S1         Educational Level
    E000S10        Educational Level
    E000S11        Educational Level
    E000S12        Educational Level
    E000S2         Educational Level
    E000S3         Educational Level
    E000S4         Educational Level
    E000S5         Educational Level
    E000S6         Educational Level
    E000S7         Educational Level
    E000S8         Educational Level
    E000S9         Educational Level
    E001           Read/Write
    ERRORE000      Record is Correct
Wave 4:
    BD001_W2_4     Have Your Highest Level of Education Changed?
```

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         20382        1.91        2.08         1.00         8.00
R4MSTAT         21096        1.89        1.99         1.00         8.00

S1MSTAT         14910        1.16        0.54         1.00         3.00
S2MSTAT         15580        1.12        0.47         1.00         8.00
S3MSTAT         16586        1.25        1.05         1.00         8.00
S4MSTAT         17724        1.13        0.49         1.00         4.00
```

Categorical Variable Codes

Value	R1MSTAT	R2MSTAT	R3MSTAT	R4MSTAT
.m:missing	12	3	161	1
1.married	14170	15069	16805	16985
3.partnered	1278	1141	533	1392
4.separated	77	47	40	45
5.divorced	146	147	413	187
7.widowed	1866	2049	2368	2330
8.never married	159	156	223	157

Value	S1MSTAT	S2MSTAT	S3MSTAT	S4MSTAT
.m:missing			4	
.u:unmar	2260	2401	2595	2719
.v:sp nr	538	623	1358	650
1.married	13723	14666	15528	16565
3.partnered	1187	913	452	1158
4.separated			12	1
5.divorced			235	
7.widowed			319	
8.never married		1	40	

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, wave 2 and wave 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 wave 2 and wave 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.

In wave 3, the respondent's marital status is derived from multiple questions within the Demographics module. A code of 1 indicates the respondent is married. Respondents are asked whether they got married with each reported spouse or partner. If the value for the last reported spouse or partner indicates they did get married and did not separate or divorce, a 1 is coded. A code of 3 indicates the respondent is partnered. A respondent is considered partnered if one of the following is true: (1) the respondent reports they did get married to the last reported partner or spouse, is not living with the last reported spouse, and are separated for a reason besides a relationship breakdown (including a divorce) or widowed/partner died, (2) the respondent reported they did not get married to the last reported partner or spouse but are still living with their last reported partner, (3) the respondent reports the have had a spouse or partner and the respondent is coupled, as indicated by the couple ID. A code of 4 indicates the respondent reported they are not living with their last reported spouse or partner due to a relationship breakdown, including divorce. A code of 5 indicates the respondent is divorced from their last reported spouse. A code of 7 indicates the respondent reported they are not living with their last reported spouse or partner due to being widowed or their partner died. A code of 8 indicates the respondent has never been married or partnered.

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 4 differ from wave 1 in that CHARLS introduces a new category "Cohabitated". Cohabitation is coded as 3.Partnership.

There are notable differences in the structure of R3MSTAT from core waves. A respondent's marital status is not directly asked in the Life History wave. Thus, this Life History variable is constructed using multiple variables from the Demographics module to infer marital status. The variables used are in loop form. Specifically, R3MSTAT is constructed as follows:

A code of 1 indicates the respondent is married. Respondents are asked whether they got married with each reported spouse or partner. If the value for the last reported spouse or partner indicates they did get married and did not separate or divorce, a 1 is coded. A code of 3 indicates the respondent is partnered. A respondent is considered partnered if one of the following is true: (1) the respondent reports they did get married to the last reported partner or spouse, is not living with the last reported spouse, and are separated for a reason besides a relationship breakdown (including a divorce) or widowed/partner died, (2) the respondent reported they did not get married to the last reported partner or spouse but are still living with their last reported partner, (3) the respondent reports the have had a spouse or partner and the respondent is coupled, as indicated by the couple ID. A code of 4 indicates the respondent reported they are not living with their last reported spouse or partner due to a relationship breakdown, including divorce. A code of 5 indicates the respondent is divorced from their last reported spouse. A code of 7 indicates the respondent reported they are not living with their last reported spouse or partner due to being widowed or their partner died. A code of 8 indicates the respondent has never been married or partnered.

Differences with the RAND 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:
    HOUSEHOLDID     Household ID
    ID              Individual ID
Wave 4:
    BE001           Martial Status
    HOUSEHOLDID     Household ID
    ID              Individual ID
```

Current Marital Status: Without Partnership

```
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         20364       1.91         2.08         1.00         8.00
R4MSTATH         21060       1.83         1.98         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         16568       1.24         1.04         1.00         8.00
S4MSTATH         17688       1.07         0.29         1.00         7.00
```

Categorical Variable Codes

Value	R1MSTATH	R2MSTATH	R3MSTATH	R4MSTATH
.m:missing	33	27	179	37
1.married	14170	15069	16805	16985
2.married, sp abs	1247	1067	52	1307
3.partnered		16	462	26
4.separated	83	67	40	56
5.divorced	147	155	414	194
7.widowed	1869	2055	2368	2335
8.never married	159	156	223	157

Value	S1MSTATH	S2MSTATH	S3MSTATH	S4MSTATH
.m:missing	21	24	22	36
.u:unmar	2351	2628	2640	2951
.v:sp nr	447	399	1313	418
1.married	13723	14666	15528	16565
2.married, sp abs	1156	840	7	1075
3.partnered		15	426	24
4.separated	6	20	12	12
5.divorced	1	8	236	7
7.widowed	3	6	319	5
8.never married		1	40	

How Constructed:

RwMSTATH indicates a respondents 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, wave 2 and wave 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 wave 2 and wave 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.

In wave 3, the respondent's marital status is derived from multiple questions within the Demographics module. A code of 1 indicates the respondent is married. Respondents are asked whether they got married with each reported spouse or partner. If the value for the last reported spouse or partner indicates they did get married and did not separate or divorce, a 1 is coded. A code of 2 indicates the respondent reports they did get married to the last reported partner or spouse, is not living with the last reported spouse, and are separated for a reason besides a relationship breakdown (including a divorce) or widowed/partner died. A code of 4 indicates the respondent reported they are not living with their last reported spouse or partner due to a relationship breakdown, including divorce. A code of 5 indicates the respondent is divorced from their last reported spouse. A code of 7 indicates the respondent reported they are not living with their last reported spouse or partner due to being widowed or their partner died. A code of 8 indicates the respondent has never been married or partnered.

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 4 differ from wave 1 in that CHARLS introduces a new category "Cohabitated". Cohabitation is coded as 3.Partnership in wave 2 and 4. A code of 3 is not included for wave 1 or wave 3.

There are notable differences in the structure of R3MSTAT from core waves. A respondent's marital status is not directly asked in the Life History wave. Thus, this Life History variable is constructed using multiple variables from the Demographics module to infer marital status. The variables used are in loop form. Specifically, R3MSTATH is constructed as follows:

A code of 1 indicates the respondent is married. Respondents are asked whether they got married with each reported spouse or partner. If the value for the last reported spouse or partner indicates they did get married and did not separate or divorce, a 1 is coded. A code of 2 indicates the respondent reports they did get married to the last reported partner or spouse, is not living with the last reported spouse, and are separated for a reason besides a relationship breakdown (including a divorce) or widowed/partner died. A code of 4 indicates the respondent reported they are not living with their last reported spouse or partner due to a relationship breakdown, including divorce. A code of 5 indicates the respondent is divorced from their last reported spouse. A code of 7 indicates the respondent reported they are not living with their last reported spouse or partner due to being widowed or their partner died. A code of 8 indicates the respondent has never been married or partnered.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
   BE001          marital status
Wave 2:
   BE001          martial status
```

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          19902       0.01        0.11          0.00          1.00
R4MNEV          21060       0.01        0.09          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          16142       0.00        0.05          0.00          1.00
S4MNEV          17688       0.00        0.00          0.00          0.00
```

Categorical Variable Codes

```
Value--------------------------------|    R1MNEV      R2MNEV      R3MNEV      R4MNEV
.m:missing                           |      33          27         641          37
0.no                                 |    17516       18429       19679       20903
1.yes                                |      159         156         223         157

Value--------------------------------|    S1MNEV      S2MNEV      S3MNEV      S4MNEV
.m:missing                           |      21          24         448          36
.u:unmar                             |    2260        2401        2595        2719
.v:sp nr                             |      538         623        1358         650
0.no                                 |    14889       15555       16102       17688
1.yes                                |                    1          40
```

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 4 differ from wave 1 and wave 3 in that CHARLS introduces a new category "Cohabitated". Cohabitation is coded as 0 in wave 2 and 4.

RwMNEV is determined by how marital status is defined for the respondent. There are notable differences in how the Life History wave determines marital status. Please refer to RwMSTATH for details on how the Life History wave categorizes marital status.

Differences with the RAND HRS

```
No difference known.
```

CHARLS Variables Used:

```
Wave 1:
    BE001           marital status
Wave 2:
    BE001           martial status
Wave 4:
    BE001           Martial Status
```

Number of Marriage

```
Wave Variable      Label                                                       Type

  1  R1MRCT         r1mrct:w1 r # marriages                                     Cont
  2  R2MRCT         r2mrct:w2 r # marriages                                     Cont
  3  R3MRCT         r3mrct:w3 r # marriages                                     Cont

  1  S1MRCT         s1mrct:w1 s # marriages                                     Cont
  2  S2MRCT         s2mrct:w2 s # marriages                                     Cont
  3  S3MRCT         s3mrct:w3 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
R3MRCT          20543        1.00         0.28        0.00         5.00

S1MRCT          14882        1.04         0.22        0.00         6.00
S2MRCT          15547        1.25         0.49        0.00         5.00
S3MRCT          16590        1.02         0.25        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. In the Life History wave, if the respondent reports they never had a spouse or never married the last reported partner, a 0 is coded. If the respondent reports having any spouse or partner, the respondent is asked if they got married with each partner or spouse they report. For each spouse the respondent reports marrying, one is added to the number of times they have married.

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

There are notable differences in the structure of R3MRCT from core waves. The number of times married is not directly asked in the Life History wave. Thus, Life History is constructed using multiple variables from the spouse/partner section to count the number of times married. In the Life History wave, if the respondent reports they never had a spouse or never married the last reported partner, a 0 is coded. If the respondent reports having any spouse or partner, the respondent is asked if they got married with each partner or spouse they report. For each spouse the respondent reports marrying, one is added to the number of times they have been married.

RwMRCT is not included for wave 4 due to an error in the raw data for the question asking respondents how many times they have been married.

Differences with the RAND 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 intervie
    XRTYPE          r interview type
```

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
  3  R3MCURLN      r3mcurln:w3 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
  3  S3MCURLN      s3mcurln:w3 s length of current marriage                 Cont
```

Descriptive Statistics

```
Variable         N        Mean      Std Dev      Minimum      Maximum

R1MCURLN       15316      34.27      10.61         1.00        79.00
R2MCURLN       15777      35.15      10.79         0.00        79.00
R3MCURLN       19453      35.28      12.01         0.00       136.00

S1MCURLN       14719      34.33      10.59         1.00        79.00
S2MCURLN       14930      35.15      10.67         0.00        79.00
S3MCURLN       16002      34.23      11.04         0.00       136.00
```

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. In the Life History wave, for each spouse the respondent
reports, they are asked the year they got married for the first time. R3MCURLN is calculated by
using the last reported spouse marriage year if still married along with the year of the current
interview. 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 and the Life History wave, 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 and the Life History wave in that CHARLS
introduces a new category "Cohabitated".

In the Life History wave, for each spouse the respondent reports, they are asked the year they got
married for the first time. R3MCURLN is calculated by using the last reported spouse marriage year
if still married along with the year of the current interview.

RwMCURLN is not included for wave 4 due to an error in the raw data for the question asking
respondents how many times they have been married.
```

Differences with the RAND HRS

```
 No differences known.
```

CHARLS Variables Used:

```
Wave 1:
    BE001           marital status
    BE004_1         Umarried
    BE009_1         When was your most recent marriage year
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 intervie
    BE004_1         when did you get married: year
    BE009_1         when was your most recent marriage: year
    IMONTH          interview month
    IYEAR           interview year
    XRTYPE          r interview type
```

Place of Birth

```
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
  4  S4BPLACE_C      s4bplace_c:w4 s birth place                              Categ
```

Descriptive Statistics

```
Variable          N        Mean      Std Dev     Minimum     Maximum

RABPLACE_C      24877      1.74        0.75        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
S4BPLACE_C      17685      1.72        0.76        1.00        4.00
```

Categorical Variable Codes

```
Value-------------------------------| RABPLACE_C
.d:dk                               |         2
.m:missing                          |        77
.r:refuse                           |         2
1.Interview place                   |     11097
2.Another village/neighborhood in the sa|  9203
3.Another village/neighborhood in other |  4571
4.Abroad                            |         6

Value-------------------------------| S1BPLACE_C   S2BPLACE_C            S4BPLACE_C
.d:dk                               |        17            1
.m:missing                          |        17           32                    39
.r:refuse                           |         2
.u:unmar                            |      2260         2401                  2719
.v:sp nr                            |       538          623                   650
1.Interview place                   |      7406         7868                  8305
2.Another village/neighborhood in the sa|  6622         6528                  6030
3.Another village/neighborhood in other |   842         1147                  3347
4.Abroad                            |         4            4                     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.

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

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 4:
    BB001          Where Were You Born
```

Hukou Region

```
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       20145       1.24        0.48         1.00         4.00
R4HUKOU       20024       1.26        0.50         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       16288       1.23        0.48         1.00         4.00
S4HUKOU       16833       1.25        0.49         1.00         4.00
```

Categorical Variable Codes

Value-------------------------------		R1HUKOU	R2HUKOU	R3HUKOU	R4HUKOU
.d:dk		5			
.m:missing		28	61	398	1073
.r:refuse		2			
1.Agricultual hukou		13694	14189	15754	15384
2.Non-agricultural hukou		3862	4145	3905	4137
3.Unified residence hukou		107	208	480	476
4.Do not have hukou		10	9	6	27

Value-------------------------------		S1HUKOU	S2HUKOU	S3HUKOU	S4HUKOU
.d:dk		3			
.m:missing		19	48	302	891
.r:refuse		2			
.u:unmar		2260	2401	2595	2719
.v:sp nr		538	623	1358	650
1.Agricultual hukou		11652	11927	12878	12975
2.Non-agricultural hukou		3134	3424	3025	3451
3.Unified residence hukou		90	175	381	387
4.Do not have hukou		10	6	4	20

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, respondents are asked to indicate their first Hukou status. If the respondent indicates they have changes status since their first status, the last reported change in Hukou status is assigned as the wave 3 Hukou status. In wave 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 wave 4. 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 value is assigned to wave 4. 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 4 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

In wave 3, respondents are asked to indicate their first Hukou status. If the respondent indicates they have changed status since their first status, the last reported change in Hukou status is assigned as the wave 3 Hukou status.

Wave 4 differs from wave 1, 2 and 3 in that it incorporates 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 4. 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 value is assigned to wave 4.

Differences with the RAND 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 4:
    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 Chang
```

Live in Urban or Rural

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	25504	0.56	0.50	0.00	1.00
H4RURAL	21097	0.59	0.49	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	20139	0.78	0.41	0.00	1.00
R4RURAL2	19997	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	16284	0.79	0.41	0.00	1.00
S4RURAL2	16813	0.77	0.42	0.00	1.00

Categorical Variable Codes

Value	H1RURAL	H2RURAL	H3RURAL	H4RURAL
0.Urban Community	7171	7512	11327	8562
1.Rural Village	10537	11100	14177	12535

Value	R1RURAL2	R2RURAL2	R3RURAL2	R4RURAL2
.d:dk	5			
.m:missing	28	61	398	1073
.n:No hukou	10	9	6	27
.r:refuse	2			
0.Urban hukou	3969	4353	4385	4613
1.Rural hukou	13694	14189	15754	15384

Value	S1RURAL2	S2RURAL2	S3RURAL2	S4RURAL2
.d:dk	3			
.m:missing	19	48	302	891
.n:No hukou	10	6	4	20
.r:refuse	2			
.u:unmar	2260	2401	2595	2719
.v:sp nr	538	623	1358	650
0.Urban hukou	3224	3599	3406	3838
1.Rural hukou	11652	11927	12878	12975

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

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
    XRTYPE         r interview type
Wave 4:
    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 Chang
    XRTYPE         R Interview Type
```

Section B: Health

Self-report of Health

```
Wave Variable     Label                                                      Type

  1  R1SHLT        r1shlt:w1 r Self-report of health                         Categ
  2  R2SHLT        r2shlt:w2 r Self-report of health                         Categ
  4  R4SHLT        r4shlt:w4 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
  4  S4SHLT        s4shlt:w4 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
  4  R4SHLTF       r4shltf:w4 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
  4  S4SHLTF       s4shltf:w4 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
  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
  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
  4  R4SHLTAF      r4shltaf:w4 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
  4  S4SHLTAF      s4shltaf:w4 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
R4SHLT	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
S4SHLT	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
R4SHLTF	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
S4SHLTF	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
R4SHLTA	19698	2.89	0.99	1.00	5.00
S1SHLTA	14846	3.01	0.92	1.00	5.00
S2SHLTA	14844	2.95	0.95	1.00	5.00
S4SHLTA	16751	2.87	0.98	1.00	5.00
R1SHLTAF	17574	1.50	0.50	1.00	2.00
R2SHLTAF	17603	1.47	0.50	1.00	2.00
R4SHLTAF	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
S4SHLTAF	16751	1.49	0.50	1.00	2.00

Categorical Variable Codes

Value---------------------------------		R1SHLT	R2SHLT	R4SHLT
.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	S4SHLT
.d:dk		7		
.m:missing		4178	730	975
.u:unmar		2260	2401	2719
.v:sp nr		538	623	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	R4SHLTF
.m:missing		5086	1021	1396
1.beginning of module		8717	9119	9767
2.end of module		3905	8472	9934

Value---------------------------------		S1SHLTF	S2SHLTF	S4SHLTF
.m:missing		4178	730	975
.u:unmar		2260	2401	2719
.v:sp nr		538	623	650
1.beginning of module		7359	7688	8269
2.end of module		3373	7162	8480

Value---------------------------------		R1SHLTA	R2SHLTA	R4SHLTA
.d:dk		12		
.m:missing		134	1009	1399
.r:refuse		1		
1.Very good		1099	1626	2439
2.Good		3030	2530	2569
3.Fair		8551	9126	10305
4.Poor		4035	3399	3442
5.Very Poor		846	922	943

Value---------------------------------		S1SHLTA	S2SHLTA	S4SHLTA
.d:dk		10		
.m:missing		53	736	973
.r:refuse		1		
.u:unmar		2260	2401	2719
.v:sp nr		538	623	650
1.Very good		959	1400	2143
2.Good		2590	2144	2179
3.Fair		7281	7809	8896
4.Poor		3326	2771	2800
5.Very Poor		690	720	733

Value---------------------------------		R1SHLTAF	R2SHLTAF	R4SHLTAF
.m:missing		134	1009	1399
1.beginning of module		8867	9286	9952
2.end of module		8707	8317	9746

Value---------------------------------		S1SHLTAF	S2SHLTAF	S4SHLTAF

.m:missing	53	736	973
.u:unmar	2260	2401	2719
.v:sp nr	538	623	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 Bad. Respondents were asked their health status twice, once in the beginning of the health module and again in the end of the health module. In the beginning of the health module, respondents are randomly assigned into two groups; the first group of respondents is asked the first scale in the beginning and second scale at the end. The second group of respondents is the second scale in the beginning and the first scale at the end.

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.

Self-reported general health status on a scale from Excellent to Poor is asked either at the beginning or in the end of the Health module. RwSHLTF indicates this timing. Specifically, a code of 1 indicates that the respondent was asked RwHSLT at the beginning of the module. A code of 2 indicates that the respondent was asked RwSHLT at the end of the module. 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 Bad. 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.

Self-reported general health status on a scale from Very Good to Very Bad is asked either at the beginning or in the end of the Health module. RwSHLTAF indicates this timing. A code of 1 indicates that the respondent was asked RwHSLTA at the beginning of the module. A code of 2 indicates that the respondent was asked RwHSLTA at the end of the module. 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 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.

Differences with the RAND HRS

Unlike the HRS, CHALRS 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 4:
    DA001           Self Assessed Health Status (Excellent)
    DA002           Self Assessed Health Status (Very Good)
    DA079           Health Status(Self)
    DA080           Self Comment of Your Health
```

Whether health limits work

```
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
  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
  4  S4HLTHLM_C     s4hlthlm_c:w4 s health problems limit work                 Categ

  4  R4HLTHLM       r4hlthlm:w4 r 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
R4HLTHLM_C      13143       0.32         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
S4HLTHLM_C      11797       0.32         0.46          0.00          1.00

R4HLTHLM        18374       0.15         0.36          0.00          1.00

S4HLTHLM        15976       0.14         0.35          0.00          1.00
```

Categorical Variable Codes

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

Value----------------------------------| S1HLTHLM_C   S2HLTHLM_C             S4HLTHLM_C
.d:dk                                   |    190
.m:missing                              |    167          423                    785
.r:refuse                               |      1
.u:unmar                                |   2260         2401                   2719
.v:sp nr                                |    538          623                    650
.w:Not working                          |   4201         4525                   5142
0.No                                    |   7234         7138                   8071
1.Yes                                   |   3117         3494                   3726

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

Value------------------------------|                                        S4HLTHLM
.m:missing                         |                                             993
.u:unmar                           |                                            2719
.v:sp nr                           |                                             650
.w:Too old for work                |                                             755
0.No                               |                                           13694
1.Yes                              |                                            2282
```

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 last 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 non-agricultural 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.

Don't know, refused, or other missing values for RwHLTHLM_C are assigned special missing (.d), (.r), (.m), respectively. RwHLTHLM_C is set to special missing code (.w) if the respondent is not working, derived from variables within the employment section. 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 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?

Don't know, refused, or other missing values for RwHLTHLM are assigned special missing (.d), (.r), (.m), respectively. RwHLTHLM is set to special missing code (.w) if the respondent self-reported they are too old to work. 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

RwHLTHLM is added in wave 4. Wave 4 includes an additional question regarding work limitations due to health from the functional limitations section. This additional variable includes self-reported responses that the respondent is "too old for work".

Differences with the RAND 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 4 of CHARLS in the functional limitations section, thus RwHLTHLM is only included in wave 4. 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 OTHE
    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 PROBL
    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 othe
    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 4:
    DB036_W3        Can't Do Specific Work For Long Time Because of Disabili
    FC013           Days No Work due to Health Problems
    FD030           Days of Sick Leave
    FH004           Days of Sick leave
```

Activities of daily living (ADLs): Some difficulty

Wave	Variable	Label	Type
1	R1DRESSA	r1dressa:w1 r Some Diff-Dressing	Categ
2	R2DRESSA	r2dressa:w2 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
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
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
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
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
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
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
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
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
4	S4TOILTA	s4toilta:w4 s Some Diff-Using the toilet	Categ
1	R1URINA	r1urina:w1 r Some Diff-controling urination and defecation	Categ
2	R2URINA	r2urina:w2 r Some Diff-controling urination and defecation	Categ
4	R4URINA	r4urina:w4 r Some Diff-controling urination and defecation	Categ
1	S1URINA	s1urina:w1 s Some Diff-controling urination and defecation	Categ
2	S2URINA	s2urina:w2 s Some Diff-controling urination and defecation	Categ
4	S4URINA	s4urina:w4 s Some Diff-controling 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
R4DRESSA	20192	0.06	0.24	0.00	1.00
S1DRESSA	14681	0.05	0.21	0.00	1.00
S2DRESSA	15344	0.05	0.21	0.00	1.00
S4DRESSA	16982	0.05	0.23	0.00	1.00
R1BATHA	17349	0.07	0.25	0.00	1.00
R2BATHA	18218	0.07	0.25	0.00	1.00
R4BATHA	20167	0.08	0.27	0.00	1.00

S1BATHA	14674	0.06	0.23	0.00	1.00
S2BATHA	15329	0.06	0.23	0.00	1.00
S4BATHA	16968	0.07	0.25	0.00	1.00
R1EATA	17362	0.03	0.17	0.00	1.00
R2EATA	18240	0.02	0.15	0.00	1.00
R4EATA	20191	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
S4EATA	16983	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
R4BEDA	20187	0.07	0.25	0.00	1.00
S1BEDA	14681	0.05	0.21	0.00	1.00
S2BEDA	15343	0.05	0.22	0.00	1.00
S4BEDA	16980	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
R4TOILTA	20186	0.13	0.34	0.00	1.00
S1TOILTA	14680	0.11	0.31	0.00	1.00
S2TOILTA	15342	0.11	0.31	0.00	1.00
S4TOILTA	16979	0.12	0.32	0.00	1.00
R1URINA	17356	0.04	0.20	0.00	1.00
R2URINA	18215	0.04	0.20	0.00	1.00
R4URINA	20169	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
S4URINA	16970	0.04	0.20	0.00	1.00

Categorical Variable Codes

Value---------------------------------	R1DRESSA	R2DRESSA	R4DRESSA
.a:age less 50	9	68	35
.d:dk	4		
.m:missing	336	304	870
0.No	16453	17299	18957
1.Yes	906	941	1235

Value---------------------------------	S1DRESSA	S2DRESSA	S4DRESSA
.a:age less 50	6	60	30
.d:dk	1		
.m:missing	222	176	712
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	14013	14629	16059
1.Yes	668	715	923

Value---------------------------------	R1BATHA	R2BATHA	R4BATHA
.a:age less 50	9	68	35
.d:dk	13		
.m:missing	336	326	895
.r:refuse	1		
0.No	16168	17002	18627
1.Yes	1181	1216	1540

Value---------------------------------	S1BATHA	S2BATHA	S4BATHA
.a:age less 50	6	60	30
.d:dk	7		
.m:missing	222	191	726
.r:refuse	1		

.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13824	14457	15865
1.Yes	850	872	1103

Value--------------------------------	R1EATA	R2EATA	R4EATA
.a:age less 50	9	68	35
.d:dk	1		
.m:missing	336	304	871
0.No	16831	17819	19660
1.Yes	531	421	531

Value--------------------------------	S1EATA	S2EATA	S4EATA
.a:age less 50	6	60	30
.m:missing	222	177	711
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	14308	15027	16599
1.Yes	374	316	384

Value--------------------------------	R1BEDA	R2BEDA	R4BEDA
.a:age less 50	9	68	35
.d:dk	1		
.m:missing	336	305	875
.r:refuse	2		
0.No	16387	17192	18779
1.Yes	973	1047	1408

Value--------------------------------	S1BEDA	S2BEDA	S4BEDA
.a:age less 50	6	60	30
.m:missing	222	177	714
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13986	14580	15941
1.Yes	695	763	1039

Value--------------------------------	R1TOILTA	R2TOILTA	R4TOILTA
.a:age less 50	9	68	35
.d:dk	2		
.m:missing	337	306	876
0.No	15347	16093	17518
1.Yes	2013	2145	2668

Value--------------------------------	S1TOILTA	S2TOILTA	S4TOILTA
.a:age less 50	6	60	30
.d:dk	1		
.m:missing	223	178	715
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13133	13723	14979
1.Yes	1547	1619	2000

Value--------------------------------	R1URINA	R2URINA	R4URINA
.a:age less 50	9	68	35
.d:dk	6		
.m:missing	337	329	893
0.No	16599	17478	19253
1.Yes	757	737	916

Value--------------------------------	S1URINA	S2URINA	S4URINA
.a:age less 50	6	60	30
.d:dk	4		
.m:missing	223	192	724
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	14096	14771	16289
1.Yes	581	557	681

How Constructed:

These variables pertain to questions regarding Activities of Daily Living (ADLs) and whether the respondent experiences any 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. 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 special missing (.a) if the activities of daily living questions were skipped because the respondent is younger than 50 and healthy. 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

There are a large number of respondents who were not asked whether they have difficulty walking 100m in 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 100km. This issue only exists in Wave 1 and these respondents have been coded as (.m) missing. Starting in 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

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:

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 fo
DB005	Have Difficulty Climbing Several Flights of Stairs Witho
DB006	Have Difficulty Stooping,Kneeling,or Crouching
DB007	Have Difficulty Reaching or Extending Your Arms Above Sh
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
DB011	Have Any Difficulty With Bathing or Showering
DB012	Have Any Difficulty With Eating Because of Health And Me
DB013	Have Any Difficulty With Getting Out of Bed and Walking

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    DB014              Have Any Difficulty With Using the Toilet,Getting Up and
    DB015              Have Any Difficulty With Controlling Urination and Defec
Wave 2:
    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
Wave 4:
    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
```

Instrumental activities of daily living (IADLs): Some difficulty

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Wave Variable      Label                                                      Type

  1  R1MONEYA      r1moneya:w1 r Some Diff-Managing money                     Categ
  2  R2MONEYA      r2moneya:w2 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
  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
  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
  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
  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
  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
  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
  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
  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
  4  S4HOUSEWKA    s4housewka:w4 s Some Diff-cleaning house                   Categ

  2  R2PHONEA      r2phonea:w2 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
  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
R4MONEYA	20784	0.11	0.31	0.00	1.00
S1MONEYA	14810	0.12	0.32	0.00	1.00
S2MONEYA	15360	0.10	0.30	0.00	1.00
S4MONEYA	17562	0.10	0.29	0.00	1.00
R1MEDSA	17521	0.07	0.25	0.00	1.00
R2MEDSA	18342	0.05	0.22	0.00	1.00
R4MEDSA	20862	0.05	0.22	0.00	1.00
S1MEDSA	14829	0.06	0.24	0.00	1.00

S2MEDSA	15452	0.04	0.20	0.00	1.00
S4MEDSA	17626	0.04	0.20	0.00	1.00
R1SHOPA	17522	0.09	0.29	0.00	1.00
R2SHOPA	18317	0.09	0.28	0.00	1.00
R4SHOPA	20843	0.09	0.28	0.00	1.00
S1SHOPA	14828	0.08	0.27	0.00	1.00
S2SHOPA	15430	0.07	0.26	0.00	1.00
S4SHOPA	17610	0.07	0.26	0.00	1.00
R1MEALSA	17536	0.09	0.29	0.00	1.00
R2MEALSA	18308	0.09	0.29	0.00	1.00
R4MEALSA	20846	0.09	0.29	0.00	1.00
S1MEALSA	14838	0.08	0.27	0.00	1.00
S2MEALSA	15414	0.08	0.27	0.00	1.00
S4MEALSA	17601	0.08	0.27	0.00	1.00
R1HOUSEWKA	17535	0.10	0.29	0.00	1.00
R2HOUSEWKA	18348	0.11	0.31	0.00	1.00
R4HOUSEWKA	20889	0.13	0.33	0.00	1.00
S1HOUSEWKA	14837	0.08	0.28	0.00	1.00
S2HOUSEWKA	15450	0.10	0.29	0.00	1.00
S4HOUSEWKA	17640	0.11	0.31	0.00	1.00
R2PHONEA	17423	0.13	0.34	0.00	1.00
R4PHONEA	20004	0.12	0.32	0.00	1.00
S2PHONEA	14860	0.11	0.31	0.00	1.00
S4PHONEA	17086	0.10	0.30	0.00	1.00

Categorical Variable Codes

Value	R1MONEYA	R2MONEYA	R4MONEYA
.d:dk	48		
.m:missing	153	369	313
.r:refuse	5		
0.No	15254	16307	18598
1.Yes	2248	1936	2186

Value	S1MONEYA	S2MONEYA	S4MONEYA
.d:dk	37		
.m:missing	59	220	162
.r:refuse	4		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13100	13860	15877
1.Yes	1710	1500	1685

Value	R1MEDSA	R2MEDSA	R4MEDSA
.d:dk	30		
.m:missing	153	270	235
.r:refuse	4		
0.No	16298	17418	19812
1.Yes	1223	924	1050

Value	S1MEDSA	S2MEDSA	S4MEDSA
.d:dk	19		
.m:missing	59	128	98
.r:refuse	3		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13911	14782	16871
1.Yes	918	670	755

Value	R1SHOPA	R2SHOPA	R4SHOPA

.d:dk	28		
.m:missing	153	295	254
.r:refuse	5		
0.No	15886	16749	19055
1.Yes	1636	1568	1788

Value	S1SHOPA	S2SHOPA	S4SHOPA
.d:dk	19		
.m:missing	59	150	114
.r:refuse	4		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13643	14280	16343
1.Yes	1185	1150	1267

Value	R1MEALSA	R2MEALSA	R4MEALSA
.d:dk	15		
.m:missing	153	304	251
.r:refuse	4		
0.No	15939	16622	18902
1.Yes	1597	1686	1944

Value	S1MEALSA	S2MEALSA	S4MEALSA
.d:dk	10		
.m:missing	59	166	123
.r:refuse	3		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13675	14175	16163
1.Yes	1163	1239	1438

Value	R1HOUSEWKA	R2HOUSEWKA	R4HOUSEWKA
.d:dk	15		
.m:missing	153	264	208
.r:refuse	5		
0.No	15856	16360	18263
1.Yes	1679	1988	2626

Value	S1HOUSEWKA	S2HOUSEWKA	S4HOUSEWKA
.d:dk	10		
.m:missing	59	130	84
.r:refuse	4		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	13614	13979	15703
1.Yes	1223	1471	1937

Value		R2PHONEA	R4PHONEA
.m:missing		284	256
.n:no phone		905	837
0.No		15126	17652
1.Yes		2297	2352

Value		S2PHONEA	S4PHONEA
.m:missing		149	121
.n:no phone		571	517
.u:unmar		2401	2719
.v:sp nr		623	650
0.No		13211	15439
1.Yes		1649	1647

How Constructed:

These variables pertain to questions regarding Instrumental Activities of Daily Living (IADLs) and
whether the respondent experiences any 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, or to respondents who report
having no difficulty jogging, getting up from chair, climbing, stooping, reaching,
lifting/carrying, and picking up a coin.

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. RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are set to special missing (.a) if the instrumental 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 RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are assigned special missing values (.d), (.r), (.m) respectively. Special missing (.n) is assigned to RwPHONEA if a respondent has no phone. 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 in wave 2 and forward.

Differences with the RAND 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
    DB019          Have Any Difficulty With Managing Assets Because of Heal
    DB020          Have Any Difficulty With Taking Medications Because of H
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 4:
    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?
```

Other Functional Limitations: Some difficulty

Wave	Variable	Label	Type
1	R1JOGA	r1joga:w1 r Some Diff-Jog 1km	Categ
2	R2JOGA	r2joga:w2 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
4	S4DIMEA	s4dimea:w4 s Some Diff-Pick up a small coin	Categ

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   1   R1ARMSA         r1armsa:w1 r Some Diff-Rch/xtnd arms up                        Categ
   2   R2ARMSA         r2armsa:w2 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
   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
R4JOGA	19613	0.51	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
S4JOGA	16504	0.49	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
R4WALK1KMA	20149	0.17	0.38	0.00	1.00
S1WALK1KMA	14833	0.14	0.34	0.00	1.00
S2WALK1KMA	15303	0.15	0.36	0.00	1.00
S4WALK1KMA	16948	0.15	0.36	0.00	1.00
R1WALK100A	16286	0.02	0.13	0.00	1.00
R2WALK100A	18213	0.07	0.25	0.00	1.00
R4WALK100A	20169	0.08	0.26	0.00	1.00
S1WALK100A	13939	0.01	0.12	0.00	1.00
S2WALK100A	15325	0.06	0.23	0.00	1.00
S4WALK100A	16965	0.06	0.24	0.00	1.00
R1CHAIRA	17533	0.27	0.44	0.00	1.00
R2CHAIRA	18213	0.29	0.45	0.00	1.00
R4CHAIRA	20181	0.28	0.45	0.00	1.00
S1CHAIRA	14829	0.26	0.44	0.00	1.00
S2CHAIRA	15325	0.27	0.44	0.00	1.00
S4CHAIRA	16976	0.27	0.44	0.00	1.00
R1CLIMSA	17416	0.40	0.49	0.00	1.00
R2CLIMSA	17867	0.42	0.49	0.00	1.00
R4CLIMSA	19963	0.41	0.49	0.00	1.00
S1CLIMSA	14740	0.38	0.49	0.00	1.00
S2CLIMSA	15063	0.40	0.49	0.00	1.00
S4CLIMSA	16816	0.39	0.49	0.00	1.00
R1STOOPA	17529	0.29	0.46	0.00	1.00
R2STOOPA	18190	0.33	0.47	0.00	1.00
R4STOOPA	20160	0.32	0.47	0.00	1.00
S1STOOPA	14827	0.28	0.45	0.00	1.00
S2STOOPA	15308	0.31	0.46	0.00	1.00
S4STOOPA	16953	0.30	0.46	0.00	1.00
R1LIFTA	17536	0.12	0.32	0.00	1.00
R2LIFTA	18184	0.14	0.35	0.00	1.00
R4LIFTA	20144	0.14	0.35	0.00	1.00
S1LIFTA	14838	0.10	0.30	0.00	1.00
S2LIFTA	15303	0.12	0.32	0.00	1.00
S4LIFTA	16954	0.12	0.33	0.00	1.00

R1DIMEA	17533	0.04	0.20	0.00	1.00
R2DIMEA	18190	0.04	0.20	0.00	1.00
R4DIMEA	20157	0.04	0.21	0.00	1.00
S1DIMEA	14831	0.03	0.18	0.00	1.00
S2DIMEA	15305	0.04	0.19	0.00	1.00
S4DIMEA	16962	0.04	0.19	0.00	1.00
R1ARMSA	17538	0.10	0.31	0.00	1.00
R2ARMSA	18186	0.11	0.31	0.00	1.00
R4ARMSA	20169	0.11	0.31	0.00	1.00
S1ARMSA	14835	0.09	0.29	0.00	1.00
S2ARMSA	15307	0.10	0.30	0.00	1.00
S4ARMSA	16970	0.10	0.30	0.00	1.00

Categorical Variable Codes

Value	R1JOGA	R2JOGA	R4JOGA
.a:age less 50	3	76	36
.d:dk	315		
.m:missing	146	904	1448
.r:refuse	3		
0.no	8282	8281	9575
1.yes	8959	9351	10038

Value	S1JOGA	S2JOGA	S4JOGA
.a:age less 50		65	31
.d:dk	272		
.m:missing	57	671	1189
.r:refuse	3		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	7371	7335	8492
1.yes	7207	7509	8012

Value	R1WALK1KMA	R2WALK1KMA	R4WALK1KMA
.a:age less 50	3	68	35
.d:dk	21		
.m:missing	146	357	913
.r:refuse	2		
0.no	14790	15119	16626
1.yes	2746	3068	3523

Value	S1WALK1KMA	S2WALK1KMA	S4WALK1KMA
.a:age less 50		60	30
.d:dk	18		
.m:missing	57	217	746
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	12785	13026	14352
1.yes	2048	2277	2596

Value	R1WALK100A	R2WALK100A	R4WALK100A
.a:age less 50	4	68	35
.d:dk	7		
.m:missing	1409	331	893
.r:refuse	2		
0.no	16018	16998	18650
1.yes	268	1215	1519

Value	S1WALK100A	S2WALK100A	S4WALK100A
.a:age less 50	1	60	30
.d:dk	5		
.m:missing	963	195	729
.r:refuse	2		
.u:unmar	2260	2401	2719

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.v:sp nr                         |       538           623                  650
0.no                             |     13739         14465                15905
1.yes                            |       200           860                 1060

Value----------------------------|    R1CHAIRA      R2CHAIRA             R4CHAIRA
.a:age less 50                   |         3            68                   35
.d:dk                            |        25
.m:missing                       |       146           331                  881
.r:refuse                        |         1
0.no                             |     12781         13011                14523
1.yes                            |      4752          5202                 5658

Value----------------------------|    S1CHAIRA      S2CHAIRA             S4CHAIRA
.a:age less 50                   |                     60                   30
.d:dk                            |        23
.m:missing                       |        57           195                  718
.r:refuse                        |         1
.u:unmar                         |      2260          2401                 2719
.v:sp nr                         |       538           623                  650
0.no                             |     11016         11207                12465
1.yes                            |      3813          4118                 4511

Value----------------------------|    R1CLIMSA      R2CLIMSA             R4CLIMSA
.a:age less 50                   |         3            69                   35
.d:dk                            |       140
.m:missing                       |       146           676                 1099
.r:refuse                        |         3
0.no                             |     10458         10388                11756
1.yes                            |      6958          7479                 8207

Value----------------------------|    S1CLIMSA      S2CLIMSA             S4CLIMSA
.a:age less 50                   |                     60                   30
.d:dk                            |       110
.m:missing                       |        57           457                  878
.r:refuse                        |         3
.u:unmar                         |      2260          2401                 2719
.v:sp nr                         |       538           623                  650
0.no                             |      9161          9044                10266
1.yes                            |      5579          6019                 6550

Value----------------------------|    R1STOOPA      R2STOOPA             R4STOOPA
.a:age less 50                   |         3            68                   35
.d:dk                            |        29
.m:missing                       |       146           354                  902
.r:refuse                        |         1
0.no                             |     12388         12213                13631
1.yes                            |      5141          5977                 6529

Value----------------------------|    S1STOOPA      S2STOOPA             S4STOOPA
.a:age less 50                   |                     60                   30
.d:dk                            |        25
.m:missing                       |        57           212                  741
.r:refuse                        |         1
.u:unmar                         |      2260          2401                 2719
.v:sp nr                         |       538           623                  650
0.no                             |     10704         10553                11812
1.yes                            |      4123          4755                 5141

Value----------------------------|    R1LIFTA       R2LIFTA              R4LIFTA
.a:age less 50                   |         3            68                   35
.d:dk                            |        20
.m:missing                       |       148           360                  918
.r:refuse                        |         1
0.no                             |     15438         15638                17283
1.yes                            |      2098          2546                 2861

Value----------------------------|    R1DIMEA       R2DIMEA              R4DIMEA
.a:age less 50                   |         3            68                   35
.d:dk                            |        23
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.m:missing	148	354	905
.r:refuse	1		
0.no	16812	17424	19254
1.yes	721	766	903

Value-------------------------------	S1DIMEA	S2DIMEA	S4DIMEA
.a:age less 50		60	30
.d:dk	20		
.m:missing	58	215	732
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	14314	14735	16302
1.yes	517	570	660

Value-------------------------------	R1ARMSA	R2ARMSA	R4ARMSA
.a:age less 50	3	68	35
.d:dk	19		
.m:missing	146	358	893
.r:refuse	2		
0.no	15717	16174	17955
1.yes	1821	2012	2214

Value-------------------------------	S1ARMSA	S2ARMSA	S4ARMSA
.a:age less 50		60	30
.d:dk	16		
.m:missing	57	213	724
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	13427	13772	15280
1.yes	1408	1535	1690

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 and no self-reported disabilities. The following functional limitations include running or jogging 1KM (RwJOGA), walking 1KM (RwWALK1KMA), walking 100 (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. 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. 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. 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.

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

No differences known.

Differences with the RAND 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:

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Wave 1:
    DA001          Self Comment of Your Health
    DA002          Self Comment of Your Health
    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
    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 fo
    DB005          Have Difficulty Climbing Several Flights of Stairs Witho
    DB006          Have Difficulty Stooping,Kneeling,or Crouching
    DB007          Have Difficulty Reaching or Extending Your Arms Above Sh
    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
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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
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 4:

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
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

ADL Summary: sum ADLs where respondent reports any difficulty

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
R4ADLWA	20194	0.16	0.54	0.00	3.00
S1ADLWA	14682	0.13	0.50	0.00	3.00
S2ADLWA	15345	0.12	0.48	0.00	3.00
S4ADLWA	16984	0.14	0.51	0.00	3.00
R1ADLWAM	17708	0.06	0.42	0.00	3.00
R2ADLWAM	18612	0.06	0.42	0.00	3.00
R4ADLWAM	21097	0.13	0.61	0.00	3.00
S1ADLWAM	14910	0.05	0.37	0.00	3.00
S2ADLWAM	15580	0.05	0.37	0.00	3.00
S4ADLWAM	17724	0.13	0.60	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
R4ADLA_C	20194	0.23	0.71	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
S4ADLA_C	16984	0.20	0.67	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
R4ADLAM_C	21097	0.17	0.81	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
S4ADLAM_C	17724	0.17	0.80	0.00	4.00
R1ADLFIVE	17362	0.32	0.93	0.00	5.00
R2ADLFIVE	18242	0.32	0.88	0.00	5.00
R4ADLFIVE	20194	0.37	0.94	0.00	5.00
S1ADLFIVE	14682	0.28	0.86	0.00	5.00
S2ADLFIVE	15345	0.28	0.83	0.00	5.00
S4ADLFIVE	16984	0.32	0.88	0.00	5.00
R1ADLFIVEM	17708	0.10	0.69	0.00	5.00
R2ADLFIVEM	18612	0.10	0.70	0.00	5.00
R4ADLFIVEM	21097	0.22	1.01	0.00	5.00
S1ADLFIVEM	14910	0.08	0.61	0.00	5.00
S2ADLFIVEM	15580	0.08	0.61	0.00	5.00
S4ADLFIVEM	17724	0.21	1.00	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
R4ADLAB_C	20195	0.41	1.05	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
S4ADLAB_C	16985	0.36	0.97	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
R4ADLABM_C	21097	0.26	1.22	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
S4ADLABM_C	17724	0.25	1.20	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 = 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 = 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= 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 = 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

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.

IADL Summary: sum IADLs where respondent reports any difficulty

Wave	Variable	Label	Type
2	R2IADLA	r2iadla:w2 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
4	S4IADLA	s4iadla:w4 s Some-Diff-IADLs:summary /0-3	Cont
2	R2IADLAM	r2iadlam:w2 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
4	S4IADLAM	s4iadlam:w4 s Some Diff-Missings in IADLs Score	Cont
2	R2IADLZA	r2iadlza:w2 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
4	S4IADLZA	s4iadlza:w4 s Some Diff-IADLs:summary /0-5	Cont
2	R2IADLZAM	r2iadlzam:w2 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
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
R4IADLA	20917	0.27	0.63	0.00	3.00
S2IADLA	15474	0.25	0.60	0.00	3.00
S4IADLA	17660	0.23	0.59	0.00	3.00
R2IADLAM	18612	0.10	0.41	0.00	3.00
R4IADLAM	21097	0.08	0.36	0.00	3.00
S2IADLAM	15580	0.07	0.33	0.00	3.00
S4IADLAM	17724	0.05	0.27	0.00	3.00
R2IADLZA	18386	0.46	1.01	0.00	5.00
R4IADLZA	20920	0.45	1.01	0.00	5.00
S2IADLZA	15478	0.40	0.94	0.00	5.00
S4IADLZA	17663	0.38	0.93	0.00	5.00
R2IADLZAM	18612	0.13	0.61	0.00	5.00
R4IADLZAM	21097	0.10	0.52	0.00	5.00
S2IADLZAM	15580	0.09	0.47	0.00	5.00
S4IADLZAM	17724	0.06	0.37	0.00	5.00

How Constructed:

Two Instrumental Activities of Daily Living (IADL) summaries are derived. 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 = 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 = 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 in wave 2 and forward. In wave 1, there is no question regarding using the phone.

Differences with the RAND HRS

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

Mobility Summaries

Wave	Variable	Label	Type
1	R1MOBILSEV	r1mobilsev:w1 r 7 item mobility	Cont
2	R2MOBILSEV	r2mobilsev:w2 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
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
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
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
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
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
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
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
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
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
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
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
R4MOBILSEV	20197	1.38	1.68	0.00	7.00
S1MOBILSEV	14850	1.16	1.50	0.00	7.00
S2MOBILSEV	15341	1.28	1.59	0.00	7.00
S4MOBILSEV	16985	1.28	1.61	0.00	7.00
R1MOBILSEVM	17708	0.15	0.70	0.00	7.00
R2MOBILSEVM	18612	0.17	1.00	0.00	7.00
R4MOBILSEVM	21097	0.32	1.42	0.00	7.00

S1MOBILSEVM	14910	0.10	0.52	0.00	7.00
S2MOBILSEVM	15580	0.14	0.88	0.00	7.00
S4MOBILSEVM	17724	0.31	1.40	0.00	7.00
R1LOWERMOB	17556	0.98	1.16	0.00	4.00
R2LOWERMOB	18237	1.09	1.24	0.00	4.00
R4LOWERMOB	20196	1.09	1.25	0.00	4.00
S1LOWERMOB	14850	0.92	1.13	0.00	4.00
S2LOWERMOB	15341	1.03	1.21	0.00	4.00
S4LOWERMOB	16984	1.02	1.21	0.00	4.00
R1LOWERMOBM	17708	0.12	0.46	0.00	4.00
R2LOWERMOBM	18612	0.11	0.58	0.00	4.00
R4LOWERMOBM	21097	0.19	0.82	0.00	4.00
S1LOWERMOBM	14910	0.09	0.36	0.00	4.00
S2LOWERMOBM	15580	0.08	0.51	0.00	4.00
S4LOWERMOBM	17724	0.18	0.81	0.00	4.00
R1UPPERMOB	17553	0.26	0.63	0.00	3.00
R2UPPERMOB	18234	0.29	0.64	0.00	3.00
R4UPPERMOB	20195	0.30	0.65	0.00	3.00
S1UPPERMOB	14847	0.23	0.59	0.00	3.00
S2UPPERMOB	15339	0.26	0.60	0.00	3.00
S4UPPERMOB	16984	0.26	0.61	0.00	3.00
R1UPPERMOBM	17708	0.03	0.29	0.00	3.00
R2UPPERMOBM	18612	0.07	0.43	0.00	3.00
R4UPPERMOBM	21097	0.13	0.61	0.00	3.00
S1UPPERMOBM	14910	0.02	0.20	0.00	3.00
S2UPPERMOBM	15580	0.05	0.38	0.00	3.00
S4UPPERMOBM	17724	0.13	0.60	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 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

No differences known.

Mental health (CESD score)

Wave	Variable	Label	Type
1	R1DEPRESL	r1depresl:w1 r CESD: Felt depressed	Categ
2	R2DEPRESL	r2depresl:w2 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
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
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
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
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
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
4	R4WHAPPYL	r4whappyl:w4 r CESD: Was happy	Categ
1	S1WHAPPYL	r1whappyl:w1 s CESD: Was happy	Categ
2	S2WHAPPYL	r2whappyl:w2 s CESD: Was happy	Categ
4	S4WHAPPYL	r4whappyl:w4 s CESD: Was happy	Categ
1	R1FLONEL	r1flonel:w1 r CESD: Felt lonely	Categ
2	R2FLONEL	r2flonel:w2 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
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
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
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
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
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
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
4	S4MINDTSL	s4mindtsl:w4 s CESD: Had trouble keeping mind on what is doi	Categ

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   1   R1FHOPEL        r1fhopel:w1 r CESD: Feel hopeful about the future              Categ
   2   R2FHOPEL        r2fhopel:w2 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
   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
   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
   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
   4   R4CESD10        r4cesd10:w4 r CESD Score                                       Cont

   1   S1CESD10        s1cesd10:w1 s CESD Score                                       Cont
   2   S2CESD10        s2cesd10:w2 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
   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
   4   S4CESD10M       s4cesd10m:w4 s Missing in CESD Score                           Cont
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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
R4DEPRESL	19355	1.84	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
S4DEPRESL	16507	1.81	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
R4EFFORTL	19364	1.82	1.13	1.00	4.00
S1EFFORTL	13442	1.99	1.14	1.00	4.00
S2EFFORTL	13900	1.78	1.08	1.00	4.00
S4EFFORTL	16525	1.79	1.11	1.00	4.00
R1SLEEPRL	15991	2.05	1.19	1.00	4.00
R2SLEEPRL	16498	2.02	1.19	1.00	4.00
R4SLEEPRL	19529	2.02	1.21	1.00	4.00
S1SLEEPRL	13520	2.02	1.18	1.00	4.00
S2SLEEPRL	13981	1.99	1.18	1.00	4.00
S4SLEEPRL	16638	1.98	1.19	1.00	4.00
R1WHAPPYL	15948	2.94	1.11	1.00	4.00
R2WHAPPYL	16438	2.61	1.23	1.00	4.00
R4WHAPPYL	19392	2.93	1.21	1.00	4.00
S1WHAPPYL	13486	2.96	1.11	1.00	4.00
S2WHAPPYL	13943	2.63	1.23	1.00	4.00
S4WHAPPYL	16541	2.96	1.19	1.00	4.00

R1FLONEL	15924	1.54	0.95	1.00	4.00
R2FLONEL	16421	1.42	0.87	1.00	4.00
R4FLONEL	19438	1.51	0.97	1.00	4.00
S1FLONEL	13465	1.45	0.87	1.00	4.00
S2FLONEL	13931	1.35	0.79	1.00	4.00
S4FLONEL	16573	1.42	0.88	1.00	4.00
R1BOTHERL	15921	2.03	1.11	1.00	4.00
R2BOTHERL	16332	1.75	1.03	1.00	4.00
R4BOTHERL	19389	1.87	1.11	1.00	4.00
S1BOTHERL	13459	2.03	1.11	1.00	4.00
S2BOTHERL	13868	1.75	1.02	1.00	4.00
S4BOTHERL	16548	1.85	1.10	1.00	4.00
R1GOINGL	15886	1.37	0.79	1.00	4.00
R2GOINGL	16386	1.27	0.72	1.00	4.00
R4GOINGL	19343	1.33	0.81	1.00	4.00
S1GOINGL	13445	1.34	0.77	1.00	4.00
S2GOINGL	13904	1.25	0.69	1.00	4.00
S4GOINGL	16520	1.30	0.76	1.00	4.00
R1MINDTSL	15825	1.92	1.08	1.00	4.00
R2MINDTSL	16197	1.73	1.03	1.00	4.00
R4MINDTSL	19167	1.82	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
S4MINDTSL	16381	1.80	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
R4FHOPEL	18796	2.63	1.30	1.00	4.00
S1FHOPEL	13230	2.86	1.19	1.00	4.00
S2FHOPEL	13653	2.48	1.29	1.00	4.00
S4FHOPEL	16074	2.67	1.29	1.00	4.00
R1FEARLL	15972	1.36	0.78	1.00	4.00
R2FEARLL	16478	1.27	0.72	1.00	4.00
R4FEARLL	19524	1.31	0.77	1.00	4.00
S1FEARLL	13501	1.35	0.77	1.00	4.00
S2FEARLL	13964	1.26	0.70	1.00	4.00
S4FEARLL	16637	1.29	0.75	1.00	4.00
R1CESD10	16037	8.40	6.33	0.00	30.00
R2CESD10	16567	7.83	5.77	0.00	30.00
R4CESD10	19611	7.82	6.33	0.00	30.00
S1CESD10	13551	8.14	6.23	0.00	30.00
S2CESD10	14032	7.61	5.66	0.00	30.00
S4CESD10	16696	7.52	6.16	0.00	30.00
R1CESD10M	17708	1.03	2.95	0.00	10.00
R2CESD10M	18612	1.22	3.15	0.00	10.00
R4CESD10M	21097	0.84	2.60	0.00	10.00
S1CESD10M	14910	0.99	2.90	0.00	10.00
S2CESD10M	15580	1.09	3.01	0.00	10.00
S4CESD10M	17724	0.69	2.38	0.00	10.00

Categorical Variable Codes

Value-------------------------------		R1DEPRESL	R2DEPRESL	R4DEPRESL
.d:dk		192		

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.m:missing                          |     1294        1803             1329
.p:proxy                            |      354         477              413
.r:refuse                           |        8
1.Rarely or none of the time < 1 day|     7240        9395            10733
2.Some or a little of the time 1-2 days|  3673        3166             3267
3.Occasionally or a moderate amount of 3| 2988        2267             3065
4.Most or all of the time 5-7 days  |     1959        1504             2290

Value-------------------------------| S1DEPRESL   S2DEPRESL        S4DEPRESL
.d:dk                               |      145
.m:missing                          |     1035        1333              916
.p:proxy                            |      309         376              301
.r:refuse                           |        5
.u:unmar                            |     2260        2401             2719
.v:sp nr                            |      538         623              650
1.Rarely or none of the time < 1 day|     6233        8091             9308
2.Some or a little of the time 1-2 days|  3086        2702             2834
3.Occasionally or a moderate amount of 3| 2512        1876             2558
4.Most or all of the time 5-7 days  |     1585        1202             1807

Value-------------------------------| R1EFFORTL   R2EFFORTL        R4EFFORTL
.d:dk                               |      161
.m:missing                          |     1294        1772             1323
.p:proxy                            |      354         477              410
.r:refuse                           |        9
1.Rarely or none of the time < 1 day|     7710        9694            11555
2.Some or a little of the time 1-2 days|  2951        2499             2595
3.Occasionally or a moderate amount of 3| 2624        2022             2354
4.Most or all of the time 5-7 days  |     2605        2148             2860

Value-------------------------------| S1EFFORTL   S2EFFORTL        S4EFFORTL
.d:dk                               |      117
.m:missing                          |     1035        1304              901
.p:proxy                            |      309         376              298
.r:refuse                           |        7
.u:unmar                            |     2260        2401             2719
.v:sp nr                            |      538         623              650
1.Rarely or none of the time < 1 day|     6643        8303             9996
2.Some or a little of the time 1-2 days|  2469        2142             2235
3.Occasionally or a moderate amount of 3| 2204        1716             2003
4.Most or all of the time 5-7 days  |     2126        1739             2291

Value-------------------------------| R1SLEEPRL   R2SLEEPRL        R4SLEEPRL
.d:dk                               |       60
.m:missing                          |     1295        1637             1158
.p:proxy                            |      354         477              410
.r:refuse                           |        8
1.Rarely or none of the time < 1 day|     7791        8323            10167
2.Some or a little of the time 1-2 days|  2682        2652             2725
3.Occasionally or a moderate amount of 3| 2379        2312             2709
4.Most or all of the time 5-7 days  |     3139        3211             3928

Value-------------------------------| S1SLEEPRL   S2SLEEPRL        S4SLEEPRL
.d:dk                               |       40
.m:missing                          |     1035        1223              788
.p:proxy                            |      309         376              298
.r:refuse                           |        6
.u:unmar                            |     2260        2401             2719
.v:sp nr                            |      538         623              650
1.Rarely or none of the time < 1 day|     6760        7221             8881
2.Some or a little of the time 1-2 days|  2240        2256             2331
3.Occasionally or a moderate amount of 3| 1964        1904             2274
4.Most or all of the time 5-7 days  |     2556        2600             3152

Value-------------------------------| R1WHAPPYL   R2WHAPPYL        R4WHAPPYL
.d:dk                               |       99
.m:missing                          |     1295        1697             1293
.p:proxy                            |      354         477              412
.r:refuse                           |       12
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1.Rarely or none of the time < 1 day	2637	4759	4207
2.Some or a little of the time 1-2 days	2449	2506	2216
3.Occasionally or a moderate amount of 3	4065	3505	3718
4.Most or all of the time 5-7 days	6797	5668	9251

Value--------------------------------	S1WHAPPYL	S2WHAPPYL	S4WHAPPYL
.d:dk	71		
.m:missing	1035	1261	883
.p:proxy	309	376	300
.r:refuse	9		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	2153	3967	3398
2.Some or a little of the time 1-2 days	2029	2125	1881
3.Occasionally or a moderate amount of 3	3457	2965	3201
4.Most or all of the time 5-7 days	5847	4886	8061

Value--------------------------------	R1FLONEL	R2FLONEL	R4FLONEL
.d:dk	124		
.m:missing	1295	1714	1248
.p:proxy	354	477	411
.r:refuse	11		
1.Rarely or none of the time < 1 day	11211	12651	14539
2.Some or a little of the time 1-2 days	2020	1601	1662
3.Occasionally or a moderate amount of 3	1444	1145	1540
4.Most or all of the time 5-7 days	1249	1024	1697

Value--------------------------------	S1FLONEL	S2FLONEL	S4FLONEL
.d:dk	95		
.m:missing	1035	1273	852
.p:proxy	309	376	299
.r:refuse	6		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	9982	11168	12912
2.Some or a little of the time 1-2 days	1646	1290	1374
3.Occasionally or a moderate amount of 3	1063	851	1217
4.Most or all of the time 5-7 days	774	622	1070

Value--------------------------------	R1BOTHERL	R2BOTHERL	R4BOTHERL
.d:dk	137		
.m:missing	1291	1803	1297
.p:proxy	353	477	411
.r:refuse	6		
1.Rarely or none of the time < 1 day	7180	9445	10799
2.Some or a little of the time 1-2 days	3481	3119	3025
3.Occasionally or a moderate amount of 3	2860	2102	2935
4.Most or all of the time 5-7 days	2400	1666	2630

Value--------------------------------	S1BOTHERL	S2BOTHERL	S4BOTHERL
.d:dk	107		
.m:missing	1033	1336	877
.p:proxy	308	376	299
.r:refuse	3		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	6070	8023	9253
2.Some or a little of the time 1-2 days	2976	2661	2644
3.Occasionally or a moderate amount of 3	2414	1803	2492
4.Most or all of the time 5-7 days	1999	1381	2159

Value--------------------------------	R1GOINGL	R2GOINGL	R4GOINGL
.d:dk	162		
.m:missing	1295	1749	1343
.p:proxy	354	477	411
.r:refuse	11		
1.Rarely or none of the time < 1 day	12454	13953	16064
2.Some or a little of the time 1-2 days	1722	1059	1166
3.Occasionally or a moderate amount of 3	996	742	1086

4.Most or all of the time 5-7 days	714	632	1027

Value--------------------------------	S1GOINGL	S2GOINGL	S4GOINGL
.d:dk	115		
.m:missing	1035	1300	905
.p:proxy	309	376	299
.r:refuse	6		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	10725	12001	13925
2.Some or a little of the time 1-2 days	1359	850	977
3.Occasionally or a moderate amount of 3	815	577	882
4.Most or all of the time 5-7 days	546	476	736

Value--------------------------------	R1MINDTSL	R2MINDTSL	R4MINDTSL
.d:dk	223		
.m:missing	1291	1938	1520
.p:proxy	354	477	410
.r:refuse	15		
1.Rarely or none of the time < 1 day	7978	9708	11079
2.Some or a little of the time 1-2 days	3200	2786	2832
3.Occasionally or a moderate amount of 3	2626	2083	2840
4.Most or all of the time 5-7 days	2021	1620	2416

Value--------------------------------	S1MINDTSL	S2MINDTSL	S4MINDTSL
.d:dk	153		
.m:missing	1033	1435	1044
.p:proxy	309	376	299
.r:refuse	10		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	6854	8275	9536
2.Some or a little of the time 1-2 days	2674	2395	2475
3.Occasionally or a moderate amount of 3	2199	1750	2420
4.Most or all of the time 5-7 days	1678	1349	1950

Value--------------------------------	R1FHOPEL	R2FHOPEL	R4FHOPEL
.d:dk	414		
.m:missing	1294	2083	1888
.p:proxy	354	477	413
.r:refuse	15		
1.Rarely or none of the time < 1 day	3490	5959	6158
2.Some or a little of the time 1-2 days	2365	2207	2228
3.Occasionally or a moderate amount of 3	3116	2576	2881
4.Most or all of the time 5-7 days	6660	5310	7529

Value--------------------------------	S1FHOPEL	S2FHOPEL	S4FHOPEL
.d:dk	327		
.m:missing	1035	1551	1349
.p:proxy	309	376	301
.r:refuse	9		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	2833	4941	5023
2.Some or a little of the time 1-2 days	1945	1872	1920
3.Occasionally or a moderate amount of 3	2664	2211	2543
4.Most or all of the time 5-7 days	5788	4629	6588

Value--------------------------------	R1FEARLL	R2FEARLL	R4FEARLL
.d:dk	80		
.m:missing	1294	1657	1161
.p:proxy	354	477	412
.r:refuse	8		
1.Rarely or none of the time < 1 day	12606	13996	16373
2.Some or a little of the time 1-2 days	1673	1088	1212
3.Occasionally or a moderate amount of 3	1013	785	1033
4.Most or all of the time 5-7 days	680	609	906

Value--------------------------------	S1FEARLL	S2FEARLL	S4FEARLL

.d:dk	59		
.m:missing	1035	1240	788
.p:proxy	309	376	299
.r:refuse	6		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Rarely or none of the time < 1 day	10749	11942	14057
2.Some or a little of the time 1-2 days	1360	912	1018
3.Occasionally or a moderate amount of 3	830	641	869
4.Most or all of the time 5-7 days	562	469	693

How Constructed:

RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL record the frequency of the respondent's feeling over the week prior to the interview. RwDEPRESL indicates whether the respondent was feeling depressed. RwEFFORTL indicates whether the respondent was feeling that everything was an effort. RwSLEEPRL indicates whether the respondent's sleep was restless. RwWHAPPYL indicates whether the respondent felt happy. RwFLONEL indicates whether the respondent felt lonely. RwBOTHERL indicates whether the respondent bothered by thing that don't usually bother them. RwGOINGL indicates whether the respondent felt they could not get going. RwMINDTSL indicates whether the respondent has trouble keeping their mind on what they are doing. RwFHOPEL indicates whether the respondent felt hopeful about the future. RwFEARLL indicates whether the respondent felt fearful.

A code of 1 indicates that the respondent experienced the particular feeling rarely or never (less than once a day). A code of 2 indicates the respondent experienced the particular feeling some or a little of the time (1-2 days). A code of 3 indicates the respondent experienced the particular feeling occasionally or a moderate amount of time (3-4 days). A code of 4 indicates the respondent experienced the particular feeling most or all of the time (5-7 days). Don't know, refused, or other missings values or RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL are assigned special missing codes (.d), (.r), (.m), respectively. RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL are set to special missing (.p) if the mental health questions were skipped because the interview was by proxy. RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL are set to plain missing (.) for respondents who did not respond to this wave.

SwDEPRESL, SwEFFORTL, SwSLEEPRL, SwWHAPPYL, SwFLONEL, SwBOTHERL, SwGOINGL, SwMINDTSL, SwFHOPEL and SwFEARLL indicate whether the respondent's spouse reported any feelings and are taken directly from the spouse's responses to RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL, respectively. In addition to the special missing codes used in RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL, SwDEPRESL, SwEFFORTL, SwSLEEPRL, SwWHAPPYL, SwFLONEL, SwBOTHERL, SwGOINGL, SwMINDTSL, SwFHOPEL and SwFEARLL employ two other 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.

RwCESD10 is the sum of the ten questions, 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. RwCESD10 ranges from 0 to 30 with higher scores indicating that the respondent felt more negatively during the past week.

SwCESD10 gives this information for the respondent's spouse or partner. 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.

RwCESD10M indicates how many individual measures used to derive RwCESD10 are missing.

SwCESD10M indicates how many individual measures used to derive SwCESD10 are missing. SwCESD10M is taken directly from the spouse's values of RwCESD10M. 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

In the CHARLS, CESD questions are asked using a 4 point scale which correspond to the frequency of respondent's feeling in the past week. All but the first wave of the HRS respondents were asked CESD questions as yes and no.

Unlike the HRS, the CHARLS does not include a question asking respondents whether they felt sad or enjoyed life. Four additional variables which are not included in the HRS are included in the CHARLS that asked about being bothered by little thing, having trouble keeping 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. RwCESD10 is based on the 10 CHARLS CESD questions which, unlike the RAND HRS measure RwCESD doesn't include a question about everything was feeling like an effort and does include three additional questions: RwFEARL, RwKEMINDL, RwBOTHERL. 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
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 4:
    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
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<div style="border:1px solid">

Doctor diagnosed health problems: Ever Had Condition

</div>

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
4	S4LUNGF	s4lungf:w4 s flag dispute chg lung disease	Categ

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1   R1HEARTE       r1hearte:w1 r ever had heart problem                        Categ
2   R2HEARTE       r2hearte:w2 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
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
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
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
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
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
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
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
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
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
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
4   S4PSYCHF       s4psychf:w4 s flag dispute chg psych problem                Categ

1   R1ARTHRE       r1arthre:w1 r ever had arthritis                            Categ
2   R2ARTHRE       r2arthre:w2 r ever had arthritis                            Categ
4   R4ARTHRE       r4arthre:w4 r ever had arthritis                            Categ

1   S1ARTHRE       s1arthre:w1 s ever had arthritis                            Categ
2   S2ARTHRE       s2arthre:w2 s ever had arthritis                            Categ
4   S4ARTHRE       s4arthre:w4 s ever had arthritis                            Categ

1   R1ARTHRF       r1arthrf:w1 r flag dispute chg arthritis                    Categ
2   R2ARTHRF       r2arthrf:w2 r flag dispute chg arthritis                    Categ
4   R4ARTHRF       r4arthrf:w4 r flag dispute chg arthritis                    Categ

1   S1ARTHRF       s1arthrf:w1 s flag dispute chg arthritis                    Categ
2   S2ARTHRF       s2arthrf:w2 s flag dispute chg arthritis                    Categ
4   S4ARTHRF       s4arthrf:w4 s flag dispute chg arthritis                    Categ

1   R1DYSLIPE      r1dyslipe:w1 r ever had dyslipidemia                        Categ
2   R2DYSLIPE      r2dyslipe:w2 r ever had dyslipidemia                        Categ
4   R4DYSLIPE      r4dyslipe:w4 r ever had dyslipidemia                        Categ
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 1   S1DYSLIPE      s1dyslipe:w1 s ever had dyslipidemia                       Categ
 2   S2DYSLIPE      s2dyslipe:w2 s ever had dyslipidemia                       Categ
 4   S4DYSLIPE      s4dyslipe:w4 s ever had dyslipidemia                       Categ

 1   R1DYSLIPF      r1dyslipf:w1 r flag dispute chg dyslipidemia               Categ
 2   R2DYSLIPF      r2dyslipf:w2 r flag dispute chg dyslipidemia               Categ
 4   R4DYSLIPF      r4dyslipf:w4 r flag dispute chg dyslipidemia               Categ

 1   S1DYSLIPF      s1dyslipf:w1 s flag dispute chg dyslipidemia               Categ
 2   S2DYSLIPF      s2dyslipf:w2 s flag dispute chg dyslipidemia               Categ
 4   S4DYSLIPF      s4dyslipf:w4 s flag dispute chg dyslipidemia               Categ

 1   R1LIVERE       r1livere:w1 r ever had liver disease                       Categ
 2   R2LIVERE       r2livere:w2 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
 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
 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
 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
 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
 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
 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
 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
 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
 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
 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
 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
 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
 4   S4ASTHMAE      s4asthmae:w4 s ever had asthma                             Categ

 1   R1ASTHMAF      r1asthmaf:w1 r flag dispute chg asthma                     Categ
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   2   R2ASTHMAF      r2asthmaf:w2 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
   4   S4ASTHMAF      s4asthmaf:w4 s flag dispute chg asthma                                      Categ
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Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIBPE	17470	0.27	0.44	0.00	1.00
R2HIBPE	17680	0.29	0.45	0.00	1.00
R4HIBPE	17237	0.36	0.48	0.00	1.00
S1HIBPE	14772	0.25	0.44	0.00	1.00
S2HIBPE	14873	0.28	0.45	0.00	1.00
S4HIBPE	14386	0.35	0.48	0.00	1.00
R1HIBPF	17470	0.47	1.54	0.00	6.00
R2HIBPF	17678	0.34	1.22	0.00	6.00
R4HIBPF	17220	0.13	0.57	0.00	4.00
S1HIBPF	14772	0.46	1.53	0.00	6.00
S2HIBPF	14871	0.34	1.21	0.00	6.00
S4HIBPF	14374	0.12	0.56	0.00	4.00
R1DIABE	17408	0.06	0.24	0.00	1.00
R2DIABE	17534	0.08	0.27	0.00	1.00
R4DIABE	16944	0.11	0.31	0.00	1.00
S1DIABE	14723	0.06	0.24	0.00	1.00
S2DIABE	14752	0.08	0.27	0.00	1.00
S4DIABE	14157	0.11	0.31	0.00	1.00
R1DIABF	17408	0.18	0.99	0.00	6.00
R2DIABF	17533	0.14	0.79	0.00	6.00
R4DIABF	16939	0.05	0.35	0.00	4.00
S1DIABF	14723	0.18	0.99	0.00	6.00
S2DIABF	14751	0.13	0.78	0.00	6.00
S4DIABF	14153	0.05	0.34	0.00	4.00
R1CANCRE	17486	0.01	0.10	0.00	1.00
R2CANCRE	17637	0.01	0.11	0.00	1.00
R4CANCRE	17018	0.02	0.14	0.00	1.00
S1CANCRE	14789	0.01	0.11	0.00	1.00
S2CANCRE	14843	0.01	0.12	0.00	1.00
S4CANCRE	14211	0.02	0.14	0.00	1.00
R1CANCRF	17486	0.06	0.57	0.00	6.00
R2CANCRF	17637	0.04	0.45	0.00	6.00
R4CANCRF	17017	0.02	0.23	0.00	4.00
S1CANCRF	14789	0.06	0.58	0.00	6.00
S2CANCRF	14843	0.05	0.46	0.00	6.00
S4CANCRF	14210	0.02	0.24	0.00	4.00
R1LUNGE	17496	0.10	0.31	0.00	1.00
R2LUNGE	17660	0.12	0.32	0.00	1.00
R4LUNGE	17076	0.16	0.37	0.00	1.00
S1LUNGE	14799	0.10	0.30	0.00	1.00
S2LUNGE	14854	0.11	0.31	0.00	1.00
S4LUNGE	14248	0.15	0.36	0.00	1.00
R1LUNGF	17496	0.40	1.43	0.00	6.00
R2LUNGF	17659	0.28	1.08	0.00	6.00

R4LUNGF	17070	0.12	0.56	0.00	4.00
S1LUNGF	14799	0.39	1.42	0.00	6.00
S2LUNGF	14854	0.27	1.06	0.00	6.00
S4LUNGF	14243	0.12	0.54	0.00	4.00
R1HEARTE	17467	0.13	0.33	0.00	1.00
R2HEARTE	17655	0.14	0.35	0.00	1.00
R4HEARTE	17047	0.20	0.40	0.00	1.00
S1HEARTE	14772	0.12	0.33	0.00	1.00
S2HEARTE	14852	0.14	0.35	0.00	1.00
S4HEARTE	14239	0.19	0.39	0.00	1.00
R1HEARTF	17467	0.38	1.40	0.00	6.00
R2HEARTF	17655	0.27	1.06	0.00	6.00
R4HEARTF	17043	0.10	0.50	0.00	4.00
S1HEARTF	14772	0.36	1.38	0.00	6.00
S2HEARTF	14852	0.25	1.03	0.00	6.00
S4HEARTF	14235	0.10	0.49	0.00	4.00
R1STROKE	17526	0.03	0.17	0.00	1.00
R2STROKE	17704	0.03	0.18	0.00	1.00
R4STROKE	17083	0.04	0.20	0.00	1.00
S1STROKE	14818	0.03	0.16	0.00	1.00
S2STROKE	14894	0.03	0.17	0.00	1.00
S4STROKE	14258	0.04	0.20	0.00	1.00
R1STROKF	17526	0.12	0.79	0.00	6.00
R2STROKF	17704	0.08	0.59	0.00	6.00
R4STROKF	17082	0.03	0.29	0.00	4.00
S1STROKF	14818	0.11	0.78	0.00	6.00
S2STROKF	14894	0.08	0.58	0.00	6.00
S4STROKF	14257	0.03	0.28	0.00	4.00
R1PSYCHE	17490	0.02	0.12	0.00	1.00
R2PSYCHE	17663	0.02	0.13	0.00	1.00
R4PSYCHE	17043	0.03	0.16	0.00	1.00
S1PSYCHE	14789	0.01	0.12	0.00	1.00
S2PSYCHE	14865	0.02	0.12	0.00	1.00
S4PSYCHE	14231	0.03	0.16	0.00	1.00
R1PSYCHF	17490	0.08	0.66	0.00	6.00
R2PSYCHF	17663	0.05	0.49	0.00	6.00
R4PSYCHF	17043	0.03	0.26	0.00	4.00
S1PSYCHF	14789	0.08	0.65	0.00	6.00
S2PSYCHF	14865	0.05	0.48	0.00	6.00
S4PSYCHF	14231	0.03	0.25	0.00	4.00
R1ARTHRE	17524	0.34	0.47	0.00	1.00
R2ARTHRE	17753	0.36	0.48	0.00	1.00
R4ARTHRE	17200	0.46	0.50	0.00	1.00
S1ARTHRE	14815	0.34	0.47	0.00	1.00
S2ARTHRE	14927	0.35	0.48	0.00	1.00
S4ARTHRE	14359	0.45	0.50	0.00	1.00
R1ARTHRF	17524	1.02	2.15	0.00	6.00
R2ARTHRF	17748	0.69	1.60	0.00	6.00
R4ARTHRF	17185	0.29	0.83	0.00	4.00
S1ARTHRF	14815	1.02	2.15	0.00	6.00
S2ARTHRF	14922	0.68	1.59	0.00	6.00
S4ARTHRF	14347	0.29	0.82	0.00	4.00

R1DYSLIPE	17213	0.10	0.30	0.00	1.00
R2DYSLIPE	17162	0.13	0.34	0.00	1.00
R4DYSLIPE	16700	0.19	0.40	0.00	1.00
S1DYSLIPE	14567	0.10	0.30	0.00	1.00
S2DYSLIPE	14470	0.14	0.34	0.00	1.00
S4DYSLIPE	13996	0.20	0.40	0.00	1.00
R1DYSLIPF	17213	0.22	1.08	0.00	6.00
R2DYSLIPF	17160	0.12	0.64	0.00	6.00
R4DYSLIPF	16691	0.10	0.49	0.00	4.00
S1DYSLIPF	14567	0.23	1.09	0.00	6.00
S2DYSLIPF	14468	0.13	0.65	0.00	6.00
S4DYSLIPF	13987	0.09	0.48	0.00	4.00
R1LIVERE	17438	0.04	0.19	0.00	1.00
R2LIVERE	17580	0.05	0.21	0.00	1.00
R4LIVERE	17010	0.07	0.26	0.00	1.00
S1LIVERE	14748	0.04	0.19	0.00	1.00
S2LIVERE	14795	0.05	0.21	0.00	1.00
S4LIVERE	14211	0.07	0.26	0.00	1.00
R1LIVERF	17438	0.20	1.05	0.00	6.00
R2LIVERF	17580	0.14	0.78	0.00	6.00
R4LIVERF	17007	0.07	0.42	0.00	4.00
S1LIVERF	14748	0.21	1.06	0.00	6.00
S2LIVERF	14795	0.14	0.79	0.00	6.00
S4LIVERF	14209	0.07	0.41	0.00	4.00
R1KIDNEYE	17452	0.06	0.24	0.00	1.00
R2KIDNEYE	17606	0.07	0.26	0.00	1.00
R4KIDNEYE	17024	0.11	0.32	0.00	1.00
S1KIDNEYE	14767	0.06	0.24	0.00	1.00
S2KIDNEYE	14827	0.07	0.26	0.00	1.00
S4KIDNEYE	14232	0.11	0.32	0.00	1.00
R1KIDNEYF	17452	0.29	1.25	0.00	6.00
R2KIDNEYF	17604	0.21	0.94	0.00	6.00
R4KIDNEYF	17014	0.09	0.48	0.00	4.00
S1KIDNEYF	14767	0.30	1.27	0.00	6.00
S2KIDNEYF	14825	0.21	0.95	0.00	6.00
S4KIDNEYF	14223	0.09	0.48	0.00	4.00
R1DIGESTE	17517	0.23	0.42	0.00	1.00
R2DIGESTE	17734	0.25	0.43	0.00	1.00
R4DIGESTE	17191	0.34	0.47	0.00	1.00
S1DIGESTE	14811	0.23	0.42	0.00	1.00
S2DIGESTE	14922	0.25	0.43	0.00	1.00
S4DIGESTE	14351	0.34	0.47	0.00	1.00
R1DIGESTF	17517	0.72	1.87	0.00	6.00
R2DIGESTF	17732	0.51	1.43	0.00	6.00
R4DIGESTF	17172	0.22	0.73	0.00	4.00
S1DIGESTF	14811	0.72	1.87	0.00	6.00
S2DIGESTF	14920	0.50	1.42	0.00	6.00
S4DIGESTF	14337	0.22	0.73	0.00	4.00
R1ASTHMAE	17497	0.05	0.21	0.00	1.00
R2ASTHMAE	17684	0.05	0.22	0.00	1.00
R4ASTHMAE	17053	0.06	0.25	0.00	1.00

S1ASTHMAE	14795	0.04	0.20	0.00	1.00
S2ASTHMAE	14879	0.05	0.21	0.00	1.00
S4ASTHMAE	14246	0.06	0.24	0.00	1.00
R1ASTHMAF	17497	0.18	0.98	0.00	6.00
R2ASTHMAF	17684	0.13	0.72	0.00	6.00
R4ASTHMAF	17052	0.05	0.36	0.00	4.00
S1ASTHMAF	14795	0.17	0.95	0.00	6.00
S2ASTHMAF	14879	0.12	0.70	0.00	6.00
S4ASTHMAF	14245	0.05	0.35	0.00	4.00

Categorical Variable Codes

Value--------------------------------	R1HIBPE	R2HIBPE	R4HIBPE
.d:dk	109		
.m:missing	126	932	1223
.r:refuse	3		
.x:joined panel in w3			2637
0.no	12832	12559	11002
1.yes	4638	5121	6235

Value--------------------------------	S1HIBPE	S2HIBPE	S4HIBPE
.d:dk	87		
.m:missing	49	707	985
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2353
0.no	11010	10727	9374
1.yes	3762	4146	5012

Value--------------------------------	R1HIBPF	R2HIBPF	R4HIBPF
0.No dispute	15989	16164	16364
2.Disp last iw N -> Y		432	497
3.Disp last iw Y -> N, still no		304	260
4.Disp last iw Y -> N, now yes		23	99
5.Disp aft, N -> Y	751	311	
6.Disp aft, Y -> N	730	444	

Value--------------------------------	S1HIBPF	S2HIBPF	S4HIBPF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	655
0.No dispute	13540	13631	13695
2.Disp last iw N -> Y		352	388
3.Disp last iw Y -> N, still no		255	217
4.Disp last iw Y -> N, now yes		20	74
5.Disp aft, N -> Y	610	245	
6.Disp aft, Y -> N	622	368	

Value--------------------------------	R1DIABE	R2DIABE	R4DIABE
.d:dk	148		
.m:missing	150	1078	1354
.r:refuse	2		
.x:joined panel in w3			2799
0.no	16299	16159	15068
1.yes	1109	1375	1876

Value--------------------------------	S1DIABE	S2DIABE	S4DIABE
.d:dk	117		
.m:missing	68	828	1076
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2491
0.no	13786	13596	12605
1.yes	937	1156	1552

Value------------------------------	R1DIABF	R2DIABF	R4DIABF
0.No dispute	16833	16942	16589
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	297	170	

Value------------------------------	S1DIABF	S2DIABF	S4DIABF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	14239	14270	13874
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	254	142	

Value------------------------------	R1CANCRE	R2CANCRE	R4CANCRE
.d:dk	72		
.m:missing	147	975	1227
.r:refuse	3		
.x:joined panel in w3			2852
0.no	17297	17405	16664
1.yes	189	232	354

Value------------------------------	S1CANCRE	S2CANCRE	S4CANCRE
.d:dk	55		
.m:missing	64	737	972
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2541
0.no	14622	14638	13906
1.yes	167	205	305

Value------------------------------	R1CANCRF	R2CANCRF	R4CANCRF
0.No dispute	17303	17444	16872
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	106	51	

Value------------------------------	S1CANCRF	S2CANCRF	S4CANCRF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	14629	14674	14080
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	95	44	

Value------------------------------	R1LUNGE	R2LUNGE	R4LUNGE
.d:dk	66		
.m:missing	142	952	1199
.r:refuse	4		
.x:joined panel in w3			2822
0.no	15663	15602	14337
1.yes	1833	2058	2739

Value------------------------------	S1LUNGE	S2LUNGE	S4LUNGE
.d:dk	47		
.m:missing	62	726	961
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2515

| 0.no | 13315 | 13208 | 12063 |
| 1.yes | 1484 | 1646 | 2185 |

Value--------------------------------	R1LUNGF	R2LUNGF	R4LUNGF
0.No dispute	16240	16358	16228
2.Disp last iw N -> Y		392	425
3.Disp last iw Y -> N, still no		343	390
4.Disp last iw Y -> N, now yes		13	27
5.Disp aft, N -> Y	608	250	
6.Disp aft, Y -> N	648	303	

Value--------------------------------	S1LUNGF	S2LUNGF	S4LUNGF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	13759	13795	13585
2.Disp last iw N -> Y		315	329
3.Disp last iw Y -> N, still no		285	309
4.Disp last iw Y -> N, now yes		10	20
5.Disp aft, N -> Y	500	205	
6.Disp aft, Y -> N	540	244	

Value--------------------------------	R1HEARTE	R2HEARTE	R4HEARTE
.d:dk	92		
.m:missing	145	957	1268
.r:refuse	4		
.x:joined panel in w3			2782
0.no	15248	15114	13708
1.yes	2219	2541	3339

Value--------------------------------	S1HEARTE	S2HEARTE	S4HEARTE
.d:dk	69		
.m:missing	66	728	1004
.r:refuse	3		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2481
0.no	12959	12793	11568
1.yes	1813	2059	2671

Value--------------------------------	R1HEARTF	R2HEARTF	R4HEARTF
0.No dispute	16269	16434	16321
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	621	283	

Value--------------------------------	S1HEARTF	S2HEARTF	S4HEARTF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	13795	13883	13662
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	497	215	

Value--------------------------------	R1STROKE	R2STROKE	R4STROKE
.d:dk	37		
.m:missing	142	908	1166
.r:refuse	3		
.x:joined panel in w3			2848
0.no	17021	17127	16340
1.yes	505	577	743

Value--------------------------------	S1STROKE	S2STROKE	S4STROKE
.d:dk	25		
.m:missing	65	686	928
.r:refuse	2		

.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2538
0.no	14426	14444	13687
1.yes	392	450	571

Value---------------------------------	R1STROKF	R2STROKF	R4STROKF
0.No dispute	17149	17314	16836
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	168	77	

Value---------------------------------	S1STROKF	S2STROKF	S4STROKF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	14514	14583	14068
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	140	62	

Value---------------------------------	R1PSYCHE	R2PSYCHE	R4PSYCHE
.d:dk	45		
.m:missing	169	949	1198
.r:refuse	4		
.x:joined panel in w3			2856
0.no	17213	17363	16584
1.yes	277	300	459

Value---------------------------------	S1PSYCHE	S2PSYCHE	S4PSYCHE
.d:dk	32		
.m:missing	86	715	947
.r:refuse	3		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2546
0.no	14570	14631	13868
1.yes	219	234	363

Value---------------------------------	R1PSYCHF	R2PSYCHF	R4PSYCHF
0.No dispute	17239	17415	16843
2.Disp last iw N -> Y		50	132
3.Disp last iw Y -> N, still no		85	66
4.Disp last iw Y -> N, now yes			2
5.Disp aft, N -> Y	126	72	
6.Disp aft, Y -> N	125	41	

Value---------------------------------	S1PSYCHF	S2PSYCHF	S4PSYCHF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	14578	14660	14072
2.Disp last iw N -> Y		41	106
3.Disp last iw Y -> N, still no		69	51
4.Disp last iw Y -> N, now yes			2
5.Disp aft, N -> Y	106	61	
6.Disp aft, Y -> N	105	34	

Value---------------------------------	R1ARTHRE	R2ARTHRE	R4ARTHRE
.d:dk	43		
.m:missing	138	859	1182
.r:refuse	3		
.x:joined panel in w3			2715
0.no	11539	11383	9225
1.yes	5985	6370	7975

Value---------------------------------	S1ARTHRE	S2ARTHRE	S4ARTHRE

.d:dk	34		
.m:missing	59	653	946
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2419
0.no	9810	9701	7855
1.yes	5005	5226	6504

Value	R1ARTHRF	R2ARTHRF	R4ARTHRF
0.No dispute	14271	14419	15194
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	1643	780	

Value	S1ARTHRF	S2ARTHRF	S4ARTHRF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	655
0.No dispute	12072	12169	12723
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	1382	650	

Value	R1DYSLIPE	R2DYSLIPE	R4DYSLIPE
.d:dk	338		
.m:missing	152	1450	1666
.r:refuse	5		
.x:joined panel in w3			2731
0.no	15512	14855	13454
1.yes	1701	2307	3246

Value	S1DYSLIPE	S2DYSLIPE	S4DYSLIPE
.d:dk	266		
.m:missing	73	1110	1296
.r:refuse	4		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2432
0.no	13104	12513	11253
1.yes	1463	1957	2743

Value	R1DYSLIPF	R2DYSLIPF	R4DYSLIPF
0.No dispute	16508	16447	16022
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	304	24	

Value	S1DYSLIPF	S2DYSLIPF	S4DYSLIPF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	13952	13864	13439
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	254	19	

Value	R1LIVERE	R2LIVERE	R4LIVERE
.d:dk	123		
.m:missing	144	1032	1276
.r:refuse	3		
.x:joined panel in w3			2811
0.no	16788	16762	15750

1.yes	650	818	1260

Value-------------------------------|	S1LIVERE	S2LIVERE	S4LIVERE
.d:dk	98		
.m:missing	62	785	1007
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2506
0.no	14194	14103	13148
1.yes	554	692	1063

Value-------------------------------|	R1LIVERF	R2LIVERF	R4LIVERF
0.No dispute	16800	16928	16532
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	379	152	

Value-------------------------------|	S1LIVERF	S2LIVERF	S4LIVERF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	14200	14234	13817
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	326	138	

Value-------------------------------|	R1KIDNEYE	R2KIDNEYE	R4KIDNEYE
.d:dk	103		
.m:missing	150	1006	1259
.r:refuse	3		
.x:joined panel in w3			2814
0.no	16396	16359	15114
1.yes	1056	1247	1910

Value-------------------------------|	S1KIDNEYE	S2KIDNEYE	S4KIDNEYE
.d:dk	73		
.m:missing	68	753	983
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2509
0.no	13873	13782	12630
1.yes	894	1045	1602

Value-------------------------------|	R1KIDNEYF	R2KIDNEYF	R4KIDNEYF
0.No dispute	16544	16655	16385
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	551	246	

Value-------------------------------|	S1KIDNEYF	S2KIDNEYF	S4KIDNEYF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	13976	14024	13694
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	491	211	

Value-------------------------------|	R1DIGESTE	R2DIGESTE	R4DIGESTE
.d:dk	48		
.m:missing	140	878	1180

.r:refuse	3		
.x:joined panel in w3			2726
0.no	13575	13289	11401
1.yes	3942	4445	5790

Value----------------------------------	S1DIGESTE	S2DIGESTE	S4DIGESTE
.d:dk	35		
.m:missing	62	658	944
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2429
0.no	11436	11199	9504
1.yes	3375	3723	4847

Value----------------------------------	R1DIGESTF	R2DIGESTF	R4DIGESTF
0.No dispute	15237	15345	15702
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	1208	635	

Value----------------------------------	S1DIGESTF	S2DIGESTF	S4DIGESTF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	655
0.No dispute	12880	12939	13127
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	1029	538	

Value----------------------------------	R1ASTHMAE	R2ASTHMAE	R4ASTHMAE
.d:dk	28		
.m:missing	180	928	1193
.r:refuse	3		
.x:joined panel in w3			2851
0.no	16671	16822	15945
1.yes	826	862	1108

Value----------------------------------	S1ASTHMAE	S2ASTHMAE	S4ASTHMAE
.d:dk	18		
.m:missing	95	701	937
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x:joined panel in w3			2541
0.no	14152	14209	13381
1.yes	643	670	865

Value----------------------------------	R1ASTHMAF	R2ASTHMAF	R4ASTHMAF
0.No dispute	16899	17069	16658
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	220	81	

Value----------------------------------	S1ASTHMAF	S2ASTHMAF	S4ASTHMAF
.u:unmar	2260	2401	2719
.v:sp nr	538	625	656
0.No dispute	14317	14401	13942
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	174	64	

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. The exact wording of the question depends on whether this is a first interview or whether the condition was reported at a prior interview.

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 in wave 4 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 4 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.

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

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.

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 RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE, respectively. In addition to the special missing codes used in RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, and RwARTHRE, 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 in Wave 1, but then disputed the Wave 1 report in Wave 2, then R1HIBPE is changed to 0.No.

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, RwARTHRF, 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

Starting in Wave 2, 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.

There are a number of interviews starting in 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 in wave 4 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 4 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

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:

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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
    XRTYPE           r interview type
    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
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    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_       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
    XRTYPE          R Interview Type
    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
```

Doctor diagnosed health problems: Memory-related disease

```
Wave Variable      Label                                                    Type

  1  R1MEMRYE       r1memrye:w1 r ever had memory problem                    Categ
  2  R2MEMRYE       r2memrye:w2 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
  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
  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
  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      0.03        0.16        0.00        1.00
R4MEMRYE       20770      0.03        0.17        0.00        1.00

S1MEMRYE       14805      0.02        0.14        0.00        1.00
S2MEMRYE       14875      0.02        0.15        0.00        1.00
S4MEMRYE       17549      0.03        0.16        0.00        1.00

R1MEMRYF       17507      0.10        0.73        0.00        6.00
R2MEMRYF       17671      0.07        0.55        0.00        6.00
R4MEMRYF       20764      0.03        0.25        0.00        4.00

S1MEMRYF       14805      0.10        0.72        0.00        6.00
S2MEMRYF       14874      0.07        0.54        0.00        6.00
S4MEMRYF       17544      0.02        0.24        0.00        4.00
```

Categorical Variable Codes

```
Value-------------------------------|   R1MEMRYE    R2MEMRYE            R4MEMRYE
.d:dk                               |         46
.m:missing                          |        152         940                 273
.r:refuse                           |          3
.x:joined panel in w3               |                                          54
0.no                                |      17138       17221               20154
1.yes                               |        369         451                 616

Value-------------------------------|   S1MEMRYE    S2MEMRYE            S4MEMRYE
.d:dk                               |         32
.m:missing                          |         71         705                 142
.r:refuse                           |          2
.u:unmar                            |       2260        2401                2719
.v:sp nr                            |        538         623                 650
.x:joined panel in w3               |                                          33
0.no                                |      14523       14536               17083
1.yes                               |        282         339                 466

Value-------------------------------|   R1MEMRYF    R2MEMRYF            R4MEMRYF
0.No dispute                        |      17182       17337               20534
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 | | 136 | 57 | |

Value-------------------------------		S1MEMRYF	S2MEMRYF	S4MEMRYF
.u:unmar		2260	2401	2719
.v:sp nr		538	625	650
0.No dispute		14544	14612	17368
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		108	47	

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. 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.

Cross Wave Differences in CHARLS

Starting in Wave 2, re-interview respondents were asked to confirm whether have had or had not had a memory-related condition based on their previous report. If the respondent disputes the previous report, re-interview respondent are then asked whether they have been diagnosed with a memory related condition since the last interview. Currently disputes of previous reports are not incorporated into RwMEMRYE but previous reports of a memory related condition are not carried forward to a wave in which the previous report is disputed.

Differences with the RAND 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
    XRTYPE           r interview type
    ZDA007_12_       chronic disease
Wave 4:
    DA007_12_        Have Been Diagnosed of Disease
    DA007_W2_1_12_   Verify Disease Record
    DA007_W2_2_12_   Doctor Told Disease
    XRTYPE           R Interview Type
    ZDA007_12_       Chronic Disease
```

BMI

```
Wave Variable      Label                                                        Type

  1  R1BMI         r1bmi:w1 r body mass index=kg/m2                             Cont
  2  R2BMI         r2bmi:w2 r body mass index=kg/m2                             Cont
  4  R4BMI         r4bmi:w4 r body mass index=kg/m2                             Cont

  1  S1BMI         s1bmi:w1 s body mass index=kg/m2                             Cont
  2  S2BMI         s2bmi:w2 s body mass index=kg/m2                             Cont
  4  S4BMI         s4bmi:w4 s body mass index=kg/m2                             Cont

  1  R1HEIGHT      r1height:w1 r height in meters                               Cont
  2  R2HEIGHT      r2height:w2 r height in meters                               Cont
  4  R4HEIGHT      r4height:w4 r height in meters                               Cont

  1  S1HEIGHT      s1height:w1 s height in meters                               Cont
  2  S2HEIGHT      s2height:w2 s height in meters                               Cont
  4  S4HEIGHT      s4height:w4 s height in meters                               Cont

  1  R1WEIGHT      r1weight:w1 r weight in kilograms                            Cont
  2  R2WEIGHT      r2weight:w2 r weight in kilograms                            Cont
  4  R4WEIGHT      r4weight:w4 r weight in kilograms                            Cont

  1  S1WEIGHT      s1weight:w1 s weight in kilograms                            Cont
  2  S2WEIGHT      s2weight:w2 s weight in kilograms                            Cont
  4  S4WEIGHT      s4weight:w4 s weight in kilograms                            Cont
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev    Minimum     Maximum

R1BMI          13617        23.47        3.94        9.52       63.05
R2BMI          12964        23.86        3.83       11.05       58.31
R4BMI          16178        23.90        3.92       12.73       71.43

S1BMI          11602        23.60        3.90        9.52       63.05
S2BMI          10988        23.97        3.81       12.29       58.31
S4BMI          13805        24.00        3.91       12.73       71.43

R1HEIGHT       13684         1.58        0.09        1.08        1.87
R2HEIGHT       13008         1.58        0.09        1.01        1.88
R4HEIGHT       16199         1.58        0.09        1.00        1.96

S1HEIGHT       11647         1.59        0.08        1.08        1.87
S2HEIGHT       11026         1.59        0.09        1.01        1.88
S4HEIGHT       13820         1.59        0.08        1.00        1.96

R1WEIGHT       13725        58.80       11.83       21.10      162.00
R2WEIGHT       13009        59.70       11.68       23.40      172.30
R4WEIGHT       16247        59.97       11.91       25.80      171.20

S1WEIGHT       11687        59.50       11.68       21.10      162.00
S2WEIGHT       11023        60.44       11.61       28.00      172.30
S4WEIGHT       13858        60.66       11.85       25.80      171.20
```

How Constructed:

RwHEIGHT, RwWEIGHT, and RwBMI are the respondent's measured height, measured weight, and calculated body mass index, respectively.

Height is given in meters, weight in kilograms, and BMI is weight divided by the square of height. If the height value is between 1 and 2, height is assumed to be given in meters. If the height value is between 100 and 200, height is assumed to be given in centimeters. RwHEIGHT is set to special missing value (.i) if the height value is greater than 2 but less than 100 as it is considered an invalid measurement. RwWEIGHT is set to special missing value (.i) if the weight value is 20 or less as it is considered an invalid measurement. Don't know, missing, or refused

values of RwHEIGHT, RwWEIGHT, and RwBMI are assigned special missing codes (.d), (.m), (.r),
respectively. RwHEIGHT, RwWEIGHT, and RwBMI are set to plain missing (.) for respondents who did
not respond to this wave.

SwHEIGHT, SwWEIGHT, and SwBMI are taken directly from the spouse's measures in RwHEIGHT, RwWEIGHT,
and RwBMI. 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

No differences known.

Differences with the RAND HRS

Unlike the CHARLS, the HRS respondents are asked to self-report their height and weight. In the
CHARLS height and weight are measured by the interviewer.

CHARLS Variables Used:

```
Wave 1:
    QI002          height
    QL002          Weight  Measuremen
Wave 2:
    QI002          height
    QL002          Weight  Measuremen
Wave 4:
    QI002          height
    QL002          Weight  Measuremen
```

Health behaviors: Physical Activity or Exercise

```
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
  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
  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
  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
  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
  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
  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
  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
  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
  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
  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
  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
  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
R4VGACT_C       9845        0.35         0.48         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
S4VGACT_C       8424        0.37         0.48         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
R4VGACTX_C      9787        1.89         2.84         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
S4VGACTX_C	8377	1.97	2.87	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
R4MDACT_C	9835	0.56	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
S4MDACT_C	8417	0.57	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
R4MDACTX_C	9767	3.14	3.19	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
S4MDACTX_C	8361	3.20	3.18	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
R4LTACT_C	9840	0.79	0.41	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
S4LTACT_C	8423	0.79	0.41	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
R4LTACTX_C	9772	5.09	2.91	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
S4LTACTX_C	8370	5.09	2.90	0.00	7.00

Categorical Variable Codes

Value	R1VGACT_C	R2VGACT_C	R4VGACT_C
.d:dk	1		
.m:missing	10788	12524	11252
.r:refuse	1		
0.no	4557	3966	6377
1.yes	2361	2122	3468

Value	S1VGACT_C	S2VGACT_C	S4VGACT_C
.m:missing	9041	10453	9300
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	3740	3272	5323
1.yes	2128	1855	3101

Value	R1MDACT_C	R2MDACT_C	R4MDACT_C
.d:dk	2		
.m:missing	10791	12533	11262
.r:refuse	1		
0.no	3030	2752	4334
1.yes	3884	3327	5501

Value	S1MDACT_C	S2MDACT_C	S4MDACT_C
.m:missing	9044	10462	9307
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	2430	2251	3619
1.yes	3435	2867	4798

Value-------------------------------|	R1LTACT_C	R2LTACT_C	R4LTACT_C
.d:dk		9		
.m:missing		10799	12537	11257
.r:refuse		1		
0.no		1404	1233	2048
1.yes		5495	4842	7792

Value-------------------------------|	S1LTACT_C	S2LTACT_C	S4LTACT_C
.d:dk		8		
.m:missing		9048	10461	9301
.r:refuse		1		
.u:unmar		2260	2401	2719
.v:sp nr		538	623	650
0.no		1182	1028	1742
1.yes		4671	4091	6681

How Constructed:

RwVGACT_C, RwMDACT_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. These questions were asked to a random subsample of half the sample. Don't know, missing, or refused values of RwVGACT_C, RwMDACT_C, and RwLTACT_C are assigned special missing codes (.d), (.m), (.r), respectively. RwVGACT_C, RwMDACT_C, and RwLTACT_C are set to plain missing (.) for respondents who did not respond to this wave.

RwVGACTX_C, RwMDACTX_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, RwMDACTX_C, and RwLTACTX_C are set to 0, for 0 days a week. These questions were only asked to a random subsample of half the sample. Don't know, or refused values of these variables are assigned special missing codes (.d), (.r), respectively. RwVGACTX_C, RwMDACTX_C, and RwLTACTX_C are set to plain missing (.) for respondents who did not respond to this wave.

SwVGACT_C, SwMDACT_C, SwLTACT_C, SwVGACTX_C, SwMDACTX_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

No differences known.

Differences with the RAND 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 exercises, 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 Continuou
    DA051_2_        Y/N Do Moderate Physical Effort At Least 10 Minutes Cont
    DA051_3_        Y/N Walking At Least 10 Minutes Continuously
    DA052_1_        Days Do Vigorous Activities At Least 10 Minutes Continuo
    DA052_2_        Days Do Moderate Physical Effort At Least 10 Minutes Con
    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 4:
    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
```

Health behaviors: Drinking

```
Wave Variable      Label                                                    Type

  1  R1DRINK       r1drink:w1 r ever drinks any alcohol before              Categ
  2  R2DRINK       r2drink:w2 r ever drinks any alcohol before              Categ
  4  R4DRINK       r4drink:w4 r ever drinks any alcohol before              Categ

  1  S1DRINK       s1drink:w1 s ever drinks any alcohol before              Categ
  2  S2DRINK       s2drink:w2 s ever drinks any alcohol before              Categ
  4  S4DRINK       s4drink: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
  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
  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
  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
  4  S4DRINKN_C    s4drinkn_c:w4 s frequency of drinking last year          Categ
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev    Minimum     Maximum

R1DRINK         17541       0.39       0.49        0.00        1.00
R2DRINK         18361       0.45       0.50        0.00        1.00
R4DRINK         20899       0.46       0.50        0.00        1.00

S1DRINK         14837       0.40       0.49        0.00        1.00
S2DRINK         15459       0.46       0.50        0.00        1.00
S4DRINK         17648       0.47       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
R4DRINKL        20913       0.35       0.48        0.00        1.00

S1DRINKL        14845       0.34       0.47        0.00        1.00
S2DRINKL        15465       0.36       0.48        0.00        1.00
S4DRINKL        17660       0.37       0.48        0.00        1.00

R1DRINKN_C      16362       0.96       2.15        0.00        8.00
R2DRINKN_C      18329       1.29       2.42        0.00        8.00
R4DRINKN_C      20848       1.24       2.32        0.00        8.00

S1DRINKN_C      13789       1.00       2.18        0.00        8.00
S2DRINKN_C      15427       1.36       2.45        0.00        8.00
S4DRINKN_C      17612       1.29       2.35        0.00        8.00
```

Categorical Variable Codes

```
Value-------------------------------|     R1DRINK     R2DRINK                  R4DRINK
.d:dk                               |        12
.m:missing                          |       155         251                      198
0.None                              |     10718       10106                    11223
1.Yes                               |      6823        8255                     9676

Value-------------------------------|     S1DRINK     S2DRINK                  S4DRINK
.d:dk                               |         9
```

.m:missing	64	121	76
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.None	8877	8336	9280
1.Yes	5960	7123	8368

Value	R1DRINKL	R2DRINKL	R4DRINKL
.d:dk	10		
.m:missing	145	241	184
.r:refuse	1		
0.None	11785	12050	13507
1.Yes	5767	6321	7406

Value	S1DRINKL	S2DRINKL	S4DRINKL
.d:dk	8		
.m:missing	56	115	64
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.None	9767	9936	11143
1.Yes	5078	5529	6517

Value	R1DRINKN_C	R2DRINKN_C	R4DRINKN_C
.d:dk	28		
.m:missing	1316	283	249
.r:refuse	2		
0.None or doesn't drink	13186	13529	15314
1.Once a month	198	291	383
2.2 to 3 days a month	408	660	872
3.Once a week	267	399	571
4.2 to 3 days a week	408	550	743
5.4 to 6 days a week	158	222	278
6.Daily	954	1495	1565
7.Twice a day	589	850	815
8.More than twice a day	194	333	307

Value	S1DRINKN_C	S2DRINKN_C	S4DRINKN_C
.d:dk	25		
.m:missing	1094	153	112
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.None or doesn't drink	10991	11181	12699
1.Once a month	167	254	339
2.2 to 3 days a month	362	590	781
3.Once a week	240	359	504
4.2 to 3 days a week	364	488	670
5.4 to 6 days a week	138	207	250
6.Daily	837	1314	1383
7.Twice a day	525	747	723
8.More than twice a day	165	287	263

How Constructed:

RwDRINK 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 RwDRINK and RwDRINKL are assigned special missing values (.d), (.r), respectively. RwDRINK 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 or doesn't drink, 1.Once a month, 2.2 to 3 days a month, 3.Once a week, 4.2 to 3 days a week, 5.4 to 6 days a week, 6.Daily, 7.Twice a day and 8.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.

SwDRINK, SwDRINKL and SwDRINKN_C indicate whether the respondent's spouse has drank alcoholic beverages in the past and are taken directly from the spouse's values to RwDRINK, RwDRINKL and RwDRINKN_C. In addition to the special missing codes used in RwDRINK, RwDRINKL and RwDRINKN_C, SwDRINK, 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.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND 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.

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
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
Wave 4:
    DA067          Drink
    DA068S1        Drink
    DA068S2        Drink
    DA068S3        Drink
    DA069          Ever Drink Alcoholic Beverages
    DA072          Drink Liquor Frequency
    DA074          Beer
    DA076          Wine or Rice Wine
```

Health behaviors: Smoking (cigarettes)

Wave	Variable	Label	Type
1	R1SMOKEV	r1smokev:w1 r smoke ever	Categ
2	R2SMOKEV	r2smokev:w2 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
4	S4SMOKEV	s4smokev:w4 s smoke ever	Categ
1	R1SMOKEN	r1smoken:w1 r smoke now	Categ
2	R2SMOKEN	r2smoken:w2 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
4	S4SMOKEN	s4smoken:w4 s smoke now	Categ
1	R1SMOKEF	r1smokef:w1 r # cigarettes/day	Cont
2	R2SMOKEF	r2smokef:w2 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
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
R4SMOKEV	20932	0.43	0.50	0.00	1.00
S1SMOKEV	14850	0.40	0.49	0.00	1.00
S2SMOKEV	15489	0.43	0.50	0.00	1.00
S4SMOKEV	17670	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
R4SMOKEN	20920	0.28	0.45	0.00	1.00
S1SMOKEN	14266	0.30	0.46	0.00	1.00
S2SMOKEN	12464	0.21	0.40	0.00	1.00
S4SMOKEN	17662	0.29	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
R4SMOKEF	20755	4.79	9.76	0.00	100.00
S1SMOKEF	13249	4.44	9.61	0.00	80.00
S2SMOKEF	12051	3.01	7.88	0.00	80.00
S4SMOKEF	17534	5.01	9.98	0.00	100.00

Categorical Variable Codes

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

Value	S1SMOKEV	S2SMOKEV	S4SMOKEV

.d:dk	3		
.m:missing	56	91	54
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	8837	8757	9857
1.Yes	6013	6732	7813

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

Value---------------------------------	S1SMOKEN	S2SMOKEN	S4SMOKEN
.m:missing	644	3116	62
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.No	10045	9901	12580
1.Yes	4221	2563	5082

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 RwSMKOEN, 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. In Wave 1, 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. In 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 respondent reports 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

In Wave 1 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. Wave 2 CHARLS and forward does not ask what products respondents normally smoke and respondents who report they currently smoke are asked the number of cigarettes they smoke daily.

In 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 RwSMOKEN and RwSMOKEF. This is no longer an issue starting in Wave 4.

Differences with the RAND HRS

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.

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 4:
    DA059          Smoke
    DA061          Still Smoke or Quit
    DA063          The Number of Cigarettes You Consume
    XRTYPE         R Interview Type
    ZDA059         Smoke
```

Section C: Health Care Utilization and Insurance

Medical Care Utilization: Inpatient/Hospital Stay

Wave	Variable	Label	Type
1	R1HOSP1Y	r1hosp1y:w1 r hospital stay last year	Categ
2	R2HOSP1Y	r2hosp1y:w2 r hospital stay last year	Categ
4	R4HOSP1Y	r4hosp1y:w4 r hospital stay last year	Categ
1	S1HOSP1Y	s1hosp1y:w1 S hospital stay last year	Categ
2	S2HOSP1Y	s2hosp1y:w2 s hospital stay last year	Categ
4	S4HOSP1Y	s4hosp1y:w4 s hospital stay last year	Categ
1	R1HSPTIM1Y	r1hsptim1y:w1 r # hosp stays last year	Cont
2	R2HSPTIM1Y	r2hsptim1y:w2 r # hosp stays last year	Cont
4	R4HSPTIM1Y	r4hsptim1y:w4 r # hosp stays last year	Cont
1	S1HSPTIM1Y	s1hsptim1y:w1 S # hosp stays last year	Cont
2	S2HSPTIM1Y	s2hsptim1y:w2 s # hosp stays last year	Cont
4	S4HSPTIM1Y	s4hsptim1y: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
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
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
R4HOSP1Y	20879	0.14	0.35	0.00	1.00
S1HOSP1Y	14825	0.09	0.29	0.00	1.00
S2HOSP1Y	15484	0.13	0.34	0.00	1.00
S4HOSP1Y	17647	0.13	0.34	0.00	1.00
R1HSPTIM1Y	17506	0.13	0.57	0.00	20.00
R2HSPTIM1Y	18368	0.21	0.70	0.00	18.00
R4HSPTIM1Y	20867	0.21	0.65	0.00	16.00
S1HSPTIM1Y	14823	0.13	0.53	0.00	16.00
S2HSPTIM1Y	15470	0.20	0.69	0.00	18.00
S4HSPTIM1Y	17642	0.20	0.64	0.00	16.00
R1HSPNITE	17464	1.10	4.68	0.00	120.00
R2HSPNITE	18279	1.67	7.15	0.00	365.00
R4HSPNITE	20787	1.69	8.31	0.00	365.00
S1HSPNITE	14791	1.08	4.59	0.00	120.00
S2HSPNITE	15396	1.61	6.90	0.00	365.00
S4HSPNITE	17574	1.56	7.71	0.00	365.00

Categorical Variable Codes

Value	R1HOSP1Y	R2HOSP1Y	R4HOSP1Y
.d:dk	19		
.m:missing	177	227	218
.r:refuse	2		
0.no	15856	15869	17980
1.yes	1654	2516	2899

Value	S1HOSP1Y	S2HOSP1Y	S4HOSP1Y

.d:dk	18		
.m:missing	67	96	77
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	13438	13437	15325
1.yes	1387	2047	2322

How Constructed:

RwHOSP1Y 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. RwHSPTIM1Y 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 RwHOSP1Y and RwHSPTIM1Y are assigned to special missing codes (.d), (.r), (.m) respectively. RwHOSP1Y and RwHSPTIM1Y are 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.

SwHOSP1Y, SwHSPTIM1Y, and SwHSPNITE are the current wave respondent's spouse's information related to the hospital stay in the past year. SwHOSP1Y, SwHSPTIM1Y, 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

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 4:
    EE003         Have You Received Inpatient Care in the Past Year?
    EE004         How Many Times Have You Received Inpatient Care in the P
    EE016         Nights Spent in Hospital at Last Inpatient Visit
```

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
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
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
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
4	S4DOCTIM1M	s4doctim1m:w4 s # doctor visit/outpatient last month	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DOCTOR1M	17241	0.18	0.39	0.00	1.00
R2DOCTOR1M	18072	0.21	0.40	0.00	1.00
R4DOCTOR1M	20600	0.18	0.39	0.00	1.00
S1DOCTOR1M	14594	0.18	0.39	0.00	1.00
S2DOCTOR1M	15221	0.20	0.40	0.00	1.00
S4DOCTOR1M	17411	0.18	0.38	0.00	1.00
R1DOCTIM1M	17174	0.41	1.37	0.00	30.00
R2DOCTIM1M	18025	0.49	1.54	0.00	30.00
R4DOCTIM1M	20558	0.41	1.33	0.00	30.00
S1DOCTIM1M	14543	0.40	1.37	0.00	30.00
S2DOCTIM1M	15189	0.47	1.52	0.00	30.00
S4DOCTIM1M	17383	0.40	1.32	0.00	30.00

Categorical Variable Codes

Value	R1DOCTOR1M	R2DOCTOR1M	R4DOCTOR1M
.d:dk	83		
.m:missing	380	540	497
.r:refuse	4		
0.no	14055	14343	16803
1.yes	3186	3729	3797

Value	S1DOCTOR1M	S2DOCTOR1M	S4DOCTOR1M
.d:dk	75		
.m:missing	239	359	313
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	11923	12161	14265
1.yes	2671	3060	3146

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 facilities 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 facilities 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.

The type of medical facilities included, excluding Chinese medicine hospital, is:

      1. General hospital

      2. Specialized hospital

      3. Community healthcare center

      4. Township Hospital

      5. Health care post

      6. Village clinic/private clinic

      7. 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

No difference known.

Differences with the RAND 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
    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
    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
    ED005_2_       times visit / been visited by hospital corresponding to
    ED005_3_       times visit / been visited by hospital corresponding to
    ED005_4_       times visit / been visited by hospital corresponding to
    ED005_5_       times visit / been visited by hospital corresponding to
    ED005_6_       times visit / been visited by hospital corresponding to
    ED005_7_       times visit / been visited by hospital corresponding to
    EF006          how often did the respondent receive assistance
Wave 4:
    ED001          Did You Visit a Hospital in The Last Month?
    ED004S3        Visited Facility in Past 4 Weeks for Outpatient: Chinese
    ED005_1_       Times Visited Facility in Past 4 Weeks for Outpatient: G
```

```
ED005_2_        Times Visited Facility in Past 4 Weeks for Outpatient: S
ED005_3_        Times Visited Facility in Past 4 Weeks for Outpatient: C
ED005_4_        Times Visited Facility in Past 4 Weeks for Outpatient: C
ED005_5_        Times Visited Facility in Past 4 Weeks for Outpatient: T
ED005_6_        Times Visited Facility in Past 4 Weeks for Outpatient: H
ED005_7_        Times Visited Facility in Past 4 Weeks for Outpatient: V
```

Medical Care Utilization: Dental visit

```
Wave Variable      Label                                                Type

  2  R2DENTST1Y    r2dentst1y:w2 r dental care last year                Categ
  4  R4DENTST1Y    r4dentst1y:w4 r dental care last year                Categ

  2  S2DENTST1Y    s2dentst1y:w2 s dental care last year                Categ
  4  S4DENTST1Y    s4dentst1y:w4 s dental care last year                Categ

  2  R2DENTIM1Y    r2dentim1y:w2 r # dental visit last year             Cont
  4  R4DENTIM1Y    r4dentim1y:w4 r # dental visit last year             Cont

  2  S2DENTIM1Y    s2dentim1y:w2 s # dental visit last year             Cont
  4  S4DENTIM1Y    s4dentim1y:w4 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
R4DENTST1Y    20871       0.18       0.38       0.00       1.00

S2DENTST1Y    15463       0.17       0.38       0.00       1.00
S4DENTST1Y    17644       0.18       0.38       0.00       1.00

R2DENTIM1Y    18279       0.44       1.74       0.00     100.00
R4DENTIM1Y    20793       0.44       1.57       0.00      50.00

S2DENTIM1Y    15402       0.43       1.72       0.00     100.00
S4DENTIM1Y    17581       0.45       1.58       0.00      50.00
```

Categorical Variable Codes

```
Value--------------------------------|        R2DENTST1Y          R4DENTST1Y
.m:missing                           |              254                 226
0.no                                 |            15231               17217
1.yes                                |             3127                3654

Value--------------------------------|        S2DENTST1Y          S4DENTST1Y
.m:missing                           |              117                  80
.u:unmar                             |             2401                2719
.v:sp nr                             |              623                 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 starting in wave 2.

Differences with the RAND 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 4:
    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: Oriental Doctor Visit

```
Wave Variable        Label                                                        Type

  1  R1ORDOC1M       r1ordoc1m:w1 r oriental doctor visit, last month             Categ
  2  R2ORDOC1M       r2ordoc1m:w2 r oriental doctor visit, last month             Categ
  4  R4ORDOC1M       r4ordoc1m:w4 r oriental doctor visit, last month             Categ

  1  S1ORDOC1M       s1ordoc1m:w1 s oriental doctor visit, last month             Categ
  2  S2ORDOC1M       s2ordoc1m:w2 s oriental doctor visit, last month             Categ
  4  S4ORDOC1M       s4ordoc1m:w4 s oriental doctor visit, last month             Categ

  1  R1ORDTIM1M      r1ordtim1m:w1 r # oriental doctor visits, last month         Cont
  2  R2ORDTIM1M      r2ordtim1m:w2 r # oriental doctor visits, last month         Cont
  4  R4ORDTIM1M      r4ordtim1m:w4 r # oriental doctor visits, last month         Cont

  1  S1ORDTIM1M      s1ordtim1m:w1 s # oriental doctor visits, last month         Cont
  2  S2ORDTIM1M      s2ordtim1m:w2 s # oriental doctor visits, last month         Cont
  4  S4ORDTIM1M      s4ordtim1m:w4 s # oriental doctor visits, last month         Cont
```

Descriptive Statistics

```
Variable          N        Mean       Std Dev      Minimum       Maximum

R1ORDOC1M       17409      0.01        0.11         0.00          1.00
R2ORDOC1M       18330      0.02        0.12         0.00          1.00
R4ORDOC1M       20874      0.01        0.12         0.00          1.00

S1ORDOC1M       14735      0.01        0.11         0.00          1.00
S2ORDOC1M       15432      0.01        0.12         0.00          1.00
S4ORDOC1M       17643      0.01        0.12         0.00          1.00

R1ORDTIM1M      17408      0.02        0.24         0.00         13.00
R2ORDTIM1M      18330      0.03        0.49         0.00         30.00
R4ORDTIM1M      20874      0.03        0.35         0.00         20.00

S1ORDTIM1M      14734      0.02        0.22         0.00         10.00
S2ORDTIM1M      15432      0.03        0.44         0.00         30.00
S4ORDTIM1M      17643      0.03        0.36         0.00         20.00
```

Categorical Variable Codes

Value	R1ORDOC1M	R2ORDOC1M	R4ORDOC1M
.d:dk	96		
.m:missing	199	282	223
.r:refuse	4		
0.no	17213	18050	20577
1.yes	196	280	297

Value	S1ORDOC1M	S2ORDOC1M	S4ORDOC1M
.d:dk	86		
.m:missing	87	148	81
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	14570	15204	17392
1.yes	165	228	251

How Constructed:

RwORDOC1M indicates whether the respondent has ever visited an oriental doctor in the last month.
Respondents who report no visits to an oriental doctors or no visit to any other doctor are coded
as 0. Respondents who have visited an oriental doctor at least once are coded as 1. Respondents who
did not respond that they visited an oriental doctor but gave a number of times they have visited
an oriental doctor are also coded as 1. RwORDTIM1M is a count of the number of times the respondent

visited an oriental doctor in the last month. Don't know, refused, or missing responses to oriental doctor visits are assigned special missing values (.d), (.r), (.m), respectively for both RwORDOC1M and RwORDTIM1M. RwORDOC1M and RwORDTIM1M are set to plain missing (.) for respondents who did not respond to the current wave.

SwORDOC1M and SwORDOCTIM1M give this information for the respondent's spouse or partner and are taken directly from the respondent's spouse's values to RwORDOC1M and RwORDOCTIM1M. SwORDOC1M and SwORDOCTIM1M 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

Visits to an oriental doctor 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
    ED006          How Much did You Pay for Visit the Medical Facility
    W1
Wave 2:
    ED001          visited hospital last month
    ED004S3        type of medical facility have visited? 3 chinese medicin
    ED005_3
    ED006          how much did all the visits to cost
Wave 4:
    ED001          Did You Visit a Hospital in The Last Month?
    ED004S3        Visited Facility in Past 4 Weeks for Outpatient: Chinese
```

Medical Expenditure: hospitalization in the past year

Wave	Variable	Label	Type
1	R1OOPHOS1Y	r1oophos1y:w1 r hospitalization out-of-pocket expenditure la	Cont
2	R2OOPHOS1Y	r2oophos1y:w2 r hospitalization out-of-pocket expenditure la	Cont
4	R4OOPHOS1Y	r4oophos1y:w4 r hospitalization out-of-pocket expenditure la	Cont
1	S1OOPHOS1Y	s1oophos1y:w1 S hospitalization out-of-pocket expenditure la	Cont
2	S2OOPHOS1Y	s2oophos1y:w2 s hospitalization out-of-pocket expenditure la	Cont
4	S4OOPHOS1Y	s4oophos1y:w4 s hospitalization out-of-pocket expenditure la	Cont
1	R1TOTHOS1Y	r1tothos1y:w1 r hospitalization total expenditure last year	Cont
2	R2TOTHOS1Y	r2tothos1y:w2 r hospitalization total expenditure last year	Cont
4	R4TOTHOS1Y	r4tothos1y:w4 r hospitalization total expenditure last year	Cont
1	S1TOTHOS1Y	s1tothos1y:w1 S hospitalization total expenditure last year	Cont
2	S2TOTHOS1Y	s2tothos1y:w2 s hospitalization total expenditure last year	Cont
4	S4TOTHOS1Y	s4tothos1y: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
R4OOPHOS1Y	20613	993.33	6472.34	0.00	340000.00
S1OOPHOS1Y	14726	485.62	3900.52	0.00	200000.00
S2OOPHOS1Y	15364	842.19	5379.66	0.00	220000.00
S4OOPHOS1Y	17468	998.97	6673.19	0.00	340000.00
R1TOTHOS1Y	17388	782.70	5102.50	0.00	160000.00
R2TOTHOS1Y	18121	1488.82	8991.56	0.00	500000.00
R4TOTHOS1Y	20611	1744.90	10547.06	0.00	530000.00
S1TOTHOS1Y	14730	790.08	5141.41	0.00	160000.00
S2TOTHOS1Y	15282	1503.15	9403.65	0.00	500000.00
S4TOTHOS1Y	17455	1743.91	10851.59	0.00	530000.00

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

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 Hospital
    EE016          Nights of Hospitalized There
    EE027          Total Pay Out of Pocket for Cost of Hospitalization/No C
    EE027_1        The Amount of Total Pay Out of Pocket for Cost of Hospit
    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 c
    EE027_1        the amount of total pay out of pocket for cost of hospit
    EF006          how often did the respondent receive assistance
Wave 4:
    EE003          Have You Received Inpatient Care in the Past Year?
    EE004          How Many Times Have You Received Inpatient Care in the P
    EE005          Was There a Cost Incurred for Inpatient Care in the Past
    EE005_1        Total Cost of All Inpatient Care in the Past Year
    EE006          Was There a Self-Paid Part for Inpatient Care in the Pas
    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
    EE027_1        Total Out-Of-Pocket Cost for the Last Inpatient Visit
    EF006          Frequency of Assistance While Answering the Health Care
```

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
  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
  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
  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
  4  S4TOTDOC1M      s4totdoc1m:w4 s doctor visit total expenditure last month     Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OOPDOC1M	17102	119.11	1575.27	0.00	170000.00
R2OOPDOC1M	17923	183.35	2096.73	0.00	160000.00
R4OOPDOC1M	20504	192.33	1638.15	0.00	75000.00
S1OOPDOC1M	14499	123.74	1686.01	0.00	170000.00
S2OOPDOC1M	15128	186.32	2216.76	0.00	160000.00
S4OOPDOC1M	17370	191.67	1598.65	0.00	70000.00
R1TOTDOC1M	17190	171.84	2134.61	0.00	200000.00
R2TOTDOC1M	18014	302.21	6432.74	0.00	800000.00
R4TOTDOC1M	20558	286.39	2412.71	0.00	110000.00
S1TOTDOC1M	14569	178.65	2276.90	0.00	200000.00
S2TOTDOC1M	15192	309.18	6942.70	0.00	800000.00
S4TOTDOC1M	17399	282.75	2371.33	0.00	100000.00

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

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
    ED005_2_       times visit / been visited by hospital corresponding to
    ED005_3_       times visit / been visited by hospital corresponding to
    ED005_4_       times visit / been visited by hospital corresponding to
    ED005_5_       times visit / been visited by hospital corresponding to
    ED005_6_       times visit / been visited by hospital corresponding to
    ED005_7_       times visit / been visited by hospital corresponding to
    ED006_1        total cost
    ED007_1        self-paid part
    ED023_1        money
    ED024_1        money
    EF006          how often did the respondent receive assistance
Wave 4:
    ED001          Did You Visit a Hospital in The Last Month?
    ED005_1_       Times Visited Facility in Past 4 Weeks for Outpatient: G
    ED005_2_       Times Visited Facility in Past 4 Weeks for Outpatient: S
    ED005_3_       Times Visited Facility in Past 4 Weeks for Outpatient: C
    ED005_4_       Times Visited Facility in Past 4 Weeks for Outpatient: C
    ED005_5_       Times Visited Facility in Past 4 Weeks for Outpatient: T
    ED005_6_       Times Visited Facility in Past 4 Weeks for Outpatient: H
    ED005_7_       Times Visited Facility in Past 4 Weeks for Outpatient: V
    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

Medical Expenditure: dental visit in the last year

```
Wave Variable      Label                                                    Type

  2  R2OOPDEN1Y     r2oopden1y:w2 r dental care out-of-pocket expenditure last y  Cont
  4  R4OOPDEN1Y     r4oopden1y:w4 r dental care out-of-pocket expenditure last y  Cont

  2  S2OOPDEN1Y     s2oopden1y:w2 s dental care out-of-pocket expenditure last y  Cont
  4  S4OOPDEN1Y     s4oopden1y:w4 s dental care out-of-pocket expenditure last y  Cont

  2  R2TOTDEN1Y     r2totden1y:w2 r dental care total expenditure last year   Cont
  4  R4TOTDEN1Y     r4totden1y:w4 r dental care total expenditure last year   Cont

  2  S2TOTDEN1Y     s2totden1y:w2 s dental care total expenditure last year   Cont
  4  S4TOTDEN1Y     s4totden1y:w4 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
R4OOPDEN1Y     20596      123.24        621.84        0.00      23000.00

S2OOPDEN1Y     15211       88.73        446.13        0.00      15000.00
S4OOPDEN1Y     17424      125.60        635.70        0.00      23000.00

R2TOTDEN1Y     18180       91.81        485.34        0.00      25000.00
R4TOTDEN1Y     20760      126.25        634.03        0.00      23000.00

S2TOTDEN1Y     15317       93.19        496.60        0.00      25000.00
S4TOTDEN1Y     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 starting in wave 2.

Differences with the RAND 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 4:
```

Covered by Public Health Insurance Program

Wave	Variable	Label	Type
1	R1HIGOV	r1higov:w1 r cover by public health insurance	Categ
2	R2HIGOV	r2higov:w2 r cover by public health insurance	Categ
4	R4HIGOV	r4higov:w4 r cover by public health insurance	Categ
1	S1HIGOV	s1higov:w1 s cover by public health insurance	Categ
2	S2HIGOV	s2higov:w2 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
R4HIGOV	17178	0.91	0.29	0.00	1.00
S1HIGOV	14799	0.93	0.26	0.00	1.00
S2HIGOV	15416	0.96	0.20	0.00	1.00
S4HIGOV	14363	0.91	0.28	0.00	1.00

Categorical Variable Codes

Value	R1HIGOV	R2HIGOV	R4HIGOV
.d:dk	63		
.m:missing	173	337	713
.r:refuse	5		
.x error			3206
0.No	1385	861	1621
1.Public Insurance Plan	16082	17414	15557

Value	S1HIGOV	S2HIGOV	S4HIGOV
.d:dk	44		
.m:missing	65	164	491
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x error			2870
0.No	1059	666	1223
1.Public Insurance Plan	13740	14750	13140

How Constructed:

RwHIGOV indicates whether the respondent is covered by any public health insurance program. Below is the list of the health insurance plans:

    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. Urban non-employed persons's health insurance (Asked in wave 2 and forward)

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.

In wave 4, special missing (.x) is assigned if the respondent is a new interview. New interview respondents in this context include wave 4 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 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's s 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

In 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 in 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

In wave 1, 2, and 4 all respondents are asked to indicate any type of health insurance they are a policy holder/primary beneficiary.

Wave 4 differs from wave 1 and 2 in that 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 public health insurance program, each public health insurance type is used in wave 4. The re-interview respondent is also asked whether they have added a health insurance type since their last interview. All, if any, additional public health insurance program types are used in wave 4.

In wave 4, new interview respondents, as with wave 1 and wave 2, are asked to indicate any type of health insurance they are a policy holder/primary beneficiary. However, 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. In wave 4, special missing (.x) is assigned, indicating this for new respondents. 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).

Differences with the RAND 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 empl
    EA001S10         are you have any types of health insurance? 10 other med
    EA001S11         are you have any types of health insurance? 11 no insura
    EA001S2          are you have any types of health insurance? 2 urban resi
    EA001S3          are you have any types of health insurance? 3 new cooper
    EA001S4          are you have any types of health insurance? 4 urban and
    EA001S5          are you have any types of health insurance? 5 government
    EA001S6          are you have any types of health insurance? 6 medical ai
    EA001S7          are you have any types of health insurance? 7 private me
    EA001S8          are you have any types of health insurance? 8 private me
    EA001S9          are you have any types of health insurance? 9 urban non-
Wave 4:
    EA001_W3_2_10_   Still has Med. Ins. from Prev. Wave? Other Medical Insur
    EA001_W3_2_1_    Still has Med. Ins. from Prev. Wave? Urban Employee Medi
    EA001_W3_2_2_    Still has Med. Ins. from Prev. Wave? Urban Resident Medi
    EA001_W3_2_3_    Still has Med. Ins. from Prev. Wave? New Cooperative Med
    EA001_W3_2_4_    Still has Med. Ins. from Prev. Wave? Urban and Rural Res
    EA001_W3_2_5_    Still has Med. Ins. from Prev. Wave? Government Medical
    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 Ins
    EA001_W3_2_8_    Still has Med. Ins. from Prev. Wave? Private Medical Ins
    EA001_W3_2_9_    Still has Med. Ins. from Prev. Wave? Urban Non-Employed
    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 I
    EA001_W3_3_2_    Betw. Prev. Wave and This Wave? Urban Resident Medical I
    EA001_W3_3_3_    Betw. Prev. Wave and This Wave? New Cooperative Medical
    EA001_W3_3_4_    Betw. Prev. Wave and This Wave? Urban and Rural Resident
```

```
EA001_W3_3_5_  Betw. Prev. Wave and This Wave? Government Medical Insur
EA001_W3_3_6_  Betw. Prev. Wave and This Wave? Medical Aid
EA001_W3_3_7_  Betw. Prev. Wave and This Wave? Private Medical Insuranc
EA001_W3_3_8_  Betw. Prev. Wave and This Wave? Private Medical Insuranc
EA001_W3_3_9_  Betw. Prev. Wave and This Wave? Urban Non-Employed Perso
```

Covered by Private Health Insurance Program

Wave Variable   Label   Type

```
  1  R1HIPRIV     r1hipriv:w1 r cover by Private Health Ins                  Categ
  2  R2HIPRIV     r2hipriv:w2 r cover by Private Health Ins                  Categ
  4  R4HIPRIV     r4hipriv:w4 r cover by Private Health Ins                  Categ

  1  S1HIPRIV     s1hipriv:w1 S cover by Private Health Ins                  Categ
  2  S2HIPRIV     s2hipriv:w2 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
R4HIPRIV	17228	0.02	0.15	0.00	1.00
S1HIPRIV	14755	0.03	0.16	0.00	1.00
S2HIPRIV	15416	0.02	0.15	0.00	1.00
S4HIPRIV	14379	0.02	0.16	0.00	1.00

Categorical Variable Codes

Value	R1HIPRIV	R2HIPRIV	R4HIPRIV
.d:dk	63		
.m:missing	228	337	672
.r:refuse	5		
.x error			3197
0.No	16974	17854	16830
1.Private Insurance Plan	438	421	398

Value	S1HIPRIV	S2HIPRIV	S4HIPRIV
.d:dk	44		
.m:missing	109	164	482
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x error			2863
0.No	14377	15048	14024
1.Private Insurance Plan	378	368	355

How Constructed:

RwHIPRIV indicates whether the respondent is covered by any private health insurance program. Below is the list of the health insurance plans:

    1. Private medical insurance: purchased by respondent's union

    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.

In wave 4, special missing (.x) is assigned if the respondent is a new interview. New interview respondents in this context include wave 4 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's s 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

In 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 in 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

In wave 1, 2, and 4 all respondents are asked to indicate any type of health insurance they are a policy holder/primary beneficiary.

Wave 4 differs from wave 1 and 2 in that 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 in wave 4. 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 in wave 4.

In wave 4, new interview respondents, as with wave 1 and wave 2, are asked to indicate any type of health insurance they are a policy holder/primary beneficiary. However, 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. In wave 4, special missing (.x) is assigned, indicating this for new respondents. 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).

Differences with the RAND 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 empl
    EA001S10        are you have any types of health insurance? 10 other med
    EA001S11        are you have any types of health insurance? 11 no insura
    EA001S2         are you have any types of health insurance? 2 urban resi
    EA001S3         are you have any types of health insurance? 3 new cooper
    EA001S4         are you have any types of health insurance? 4 urban and
    EA001S5         are you have any types of health insurance? 5 government
    EA001S6         are you have any types of health insurance? 6 medical ai
    EA001S7         are you have any types of health insurance? 7 private me
    EA001S8         are you have any types of health insurance? 8 private me
    EA001S9         are you have any types of health insurance? 9 urban non-
Wave 4:
    EA001_W3_2_10_  Still has Med. Ins. from Prev. Wave? Other Medical Insur
    EA001_W3_2_1_   Still has Med. Ins. from Prev. Wave? Urban Employee Medi
    EA001_W3_2_2_   Still has Med. Ins. from Prev. Wave? Urban Resident Medi
    EA001_W3_2_3_   Still has Med. Ins. from Prev. Wave? New Cooperative Med
    EA001_W3_2_4_   Still has Med. Ins. from Prev. Wave? Urban and Rural Res
    EA001_W3_2_5_   Still has Med. Ins. from Prev. Wave? Government Medical
    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 Ins
    EA001_W3_2_8_   Still has Med. Ins. from Prev. Wave? Private Medical Ins
    EA001_W3_2_9_   Still has Med. Ins. from Prev. Wave? Urban Non-Employed
    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 I
    EA001_W3_3_2_   Betw. Prev. Wave and This Wave? Urban Resident Medical I
    EA001_W3_3_3_   Betw. Prev. Wave and This Wave? New Cooperative Medical
    EA001_W3_3_4_   Betw. Prev. Wave and This Wave? Urban and Rural Resident
    EA001_W3_3_5_   Betw. Prev. Wave and This Wave? Government Medical Insur
    EA001_W3_3_6_   Betw. Prev. Wave and This Wave? Medical Aid
    EA001_W3_3_7_   Betw. Prev. Wave and This Wave? Private Medical Insuranc
    EA001_W3_3_8_   Betw. Prev. Wave and This Wave? Private Medical Insuranc
    EA001_W3_3_9_   Betw. Prev. Wave and This Wave? Urban Non-Employed Perso
```

Covered by Other Health Insurance Program

```
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
  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
  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
R4HIOTHP        17221       0.02        0.13         0.00         1.00

S1HIOTHP        14799       0.01        0.09         0.00         1.00
S2HIOTHP        15416       0.01        0.10         0.00         1.00
S4HIOTHP        14379       0.02        0.13         0.00         1.00
```

Categorical Variable Codes

Value	R1HIOTHP	R2HIOTHP	R4HIOTHP
.d:dk	63		
.m:missing	173	337	706
.r:refuse	5		
.x error			3170
0.No	17337	18112	16924
1.Other Insurance Plan	130	163	297

Value	S1HIOTHP	S2HIOTHP	S4HIOTHP
.d:dk	44		
.m:missing	65	164	506
.r:refuse	2		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.x error			2839
0.No	14684	15275	14122
1.Other Insurance Plan	115	141	257

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 other health insurance plan.

In wave 4, special missing (.x) is assigned if the respondent is a new interview. New interview respondents in this context include wave 4 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 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's s 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

In 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 in 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

In wave 1, 2, and 4 all respondents are asked to indicate any type of health insurance they are a policy holder/primary beneficiary.

Wave 4 differs from wave 1 and 2 in that 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 other health insurance program, each other health insurance type is used in wave 4. The re-interview respondent is also asked whether they have added a health insurance type since their last interview. All, if any, additional other health insurance program types are used in wave 4.

In wave 4, new interview respondents, as with wave 1 and wave 2, are asked to indicate any type of health insurance they are a policy holder/primary beneficiary. However, 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. In wave 4, special missing (.x) is assigned, indicating this for new respondents. 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).

Differences with the RAND HRS

This variable contains different component than RAND HRS. In the RAND HRS, RwHIOTHP indicates
whether the respondent is covered by any health insurance other than government, employer-provided,
or long-term care insurance. RwHIOTHP 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 empl
    EA001S10        are you have any types of health insurance? 10 other med
    EA001S11        are you have any types of health insurance? 11 no insura
    EA001S2         are you have any types of health insurance? 2 urban resi
    EA001S3         are you have any types of health insurance? 3 new cooper
    EA001S4         are you have any types of health insurance? 4 urban and
    EA001S5         are you have any types of health insurance? 5 government
    EA001S6         are you have any types of health insurance? 6 medical ai
    EA001S7         are you have any types of health insurance? 7 private me
    EA001S8         are you have any types of health insurance? 8 private me
    EA001S9         are you have any types of health insurance? 9 urban non-
Wave 4:
    EA001_W3_2_10_  Still has Med. Ins. from Prev. Wave? Other Medical Insur
    EA001_W3_2_1_   Still has Med. Ins. from Prev. Wave? Urban Employee Medi
    EA001_W3_2_2_   Still has Med. Ins. from Prev. Wave? Urban Resident Medi
    EA001_W3_2_3_   Still has Med. Ins. from Prev. Wave? New Cooperative Med
    EA001_W3_2_4_   Still has Med. Ins. from Prev. Wave? Urban and Rural Res
    EA001_W3_2_5_   Still has Med. Ins. from Prev. Wave? Government Medical
    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 Ins
    EA001_W3_2_8_   Still has Med. Ins. from Prev. Wave? Private Medical Ins
    EA001_W3_2_9_   Still has Med. Ins. from Prev. Wave? Urban Non-Employed
    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 I
    EA001_W3_3_2_   Betw. Prev. Wave and This Wave? Urban Resident Medical I
    EA001_W3_3_3_   Betw. Prev. Wave and This Wave? New Cooperative Medical
    EA001_W3_3_4_   Betw. Prev. Wave and This Wave? Urban and Rural Resident
    EA001_W3_3_5_   Betw. Prev. Wave and This Wave? Government Medical Insur
    EA001_W3_3_6_   Betw. Prev. Wave and This Wave? Medical Aid
    EA001_W3_3_7_   Betw. Prev. Wave and This Wave? Private Medical Insuranc
    EA001_W3_3_8_   Betw. Prev. Wave and This Wave? Private Medical Insuranc
    EA001_W3_3_9_   Betw. Prev. Wave and This Wave? Urban Non-Employed Perso
```

Section D: Cognition

Self-reported Memory

Wave	Variable	Label	Type
1	R1SLFMEM	r1slfmem:w1 r Self-reported memory	Categ
2	R2SLFMEM	r2slfmem:w2 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
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
R4SLFMEM	19612	4.10	0.84	1.00	5.00
S1SLFMEM	13554	4.09	0.85	1.00	5.00
S2SLFMEM	14040	4.07	0.85	1.00	5.00
S4SLFMEM	16697	4.08	0.84	1.00	5.00

Categorical Variable Codes

Value	R1SLFMEM	R2SLFMEM	R4SLFMEM
.d:dk	18		70
.m:missing	1288	1553	1018
.p:proxy	353	476	391
.r:refuse	6		6
1.Excellent	78	146	180
2.Very Good	871	980	1127
3.Good	2245	1688	1579
4.Fair	7201	8389	10462
5.Poor	5648	5380	6264

Value	S1SLFMEM	S2SLFMEM	S4SLFMEM
.d:dk	12		48
.m:missing	1032	1165	692
.p:proxy	308	375	282
.r:refuse	4		5
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
1.Excellent	61	128	157
2.Very Good	712	818	979
3.Good	1889	1430	1337
4.Fair	6181	7200	9073
5.Poor	4711	4464	5151

How Constructed:

RwSLFMEM provides the respondent's self-report of memory using a scale ranging from 1 for excellent to 5 for poor. RwSLFMEM is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. Don't know, refused, or other missing responses of RwSLFMEM are assigned special missing codes (.d), (.r), (.m), respectively. RwSLFMEM is set to plain missing (.) for respondents who did not respond to this wave.

SwSLFMEM is the current wave's spouse's self-reported memory score and it taken directly from the spouse's value to RwSLFMEM. In addition to the special missing codes used in RwSLFMEM, SwSLFMEM employs 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

```
No differences known.
```

Differences with the RAND HRS

```
No differences known.
```

CHARLS Variables Used:

```
Wave 1:
    DB032          How Often Did the Respondent Receive Assistance
    DC004          Self Comment of Memory
Wave 2:
    DB032          receive assistance
    DC004          self rated memory
Wave 4:
    DB032          Receive Assistance
    DC004          Self rated memory
```

Immediate Word Recall

```
Wave Variable      Label                                          Type

  1  R1IMRC        r1imrc:w1 r immediate word recall              Cont
  2  R2IMRC        r2imrc:w2 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
  4  S4IMRC        s4imrc:w4 s immediate word recall              Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IMRC	14387	4.03	1.75	0.00	10.00
R2IMRC	16518	3.98	1.84	0.00	10.00
R4IMRC	19305	3.85	1.92	0.00	10.00
S1IMRC	12277	4.09	1.73	0.00	10.00
S2IMRC	13994	4.07	1.81	0.00	10.00
S4IMRC	16477	3.97	1.88	0.00	10.00

How Constructed:

The CHARLS included a recall list of 10 different words which were read to a respondent and then the respondent was asked to recall them immediately and later in the survey. Respondents were assigned to one of four non-overlapping lists based on random selection.

RwIMRC counts the number of words the respondent could immediately recall correctly from a 10-word list. Respondents were given up to 2 minutes to recall words. RwIMRC is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. Special missing (.r) is assigned if the respondent refused. Special missing (.m) is assigned for other missing responses. RwIMRC is set to plain missing (.) for respondents who did not respond to this wave.

SwIMRC is the current wave's spouse's immediate word recall score and is taken directly from the spouse's value to RwIMRC. In addition to the special missing codes used in RwIMRC, SwIMRC employs 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

Please note that incorrect responses in all waves of CHARLS data and don't know responses in CHARLS Wave 2 and Wave 4 data are not coded so it is not possible to separate incorrect or don't know responses from other missing responses. There are, presumably, respondents in Wave 2 who gave refused responses. Whereas as these respondents were given a special missing value of (.r) for the Wave 1 and Wave 4 Harmonized CHARLS variable, Wave 2 Harmonized CHARLS variable refused responses cannot be identified and so the respondents are assumed to have given incorrect or don't know responses.

Respondents who are missing responses for either the question before or the question after the immediate word recall questions and who have no values for any of the immediate word recall variables are assumed to not have been asked the immediate word recall questions and are coded special missing (.m). All other respondents are assumed to have answered these cognition questions and gave either all incorrect or don't know response.

Differences with the RAND HRS

The word lists in the CHARLS are different from the HRS. Starting in the HRS Wave 3, the word list was randomly assigned, which is similar to the CHARLS.

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
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 4:
    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
    DC006_VERSION   Random Draw of Word List
```

Delayed Word Recall

Wave	Variable	Label	Type
1	R1DLRC	r1dlrc:w1 r delayed word recall	Cont
2	R2DLRC	r2dlrc:w2 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
4	S4DLRC	s4dlrc:w4 s delayed word recall	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DLRC	14357	3.08	2.00	0.00	10.00
R2DLRC	16532	3.05	2.09	0.00	10.00
R4DLRC	19185	2.87	2.09	0.00	10.00
S1DLRC	12262	3.14	1.99	0.00	10.00
S2DLRC	14020	3.15	2.07	0.00	10.00
S4DLRC	16386	2.99	2.07	0.00	10.00

How Constructed:

The CHARLS included a recall list of 10 different words which were read to a respondent and then the respondent was asked to recall them immediately and later in the survey. Respondents were assigned to one of four non-overlapping lists based on random selection.

RwDLRC counts the amount of words the respondent can recall correctly from a 10-word list after a delayed time spent answering other survey questions. RwDLRC is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. Special missing (.r) is assigned if the respondent refused. Special missing (.m) is assigned for other missing responses. RwDLRC is set to plain missing (.) for respondents who did not respond to this wave.

SwDLRC is the current wave's spouse's delayed word recall score and it taken directly from the spouse's value to RwDLRC. In addition to the special missing codes used in RwDLRC, SwDLRC employs 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

Please note that incorrect responses in all waves of CHARLS data and don't know responses in CHARLS Wave 2 and Wave 4 data are not coded so it is not possible to separate incorrect or don't know responses from other missing responses. There are, presumably, respondents in Wave 2 who gave refused responses. Whereas as these respondents were given a special missing value of (.r) for the Wave 1 and Wave 4 Harmonized CHARLS variable, Wave 2 Harmonized CHARLS variable refused responses cannot be identified and so the respondents are assumed to have given incorrect or don't know responses.

Respondents who are missing responses for either the question before or the question after the delayed word recall questions and who have no values for any of the delayed word recall variables are assumed to not have been asked the delayed word recall questions and are coded special missing (.m). All other respondents are assumed to have answered these cognition questions and gave either all incorrect or don't know response.

Differences with the RAND HRS

The word lists in the CHARLS are different from the HRS. Starting in the HRS Wave 3, the word list was randomly assigned, which is similar to the CHARLS.

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
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 4:
    DB032          Receive Assistance
    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
```

Serial 7's

Wave	Variable	Label	Type
1	R1SER7	r1ser7:w1 r serial 7s	Cont
2	R2SER7	r2ser7:w2 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
4	S4SER7	s4ser7:w4 s serial 7s	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SER7	15912	2.78	2.01	0.00	5.00
R2SER7	16403	2.83	1.97	0.00	5.00
R4SER7	19568	2.80	1.98	0.00	5.00
S1SER7	13459	2.87	1.99	0.00	5.00
S2SER7	13906	2.93	1.95	0.00	5.00
S4SER7	16670	2.90	1.96	0.00	5.00

How Constructed:

RwSER7 provides the numbers of correct subtractions in the serial 7's test. This test asks the individual to subtract 7 from the prior number, beginning with 100 for five trials. Valid scores are 0-5. Don't know responses are coded as 0. RwSER7 is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. Refused or other missing values for RwSER7 are assigned special missing codes (.r) and (.m), respectively. Respondents who are missing responses for either the question before or the question after the serial 7's test questions and who have no values are assumed to not have been asked this question and are coded as special missing (.m). RwSER7 is set to plain missing (.) for respondents who did not respond to this wave.

SwSER7 provides the current wave's spouse numbers of correct subtractions in the serial 7's test and is taken directly from the spouse's value to RwSER7. In addition to the special missing codes used in RwSER7, SwSER7 employs 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

No differences known.

Differences with the RAND 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
Wave 2:
    DB032          receive assistance
    DC019          100 minus 7
    DC020          minus 7
    DC021          minus 7
    DC022          minus 7
```

```
    DC023           minus 7
Wave 4:
    DB032           Receive Assistance
    DC019           100 minus 7
    DC020           minus 7
    DC021           MINUS 7
    DC022           MINUS 7
    DC023           MINUS 7
```

Date Naming

Wave	Variable	Label	Type
1	R1MO	r1mo:w1 r cognition date naming-month	Categ
2	R2MO	r2mo:w2 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
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
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
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
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
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
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
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
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
4	S4ORIENT	s4orient:w4 s cognition orient (summary date naming)	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MO	15689	0.86	0.34	0.00	1.00
R2MO	16048	0.83	0.38	0.00	1.00
R4MO	19592	0.82	0.38	0.00	1.00
S1MO	13294	0.87	0.34	0.00	1.00
S2MO	13656	0.83	0.37	0.00	1.00
S4MO	16673	0.83	0.37	0.00	1.00
R1DY	15689	0.74	0.44	0.00	1.00
R2DY	16048	0.69	0.46	0.00	1.00
R4DY	19590	0.68	0.47	0.00	1.00
S1DY	13294	0.75	0.43	0.00	1.00
S2DY	13656	0.70	0.46	0.00	1.00
S4DY	16672	0.69	0.46	0.00	1.00
R1YR	15689	0.74	0.44	0.00	1.00
R2YR	16048	0.76	0.43	0.00	1.00
R4YR	19592	0.75	0.43	0.00	1.00

S1YR	13294	0.75	0.43	0.00	1.00
S2YR	13656	0.78	0.42	0.00	1.00
S4YR	16674	0.77	0.42	0.00	1.00
R1DW	15689	0.59	0.49	0.00	1.00
R2DW	16047	0.64	0.48	0.00	1.00
R4DW	19042	0.65	0.48	0.00	1.00
S1DW	13294	0.60	0.49	0.00	1.00
S2DW	13655	0.65	0.48	0.00	1.00
S4DW	16263	0.66	0.47	0.00	1.00
R1ORIENT	15690	2.94	1.21	0.00	4.00
R2ORIENT	16048	2.92	1.31	0.00	4.00
R4ORIENT	19598	2.89	1.31	0.00	4.00
S1ORIENT	13295	2.98	1.19	0.00	4.00
S2ORIENT	13656	2.96	1.29	0.00	4.00
S4ORIENT	16678	2.95	1.28	0.00	4.00

Categorical Variable Codes

Value	R1MO	R2MO	R4MO
.m:missing	1653	2089	1088
.p:proxy	354	475	403
.r:refuse	12		14
0.no	2163	2787	3489
1.yes	13526	13261	16103

Value	S1MO	S2MO	S4MO
.m:missing	1300	1550	747
.p:proxy	309	374	293
.r:refuse	7		11
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	1732	2273	2763
1.yes	11562	11383	13910

Value	R1DY	R2DY	R4DY
.m:missing	1653	2089	1088
.p:proxy	354	475	405
.r:refuse	12		14
0.no	4010	4931	6254
1.yes	11679	11117	13336

Value	S1DY	S2DY	S4DY
.m:missing	1300	1550	747
.p:proxy	309	374	294
.r:refuse	7		11
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	3293	4096	5122
1.yes	10001	9560	11550

Value	R1YR	R2YR	R4YR
.m:missing	1653	2089	1088
.p:proxy	354	475	403
.r:refuse	12		14
0.no	4120	3849	4882
1.yes	11569	12199	14710

Value	S1YR	S2YR	S4YR
.m:missing	1300	1550	747
.p:proxy	309	374	292
.r:refuse	7		11
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650

Value			
0.no	3289	3024	3755
1.yes	10005	10632	12919

Value	R1DW	R2DW	R4DW
.m:missing	1655	2089	1619
.p:proxy	354	476	424
.r:refuse	10		12
0.no	6407	5776	6648
1.yes	9282	10271	12394

Value	S1DW	S2DW	S4DW
.m:missing	1301	1550	1142
.p:proxy	309	375	311
.r:refuse	6		8
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	5301	4807	5462
1.yes	7993	8848	10801

How Constructed:

RwDY, RwMO, RwYR, and RwDW indicate whether the respondent was able to report today's date correctly, including the day of month, month, year, and day of week, respectively. Each of these variables is coded as 1 for a correct answer and 0 for an incorrect answer. RwDY, RwMO, RwYR, and RwDW are set to special missing (.p) if the cognition question was skipped because the interview was by proxy. Don't know response are coded as 0. Refused or other missing responses are assigned special missing codes (.r) and (.m) respectively. Respondents who are missing responses for either the question before or the question after this set of questions and who have no values are assumed to not have been asked this question and are coded as special missing (.m). RwDY, RwMO, RwYR, and RwDW are set to plain missing (.) for respondents who did not respond to this wave.

SwDY, SwMO, SwYR and SwDW indicate whether the current wave's spouse was able to correctly report the day of month, month, year, and day of week, respectively. They are taken directly from the spouse's values to RwDY, RwMO, RwYR, and RwDW. In addition to the special missing codes used in RwDY, RwMO, RwYR, and RwDW, SwDY, SwMO, SwYR and SwDW 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.

RwORIENT indicates the orientation to date, month, year and day of week. It is the summary measure for the above four variables, ranging from 0 to 4, with four indicating all questions answered correctly. RwORIENT is set to special missing (.p) if the cognition questions were skipped because the interview was by proxy. RwORIENT is assigned special missing (.m) if one of the four variables is assigned (.m) and there is no value for RwORIENT. RwORIENT is set to plain missing (.) for respondents who did not respond to this wave.

SwORIENT is the current wave's spouse's orientation score and is taken directly from the spouse's value to RwORIENT. 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

Please note that refused responses in CHARLS Wave 2 data are not coded so it is not possible to separate refused responses from don't know, incorrect, or other missing responses. There are, presumably, respondents in wave 2 who gave refused responses. Whereas as these respondents would have been given a special missing value of (.r) for the wave 1 and wave 4 Harmonized CHARLS variable, in the wave 2 Harmonized CHARLS variable refused responses cannot be identified and so the respondents are assumed to have given incorrect responses.

Respondents who are missing responses for the question after the date naming questions and who have no values for any of the date naming variables are assumed to not have been asked the date naming questions and are coded (.m) missing. All other respondents are assumed to have answered these cognition questions and given incorrect response.

Differences with the RAND HRS

A cognition orient (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
Wave 2:
    DB032           receive assistance
    DC001S1         checking date
    DC001S2         checking date
    DC001S3         checking date
    DC002           checking day of week
Wave 4:
    DB032           Receive Assistance
    DC001S1         checking date
    DC001S2         checking date
    DC001S3         checking date
    DC002           Checking day of week
```

Drawing Picture

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
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
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
R4DRAW	19240	0.65	0.48	0.00	1.00
S1DRAW	13397	0.65	0.48	0.00	1.00
S2DRAW	13882	0.68	0.47	0.00	1.00
S4DRAW	16405	0.67	0.47	0.00	1.00

Categorical Variable Codes

Value	R1DRAW	R2DRAW	R4DRAW
.d:dk	92		195
.m:missing	1297	1769	1035
.p:proxy	354	477	392
.r:refuse	137		235
0.no	5824	5696	6810
1.yes	10004	10670	12430

Value	S1DRAW	S2DRAW	S4DRAW
.d:dk	67		148
.m:missing	1035	1322	698
.p:proxy	309	376	282
.r:refuse	102		191
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	4643	4489	5393
1.yes	8754	9393	11012

How Constructed:

RwDRAW is the cognition measure indicating whether the respondent is able to draw an assigned picture, which was a picture of two pentagons overlapped. RwDRAW is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. Don't know, refused, or other missing responses of RwDRAW are assigned special missing codes (.d), (.r), (.m) respectively. RwDRAW is set to plain missing (.) for respondents who did not respond to this wave.

SwDRAW is whether the current wave's spouse is able to draw an assigned picture correctly and is taken directly from the spouse's value to RwDRAW. In addition to the special missing codes used in RwDRAW, SwDRAW employs 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

No differences known.

Differences with the RAND 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
Wave 2:
    DB032           receive assistance
    DC025           draw picture
Wave 4:
    DB032           Receive Assistance
    DC025           Draw picture
```

Total Recall Summary Score

```
Wave Variable      Label                                                    Type

  1  R1TR20        r1tr20:w1 r recall summary score                         Cont
  2  R2TR20        r2tr20:w2 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
  4  S4TR20        s4tr20:w4 s recall summary score                         Cont
```

Descriptive Statistics

```
Variable          N         Mean        Std Dev      Minimum      Maximum

R1TR20          14332       7.12          3.46         0.00        20.00
R2TR20          16420       7.06          3.65         0.00        20.00
R4TR20          19029       6.77          3.75         0.00        20.00

S1TR20          12242       7.23          3.43         0.00        20.00
S2TR20          13932       7.26          3.61         0.00        20.00
S4TR20          16277       6.99          3.69         0.00        20.00
```

How Constructed:

```
RwTR20 is the summary score for total word recall. RwTR20 sums the immediate and delayed word
recall scores. It is calculated by taking the sum of RwIMRC (range 0-10) and RwDLRC (range 0-10).
RwTR20 is only calculated when the respondent has non-missing values for RwIMRC and RwDLRC. RwTR20
is set to special missing (.p) if the word recall questions were skipped because the interview was
by proxy. Don't know, missing, or refused values are assigned special missing codes (.d), (.m),
(.r), respectively.

SwTR20 is the current wave's spouse's total word recall score and is taken directly from the
spouse's value to RwTR20. 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

```
See components for cross-wave differences.
```

Differences with the RAND HRS

```
No differences known.
```

CHARLS Variables Used:

```
Wave 1:
    DB032         How Often Did the Respondent Receive Assistance
    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
Wave 2:
    DB032           receive assistance
    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 4:
    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
    DC006_VERSION   Random Draw of Word List
```

```
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
```

Section E: Financial and Housing Wealth

Inflation Multiplier

```
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

  2  C2013CPINDEX  2013 consumer price index, 2010=100                Cont
  2  C2014CPINDEX  2014 consumer price index, 2010=100                Cont
  2  C2015CPINDEX  2015 consumer price index, 2010=100                Cont
  2  C2016CPINDEX  2016 consumer price index, 2010=100                Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
C2009CPINDEX	25504	96.90	0.00	96.90	96.90
C2010CPINDEX	25504	100.00	0.00	100.00	100.00
C2011CPINDEX	25504	105.60	0.00	105.60	105.60
C2012CPINDEX	25504	108.30	0.00	108.30	108.30
C2013CPINDEX	25504	111.20	0.00	111.20	111.20
C2014CPINDEX	25504	113.30	0.00	113.30	113.30
C2015CPINDEX	25504	114.90	0.00	114.90	114.90
C2016CPINDEX	25504	117.20	0.00	117.20	117.20

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

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
  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      18579.82       82663.77         0.00     4030000.00
H4ACHCK        13612      33613.78      141900.88         0.00     8001500.00
```

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:

Value of cash and savings are asked in the individual asset section.

HwACHCK is a total value of cash, checking and savings at the couple level. It is derived from the summary of respondent's value of cash and the value of savings deposits together and spouse value of cash and the value of savings deposits together. Respondents are asked to report how much cash is held by you and your spouse at home. If the respondent is married, they are then asked to identify how much of that value they own either as a real value or as a percentage. If the cash is jointly owned the respondent is suggested to report they own 50% of the cash. Respondents are also asked if they currently hold any deposits in financial institutions in their name. If the respondent reports ownership, they are then asked to report the current total amount of those deposits. Don't know, refused, or other missing responses of HwACHCK are assigned special missing codes .d, .r, .m respectively. HwACHCK is set to plain missing (.) for respondents who did not respond to this wave. Special missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

In Wave 1 respondents are asked whether they are holding any deposits in financial institutions and if the respondent answers yes, they are then are then asked to total amount. Starting in Wave 2, whether the respondent holds any deposit accounts is not asked starting in Wave 2, instead all respondents are asked the total amount of deposits they are holding in financial institutions.

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 4 Individual Income file. These missings affect HwACHCK.

Differences with the RAND 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 in hand 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 4:
    BE001           Martial Status
    HC001           Amount of Cash
    HC005           Amount of 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
  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
H4ASTCK        18030     2044.41     29012.48         0.00    1500000.00
```

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:

Value of stocks and mutual funds are asked in individual assets section.

HwASTCK is the total value of stocks and mutual funds at the couple level. It is derived from the summary of respondent's total value of stocks and mutual funds and spouse's total value of stock and mutual fund. Respondents are asked whether they have held any stocks in the past year under his/her name excluding the equity or stocks from the respondent's work unit. If the respondent has held any stocks, they are then asked to report the present market value of all the stocks the respondent currently holds. Respondents are also asked whether they hold any funds under their name in the past year. If the respondent has held funds, they are then asked to report the present market value of all the funds the respondent currently holds. Don't know, refused, or other missing responses of HwASTCK are assigned special missing codes .d, .r, .m respectively. HwASTCK is set to plain missing (.) for respondents who did not respond to this wave. Special missing value .b is assigned if the respondent's spouse is absent.

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 and Wave 4 Individual Income file. These missings affect HwASTCK.

Differences with the RAND 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 4:
    HC010           Stocks
    HC013           Market Value of Stocks
    HC015           Funds
    HC018           Market Value of Funds
```

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
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
H4ABOND	18037	150.64	5265.16	0.00	400000.00

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:

Value of government bonds is asked in the individual asset section.

HwABOND is the value of government bonds at couple level. It is derived from the value of government bonds that both respondent and spouse are currently holding. Respondents are asked whether they have any government bond (e.g. Treasury bills) in their name. If the respondent indicates that not holding any government bonds, a value of zero is assigned. If a respondent indicates having a government bond; the reported amount of total face value is assigned. Don't know, refused, or other missing responses of HwABOND are assigned special missing codes .d, .r, .m respectively. HwABOND is set to plain missing (.) for respondents who did not respond to this wave. Special missing value .b is assigned if the respondent's spouse is absent.

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 and Wave 4 Individual Income file. These missings affect HwABOND.

Differences with the RAND 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           goverment bonds
    HC008           face value of goverment bonds
    HD012           receive assistance in answering
Wave 4:
    HC007           Goverment Bonds
    HC008           Face Value of Goverment Bonds
```

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
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
H4AOTHR	17639	8126.34	168256.20	0.00	10000000.00

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:

Value of all other saving are asked in the individual asset section.

HwAOTHR is total value of all other saving of the respondent and spouse; that is, sum of public housing fund, Jizikuan, unpaid salary and other deposits, bonds, stocks or fund that belongs to the respondent but are held in a person's name other than respondent and spouse. Respondents are asked to report the amount of each item are held.

HwAOTHR is derived by adding the value of following items:

        1. Value of public housing fund

        2. Value of Jizikuan

        3. Value of unpaid salary

        4. Value of other deposits, bonds, stocks or funds that belong to you but which are held in a person's name other than you or your spouse deposits together.

If a respondent indicates not holding any other saving HwAOTHR is assigned a value of zero. For respondents who report not holding deposits, bonds, stocks, nor funds, the question about value of other deposits, bonds, stock, or funds that belong to you but are held in another person's name is not asked. For respondents who indicate having public housing fund, Jizikuan, unpaid salary or other deposits, bonds, stocks or funds that belong to you but which are held in a person's name other than you or your spouse deposits together; the reported amount of total value of other saving is assigned to HwAOTHR. Don't know, refused, or other missing responses of HwAOTHR are assigned special missing codes .d, .r, .m respectively. HwAOTHR is set to plain missing (.) for respondents who did not respond to this wave. Special missing value .b is assigned if the respondent's spouse is absent.

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 and Wave 4 Individual Income file. These missings affect HwAOTHR.

Differences with the RAND 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         goverment 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 4:
    HC005         Amount of Deposit
    HC007         Goverment 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
```

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
  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        14920     8317.07    61404.51        0.00   2000000.00
H4ADEBT        17890    11346.96   114188.80        0.00   6500000.00
```

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 is the value of other debts at the couple level. In Waves 1 and 2, HwADEBT is derived from the summary of respondent's value of other loan (not including loans for house), respondent's value of credit card debt, spouse's value of other loan (not including loans for house) and spouse's value of credit card debt. Starting in Wave 4, the value of other debts also includes mortgages from primary and secondary residences.

Respondents are asked the amount of loans that haven't been repaid (not including loan of house) and the amount of credit card balance. If the respondent indicates not having any loan or credit card debt, a value of zero is assigned. Don't know, refused, or other missing responses of HwADEBT are assigned special missing codes .d, .r, .m respectively. HwADEBT is set to plain missing (.) for respondents who did not respond to this wave. Special missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

CHARLS asks the respondent an additional question in the Wave 2 questionnaire "What is the total amount of personal loan that you haven't repaid yet?"

Starting in Wave 4, CHARLS asks respondents for the value of bank loans taken out to purchase any homes of the respondent or spouse in a single question. In previous waves CHARLS asked the value of loans taken out on the primary residence and on any secondary residences separately. Correspondingly, in Waves 1 and 2 the value of the mortgage on the current residence was reported in Harmonized CHARLS in HHwAMORT and the value of mortgages on any secondary residences was incorporated in the Harmonized CHARLS in HHwARLES. Because the value of the mortgages for the primary and secondary residences cannot be broken out staring in Wave 4, the value of bank loans taken out to purchase any homes of the respondent or spouse is incorporated in HwADEBT in the Harmonized CHARLS.

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 4 Individual Income file. These missings affect HwADEBT.

Differences with the RAND 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 only includes credit card balances 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 4:
    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
```

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
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	12071	13949.10	103214.74	−2000000.00	3105500.00
H4ATOTFA	13122	31199.05	245956.92	−6499000.00	9902500.00

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:

Total value of non-housing financial wealth are asked in the individual asset section.

HwATOTFA is a total value of non-housing financial wealth of the respondent and spouse; that is, sum of cash and saving deposit, stocks and mutual funds, government bonds and all other saving minus the value of debt. Respondent and spouse are asked to report the amount of each item is held.

HwATOTFA is derived by adding the value of following items:

     1. Individual value of cash and saving accounts at the couple level

     2. Individual value of stocks and mutual funds at the couple level

     3. Individual value of government bonds at the couple level

     4. Individual value of all other savings at the couple level

And minus:

     1. Individual value of other debt at the couple level

HwATOTFA = (HwACHCK+ HwASTCK+ HwABOND+ HwAOTHR) − HwADEBT

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

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
    HC004         ARE YOU CURRENTLY HOLDING ANY DEPOSIT
    HC005         WHAT IS THE TOTAL AMOUNT OF DEPOSITS
    HC007         DO YOU HAVE ANY GOVERNMENT BONDS
    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
    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
    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
    HC005         amount of deposit
    HC007         goverment bonds
    HC007         goverment bonds
    HC008         face value of goverment bonds
    HC010         stocks
    HC010         stocks
    HC013         market value of stocks
    HC015         funds
    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
    HD012         receive assistance in answering
    HD012         receive assistance in answering
    HD012         receive assistance in answering
Wave 4:
    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         Goverment Bonds
    HC008         Face Value of Goverment 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
```

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

  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
H4ARLES	13217	26224.25	398842.75	0.00	30000000.00

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:

Net value of other real estate (not primary residence) is asked in the household asset section.

HHwARLES is the net value of other real estate at the household level; that is, the present market value of other real estate minus the mortgage of other real estate and it is only available in waves 1 and 2. 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.

HwARLES is the value of other real estate at the couple level; which is the present market value of other real estate and it is only available in Wave 4. It is reported at the couple level because only the respondent and spouse can be identified as the owners of other real estate. 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 in Wave 4.

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.

In 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.

Please note, starting in Wave 2, re-interview respondents are not asked how many other residences they own. Instead, they are asked how many new residences they obtained since the last wave. 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, starting in Wave 4, 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 in Wave 1 and Wave 2 are for any real estate owned by any household members, not just for the respondent and the spouse, and starting in Wave 4 the value of other real estate is only asked for real estate owned by the respondent and the spouse. Due to this, starting in Wave 4, there are many households with missing information for HHwARLES and these households have been given special missing .m.

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

Starting in the Wave 2 questionnaire, if the re-interviewed respondent indicates that the household did not obtain any new house in the past 2 years, then the value of other residences and the value of mortgage of other residences are not asked. Starting in the Wave 2 questionnaire, if the re-interviewed respondent indicates that the household did not obtain any new house since the last interview, then the value of other residences and the value of mortgage of other residences are not asked. If the respondent indicates that the household did obtain new houses since the last interview, only the values of those newly obtained other residences are asked.

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwARLES.

In Wave 4, the value of other real estate is asked at the couple level and not the household level, therefore it is not possible to create HHwARLES starting in Wave 4 because other real estate ownership can only be identified for the respondent and spouse. Also, the value of other real estate in Wave 4 does not net out the mortgage value of other real estate because the mortgage value for primary and secondary residences were asked in the same question in CHARLS, so it cannot be separated out. However, the mortgage value of secondary residences is included as part of HwADEBT. In addition to the changes above, the total value of other real estate from Wave 2 is not carried forward to Wave 4 (unless that value was 0) as the value from Wave 1 was carried forward to Wave 2 because the values elicited in Wave 1 and Wave 2 are asked for all household members, not just for the respondent and the spouse. Note that the CHARLS survey does include a question of

which members of the household owned what percentage of the other real estate so it should be possible to isolate just the value of other real estate belonging just to the respondent and the spouse but this variable is not included in the current Wave 1 data so these sort of feed-forwarding of values related to just to respondent and spouse is not currently possible.. Due to this, starting in Wave 4, there are many households with missing information for HHwARLES and these households have been given special missing .m for the time being.

Differences with the RAND 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 owed 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 4:
    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_
    HA034_2_1_       The Present Market Value of House: Unit Price
    HA034_2_2_       The Present Market Value of House: Unit Price
    HA051_1_        Construction Area (M2)
    HA051_2_        Construction Area (M2)
```

Household value of primary residence

```
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
  4  HH4AHOUSA     hh4ahousa:w4 Asset: HHold primary residence regardless of ow  Cont

  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
  4  HH4AHRTO      hh4ahrto:w4 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
  4  HH4AHOUS      hh4ahous:w4 Asset: HHold primary residence with % of ownersh   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

  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
HH4AHOUSA      15960    243012.33    1796629.95        0.00    80000000.00

HH1AHRTO       17226         0.88          0.31        0.00           1.00
HH2AHRTO       16881         0.87          0.32        0.00           1.00
HH4AHRTO       18950         0.82          0.36        0.00           1.00

HH1AHOUS       15657    166082.90    1410131.93        0.00   120000000.00
HH2AHOUS       13601    300315.60    3267699.33        0.00   192000000.00
HH4AHOUS       15908    241449.22    1798473.89        0.00    80000000.00

HH1AFHOUSAR    15672         0.00          0.09        0.00           2.00
HH2AFHOUSAR    13632         0.02          0.17        0.00           2.00

H4AHRTO        18950         0.70          0.42        0.00           1.00

H4AHOUS        15908    240497.02    1798270.38        0.00    80000000.00
```

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:

Value of primary residence questions are asked in the household asset section.

HHwAHOUSA is the value of the primary residence without the percentage of the ownership at the
household level. The financial respondent is asked to report the value of the primary residence,
regardless if the current residence is owned by any of the household members. Financial respondents
report the present market value of the current residence or the value of a similar house within the
same neighborhood; furthermore, there are two ways for respondent to report the value of primary
residence:

     1. Total price

     2. Price per square meter

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.

In Waves 1 and 2, if the total value of the primary residence is not reported, we then take the
price per square meter value times the size of the residence. There are some cases where both total
and per square meter values are reported. In this instance, we take the larger value if the house
is in urban area. If the house is in the rural area, we take the larger value if value is less than
1000 yuan and smaller value if value is greater than 10,000 yuan. If the respondent indicates the
current residence does not belong to any household members then HHwAHOUSA is assigned a value of
zero. There are also a number of cases were only the price per square meter is reported but the
size of the residence is not reported. For these cases the residence size is imputed. If the
respondent reports the size of the property but not the size of the residence then the size of the
residence is imputed by multiplying the size of the property by the mean ratio of residence size to
property size for all CHARLS respondents who reported both residence and property size. If the
respondent does not report either the size of the property or the size of residence, the size of
the residence is imputed using the mean residence size for the community as identified by
communityID. In Wave 4, we only take the total reported value of the primary residence to be part
of HHwAHOUSA because CHARLS has not released the value of the construction area of the house in the
Wave 4 data. In all waves, don't know, refused, or other missing responses of HHwAHOUSA are
assigned special missing codes .d, .r, .m respectively. HHwAHOUSA is set to plain missing (.) for
respondents who did not respond to this wave.

HHwAFHOUSAR is a flag variable which indicates whether HHwAHOUSA is derived using an imputed
residence size and is only available in Waves 1 and 2. A value of 0 indicates that HHwAHOUSA is
either not derived using price per square meter or is derived using price per square meter and the
reported size of the residence. A value of 1 indicates HHwAHOUSA is derived using the price per
square meter and an imputed value for residence size based on the reported size of the property. A
value of 2 indicates HHwAHOUSA is derived using the price per square meter and an imputed value for
residence size based on the mean residence size for the community as identified by communityID.

HHwAHRTO is the total percent of ownership for primary residence for all household members. The
primary residence might be owned by more than one person or by other households; in this case,
reporting the percentage of the ownership for the primary residence is informative and necessary.
If the respondent indicates the current residence does not belong to any household members then
HHwAHRTO is assigned a value of zero. Don't know, refused, or other missing responses of HHwAHRTO
are assigned special missing codes .d, .r, .m respectively. HHwAHRTO is set to plain missing (.)
for respondents who did not respond to this wave.

HwAHRTO is the total percent of ownership for primary residence for the respondent and their
spouse. This variable is only available in Wave 4. If the respondent indicates the current
residence does not belong to the respondent or spouse then HwAHRTO is assigned a value of zero.
Don't know, refused, or other missing responses of HwAHRTO are assigned special missing codes .d,
.r, .m respectively. HHwAHRTO is set to plain missing (.) for respondents who did not respond to
this wave.

HHwAHOUS is the value of primary residence with the percentage of the ownership at the household level. It is the value of HHwAHOUSA multiplied by HHwAHRTO. If the respondent indicates the current residence does not belong to any household members then HHwAHOUS is assigned a value of zero. Don't know, refused, or other missing responses of HHwAHOUS are assigned special missing codes .d, .r, .m respectively. HHwAHOUS is set to plain missing (.) for respondents who did not respond to this wave.

HwAHOUS is the value of primary residence with the percentage of the ownership at the couple level. It is the value of HwAHOUSA multiplied by HwAHRTO. This variable is only available in Wave 4. If the respondent indicates the current residence does not belong to the respondent or spouse then HwAHOUS is assigned a value of zero. Don't know, refused, or other missing responses of HwAHOUS are assigned special missing codes .d, .r, .m respectively. HwAHOUS 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 completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwAHOUSA, HHwAHRTO, and HHwAHOUS.

In Wave 4, the household level value of primary residence regardless of ownership (HHwAHOUSA), the percentage of ownship for primary residence (HHwAHRTO), and the value of primary residence with % of ownership (HHwAHOUS), are calculated to provide longitudinal information. However, the aforementioned variables are not entirely comparable in Wave 4 to previous waves because it does not factor in the total value of the residence using a per unit basis because the CHARLS has not released the value of the construction area of the primary residence in the Wave 4 data even though the construction area of the primary residence is part of the CHARLS Wave 4 survey. And because we do not impute the value of the primary residence in Wave 4, there are no labels for whether or not the total value of the house (HHwAHOUSA) is imputed using residence size (HHwAFHOUSAR). All primary residence values for the primary residence in Wave 4 come from the total price of the primary residence, not the per meter price.

In Wave 4, we include couple level values of the percentage of ownership for primary residence (HwAHRTO) and the value of primary residence with % of ownership (HwAHOUS) because the majority of the wealth components in Wave 4 are reported at the couple level. This allows us to create a couple level total wealth measure (HwATOTB).

Differences with the RAND 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            what is the construction area of your residence?
    I002            what is the total housing land area?
Wave 4:
    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
```

Household value of all mortgages for primary residence

```
Wave Variable      Label                                              Type

  1  HH1AMORT      hh1amort: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:

Value of all mortgages for primary residence are asked in the household asset section.

HHwAMORT is the value of the household's mortgage (primary residence) at the household level in waves 1 and 2; that is, the financial respondent reports the amount of bank loan that the household took out for financing the purchase, construct or decorate on the house that the household owns. HHwAMORT is not available in wave 4 because the value of mortages for the primary and secondary residences are asked in the same question in wave 4 and cannot be separated out.

The mortgage value is only asked if the financial respondent indicates that the current residence is fully owned by household members. If the respondent indicates that does not have any mortgage, HHwAMORT is assigned a value of zero. If a respondent indicates having a mortgage; the reported amount of total value is assigned. If the respondent indicates the current residence does not belong to any household members then HHwAMORT is assigned a value of zero. Don't know, refused, or other missing responses of HHwAMORT are assigned special missing codes .d, .r, .m respectively. HHwAMORT 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 completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwAMORT.

In Wave 4, the value of the mortgage on the primary residence (HHwAMORT) is not available because the total value of mortgages is asked for both primary and secondary residences in the same question; which does not allow the mortgage for the primary and secondary residence to be separated out. However, this amount is included as part of HwADEBT in Wave 4.

Differences with the RAND 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      hh1atoth: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:

The net value of the primary residence is asked in the household asset section.

In waves 1 and 2, HHwATOTH is the net value of the primary residence and is calculated as the value of the primary residence minus the value of all mortgages for the primary residence:

HHwATOTH = HHwAHOUS - HHwAMORT

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

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" 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
    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
    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              what is the construction area of your residence?
    I002              what is the total housing land area?
```

Household value of vehicles

Wave	Variable	Label	Type
1	HH1ATRAN	hh1atran:w1 Asset: HHold value of transportation	Cont
2	HH2ATRAN	hh2atran:w2 Asset: HHold 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
H4ATRAN	20338	9561.01	52945.53	0.00	2716700.00

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:

Value of vehicles is asked in household assets section.

HHwATRAN is the value of vehicles at the household level in waves 1 and 2, and it is asked in the CHARLS survey at the household level in waves 1 and 2.

HwATRAN is the value of vehicles at the couple level in wave 4, and it is asked in the CHARLS survey at the couple level in wave 4.

The total value of vehicles includes automobiles, electric bicycles, and motorcycles.

For HHwATRAN and HwATRAN, financial respondents report the current value of each of the following vehicles, and are derived by adding the value of the following items:

     1. Automobile

     2. Electric bicycle

     3. Motorcycle

In waves 1 and 2, if the respondent indicates that the household does not have any vehicles, HHwATRAN is assigned a value of zero. If a respondent indicates that the household has any vehicle; the reported amount of retained value is assigned to HHwATRAN. Don't know, refused, or other missing responses of HHwATRAN is assigned special missing codes .d, .r, .m respectively. HHwATRAN is set to plain missing (.) for respondents who did not respond to this wave.

In wave 4, if the respondent indicates that not having any vehicles, HwATRAN is assigned a value of zero. If a respondent indicates having a vehicle; the reported amount of retained value is assigned to HwATRAN. Don't know, refused, or other missing responses of HwATRAN are assigned special missing

codes .d, .r, .m respectively. HwATRAN 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 completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwATRAN.

In Wave 4, the value of transportation vehicles is asked at the couple level in the CHARLS survey. Therefore, we create couple level value (HwATRAN) instead of a household level value (HHwATRAN) in Wave 4.

Differences with the RAND HRS

Value of vehicle 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 automobile and it also includes the value of electric bicycle and motorcycle.

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 4:
    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
```

Household value of non-financial asset (consumer durable asset)

```
Wave Variable      Label                                                        Type

  1  HH1ADURBL     hh1adurbl:w1 Assets: hh consumer durable assets              Cont
  2  HH2ADURBL     hh2adurbl:w2 Assets: hh 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

H4ADURBL        20338     5538.14     17201.12         0.00     739500.00
```

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:

```
Value of non-financial assets (consumer durable assets) is asked in the household asset section.

HHwADURBL is the value of non-financial assets at the household level in Waves 1 and 2, and it is
asked in the CHARLS survey at the household level in Waves 1 and 2.

HwADURBL is the value of non-financial assets at the couple level in Wave 4, and it is asked in the
CHARLS survey at the couple level in Wave 4.

Non-financial assets include the value of the refrigerator, washing machine, TV, computer, stereo
system, camera, air conditioner, mobile phone, furniture, music instrument, valuable decorations,
ornaments and vases treasures and precious metal and antique, value painting and calligraphic work
and other artistic work.

For HHwADURBL and HwADURBL, financial respondents are asked to report the current value of
following items and their values are derived by adding the value of following items:
```

```
        1. Refrigerator

        2. Washing machine

        3. TV

        4. Computer

        5. Stereo system

        6. Camera

        7. Air conditioner
```

     8. Mobile phone

     9. Furniture

     10. Music instrument

     11. Valuable decorations, ornaments, and vases

     12. Treasures and precious metal

     13. Antiques, valuable paintings and calligraphic work and other artistic work

In Waves 1 and 2, if the respondent indicates that the household does not own these non-financial assets, HHwADURBL is assigned a value of zero. If a financial respondent indicates that the household owns these non-financial assets, the reported total retained value of these assets is assigned to HHwADURBL. Don't know, refused, or other missing responses of HHwADURBL are assigned special missing codes .d, .r, .m respectively. HHwADURBL is set to plain missing (.) for respondents who did not respond to this wave.

In Wave 4, if the respondent indicates that the respondent or spouse does not own these non-financial assets, HwADURBL is assigned a value of zero. If a financial respondent indicates that the respondent or spouse owns these non-financial assets, the reported total retained value of these assets is assigned to HwADURBL. Don't know, refused, or other missing responses of HwADURBL are assigned special missing codes .d, .r, .m respectively. HwADURBL 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 completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwADURBL.

In Wave 4, the values of non-financial assets are asked at the couple level in the CHARLS survey. Therefore, we create couple level value (HwADURBL) instead of a household level value (HHwADURBL) in Wave 4.

Differences with the RAND 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
    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:
    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
    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
```

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

  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
H4AFIXC	20103	18226.32	806379.35	0.00	80010496.00

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:

Value of fixed capital assets are asked in the household asset section.

HHwAFIXC is the value of fixed capital assets at the household level in Waves 1 and 2, and it is asked in the CHARLS survey at the household level in Waves 1 and 2.

HwAFIXC is the value of fixed capital assets at the couple level in Wave 4, and it is asked in the CHARLS survey at the couple level in Wave 4.

The total value of fixed capital assets includes tractor, thresher, tractor tools, water pump, processing equipment, fixed capital used in household production or self-employment activities, and other durable or fixed assets worth 500 yuan and more. Financial respondents are asked to report the value of each of the following item has retained.

For HHwAFIXC and HwAFIXC, financial respondents report the current value of each of the following assets, and are derived by adding the value of the following items:

    1. Value of tractor

    2. Value of thresher

    3. Value of tractor tools

    4. Value of water pump

    5. Value of processing equipment

    6. Current value of fixed capital used in household production or self-employment activities

    7. Value of other durable or fixed assets worth 500 yuan and more

In Waves 1 and 2, if the respondent indicates that not having any fixed capital assets, HHwAFIXC is assigned a value of zero. If a financial respondent indicates that the household owns these fixed capital assets, the reported total value of these assets is assigned to HHwAFIXC. Don't know, refused, or other missing responses of HHwAFIXC is assigned special missing codes .d, .r, .m respectively. HHwAFIXC is set to plain missing (.) for respondents who did not respond to this wave.

In Wave 4, if the respondent indicates that not having any fixed capital assets, HwAFIXC is assigned a value of zero. If a financial respondent indicates that the respondent or spouse owns these fixed capital assets, the reported total value of these assets is assigned to HwAFIXC. Don't know, refused, or other missing responses of HwAFIXC is assigned special missing codes .d, .r, .m respectively. HwAFIXC 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 completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwAFIXC.

In Wave 4, the value of fixed capital assets is asked at the couple level in the CHARLS survey. Therefore, we create couple level value (HwAFIXC) instead of a household level value (HHwAFIXC) in Wave 4.

Differences with the RAND HRS

This variable is 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 4:
    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 of Fixed Assets
```

<div style="border:1px solid">

Household value of irrigable land

</div>

```
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

  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

H4ALAND        20328     2300.01     43720.21        0.00     4080000.00
```

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:

Value of irrigable land are asked in the household asset section.

HHwALAND is the value of the irrigable land at the household level in Waves 1 and 2, and it is asked in the CHARLS survey at the household level in Waves 1 and 2.

HwALAND is the value of the irrigable land at the couple level in Wave 4, and it is asked in the CHARLS survey at the couple level in Wave 4.

The total value of irrigable land includes the rent of cultivated land, forest land, pasture, and pond if the land is rented out. Financial respondents are asked to report the value of the annual rent per mu per year would get if they rented it out. The respondents can also report the amount of mu that the household has for HHwALAND, and the amount of mu that the respondent and spouse has for HwALAND. In this case, the value of the irrigable land is the reported possible rent per mu per year times the area of land.

HHwALAND and HwALAND are derived by adding the value of the following items:

       1. Rent for cultivated land

       2. Rent for forest land

       3. Rent for pasture

       4. Rent for pond

In Waves 1 and 2, if the respondent indicates that the household does not own any irrigable land, HHwALAND is assigned a value of zero. Don't know, refused, or other missing responses of HHwALAND are assigned special missing codes .d, .r, .m respectively. HHwALAND is set to .i for responses

which are considered invalid. HHwALAND is set to plain missing (.) for respondents who did not respond to this wave.

In Wave 4, if the respondent indicates that the respondent or spouse does not own any irrigable land, HwALAND is assigned a value of zero. Don't know, refused, or other missing responses of HwALAND are assigned special missing codes .d, .r, .m respectively. HwALAND is set to .i for responses which are considered invalid. HwALAND is set to plain missing (.) for respondents who 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, we calculate the rent from the land based on what the value of the land would be if they rented it out, not the actual value of the land.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwALAND.

In Wave 4, the value of irrigable land is asked at the couple level in the CHARLS survey. Therefore, we create couple level value (HwALAND) instead of a household level value (HHwALAND) in Wave 4.

Differences with the RAND 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 4:
    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
```

Household value of livestock & fisheries

```
Wave Variable     Label                                                Type

  1  HH1AAGRI      hh1aagri:w1 Asset: Agricultural asset: HHold livestock & fis  Cont
  2  HH2AAGRI      hh2aagri:w2 Asset: Agricultural asset: HHold livestock & fis  Cont
  4  HH4AAGRI      hh4aagri:w4 Asset: Agricultural asset: HHold livestock & fis  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
HH4AAGRI	20205	1553.02	21633.65	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:

Value of livestock and fisheries are asked in the household asset section.

HHwAAGRI is the current value of all livestock (including chicken, duck, cattle, pig, sheep, etc) and aquatic life at the household level.

If a financial respondent indicates that the household grew livestock or aquatic life in the past year; the value of the livestock or aquatic life is reported and assigned to HHwAAGRI. If the respondent indicates that not having any livestock or fisheries, HHwAAGRI is assigned a value of zero. Don't know, refused, or other missing responses of HHwAAGRI are assigned special missing codes .d, .r, .m respectively. HHwAAGRI 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 completely missing information for the Household Agricultural Income and Expenditure section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwAAGRI.

In Wave 4, HHwAAGRI is not included as part of total household wealth (HwATOTB) because it is reported at the household level in the CHARLS survey. Total household wealth in Wave 4 is summarized in H_CHARLS at the couple level.

Differences with the RAND 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 4:
    GB001               Other Household Members Engage in Agricultural Work
    GB007               Grow Livestock or Aquatic Life
    GB008               Current Value of Livestock and Aquatic Life
```

Household value of personal loans

```
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

  4  H4ALEND       h4alend:w4 Asset: r+s total amount of personal loans lent   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
H4ALEND	19480	5752.87	96519.72	0.00	8000000.00
H4APLOAN	19480	5752.87	96519.72	0.00	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:

Value of monetary are asked in the household asset section.

HHwALEND is the amount of money that the household lent to other families or individual and had not been paid in the past year in Waves 1 and 2. If the respondent indicates not lending out money to other families or individual, HHwALEND is assigned a value of zero. There is one household in Wave 1 and one household in Wave 2 who reported a very large value for money lent to other families or individuals and those value are included in HH1ALEND and HH2ALEND.

HwALEND is the amount of money that the respondent and their spouse lent in the past year in Wave 4. If the respondent indicates not lending out money to other families or individual, HwALEND is assigned a value of zero. In Wave 4, the amount of money lent is reported the couple level in the CHARLS survey.

HHwABORR is the amount of loan that the household still owing to other families, individual or your work unit in Waves 1 and 2. In Wave 4, this is not asked in the CHARLS survey.

In Waves 1 and 2, don't know, refused, or other missing responses of HHwALEND or HHwABORR are assigned special missing codes .d, .r, .m respectively. HHwALEND or HHwABORR are set to plain missing (.) for respondents who did not respond to this wave.

In Wave 4, don't know, refused, or other missing responses of HwALEND are assigned special missing codes .d, .r, .m respectively. HwALEND is set to plain missing (.) for respondents who did not respond to this wave.

HHwAPLOAN is the net value of monetary assets in Waves 1 and 2. HHwAPLOAN = HHwALEND - HHwABORR.

HwAPLOAN is equal to HwALEND in Wave 4, which does not include the amount of loans owed.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 and Wave 4 Household Income file. These missings affect HHwALEND and HHwABORR.

In Wave 4, the amount of money lent is reported at the couple level in the CHARLS survey, so a couple level variable is created (HwALEND) instead of a household level one (HHwALEND) in Wave 4. Also, CHARLS did not ask in Wave 4 for the amount of loans borrowed by the entire household or the respondent/spouse. That is why the net value of monetary assets in Wave 4 (HwAPLOAN) is just equal to the value of money lent (HwALEND=HwAPLOAN) and doesn't net out borrowed amounts.

Differences with the RAND 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 4:
    HC039_W3       Amount of Funds Ramaining That Are Obligated Pay to Rota
    HC040_W3       Amount of Funds Ramaining That Are Obligated Pay to Rota
```

Other HH members' financial asset and debts

```
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      hh1afhhm:w1 Asset: net value of other HH members financial a   Cont
  2  HH2AFHHM      hh2afhhm: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:

Value of financial asset and debts that other household members have are asked in the household asset section.

CHARLS not only asks respondents and spouses about their financial situation, but also asks each of other household members about his/her financial situation.

HHwAFSST is the value of financial assets that other household members currently hold. The financial respondent reports the value of all financial assets (including cash, saving, stocks and funds) of each household member is holding. For households without any other household members beside the respondent and spouse, HHwAFSST is assigned a value of zero.

HHwAFLOA is the amount of debt that other household members have. The financial respondent reports the value of all outstanding (unpaid) loans from banks or financial institutions (not including mortgage) of each household member is owing. For households without any other household members beside the respondent and spouse, HHwAFLOA is assigned a value of zero.

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

HHwAFHHM is the net value of financial assets that other household members have. That is:

```
HHwAFHHM = HHwAFSST - HHwAFLOA.
```

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwAFSST and HHwAFLOA.

In Wave 4, HHwAFSST and HHwAFLOA are not available because the questions about the value of financial assets and debts for other household members are not asked in the CHARLS survey in Wave 4. Since we are missing both assets and debts for other household members in Wave 4, we cannot create a net value of financial assets for other household members (HHwAFHHM) in Wave 4.

Differences with the RAND 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]
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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]
```

Net value of non-housing financial wealth

```
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

  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      11187    20122.37    632392.30  -1948450.00  46007500.00

H4ATOTF       13090    36146.03    239690.97  -6499000.00   9902500.00
```

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 is the net value of non-housing financial wealth at household level in 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 that other household members have.

3. HHwAPLOAN is the net value of monetary assets.

HHwATOTF = HwATOTFA + HHwAFHHM + HHwAPLOAN

HwATOTF is the net value of non-housing financial wealth at the couple level in Wave 4.

HwATOTF is derived by adding the following items:

1. HwATOTFA is the total individual financial assets at the couple level.

2. HwAPLOAN is the value of monetary assets.

HwATOTF = HwATOTFA + 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.

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

In Waves 1 and 2, HHwATOTF does not include the value of loans on the primary residence or other real estate. Starting in Wave 4, HwATOTF does include the value of loans on the primary residence or other real estate, so starting in Wave 4 does include some aspects of housing wealth.

Differences with the RAND 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:

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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
    HC005           WHAT IS THE TOTAL AMOUNT OF DEPOSITS
    HC007           DO YOU HAVE ANY GOVERNMENT BONDS
    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
    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
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    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
    PROXY              interview done by proxy
Wave 2:
    BE001              martial 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
    HC005              amount of deposit
    HC007              goverment bonds
    HC007              goverment bonds
    HC008              face value of goverment bonds
    HC010              stocks
    HC010              stocks
    HC013              market value of stocks
    HC015              funds
    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
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    HD012           receive assistance in answering
    HD012           receive assistance in answering
    HD012           receive assistance in answering
Wave 4:
    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           Goverment Bonds
    HC008           Face Value of Goverment 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 Ramaining That Are Obligated Pay to Rota
    HC040_W3        Amount of Funds Ramaining That Are Obligated Pay to Rota
    HD001           Amount of Unpaid Loan
    HD003           Credit Card Balance
```

Total Wealth

```
Wave Variable      Label                                                   Type

  1  HH1ATOTB      hh1atotb:w1 Asset: HHold total wealth                   Cont
  2  HH2ATOTB      hh2atotb:w2 Asset: HHold total wealth                   Cont

  4  H4ATOTB       h4atotb:w4 Asset: r+s total wealth                      Cont
```

Descriptive Statistics

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Variable         N         Mean       Std Dev       Minimum       Maximum

HH1ATOTB       12486    163917.49     971987.89    -1072080.00   40754800.00
HH2ATOTB        8089    314563.77    2744430.56    -2171500.00  108004064.00

H4ATOTB         6895    269829.40    1331670.53     -779810.00   50013000.00
```

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 is the sum of all financial assets at the household level for Waves 1 and 2.

HHwATOTB is derived by adding the following items:

    1. Individual value of cash and saving accounts at the couple level

    2. Individual value of stocks and mutual funds at the couple level

    3. Individual value of government bonds at the couple level

    4. Individual value of all other savings at the couple level

    5. Household net value of other house

    6. Household value of primary residence

    7. Household value of vehicles

    8. Household value of non-financial asset

    9. Household value of fixed capital asset

    10. Household value of irrigable land

    11. Household value of agricultural asset (livestock and fisheries)

    12. Household net value of personal loans

    13. Other household members' financial asset and debts

And minus the following items:

    1. Individual value of other debt at the couple level

    2. Household value of mortgage of primary residence

HHwATOTB = HwACHCK + HwASTCK + HwABOND + HwAOTHR + HHwARLES + HHwAHOUS + HHwATRAN + HHwADURBL +
HHwAFIXC + HHwALAND + HHwAAGRI + HHwAPLOAN + HHwAFHHM – HwADEBT – HHwAMORT

HwATOTB is the sum of all financial assets at the couple level for Wave 4.

HwATOTB is derived by adding the following items:

    1. Individual value of cash and saving accounts at the couple level

    2. Individual value of stocks and mutual funds at the couple level

    3. Individual value of government bonds at the couple level

    4. Individual value of all other savings at the couple level

    5. Couple value of other house

    6. Couple value of primary residence

    7. Couple value of vehicles

    8. Couple value of non-financial asset

    9. Couple value of fixed capital asset

    10. Couple value of irrigable land

    11. Household value of agricultural asset (livestock and fisheries)

    12. Couple value of personal loans

And minus the following item:

    1. Individual value of other debt at the couple level

HwATOTB = HwACHCK + HwASTCK + HwABOND + HwAOTHR + HwARLES + HwAHOUS + HwATRAN + HwADURBL + HwAFIXC
+ HwALAND + HHwAAGRI + HwAPLOAN – HwADEBT

Note that, even though all other components of HwATOTB are couple level, HwATOTB does include the
Household value of agricultural asset (livestock and fisheries) because CHARLS continued to ask
this question at the household level in Wave 4 and did not ask any follow up questions which could
be used to determine what percentage of this value could be assigned to just the respondent and
spouse.

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave
differences.

In Wave 1 and Wave 2, CHARLS asks wealth questions generally at the household-level (for all
household members) and the totals of these values are captured in HHwATOTB. Starting in Wave 4,
CHARLS asks most wealth questions at the couple level (respondent and spouse) and the totals of
these values are captured in HwATOTB.

Differences with the RAND 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
    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
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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
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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
HC004           ARE YOU CURRENTLY HOLDING ANY DEPOSIT
HC005           WHAT IS THE TOTAL AMOUNT OF DEPOSITS
HC007           DO YOU HAVE ANY GOVERNMENT BONDS
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
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
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
HA027           other residential properties
HA028           the number of other 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
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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
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
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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
HC005           amount of deposit
HC007           goverment bonds
HC007           goverment bonds
HC008           face value of goverment bonds
HC010           stocks
HC010           stocks
HC013           market value of stocks
HC015           funds
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
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    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
    HD012              receive assistance in answering
    HD012              receive assistance in answering
    HD012              receive assistance in answering
    I001               what is the construction area of your residence?
    I002               what is the total housing land area?
    URBAN_NBS
    XRTYPE             r interview type
Wave 4:
    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_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_
    HA034_2_1_          The Present Market Value of House: Unit Price
    HA034_2_2_          The Present Market Value of House: Unit Price
    HA051_1_           Construction Area (M2)
    HA051_2_           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
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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
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
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             Goverment Bonds
HC008             Face Value of Goverment 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 Ramaining That Are Obligated Pay to Rota
HC040_W3          Amount of Funds Ramaining That Are Obligated Pay to Rota
HD001             Amount of Unpaid Loan
HD003             Credit Card Balance
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Section F: Income and Consumption

	Earned Income

Wave Variable   Label   Type

  1 R1ITEARN   r1itearn:w1 income: r earnings after tax   Cont
  2 R2ITEARN   r2itearn:w2 income: r earnings after tax   Cont
  4 R4ITEARN   r4itearn:w4 income: r earnings after tax   Cont

  1 S1ITEARN   s1itearn:w1 income: s earnings after tax   Cont
  2 S2ITEARN   s2itearn:w2 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	17491	4419.26	20998.54	0.00	2160000.00
R2ITEARN	18208	5187.56	15948.57	0.00	720000.00
R4ITEARN	19498	5379.67	15256.63	0.00	500000.00
S1ITEARN	14812	4817.73	22425.01	0.00	2160000.00
S2ITEARN	12840	4794.46	13921.65	0.00	300000.00
S4ITEARN	11824	3800.64	11997.59	0.00	500000.00
R1ISFTEARN	17491	0.36	0.71	0.00	2.00
R2ISFTEARN	18208	0.38	0.71	0.00	2.00
S1ISFTEARN	14812	0.39	0.73	0.00	2.00
S2ISFTEARN	15334	0.40	0.72	0.00	2.00

How Constructed:

Respondents are asked to report their past year wages and bonus income in both the income module and the work module.

In the income module, respondents were asked to report their wages and bonus income in the past year. 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 were assigned a value of 0. Respondents can report wage and bonus income in two ways: annually or monthly in Waves 1 and 2, and annually in Wave 4. The amount of income in the income module is derived from first using the reported annual amount. If the annual amount is missing, then the amount is based on use the monthly amount times 12.

In the work module in Waves 1 and 2, respondents were asked to report their wages from agricultural work, non-agricultural job, side job, and all other bonuses. 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 for the variable is calculated using the number of months the respondent reported working at their main job in the last year. Starting in Wave 4 CHARLS no longer asks agricultural-activities income in the work module.

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 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, RwITEARN is the maximum value of a respondent's earnings from either income module or work module. Starting in Wave 4, earnings income is only asked in the income module and RwITEARN is this value.

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

SwITEARN is taken directly from the spouse's value to RwITEARN. 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 RwITEARN 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 RwITEARN came from the income module. A value of 2 indicates the value of RwITEARN came from the work module.

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

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.

In Wave 4, earnings income from the work module is not used because starting in Wave 4 CHARLS no longer asks agricultural-activities income in the work module. So for RwITEARN and SwITEARN, all earnings in Wave 4 are taken from the income module. And for this reason, there is no income source flag for RwISFTEARN and SwISFTEARN in Wave 4.

Differences with the RAND 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, RwITEARN in 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, RwIEARN 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 d
FC004	How many months did you work on [¡] in wage for other f
FC007	What is the average monthly wage did you get in the last
FC019	DO YOU CURRENTLY HAVE MORE THAN ONE JOB
FE001	HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
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

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    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
    FJ003              THE AVERAGE MONTHLY INCOME
    GA001              Did you receive any wage and bonus income in the past ye
    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               preload variable
    ZF14               preload variable
Wave 4:
    GA001              Received Wage Last Year
    GA002              Received Amount of Income
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Total Capital Income

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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
  4  R4ITSEMP       r4itsemp:w4 income: r self-employment after tax                Cont

  1  S1ITSEMP       s1itsemp:w1 income: s self-employment after tax                Cont
  2  S2ITSEMP       s2itsemp:w2 income: s self-employment after tax                Cont
  4  S4ITSEMP       s4itsemp:w4 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
  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 non-financial income before tax      Cont
  2  HH2IRENT       hh2irent:w2 income: hhold non-financial income before tax      Cont
  4  HH4IRENT       hh4irent:w4 income: hhold non-financial income before tax      Cont

  1  HH1ICAP        hh1icap:w1 income: hhold total capital income                  Cont
  2  HH2ICAP        hh2icap:w2 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	17443	804.77	10965.36	0.00	1000000.00
R2ITSEMP	17949	936.89	11375.48	0.00	1000000.00
R4ITSEMP	20358	1425.11	17561.17	0.00	1450000.00
S1ITSEMP	14770	825.31	11346.11	0.00	1000000.00
S2ITSEMP	15146	1040.13	11903.16	0.00	1000000.00
S4ITSEMP	17225	1571.99	18766.88	0.00	1450000.00
HH1ITSEMP	16738	4181.99	17769.53	-540000.00	600000.00
HH2ITSEMP	16776	3361.67	43651.40	-2997300.00	1340000.00
HH4ITSEMP	19514	3166.95	44030.45	-2000000.00	3000000.00
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
HH4IRENT	20220	933.57	6714.34	0.00	240000.00
HH1ICAP	15898	5451.30	36621.12	-2000000.00	1200000.00
HH2ICAP	13589	6467.51	39007.32	-790700.00	1641000.00
HH4ICAP	18061	6639.64	50170.17	-1785000.00	3002400.00

How Constructed:

RwITSEMP is the respondent's after tax net income earned from self-employed activity in the last year. 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.

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. 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 and others

      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. In 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 in 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 4, 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 set to plain missing (.) for respondents who did not respond to this wave.

HHwIRENT is the household rental income from non-financial assets. 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.

HHwICAP = RwITSEMP + SwITSEMP + HHwITSEMP + RwITREST + SwITREST + HHwITREST + HHwIRENT in Waves 1 and 2.

HHwICAP = RwITSEMP + SwITSEMP + HHwITSEMP + HHwIRENT in 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.

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 4 Individual Income and the Wave 2 and Wave 4 Household Income files.

In 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 in 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 in Wave 4, CHARLS no longer asks questions about financial asset income. Due to this RwITREST, SwITREST are not created after Wave 2. Also starting in Wave 4, 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 in Wave 4, 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.

Differences with the RAND 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:
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    FC001         Did you work for other famers in wage for at least ten d
    FC004         How many months did you work on [¡] in wage for other f
    FC007         What is the average monthly wage did you get in the last
    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_1
    FF014         the value of all other bonuses
    FH009         DID ANY OTHER HOUSEHOLD MEMBERS WORK IN THE SAME SELF-EM
    FH010         ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE
    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 Y
    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
    GB010         HOW MUCH DID YOU SPEND PURCHASING NEW LIVESTOCK AND AQUA
    GB011         THE VALUE OF ALL LIVESTOCK AND AQUATIC LIFE THAT WERE SO
    GB012         THE VALUE OF ALL LIVESTOCK PRODUCTS PRODUCED
    GB013         THE COST OF PRODUCING LIVESTOCK AND AQUATIC LIFE LAST YE
    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
    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
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    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
    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
    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
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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
GB003          engage in cropping or forestry
GB005_1        total value of crops and forestry
GB006          cost of crops and forestry
GB006          cost of crops and forestry
GB007          grow livestock or aquatic life
GB007          grow livestock or aquatic life
GB007          grow livestock or aquatic life
GB008          current value of livestock and aquatic life
GB008          current value of livestock and aquatic life
GB009          value of livestock and aquatic life of last year
GB009          value of livestock and aquatic life of last year
GB010          cost of purchasing new livestock and aquatic life
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
GB013          cost of producing livestock and aquatic life
GC001          household members engage in self-employed businesse
GC001          household members engage in self-employed businesse
GC002          number of participated small bussinesses
GC005_1_       income of the 1st self-employed business
GC005_1_       income of the 1st self-employed business
GC005_2_       income of the 2nd self-employed business
GC005_2_       income of the 2nd self-employed business
GC005_3_       income of the 3rd 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        income for renting out other assets
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
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    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 4:
    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 Businesse
    GC002           Number of Participated Small Bussinesses
    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)
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Pension Income

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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
  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
  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
  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
  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
  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
  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
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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
R4IPENA	19964	2263.94	9893.54	0.00	614400.00
S1IPENA	14419	2305.02	7553.80	0.00	84000.00
S2IPENA	15314	2780.76	8800.33	0.00	96000.00
S4IPENA	16943	2292.35	10166.78	0.00	614400.00
R1IPUBPEN	17186	467.68	2739.40	0.00	55000.00
R2IPUBPEN	17772	512.30	2343.19	0.00	108660.00
R4IPUBPEN	19151	644.27	2865.39	0.00	81600.00
S1IPUBPEN	14575	432.11	2597.74	0.00	55000.00
S2IPUBPEN	15103	478.79	2348.78	0.00	108660.00
S4IPUBPEN	16490	593.67	2760.69	0.00	81600.00
R1IPEN	17486	2957.07	9001.64	0.00	172800.00

R2IPEN	18201	3664.67	9669.68	0.00	276000.00
R4IPEN	18388	3029.74	10514.31	0.00	614400.00
S1IPEN	14820	2839.19	8835.15	0.00	172800.00
S2IPEN	12823	3453.68	9323.98	0.00	276000.00
S4IPEN	11017	3129.89	11257.42	0.00	614400.00
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

How Constructed:

In Wave 1 and 2 respondents are asked to report their past year pension income in both income module and work module. Starting in Wave 4, respondents are only asked to report tier past year pension income in the work module. These questions are asked to all respondents.

In the income module in Wave 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 RwIPENI. Respondents can report pension income in two ways: annually or monthly. RwIPENI is derived first using the reported annual amount. If the annual amount is missing, RwIPENI is based on the monthly amount times 12.

SwIPENI is taken directly from the spouse's value to RwIPENI. 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.

RwIPENA 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. RwIPENA 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

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. 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

Starting in 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

Starting in Wave 4 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

Respondents are then asked the month and the year they started to receive each pension they reported receiving and the monthly benefit amount.

In 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 in 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, for these respondents they 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 RwIPUBPEN is assigned special missing codes .d, .r, .m respectively. RwIPUBPEN is set to plain missing (.) for respondents who did not respond to this wave.

SwIPUBPEN is taken directly from the spouse's value to RwIPUBPEN. 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.

In 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 4, 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.

Starting in Wave 4, 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.

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

In Wave 1, the annual pension amounts both from the income section and from the work section. 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.

Starting in Wave 2, the annual pension amounts from all 12 pension sources. 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, for these respondents they are assumed to have received the reported monthly pension benefit amount for 12 months in the last year. The current Wave 2 CHARLS release does not include the month and year they started to receive another pension, so 12 months in the last year is assumed for respondents who reported an average monthly pension benefit amount for another pension.

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. These missings affect RwIPENI.

Starting in Wave 4, questions about pension income are no longer included in the income module. Due to this RwIPENI and SwIPENI are not created after Wave 2. So RwIPEN and SwIPEN are only equal to total pension income from the work module starting in Wave 4. Also, for this reason, there are no income sources flags RwISFPEN and SwISFPEN created after Wave 2.

Also different, starting in Wave 4, Rural pension income 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 work module so an annual amount of pension income is not able to be generated and is coded as .m missing. These missings affect RwIPENA, RwIPUBPEN, and RwIPEN.

Differences with the RAND 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
    FB011           PROCESSED RETIREMENT
    FM018_1         year
    FM018_1         year
    FM018_2         month
```

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     FM022               WHAT IS YOUR MONTHLY PENSION
     FM022               WHAT IS YOUR MONTHLY PENSION
     FM030_1             year
     FM030_1             year
     FM030_2             month
     FM034               What is your monthly pension?
     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
     FN007               WHAT IS YOUR MONTHLY BENEFITS
     FN012_1             year
     FN012_1             year
     FN012_2             month
     FN012_2             month
     FN013               HOW MUCH DO YOU RECEIVE NOW
     FN017_1             year
     FN017_1             year
     FN017_2             month
     FN017_2             month
     FN018               How much do you receive now?(per month)
     FN018               How much do you receive now?(per month)
     FN021_1             yaer
     FN021_1             yaer
     FN021_2             month
     FN021_2             month
     FN022               How much do you receive now?
     FN022               How much do you receive now?
     FN078_1             Year
     FN078_1             Year
     FN078_2             Month
     FN078_2             Month
     FN079               How much do you receive every month?  $Answer$ Yuan/ mon
     GA003S1             Show Card31  Did you receive any of the following types
     GA003S2             Show Card31  Did you receive any of the following types
     GA003S3             Show Card31  Did you receive any of the following types
     GA003S4             Show Card31  Did you receive any of the following types
     GA003S5             Show Card31  Did you receive any of the following types
     GA003S6             Show Card31  Did you receive any of the following types
     GA003S7             Show Card31  Did you receive any of the following types
     GA003S8             Show Card31  Did you receive any of the following types
     GA003S9             Show Card31  Did you receive any of the following types
     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 gover
     FN002_W2S2          are you currently receiving pension program of staffing
     FN002_W2S3          are you currently receiving pension insurance of the fir
     FN002_W2S4          are you currently receiving following pension?
     FN003_W2_1_1_       when did you start receiving pension benefits(year) corr
     FN003_W2_1_2_       when did you start receiving pension benefits(year) corr
     FN003_W2_1_3_       when did you start receiving pension benefits(year) corr
     FN003_W2_2_1_       when did you start receiving pension benefits(month) cor
     FN003_W2_2_2_       when did you start receiving pension benefits(month) cor
     FN003_W2_2_3_       when did you start receiving pension benefits(month) cor
     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
```

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    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 4:
    FB011            Completed Retirement Procedures or Internal Retirement
    FB012            Completed Receding Position Procedures
    FN002_W2S1       Are You Currently Receiving Pension Program of The Gover
    FN002_W2S2       Are You Currently Receiving Pension Program of Staffing
    FN002_W2S3       Are You Currently Receiving Pension Insurance of The Fir
    FN003_W2_1_1_    When Did You Start Receiving Governments' Pension Benefi
    FN003_W2_1_2_    When Did You Start Receiving Government Affiliated Insti
    FN003_W2_1_3_    When Did You Start Receiving Firms' Pension Benefits(Yea
    FN003_W2_2_1_    When Did You Start Receiving Governments' Pension Benefi
    FN003_W2_2_2_    When Did You Start Receiving Government Affiliated Insti
    FN003_W2_2_3_    When Did You Start Receiving Firms' Pension Benefits(Mon
    FN005_W2_1_      Current Monthly Pension Corresponding to FN002_w2 Option
    FN005_W2_2_      Current Monthly Pension Corresponding to FN002_w2 Option
    FN005_W2_3_      Current Monthly Pension Corresponding to FN002_w2 Option
    FN030_W2         Are You Currently Participating/Receiving Supplement Pen
    FN041_W2_1       When Did You Start to Receive Supplement Pension Benefit
    FN041_W2_2       When Did You Start to Receive Supplement Pension Benefit
    FN042_W2         Monthly Benefits
    FN043_W2         Are You Currently Participating/Receiving Commercial Pen
    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
    FN067_W2_1_2_    When Did You Start to Receive This Pension Benefits(Year
    FN067_W2_1_3_    When Did You Start to Receive This Pension Benefits(Year
    FN067_W2_2_1_    When Did You Start to Receive This Pension Benefits(Mont
    FN067_W2_2_2_    When Did You Start to Receive This Pension Benefits(Mont
    FN067_W2_2_3_    When Did You Start to Receive This Pension Benefits(Mont
    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 Pensio
    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(Mont
    FN096_W2         How Much Do You Receive Now
```

Government/Public Transfer Income

```
Wave Variable       Label                                                          Type

  1  HH1IGXFRI       hh1igxfri:w1 income: hhold government transfer income          Cont
  2  HH2IGXFRI       hh2igxfri:w2 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
  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
  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
  4  HH4IGXFR        hh4igxfr:w4 income: hhold government/public transfer income     Cont
```

Descriptive Statistics

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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
HH4IGXFRI       16481       252.93       1425.10         0.00        60000.00

HH1IGXFRH       17139       473.03       1025.17         0.00        20000.00
HH2IGXFRH       17142       566.61       1329.82         0.00        32000.00
HH4IGXFRH       19729       664.54      10249.15         0.00      1000000.00

HH1IGXFRT       17401       543.64       9590.86         0.00       600000.00
HH2IGXFRT       17664       868.58      19521.04         0.00      1600000.00
HH4IGXFRT       20276      2287.85      53901.87         0.00      4000000.00

HH1IGXFR        16306      1183.01       9936.46         0.00       600000.00
HH2IGXFR        14317      1804.57      21667.16         0.00      1600000.00
HH4IGXFR        16022      3020.52      53334.41         0.00      4000000.00
```

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. The financial respondents report whether him/herself, their spouse, or all other household members receive any government transfer income from the following subsides:

    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 subsides

    5. Medical aid

    6. Other government subsidies

    7. Social assistance

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.

A financial respondent reports other government transfer income for the household from the following subsidies:

    1. Dibao

    2. Subsidy from reforestation

    3. Agricultural subsides

    4. Wubaohu

    5. Tekunhu

    6. Work injury subsidies to the immediate family members

    7. Emergency or disaster relief (jiujikuan, jiuzaikuan)

    8. Other subsides

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. Respondents can report household other government transfer income in two ways: annually or monthly. HHwIGXFRH is derived first using the reported annual amount. If the annual amount is missing, HHwIGXFRH is based on the monthly amount times 12. 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. In Waves 1 and 2 respondents can report other public transfer income in two ways: annually or monthly. Starting in Wave 4, 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 CHARLS data there is a high number of individuals with completely missing information in the Wave 2 and Wave 4 Individual Income file. 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 and Wave 4 Household Income file. These missings affect HHwIGXFRI, HHwIGXFRH and HHwIGXFRT.

In the current release of the Wave 4 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 4 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 so households with these missing information have been assigned .m. These missings affect HHwIGXFRI and HHwIGXFR in Wave 4.

Starting in Wave 4, respondents only report public transfer income (HHwIGXFRT) annually.

Differences with the RAND 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
GA003S2	Show Card31	Did you receive any of the following types
GA003S2	Show Card31	Did you receive any of the following types
GA003S3	Show Card31	Did you receive any of the following types
GA003S3	Show Card31	Did you receive any of the following types
GA003S4	Show Card31	Did you receive any of the following types
GA003S4	Show Card31	Did you receive any of the following types
GA003S5	Show Card31	Did you receive any of the following types
GA003S5	Show Card31	Did you receive any of the following types
GA003S6	Show Card31	Did you receive any of the following types
GA003S6	Show Card31	Did you receive any of the following types
GA003S7	Show Card31	Did you receive any of the following types
GA003S7	Show Card31	Did you receive any of the following types
GA003S8	Show Card31	Did you receive any of the following types
GA003S8	Show Card31	Did you receive any of the following types
GA004_1_2_	Yuan/Year	
GA004_1_2_	Yuan/Year	
GA004_1_3_	Yuan/Year	
GA004_1_3_	Yuan/Year	
GA004_1_4_	Yuan/Year	
GA004_1_4_	Yuan/Year	
GA004_1_5_	Yuan/Year	
GA004_1_5_	Yuan/Year	
GA004_1_6_	Yuan/Year	
GA004_1_6_	Yuan/Year	
GA004_1_7_	Yuan/Year	
GA004_1_7_	Yuan/Year	
GA004_1_8_	Yuan/Year	
GA004_1_8_	Yuan/Year	
GA004_2_2_	Yuan/Month	
GA004_2_2_	Yuan/Month	
GA004_2_3_	Yuan/Month	
GA004_2_3_	Yuan/Month	
GA004_2_4_	Yuan/Month	
GA004_2_4_	Yuan/Month	

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GA004_2_5_      Yuan/Month
GA004_2_5_      Yuan/Month
GA004_2_6_      Yuan/Month
GA004_2_6_      Yuan/Month
GA004_2_7_      Yuan/Month
GA004_2_7_      Yuan/Month
GA004_2_8_      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
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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
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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 s
GA007_10_S6    household member [10] receives medical aid
GA007_10_S7    household member [10] receives other government subsidie
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 s
GA007_11_S6    household member [11] receives medical aid
GA007_11_S7    household member [11] receives other government subsidie
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 s
GA007_12_S6    household member [12] receives medical aid
GA007_12_S7    household member [12] receives other government subsidie
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 su
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
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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 su
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 su
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 su
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 su
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 su
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 su
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 su
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
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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 su
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]: amou
GA008_2B_11_    unemployment compensation of household member [11]: amou
GA008_2B_12_    unemployment compensation of household member [12]: amou
GA008_2B_1_     unemployment compensation of household member [1]: amoun
GA008_2B_2_     unemployment compensation of household member [2]: amoun
GA008_2B_3_     unemployment compensation of household member [3]: amoun
GA008_2B_4_     unemployment compensation of household member [4]: amoun
GA008_2B_5_     unemployment compensation of household member [5]: amoun
GA008_2B_6_     unemployment compensation of household member [6]: amoun
GA008_2B_7_     unemployment compensation of household member [7]: amoun
GA008_2B_8_     unemployment compensation of household member [8]: amoun
GA008_2B_9_     unemployment compensation of household member [9]: amoun
GA008_2C_10_    unemployment compensation of household member [10]: amou
GA008_2C_11_    unemployment compensation of household member [11]: amou
GA008_2C_12_    unemployment compensation of household member [12]: amou
GA008_2C_1_     unemployment compensation of household member [1]: amoun
GA008_2C_2_     unemployment compensation of household member [2]: amoun
GA008_2C_3_     unemployment compensation of household member [3]: amoun
GA008_2C_4_     unemployment compensation of household member [4]: amoun
GA008_2C_5_     unemployment compensation of household member [5]: amoun
GA008_2C_6_     unemployment compensation of household member [6]: amoun
GA008_2C_7_     unemployment compensation of household member [7]: amoun
GA008_2C_8_     unemployment compensation of household member [8]: amoun
GA008_2C_9_     unemployment compensation of household member [9]: amoun
GA008_3B_10_    pension subsidy of household member [10]: amount by year
GA008_3B_11_    pension subsidy of household member [11]: amount by year
GA008_3B_12_    pension subsidy of household member [12]: 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 mont
GA008_3C_11_    pension subsidy of household member [11]: amount by mont
GA008_3C_12_    pension subsidy of household member [12]: amount by mont
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 b
GA008_4B_11_    worker's compensation of household member [11]: amount b
GA008_4B_12_    worker's compensation of household member [12]: amount b
GA008_4B_1_     worker's compensation of household member [1]: amount by
GA008_4B_2_     worker's compensation of household member [2]: amount by
GA008_4B_3_     worker's compensation of household member [3]: amount by
GA008_4B_4_     worker's compensation of household member [4]: amount by
GA008_4B_5_     worker's compensation of household member [5]: amount by
GA008_4B_6_     worker's compensation of household member [6]: amount by
GA008_4B_7_     worker's compensation of household member [7]: amount by
GA008_4B_8_     worker's compensation of household member [8]: amount by
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GA008_4B_9_    worker's compensation of household member [9]: amount by
GA008_4C_1_    worker's compensation of household member [1]: amount by
GA008_4C_2_    worker's compensation of household member [2]: amount by
GA008_4C_3_    worker's compensation of household member [3]: amount by
GA008_4C_4_    worker's compensation of household member [4]: amount by
GA008_4C_5_    worker's compensation of household member [5]: amount by
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 4:
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
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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 S
GA007_10_S6       Household Member [10] Receives Medical Aid
GA007_10_S7       Household Member [10] Receives Other Government Subsidie
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 Su
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 Su
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 Su
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 Su
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
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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 Su
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 Su
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 Su
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 Su
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 Su
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]: Amou
GA008_2B_1_    Unemployment Compensation of Household Member [1]: Amoun
GA008_2B_2_    Unemployment Compensation of Household Member [2]: Amoun
GA008_2B_3_    Unemployment Compensation of Household Member [3]: Amoun
GA008_2B_4_    Unemployment Compensation of Household Member [4]: Amoun
GA008_2B_5_    Unemployment Compensation of Household Member [5]: Amoun
GA008_2B_6_    Unemployment Compensation of Household Member [6]: Amoun
GA008_2B_7_    Unemployment Compensation of Household Member [7]: Amoun
GA008_2B_8_    Unemployment Compensation of Household Member [8]: Amoun
GA008_2B_9_    Unemployment Compensation of Household Member [9]: Amoun
GA008_2C_10_   Unemployment Compensation of Household Member [10]: Amou
GA008_2C_1_    Unemployment Compensation of Household Member [1]: Amoun
GA008_2C_2_    Unemployment Compensation of Household Member [2]: Amoun
GA008_2C_3_    Unemployment Compensation of Household Member [3]: Amoun
GA008_2C_4_    Unemployment Compensation of Household Member [4]: Amoun
GA008_2C_5_    Unemployment Compensation of Household Member [5]: Amoun
GA008_2C_6_    Unemployment Compensation of Household Member [6]: Amoun
GA008_2C_7_    Unemployment Compensation of Household Member [7]: Amoun
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GA008_2C_8_       Unemployment Compensation of Household Member [8]: Amoun
GA008_2C_9_       Unemployment Compensation of Household Member [9]: Amoun
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 Mont
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 b
GA008_4B_1_       Worker's Compensation of Household Member [1]: Amount by
GA008_4B_2_       Worker's Compensation of Household Member [2]: Amount by
GA008_4B_3_       Worker's Compensation of Household Member [3]: Amount by
GA008_4B_4_       Worker's Compensation of Household Member [4]: Amount by
GA008_4B_5_       Worker's Compensation of Household Member [5]: Amount by
GA008_4B_6_       Worker's Compensation of Household Member [6]: Amount by
GA008_4B_7_       Worker's Compensation of Household Member [7]: Amount by
GA008_4B_8_       Worker's Compensation of Household Member [8]: Amount by
GA008_4B_9_       Worker's Compensation of Household Member [9]: Amount by
GA008_4C_10_      Worker's Compensation of Household Member [10]: Amount b
GA008_4C_1_       Worker's Compensation of Household Member [1]: Amount by
GA008_4C_2_       Worker's Compensation of Household Member [2]: Amount by
GA008_4C_3_       Worker's Compensation of Household Member [3]: Amount by
GA008_4C_4_       Worker's Compensation of Household Member [4]: Amount by
GA008_4C_5_       Worker's Compensation of Household Member [5]: Amount by
GA008_4C_6_       Worker's Compensation of Household Member [6]: Amount by
GA008_4C_7_       Worker's Compensation of Household Member [7]: Amount by
GA008_4C_8_       Worker's Compensation of Household Member [8]: Amount by
GA008_4C_9_       Worker's Compensation of Household Member [9]: Amount by
GA008_5B_10_      Elderly Family Planning Subsidies of Household Member [1
GA008_5B_1_       Elderly Family Planning Subsidies of Household Member [1
GA008_5B_2_       Elderly Family Planning Subsidies of Household Member [2
GA008_5B_3_       Elderly Family Planning Subsidies of Household Member [3
GA008_5B_4_       Elderly Family Planning Subsidies of Household Member [4
GA008_5B_5_       Elderly Family Planning Subsidies of Household Member [5
GA008_5B_6_       Elderly Family Planning Subsidies of Household Member [6
GA008_5B_7_       Elderly Family Planning Subsidies of Household Member [7
GA008_5B_8_       Elderly Family Planning Subsidies of Household Member [8
GA008_5B_9_       Elderly Family Planning Subsidies of Household Member [9
GA008_5C_10_      Elderly Family Planning Subsidies of Household Member [1
GA008_5C_1_       Elderly Family Planning Subsidies of Household Member [1
GA008_5C_2_       Elderly Family Planning Subsidies of Household Member [2
GA008_5C_3_       Elderly Family Planning Subsidies of Household Member [3
GA008_5C_4_       Elderly Family Planning Subsidies of Household Member [4
GA008_5C_5_       Elderly Family Planning Subsidies of Household Member [5
GA008_5C_6_       Elderly Family Planning Subsidies of Household Member [6
GA008_5C_7_       Elderly Family Planning Subsidies of Household Member [7
GA008_5C_8_       Elderly Family Planning Subsidies of Household Member [8
GA008_5C_9_       Elderly Family Planning Subsidies of Household Member [9
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
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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]: Amo
GA008_7B_1_	Other Government Subsidies of Household Member [1]: Amou
GA008_7B_2_	Other Government Subsidies of Household Member [2]: Amou
GA008_7B_3_	Other Government Subsidies of Household Member [3]: Amou
GA008_7B_4_	Other Government Subsidies of Household Member [4]: Amou
GA008_7B_5_	Other Government Subsidies of Household Member [5]: Amou
GA008_7B_6_	Other Government Subsidies of Household Member [6]: Amou
GA008_7B_7_	Other Government Subsidies of Household Member [7]: Amou
GA008_7B_8_	Other Government Subsidies of Household Member [8]: Amou
GA008_7B_9_	Other Government Subsidies of Household Member [9]: Amou
GA008_7C_10_	Other Government Subsidies of Household Member [10]: Amo
GA008_7C_1_	Other Government Subsidies of Household Member [1]: Amou
GA008_7C_2_	Other Government Subsidies of Household Member [2]: Amou
GA008_7C_3_	Other Government Subsidies of Household Member [3]: Amou
GA008_7C_4_	Other Government Subsidies of Household Member [4]: Amou
GA008_7C_5_	Other Government Subsidies of Household Member [5]: Amou
GA008_7C_6_	Other Government Subsidies of Household Member [6]: Amou
GA008_7C_7_	Other Government Subsidies of Household Member [7]: Amou
GA008_7C_8_	Other Government Subsidies of Household Member [8]: Amou
GA008_7C_9_	Other Government Subsidies of Household Member [9]: Amou
GA008_8C	Yuan/Month
GA008_8C_1_	Social Assistance of Household Member [1]: Amount by Mon
GA008_8C_2_	Social Assistance of Household Member [2]: Amount by Mon
GA008_8C_3_	Social Assistance of Household Member [3]: Amount by Mon
GA008_8C_4_	Social Assistance of Household Member [4]: Amount by Mon
GA008_8C_5_	Social Assistance of Household Member [5]: Amount by Mon
GA008_8C_6_	Social Assistance of Household Member [6]: Amount by Mon
GA008_8C_7_	Social Assistance of Household Member [7]: Amount by Mon

Other Income

```
Wave Variable      Label                                                    Type

  1  R1IOTHR       r1iothr:w1 income: r other income                        Cont
  2  R2IOTHR       r2iothr:w2 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
  4  S4IOTHR       s4iothr:w4 income: s other income                        Cont
```

Descriptive Statistics

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Variable          N        Mean        Std Dev      Minimum       Maximum

R1IOTHR        17256      284.92      18302.66         0.00    2400000.00
R2IOTHR        16372      528.75      28432.89         0.00    3613056.00
R4IOTHR        19066      524.79       4833.46         0.00     360000.00

S1IOTHR        14646      316.68      19862.59         0.00    2400000.00
S2IOTHR        13891      586.37      30858.96         0.00    3613056.00
S4IOTHR        16285      542.12       4339.77         0.00     300000.00
```

How Constructed:

RwIOTHR is the value of respondent's other income. This variable consists of two different components:

     1. Alimony or child support.

     2. Fringe benefits provided by the work place

Respondents who indicate that they have not received any alimony or child support in the past year are not asked the value of alimony or child support and a value of 0 is assumed. For the alimony or child support, respondents can report the amount of income in two ways: annually or monthly. The amount of alimony or child support 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

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 4 Individual Income file. These missings affect RwIOTHR.

Differences with the RAND 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 d
    FC004          How many months did you work on [¡] in wage for other f
    FC007          What is the average monthly wage did you get in the last
    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 ea
    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_1
    FF004_1
    FF006           THE USUAL WEEKLY WAGE
    FF008          THE USUAL DAILY WAGE
    FF010          YOUR HOURLY WAGE
    FF012_1
    FF014          the value of all other bonuses
    FG001S1        FRINGE BENEFITS
    FG001S10       FRINGE BENEFITS
    FG001S11       FRINGE BENEFITS
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     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-EM
     FH010              ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE
     FJ003              THE AVERAGE MONTHLY INCOME
     GA003S1            Show Card31  Did you receive any of the following types
     GA003S2            Show Card31  Did you receive any of the following types
     GA003S3            Show Card31  Did you receive any of the following types
     GA003S4            Show Card31  Did you receive any of the following types
     GA003S5            Show Card31  Did you receive any of the following types
     GA003S6            Show Card31  Did you receive any of the following types
     GA003S7            Show Card31  Did you receive any of the following types
     GA003S8            Show Card31  Did you receive any of the following types
     GA003S9            Show Card31  Did you receive any of the following types
     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
```

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    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            preload variable
    ZF14            preload variable
Wave 4:
    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 Othe
    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
```

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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
```

Income from Other Household Members

```
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
  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
HH4IOTHHH      18511     4555.29     17580.52        0.00     1000000.00
```

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 such as alimony or child support that each of the household members besides respondent and spouse made in the last year.

The respondent reports the amount of pension income in two ways: annually or monthly. HHwIOTHHH is derived from using the reported annual amount first. If the annual amount is missing, then the monthly amount times 12 is used to fill the missing. 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

In the current release of the Wave 4 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 4 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 so households with these missing information have been assigned .m. These missings affect HHwIOTHHH in Wave 4.

Differences with the RAND 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
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    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_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_S2    household member [10] receives unemployment compensation
    GA007_10_S3    household member [10] receives pension subsidy
    GA007_10_S3    household member [10] receives pension subsidy
    GA007_10_S4    household member [10] receives worker's compensation
    GA007_10_S4    household member [10] receives worker's compensation
    GA007_10_S5    household member [10] receives elderly family planning s
    GA007_10_S5    household member [10] receives elderly family planning s
    GA007_10_S6    household member [10] receives medical aid
    GA007_10_S6    household member [10] receives medical aid
    GA007_10_S7    household member [10] receives other government subsidie
    GA007_10_S7    household member [10] receives other government subsidie
    GA007_10_S8    household member [10] receives social assistance
    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_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_S2    household member [11] receives unemployment compensation
    GA007_11_S3    household member [11] receives pension subsidy
    GA007_11_S3    household member [11] receives pension subsidy
    GA007_11_S4    household member [11] receives worker's compensation
    GA007_11_S4    household member [11] receives worker's compensation
    GA007_11_S5    household member [11] receives elderly family planning s
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GA007_11_S5     household member [11] receives elderly family planning s
GA007_11_S6     household member [11] receives medical aid
GA007_11_S6     household member [11] receives medical aid
GA007_11_S7     household member [11] receives other government subsidie
GA007_11_S7     household member [11] receives other government subsidie
GA007_11_S8     household member [11] receives social assistance
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_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_S2     household member [12] receives unemployment compensation
GA007_12_S3     household member [12] receives pension subsidy
GA007_12_S3     household member [12] receives pension subsidy
GA007_12_S4     household member [12] receives worker's compensation
GA007_12_S4     household member [12] receives worker's compensation
GA007_12_S5     household member [12] receives elderly family planning s
GA007_12_S5     household member [12] receives elderly family planning s
GA007_12_S6     household member [12] receives medical aid
GA007_12_S6     household member [12] receives medical aid
GA007_12_S7     household member [12] receives other government subsidie
GA007_12_S7     household member [12] receives other government subsidie
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_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_S2      household member [1] receives unemployment compensation
GA007_1_S3      household member [1] receives pension subsidy
GA007_1_S3      household member [1] receives pension subsidy
GA007_1_S4      household member [1] receives worker's compensation
GA007_1_S4      household member [1] receives worker's compensation
GA007_1_S5      household member [1] receives elderly family planning su
GA007_1_S5      household member [1] receives elderly family planning su
GA007_1_S6      household member [1] receives medical aid
GA007_1_S6      household member [1] receives medical aid
GA007_1_S7      household member [1] receives other government subsidies
GA007_1_S7      household member [1] receives other government subsidies
GA007_1_S8      household member [1] receives social assistance
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_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_S2      household member [2] receives unemployment compensation
GA007_2_S3      household member [2] receives pension subsidy
GA007_2_S3      household member [2] receives pension subsidy
GA007_2_S4      household member [2] receives worker's compensation
GA007_2_S4      household member [2] receives worker's compensation
GA007_2_S5      household member [2] receives elderly family planning su
GA007_2_S5      household member [2] receives elderly family planning su
GA007_2_S6      household member [2] receives medical aid
GA007_2_S6      household member [2] receives medical aid
GA007_2_S7      household member [2] receives other government subsidies
GA007_2_S7      household member [2] receives other government subsidies
GA007_2_S8      household member [2] receives social assistance
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_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_S2      household member [3] receives unemployment compensation
GA007_3_S3      household member [3] receives pension subsidy
GA007_3_S3      household member [3] receives pension subsidy
GA007_3_S4      household member [3] receives worker's compensation
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GA007_3_S4      household member [3] receives worker's compensation
GA007_3_S5      household member [3] receives elderly family planning su
GA007_3_S5      household member [3] receives elderly family planning su
GA007_3_S6      household member [3] receives medical aid
GA007_3_S6      household member [3] receives medical aid
GA007_3_S7      household member [3] receives other government subsidies
GA007_3_S7      household member [3] receives other government subsidies
GA007_3_S8      household member [3] receives social assistance
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_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_S2      household member [4] receives unemployment compensation
GA007_4_S3      household member [4] receives pension subsidy
GA007_4_S3      household member [4] receives pension subsidy
GA007_4_S4      household member [4] receives worker's compensation
GA007_4_S4      household member [4] receives worker's compensation
GA007_4_S5      household member [4] receives elderly family planning su
GA007_4_S5      household member [4] receives elderly family planning su
GA007_4_S6      household member [4] receives medical aid
GA007_4_S6      household member [4] receives medical aid
GA007_4_S7      household member [4] receives other government subsidies
GA007_4_S7      household member [4] receives other government subsidies
GA007_4_S8      household member [4] receives social assistance
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_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_S2      household member [5] receives unemployment compensation
GA007_5_S3      household member [5] receives pension subsidy
GA007_5_S3      household member [5] receives pension subsidy
GA007_5_S4      household member [5] receives worker's compensation
GA007_5_S4      household member [5] receives worker's compensation
GA007_5_S5      household member [5] receives elderly family planning su
GA007_5_S5      household member [5] receives elderly family planning su
GA007_5_S6      household member [5] receives medical aid
GA007_5_S6      household member [5] receives medical aid
GA007_5_S7      household member [5] receives other government subsidies
GA007_5_S7      household member [5] receives other government subsidies
GA007_5_S8      household member [5] receives social assistance
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_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_S2      household member [6] receives unemployment compensation
GA007_6_S3      household member [6] receives pension subsidy
GA007_6_S3      household member [6] receives pension subsidy
GA007_6_S4      household member [6] receives worker's compensation
GA007_6_S4      household member [6] receives worker's compensation
GA007_6_S5      household member [6] receives elderly family planning su
GA007_6_S5      household member [6] receives elderly family planning su
GA007_6_S6      household member [6] receives medical aid
GA007_6_S6      household member [6] receives medical aid
GA007_6_S7      household member [6] receives other government subsidies
GA007_6_S7      household member [6] receives other government subsidies
GA007_6_S8      household member [6] receives social assistance
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_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_S2      household member [7] receives unemployment compensation
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GA007_7_S3      household member [7] receives pension subsidy
GA007_7_S3      household member [7] receives pension subsidy
GA007_7_S4      household member [7] receives worker's compensation
GA007_7_S4      household member [7] receives worker's compensation
GA007_7_S5      household member [7] receives elderly family planning su
GA007_7_S5      household member [7] receives elderly family planning su
GA007_7_S6      household member [7] receives medical aid
GA007_7_S6      household member [7] receives medical aid
GA007_7_S7      household member [7] receives other government subsidies
GA007_7_S7      household member [7] receives other government subsidies
GA007_7_S8      household member [7] receives social assistance
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_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_S2      household member [8] receives unemployment compensation
GA007_8_S3      household member [8] receives pension subsidy
GA007_8_S3      household member [8] receives pension subsidy
GA007_8_S4      household member [8] receives worker's compensation
GA007_8_S4      household member [8] receives worker's compensation
GA007_8_S5      household member [8] receives elderly family planning su
GA007_8_S5      household member [8] receives elderly family planning su
GA007_8_S6      household member [8] receives medical aid
GA007_8_S6      household member [8] receives medical aid
GA007_8_S7      household member [8] receives other government subsidies
GA007_8_S7      household member [8] receives other government subsidies
GA007_8_S8      household member [8] receives social assistance
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_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_S2      household member [9] receives unemployment compensation
GA007_9_S3      household member [9] receives pension subsidy
GA007_9_S3      household member [9] receives pension subsidy
GA007_9_S4      household member [9] receives worker's compensation
GA007_9_S4      household member [9] receives worker's compensation
GA007_9_S5      household member [9] receives elderly family planning su
GA007_9_S5      household member [9] receives elderly family planning su
GA007_9_S6      household member [9] receives medical aid
GA007_9_S6      household member [9] receives medical aid
GA007_9_S7      household member [9] receives other government subsidies
GA007_9_S7      household member [9] receives other government subsidies
GA007_9_S8      household member [9] receives social assistance
GA007_9_S8      household member [9] receives social assistance
GA007_9_S9      household member [9] receives other income sources
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
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
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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 4:
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 S
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GA007_10_S6      Household Member [10] Receives Medical Aid
GA007_10_S7      Household Member [10] Receives Other Government Subsidie
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 Su
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 Su
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 Su
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 Su
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 Su
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 Su
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 Su
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
```

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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 Su
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 Su
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
GA008_9B_1_     Other Income Sources of Household Member [1]: Amount by
GA008_9B_2_     Other Income Sources of Household Member [2]: Amount by
GA008_9B_3_     Other Income Sources of Household Member [3]: Amount by
GA008_9B_4_     Other Income Sources of Household Member [4]: Amount by
GA008_9B_5_     Other Income Sources of Household Member [5]: Amount by
GA008_9B_6_     Other Income Sources of Household Member [6]: Amount by
GA008_9B_7_     Other Income Sources of Household Member [7]: Amount by
GA008_9B_8_     Other Income Sources of Household Member [8]: Amount by
GA008_9B_9_     Other Income Sources of Household Member [9]: Amount by
GA008_9C_10_    Other Income Sources of Household Member [10]: Amount by
GA008_9C_1_     Other Income Sources of Household Member [1]: Amount by
GA008_9C_2_     Other Income Sources of Household Member [2]: Amount by
GA008_9C_3_     Other Income Sources of Household Member [3]: Amount by
GA008_9C_4_     Other Income Sources of Household Member [4]: Amount by
GA008_9C_5_     Other Income Sources of Household Member [5]: Amount by
GA008_9C_6_     Other Income Sources of Household Member [6]: Amount by
GA008_9C_7_     Other Income Sources of Household Member [7]: Amount by
GA008_9C_8_     Other Income Sources of Household Member [8]: Amount by
GA008_9C_9_     Other Income Sources of Household Member [9]: Amount by
```

Total Household Income

<pre>
Wave Variable   Label   Type

  1 HH1ITOT   hh1itot:w1 income: hhold total household income   Cont
  2 HH2ITOT   hh2itot:w2 income: hhold total household income   Cont
  4 HH4ITOT   hh4itot:w4 income: hhold total household income   Cont
</pre>

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ITOT	14815	30491.83	63927.33	−1748000.00	2620400.00
HH2ITOT	10877	32696.14	72825.63	−158881.00	3896812.00
HH4ITOT	8629	26047.26	67285.95	−263100.00	3043580.00

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 = RwITEARN + SwITEARN + HHwICAP + RwIPEN + SwIPEN + HHwIGXFR + RwIOTHR + SwIOTHR + HHwIOTHHH

Cross Wave Differences in CHARLS

Please refer to "Cross Wave Differences in CHARLS" section of each component to identify cross-wave differences.

Please also note that starting in Wave 4, 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 in Wave 1 and 2.

Differences with the RAND 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:

<pre>
Wave 1:
    FB011   PROCESSED RETIREMENT
    FB011   PROCESSED RETIREMENT
    FC001   Did you work for other famers in wage for at least ten d
    FC001   Did you work for other famers in wage for at least ten d
    FC004   How many months did you work on [¡] in wage for other f
    FC004   How many months did you work on [¡] in wage for other f
    FC007   What is the average monthly wage did you get in the last
    FC007   What is the average monthly wage did you get in the last
    FC019   DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FC019   DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FE001   HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
    FE001   HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
    FE001   HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
    FE002   HOW MANY DAYS A WEEK DO YOU USUALLY WORK
    FE002   HOW MANY DAYS A WEEK DO YOU USUALLY WORK
    FE003   HOW MANY HOURS DO YOU USUALLY WORK PER DAY
    FE003   HOW MANY HOURS DO YOU USUALLY WORK PER DAY
    FF001   HOW IS YOUR WAGE PAID MAINLY
    FF001   HOW IS YOUR WAGE PAID MAINLY
    FF002   THE AFTER TAX ANNUAL SALARY
</pre>

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FF002              THE AFTER TAX ANNUAL SALARY
FF004              THE AFTER TAX AVERAGE MONTHLY SALARY
FF004              THE AFTER TAX AVERAGE MONTHLY SALARY
FF006               THE USUAL WEEKLY WAGE
FF006               THE USUAL WEEKLY WAGE
FF008              THE USUAL DAILY WAGE
FF008              THE USUAL DAILY WAGE
FF010              YOUR HOURLY WAGE
FF010              YOUR HOURLY WAGE
FF012              HOW MUCH IN AVERAGE DO YOU RECEIVE PER MONTH AFTER TAX
FF012_1
FF014              the value of all other bonuses
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
FH009              DID ANY OTHER HOUSEHOLD MEMBERS WORK IN THE SAME SELF-EM
FH010              ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE
FH010              ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE
FJ003              THE AVERAGE MONTHLY INCOME
FJ003              THE AVERAGE MONTHLY INCOME
FM018_1            year
FM018_1            year
FM018_2            month
FM022              WHAT IS YOUR MONTHLY PENSION
FM022              WHAT IS YOUR MONTHLY PENSION
FM030_1            year
FM030_1            year
FM030_2            month
FM034              What is your monthly pension?
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
FN007              WHAT IS YOUR MONTHLY BENEFITS
FN012_1            year
FN012_1            year
FN012_2            month
FN012_2            month
FN013              HOW MUCH DO YOU RECEIVE NOW
FN017_1            year
FN017_1            year
FN017_2            month
FN017_2            month
FN018              How much do you receive now?(per month)
FN018              How much do you receive now?(per month)
FN021_1            yaer
FN021_1            yaer
FN021_2            month
FN021_2            month
FN022              How much do you receive now?
FN022              How much do you receive now?
FN078_1            Year
FN078_1            Year
FN078_2            Month
FN078_2            Month
FN079              How much do you receive every month?  $Answer$ Yuan/ mon
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GA00
GA001          Did you receive any wage and bonus income in the past ye
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
GA003S1        Show Card31  Did you receive any of the following types
GA003S1        Show Card31  Did you receive any of the following types
GA003S2        Show Card31  Did you receive any of the following types
GA003S2        Show Card31  Did you receive any of the following types
GA003S2        Show Card31  Did you receive any of the following types
GA003S3        Show Card31  Did you receive any of the following types
GA003S3        Show Card31  Did you receive any of the following types
GA003S3        Show Card31  Did you receive any of the following types
GA003S4        Show Card31  Did you receive any of the following types
GA003S4        Show Card31  Did you receive any of the following types
GA003S4        Show Card31  Did you receive any of the following types
GA003S5        Show Card31  Did you receive any of the following types
GA003S5        Show Card31  Did you receive any of the following types
GA003S5        Show Card31  Did you receive any of the following types
GA003S6        Show Card31  Did you receive any of the following types
GA003S6        Show Card31  Did you receive any of the following types
GA003S6        Show Card31  Did you receive any of the following types
GA003S7        Show Card31  Did you receive any of the following types
GA003S7        Show Card31  Did you receive any of the following types
GA003S7        Show Card31  Did you receive any of the following types
GA003S8        Show Card31  Did you receive any of the following types
GA003S8        Show Card31  Did you receive any of the following types
GA003S8        Show Card31  Did you receive any of the following types
GA003S9        Show Card31  Did you receive any of the following types
GA004_1_1_     Yuan/Year
GA004_1_2_     Yuan/Year
GA004_1_2_     Yuan/Year
GA004_1_3_     Yuan/Year
GA004_1_3_     Yuan/Year
GA004_1_4_     Yuan/Year
GA004_1_4_     Yuan/Year
GA004_1_5_     Yuan/Year
GA004_1_5_     Yuan/Year
GA004_1_6_     Yuan/Year
GA004_1_6_     Yuan/Year
GA004_1_7_     Yuan/Year
GA004_1_7_     Yuan/Year
GA004_1_8_     Yuan/Year
GA004_1_8_     Yuan/Year
GA004_2_1_     Yuan/Month
GA004_2_2_     Yuan/Month
GA004_2_2_     Yuan/Month
GA004_2_3_     Yuan/Month
GA004_2_3_     Yuan/Month
GA004_2_4_     Yuan/Month
GA004_2_4_     Yuan/Month
GA004_2_5_     Yuan/Month
GA004_2_5_     Yuan/Month
GA004_2_6_     Yuan/Month
GA004_2_6_     Yuan/Month
GA004_2_7_     Yuan/Month
GA004_2_7_     Yuan/Month
GA004_2_8_     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
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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
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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
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 Y
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
GB010          HOW MUCH DID YOU SPEND PURCHASING NEW LIVESTOCK AND AQUA
GB011          THE VALUE OF ALL LIVESTOCK AND AQUATIC LIFE THAT WERE SO
GB012          THE VALUE OF ALL LIVESTOCK PRODUCTS PRODUCED
GB013          THE COST OF PRODUCING LIVESTOCK AND AQUATIC LIFE LAST YE
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
HA052_1        rent
HA053          rent
HA053_1        rent
HA054S1        CULTIVATED LAND
HA054S2        CULTIVATED LAND
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    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_10_         gender of household member
    A002_11_         gender of household member
    A002_11_         gender of household member
    A002_12_         gender of household member
    A002_12_         gender of household member
    A002_1_          gender of household member
    A002_1_          gender of household member
    A002_2_          gender of household member
    A002_2_          gender of household member
    A002_3_          gender of household member
    A002_3_          gender of household member
    A002_4_          gender of household member
    A002_4_          gender of household member
    A002_5_          gender of household member
    A002_5_          gender of household member
    A002_6_          gender of household member
    A002_6_          gender of household member
    A002_7_          gender of household member
    A002_7_          gender of household member
    A002_8_          gender of household member
    A002_8_          gender of household member
    A002_9_          gender of household member
    A002_9_          gender of household member
    A006_10_         relationship to you
    A006_10_         relationship to you
    A006_11_         relationship to you
    A006_11_         relationship to you
    A006_1_          relationship to you
    A006_1_          relationship to you
    A006_2_          relationship to you
    A006_2_          relationship to you
    A006_3_          relationship to you
    A006_3_          relationship to you
    A006_4_          relationship to you
    A006_4_          relationship to you
    A006_5_          relationship to you
    A006_5_          relationship to you
    A006_6_          relationship to you
    A006_6_          relationship to you
    A006_7_          relationship to you
    A006_7_          relationship to you
    A006_8_          relationship to you
    A006_8_          relationship to you
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A006_9_        relationship to you
A006_9_        relationship to you
FA006_W2_5     how many other jobs have you been doing from last iwr?
FB011          completed retirement procedures or internal retirement
FB011          completed retirement procedures or internal retirement
FB012          completed receding position procedures
FB012          completed receding position procedures
FC001          any work for other farmers in wage
FC001          any work for other farmers in wage
FC004          how many months did you work for other farmers
FC004          how many months did you work for other farmers
FC007          average monthly income
FC007          average monthly income
FC019          more than one non-agricultural job
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
FE001          how many months did you work in the past year
FE002          how many days did you work per week
FE002          how many days did you work per week
FE003          how many hours did you work per day
FE003          how many hours did you work per day
FF001          pattern of wage payment
FF001          pattern of wage payment
FF002_1        after-tax salary of last year(yuan)
FF002_1        after-tax salary of last year(yuan)
FF004_1        after-tax salary of last month(yuan)
FF004_1        after-tax salary of last month(yuan)
FF006          after-tax salary of last week
FF006          after-tax salary of last week
FF008          daily wage
FF008          daily wage
FF010          hourly wage
FF010          hourly wage
FF012
FF012_1        how much do you receive last month(yuan)
FF014          all other bonus in the past year
FF014          all other bonus in the past year
FH009          do any other household member work in this activity
FH009          do any other household member work in this activity
FH010          net income from this activity
FH010          net income from this activity
FJ003          monthly income of side jobs
FJ003          monthly income of side jobs
FN002_W2S1     are you currently receiving pension program of the gover
FN002_W2S2     are you currently receiving pension program of staffing
FN002_W2S3     are you currently receiving pension insurance of the fir
FN002_W2S4     are you currently receiving following pension?
FN003_W2_1_1_  when did you start receiving pension benefits(year) corr
FN003_W2_1_2_  when did you start receiving pension benefits(year) corr
FN003_W2_1_3_  when did you start receiving pension benefits(year) corr
FN003_W2_2_1_  when did you start receiving pension benefits(month) cor
FN003_W2_2_2_  when did you start receiving pension benefits(month) cor
FN003_W2_2_3_  when did you start receiving pension benefits(month) cor
GA003S1        receives pension
GA003S1        receives pension
GA003S10       none of the above
GA003S10       none of the above
GA003S2        receives unemployment compensation
GA003S2        receives unemployment compensation
GA003S3        receives pension subsidy
GA003S3        receives pension subsidy
GA003S4        receives workers;¯compensation
GA003S4        receives workers;¯compensation
GA003S5        receives elderly family planning subsidies
GA003S5        receives elderly family planning subsidies
GA003S6        receives medical aid
GA003S6        receives medical aid
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GA003S7          receives other government subsidies
GA003S7          receives other government subsidies
GA003S8          receives social assistance
GA003S8          receives social assistance
GA003S9          receives other income sources
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_2_1_       amount by month: pension
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_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 s
GA007_11_S1      household member [11] receives pensions
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 s
GA007_12_S1      household member [12] receives pensions
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 s
GA007_1_S1       household member [1] receives pensions
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 su
GA007_1_S6       household member [1] receives medical aid
GA007_2_S1       household member [2] receives pensions
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 su
GA007_2_S6       household member [2] receives medical aid
GA007_3_S1       household member [3] receives pensions
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 su
GA007_3_S6       household member [3] receives medical aid
GA007_4_S1       household member [4] receives pensions
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 su
GA007_5_S1       household member [5] receives pensions
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 su
GA007_6_S1       household member [6] receives pensions
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
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GA007_6_S5    household member [6] receives elderly family planning su
GA007_7_S1    household member [7] receives pensions
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 su
GA007_8_S1    household member [8] receives pensions
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 su
GA007_9_S1    household member [9] receives pensions
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 su
GB001         other household members engage in agricultural work
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
GB003         engage in cropping or forestry
GB005_1       total value of crops and forestry
GB006         cost of crops and forestry
GB006         cost of crops and forestry
GB007         grow livestock or aquatic life
GB007         grow livestock or aquatic life
GB007         grow livestock or aquatic life
GB008         current value of livestock and aquatic life
GB008         current value of livestock and aquatic life
GB009         value of livestock and aquatic life of last year
GB009         value of livestock and aquatic life of last year
GB010         cost of purchasing new livestock and aquatic life
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
GB013         cost of producing livestock and aquatic life
GC001         household members engage in self-employed businesse
GC001         household members engage in self-employed businesse
GC002         number of participated small bussinesses
GC005_1_      income of the 1st self-employed business
GC005_1_      income of the 1st self-employed business
GC005_2_      income of the 2nd self-employed business
GC005_2_      income of the 2nd self-employed business
GC005_3_      income of the 3rd 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
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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      income for renting out other assets
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
HD012        receive assistance in answering
XF1          preload work variable
XRTYPE       r interview type
ZA002_10_    gender of household member
ZA002_10_    gender of household member
ZA002_11_    gender of household member
ZA002_11_    gender of household member
ZA002_1_     gender of household member
ZA002_1_     gender of household member
ZA002_2_     gender of household member
ZA002_2_     gender of household member
ZA002_3_     gender of household member
ZA002_3_     gender of household member
ZA002_4_     gender of household member
ZA002_4_     gender of household member
ZA002_5_     gender of household member
ZA002_5_     gender of household member
ZA002_6_     gender of household member
ZA002_6_     gender of household member
ZA002_7_     gender of household member
ZA002_7_     gender of household member
ZA002_8_     gender of household member
ZA002_8_     gender of household member
ZA002_9_     gender of household member
ZA002_9_     gender of household member
ZA006_10_    relationship to you
ZA006_10_    relationship to you
ZA006_11_    relationship to you
ZA006_11_    relationship to you
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    ZA006_12_        relationship to you
    ZA006_1_         relationship to you
    ZA006_1_         relationship to you
    ZA006_2_         relationship to you
    ZA006_2_         relationship to you
    ZA006_3_         relationship to you
    ZA006_3_         relationship to you
    ZA006_4_         relationship to you
    ZA006_4_         relationship to you
    ZA006_5_         relationship to you
    ZA006_5_         relationship to you
    ZA006_6_         relationship to you
    ZA006_6_         relationship to you
    ZA006_7_         relationship to you
    ZA006_7_         relationship to you
    ZA006_8_         relationship to you
    ZA006_8_         relationship to you
    ZA006_9_         relationship to you
    ZA006_9_         relationship to you
    ZF13             preload variable
    ZF14             preload variable
Wave 4:
    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
    FB011            Completed Retirement Procedures or Internal Retirement
    FB012            Completed Receding Position Procedures
    FH009            Do Any Other Household Member Work in This Activity
    FH010            Net Income from This Activity
    FN002_W2S1       Are You Currently Receiving Pension Program of The Gover
    FN002_W2S2       Are You Currently Receiving Pension Program of Staffing
    FN002_W2S3       Are You Currently Receiving Pension Insurance of The Fir
    FN003_W2_1_1_    When Did You Start Receiving Governments' Pension Benefi
    FN003_W2_1_2_    When Did You Start Receiving Government Affiliated Insti
    FN003_W2_1_3_    When Did You Start Receiving Firms' Pension Benefits(Yea
    FN003_W2_2_1_    When Did You Start Receiving Governments' Pension Benefi
    FN003_W2_2_2_    When Did You Start Receiving Government Affiliated Insti
    FN003_W2_2_3_    When Did You Start Receiving Firms' Pension Benefits(Mon
    FN005_W2_1_      Current Monthly Pension Corresponding to FN002_w2 Option
    FN005_W2_2_      Current Monthly Pension Corresponding to FN002_w2 Option
    FN005_W2_3_      Current Monthly Pension Corresponding to FN002_w2 Option
    FN030_W2         Are You Currently Participating/Receiving Supplement Pen
    FN041_W2_1       When Did You Start to Receive Supplement Pension Benefit
    FN041_W2_2       When Did You Start to Receive Supplement Pension Benefit
    FN042_W2         Monthly Benefits
    FN043_W2         Are You Currently Participating/Receiving Commercial Pen
    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?
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FN057_W3S4      Have Any Pension Insurance above?
FN067_W2_1_1_   When Did You Start to Receive This Pension Benefits(Year
FN067_W2_1_2_   When Did You Start to Receive This Pension Benefits(Year
FN067_W2_1_3_   When Did You Start to Receive This Pension Benefits(Year
FN067_W2_2_1_   When Did You Start to Receive This Pension Benefits(Mont
FN067_W2_2_2_   When Did You Start to Receive This Pension Benefits(Mont
FN067_W2_2_3_   When Did You Start to Receive This Pension Benefits(Mont
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 Pensio
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(Mont
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
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 S
GA007_10_S6     Household Member [10] Receives Medical Aid
GA007_10_S7     Household Member [10] Receives Other Government Subsidie
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 Su
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 Su
GA007_2_S6      Household Member [2] Receives Medical Aid
GA007_2_S7      Household Member [2] Receives Other Government Subsidies
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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 Su
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 Su
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 Su
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 Su
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 Su
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 Su
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 Su
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]: Amou
GA008_2B_1_     Unemployment Compensation of Household Member [1]: Amoun
GA008_2B_2_     Unemployment Compensation of Household Member [2]: Amoun
GA008_2B_3_     Unemployment Compensation of Household Member [3]: Amoun
GA008_2B_4_     Unemployment Compensation of Household Member [4]: Amoun
GA008_2B_5_     Unemployment Compensation of Household Member [5]: Amoun
GA008_2B_6_     Unemployment Compensation of Household Member [6]: Amoun
GA008_2B_7_     Unemployment Compensation of Household Member [7]: Amoun
GA008_2B_8_     Unemployment Compensation of Household Member [8]: Amoun
GA008_2B_9_     Unemployment Compensation of Household Member [9]: Amoun
GA008_2C_10_    Unemployment Compensation of Household Member [10]: Amou
GA008_2C_1_     Unemployment Compensation of Household Member [1]: Amoun
GA008_2C_2_     Unemployment Compensation of Household Member [2]: Amoun
GA008_2C_3_     Unemployment Compensation of Household Member [3]: Amoun
GA008_2C_4_     Unemployment Compensation of Household Member [4]: Amoun
GA008_2C_5_     Unemployment Compensation of Household Member [5]: Amoun
GA008_2C_6_     Unemployment Compensation of Household Member [6]: Amoun
GA008_2C_7_     Unemployment Compensation of Household Member [7]: Amoun
GA008_2C_8_     Unemployment Compensation of Household Member [8]: Amoun
GA008_2C_9_     Unemployment Compensation of Household Member [9]: Amoun
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 Mont
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_1
GA008_4B_1_     Worker's Compensation of Household Member [1]: Amount by
GA008_4B_2_     Worker's Compensation of Household Member [2]: Amount by
GA008_4B_3_     Worker's Compensation of Household Member [3]: Amount by
GA008_4B_4_     Worker's Compensation of Household Member [4]: Amount by
GA008_4B_5_     Worker's Compensation of Household Member [5]: Amount by
GA008_4B_6_     Worker's Compensation of Household Member [6]: Amount by
GA008_4B_7_     Worker's Compensation of Household Member [7]: Amount by
GA008_4B_8_     Worker's Compensation of Household Member [8]: Amount by
GA008_4B_9_     Worker's Compensation of Household Member [9]: Amount by
GA008_4C_10_    Worker's Compensation of Household Member [10]: Amount b
GA008_4C_1_     Worker's Compensation of Household Member [1]: Amount by
GA008_4C_2_     Worker's Compensation of Household Member [2]: Amount by
GA008_4C_3_     Worker's Compensation of Household Member [3]: Amount by
GA008_4C_4_     Worker's Compensation of Household Member [4]: Amount by
GA008_4C_5_     Worker's Compensation of Household Member [5]: Amount by
GA008_4C_6_     Worker's Compensation of Household Member [6]: Amount by
GA008_4C_7_     Worker's Compensation of Household Member [7]: Amount by
GA008_4C_8_     Worker's Compensation of Household Member [8]: Amount by
GA008_4C_9_     Worker's Compensation of Household Member [9]: Amount by
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 Businesse
GC002	Number of Participated Small Bussinesses
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)

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
  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
HH4CFOOD       16477      414.68      1374.69         0.00    100615.00
```

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

```
In Wave 1 CHARLS asked the total amount of purchased food and food eaten from own production in the
same question. Starting in 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 and Wave 4 Household Income
file. These missings affect HHwCFOOD.
```

Differences with the RAND HRS

```
This measure is not available in RAND HRS.
```

CHARLS Variables Used:

```
Wave 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 4:
    GE006          Expenditure on Food
    GE006_W2_1     Value of Self-consumed Products
```

```
GE007          Expenditure on Eating Out
GE008          Expenditure on Alcohol, Tobacco
```

Household non-food consumption in last month

```
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
  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
HH4CNF1M        17485      482.28      850.28        0.00     29110.00
```

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.      Fee for housekeeper, matron and servants

        5.      Local transportation

        6.      Household items and personal daily toiletries plus beauty treatments

        7.      Entertainment including fee 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 and Wave 4 Household Income
file. These missings affect HHwCNF1M.
```

Differences with the RAND 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          expendtiure on daily items
    GE009_7          expenditure on entertainment
Wave 4:
    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          Expendtiure on Daily Items
    GE009_7          Expenditure on Entertainment
```

Household non-food consumption in last year

```
Wave Variable      Label                                                    Type

  1  HH1CNF1Y      hh1cnf1y:w1 hhold other non-food consumption, past year   Cont
  2  HH2CNF1Y      hh2cnf1y:w2 hhold other non-food consumption, past year   Cont
  4  HH4CNF1Y      hh4cnf1y: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
HH4CNF1Y	17583	15188.26	45638.06	0.00	2320000.00

How Constructed:

HHwCNF1Y is the total household non-food expenditures in last year.

In 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.

Starting in Wave 2, 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, facial 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.

Don't know, refused, or other missing responses of HHwCNF1Y are assigned special missing codes .d,
.r, .m respectively. HHwCNF1Y 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 in Wave 2, electronics are
included with furniture and consumption of durable goods.

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 and Wave 4 Household Income
file. These missings affect HHwCNF1Y.

Differences with the RAND 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_12
    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,
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 centeral 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 4:
    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 Centeral 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
```

Total household consumption

Wave	Variable	Label	Type
1	HH1CTOT	hh1ctot:w1 total household consumption	Cont
2	HH2CTOT	hh2ctot:w2 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
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
HH4CTOT	14260	43151.68	95399.45	0.00	5250600.00
HH1CPERC	14769	7782.03	20266.19	0.00	1499997.63
HH2CPERC	12187	11183.88	14291.68	0.00	302196.00
HH4CPERC	14260	15189.31	29429.77	0.00	1312650.00

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

These measures are not available in RAND HRS.

CHARLS Variables Used:

```
Wave 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_12
    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,
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          expendtiure 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 centeral 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 4:
    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          Expendtiure 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 Centeral 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
```

Section G: Family Structure

Number of People Living in Household

```
Wave Variable     Label                                                        Type

  1  H1HHRES      h1hhres:w1 Number of people living in this household         Cont
  2  H2HHRES      h2hhres:w2 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
H4HHRES         21097      3.06       1.32        1.00        15.00
```

How Constructed:

HwHHRES counts the number of people living in a household, including the respondents.

Wave 1 obtains the number of residents living in a household by using the household roster file, which includes all members reported to live in the household besides the household respondent and their spouse, as identified by the household respondent. H1HHRES is then derived by adding the number of household respondents mentioned in the household roster plus the number of household respondents (the respondent and/or their spouse)

Wave 2 does not include a household roster, so the number of residents living in a household can be obtained in one of two ways. In the CM 'Listed Household Members' module, the household respondent is asked to confirm the names of all household members either based on the last interview or, if a new household, based on the coverscreen. After going through this list, the household respondent is then given to a chance to add additional household members that were not included in the preloaded lists. Slightly later in the survey, in the A 'Other Household Members' module, the household respondent is asked about household members excluding the household respondent, their spouse, their parents/parents-in-law, and their children. H2HHRES is derived by taking the largest values obtained either though the CM module or through the A module plus the number of household respondents (the respondent and/or their spouse).

Wave 4 determines household size using multiple responses to questions indicating a household member. Calculating household size breaks down into accounting for the respondent, spouse, parents (including biological parents, stepparents, and adoptive parents), parents-in-law, children, siblings, and other household members. Household Member subsection of the Family section asks respondents who lives in the same household as them, in which respondents are asked to specify which parent, child, sibling or other person it is that lives with them. If the respondent reports their spouse is in their household or if the number of respondents in the Harmonized CHARLS household variable HwHHRESP is 2, 2 is added to the household size for the respondent and spouse. Otherwise, 1 is added to the household size for the respondent. For each parent, child, sibling, or other person reported, household size is increased by one if the respondent reports that person is a household member or the respondent reports a parent or child normally lives in the same household as his or her own household. The latter reporting can be derived from Parent Information subsection, Time Transfer subsection, or Parent, Childrearing, and Sibling Information subsection. Wave 4 uses the Family Information data file for deriving H4HHRES.

Cross Wave Differences in CHARLS

Calculating household size varies wave to wave. Wave 1 of CHARLS includes a household roster that identifies all household respondents other than the household respondent and their spouse. Wave 2 includes the Listed Household Members module, which the household respondent is asked to confirm the names of all household members either based on the last interview or, if a new household, based on the coverscreen. After going through this list, the household respondent is then given the chance to add additional household members that were not included in the preloaded lists. Slightly later in the survey, in the Wave 2 Other Household Members module, the household respondent is asked about household members excluding the household respondent, their spouse, their parents/parents-in-law, and their children. Wave 4 asks who lives within the respondent's household. For parents and children, the respondent is also asked with whom and where each reported member lives, in which the respondent can report the same household. Wave 4 includes biological parents, stepparents, and adoptive parents of the respondent and spouse.

Differences with the RAND 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
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    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
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    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 4:
    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
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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
```

Number of Living Children

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Wave Variable      Label                                                    Type

  1   H1SON        h1son:w1 Number of living sons                           Cont
  2   H2SON        h2son:w2 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
  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
  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
H4SON         21097       1.35        0.99         0.00         9.00

H1DAU         17708       1.22        1.10         0.00         8.00
H2DAU         18612       1.25        1.10         0.00         9.00
H4DAU         21097       1.24        1.09         0.00         9.00

H1CHILD       17708       2.61        1.44         0.00        10.00
H2CHILD       18612       2.62        1.45         0.00        10.00
H4CHILD       21097       2.63        1.43         0.00        15.00
```

How Constructed:

HwSON is the number of living sons of the respondent and/or spouse at the household level, including co-resident or non-co-resident sons.

HwDAU is the number of living daughters of the respondent and/or 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/or spouse, including co-resident or non-co-resident daughters.

HwSON, HwDAU and HwCHILD are set to plain missing (.) for respondents who did not respond to this wave.

In wave 1, the number of co-resident children is obtained by counting any children listed in the household roster who is a child. This is done by using the relationship and gender variable and any child that is later mentioned in the Childbearing Information module not already mentioned and that is reported as normally living in the same household as the respondent. In wave 1, the number of non-co-resident children is obtained from Childbearing Information module using a question asking where all non-household member children usually live. All children listed as not living in the household are considered non-co-resident children.

In wave 2, the number of co-resident children is obtained in one of two ways. Children are coded first from the Other Household Members module, using the relationship and gender variable. Children are later coded from the Childrearing information module, in which the family respondent is asked whether all children previously listed (whether they are household members or not) normally lives in the same household as the respondent. The number of co-resident children is based on the largest value from these two modules. In wave 2, the number of non-co-resident children is also obtained from the Childbearing Information module using the same question asking where the child usually lives but is asked for all children regardless of whether they have previously been identified as a household member. All children listed as not living in the household are considered non-co-resident children.

In wave 4, the number of co-resident daughters and sons is obtained either from the respondent reporting a child is a household member or that a child normally lives in the same household as the

respondent, regardless of economic independence. This is determined for each reported child. Using the gender variable of each child, the total number of daughters and sons is taking to be the number of daughters and sons co-residing, respectively. The total co-resident children is the sum of the children living in the same household, not accounting for gender, as there are cases in which a child's gender variable is missing.

In wave 4, the number of non-co-resident daughters and sons is obtained from the Childrearing Information subsection, in which respondents are asked where each reported child usually lives. Children are considered non-co-resident if the respondent reports the child lives in another household. Using the gender variable of each child, the total number of daughters and sons is taking to be the number of daughters and sons non-co-residing, respectively. The total non-co-resident children is the sum of the children living outside of the respondents household, not accounting for gender, as there are cases in which a child's gender variable is missing.

In wave 2 and wave 4, CHARLS includes a constructed Child public data file and Family Information public data file. We use the Family Information public data file for deriving HwSON, HwDAU, and HwCHILD for all waves.

Children include biological children, adopted children, foster children, and stepchildren.

Cross Wave Differences in CHARLS

In wave 1, the number of children is obtained by counting any children listed in household roster plus any children later mentioned in the Childbearing Information module not already mentioned as a household member.

In wave 2 and 4, the number of children is obtained in one of two ways, either from the Household Members subsection or from the Childbearing Information subsection. Furthermore, unlike wave 1, information is asked for all children.

Differences with the RAND 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
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    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
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    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 4:
    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
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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_1 The Gender Of R's No.1 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
```

<div style="border:1px solid">

Number of Deceased Children

</div>

```
Wave Variable        Label                                                      Type

  1  H1DSON          h1dson:w1 Number of deceased sons                          Cont
  2  H2DSON          h2dson:w2 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
  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
  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
H4DSON          21097        0.05         0.24         0.00          5.00

H1DDAU          17708        0.05         0.25         0.00          4.00
H2DDAU          18612        0.04         0.22         0.00          3.00
H4DDAU          21097        0.03         0.19         0.00          4.00

H1DCHILD        17708        0.12         0.43         0.00          6.00
H2DCHILD        18612        0.10         0.37         0.00          6.00
H4DCHILD        21097        0.16         0.52         0.00          6.00
```

How Constructed:

HwDSON is the number of deceased sons of the respondent and/or spouse at the household level.

HwDDAU is the number of deceased daughters of the respondent and/or spouse at the household level.

HwDCHILD is the number of deceased children of the respondent and/or spouse at the household level.

HwDSON, HwDDAU and HwDCHILD are set to plain missing (.) for respondents who did not respond to this wave.

HwDSON, HwDDAU and HwDCHILD are obtained by counting all the deceased children that the respondent reports. The gender variable is used for counting the sons and daughters. Biological children, adopted children, foster children, and stepchildren are included.

In wave 2 and wave 4, CHARLS includes a constructed Child public data file and Family Information public data file. We use the Family Information public data file for deriving HwDSON, HwDDAU, and HwDCHILD for all waves.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND 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 4:
    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_1 The Gender Of R's No.1 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
```

Number of Living Sibling

```
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        18313       1.60       1.28         0.00         9.00
R3LIVBRO        20203       1.60       1.28         0.00         8.00
R4LIVBRO        20324       1.75       1.29         0.00        10.00

S1LIVBRO        15252       1.71       1.35         0.00        10.00
S2LIVBRO        15911       1.67       1.28         0.00         9.00
S3LIVBRO        16417       1.64       1.27         0.00         8.00
S4LIVBRO        17911       1.77       1.28         0.00         9.00

R1LIVSIS        17479       1.54       1.33         0.00         9.00
R2LIVSIS        18308       1.57       1.32         0.00         9.00
R3LIVSIS        20203       1.55       1.31         0.00        13.00
R4LIVSIS        20324       1.69       1.33         0.00        12.00

S1LIVSIS        15252       1.60       1.33         0.00         9.00
S2LIVSIS        15906       1.63       1.32         0.00         9.00
S3LIVSIS        16417       1.60       1.32         0.00        13.00
S4LIVSIS        17911       1.71       1.32         0.00        10.00

R1LIVSIB        17479       3.15       1.92         0.00        11.00
R2LIVSIB        18279       3.16       1.88         0.00         9.00
R3LIVSIB        20203       3.19       1.86         0.00        15.00
R4LIVSIB        20324       3.49       1.84         0.00        15.00

S1LIVSIB        15252       3.32       1.94         0.00        13.00
S2LIVSIB        15878       3.29       1.85         0.00         9.00
S3LIVSIB        16417       3.28       1.83         0.00        15.00
S4LIVSIB        17911       3.53       1.79         0.00        15.00
```

How Constructed:

RwLIVBRO is the number of living brothers that the respondent reports.

RwLIVSIS is the number of living sisters that the respondent reports.

RwLIVSIB is the number of living siblings that the respondent reports.

If respondent don't know, refused, or their answer is missing for other reason, RwLIVBRO, RwLIVSIS or RwLIVSIB are assigned special missing codes (.d), (.r), and (.m), respectively. RwLIVBRO, RwLIVSIS and RwLIVSIB are set to plain missing (.) for respondents who did not respond to this wave.

SwLIVBRO, SwLIVSIS and SwLIVSIB are the respondent's spouse's number of living brothers, number of living sisters, and number of living siblings, respectively. SwLIVBRO, SwLIVSIS and SwLIVSIB can be reported by either the respondent or their spouse, depending on if they were the family respondent or not. The family respondent can be identified using RwFAMR. Special missing value (.u) is used when the respondent does not report being coupled in the current wave.

Cross Wave Differences in CHARLS

There are notable differences between each wave.

Wave 1 and 2 ask the family respondent separately about both their older and younger brothers and about both their spouse's older and younger brothers. For wave 1 and 2, each sibling variable is the sum of living older or younger siblings that the respondent reports. The Life History Survey and wave 4 do not distinguish between older and younger siblings directly.

The Life History Survey (wave 3) also asks about living siblings. Respondents are asked the number of siblings that survived passed the age of six. For siblings that survived passed the age of six, respondents are asked to provide each siblings gender and if that sibling is alive. The Life History survey is asked at the individual level.

Wave 4 uses the CHARLS Constructed Sibling and Spouse Sibling data file for deriving RwLIVBRO, RwLIVSIS, RwLIVSIB, SwLIVBRO, SwLIVSIS, and SwLIVSIB. Within each data file, the gender and alive variable are used to derive RwLIVBRO, RwLIVSIS, RwLIVSIB, SwLIVBRO, SwLIVSIS, and SwLIVSIB.

Differences with the RAND 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 4:
    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)
```

Number of Deceased Sibling

```
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	20343	0.52	0.88	0.00	10.00
R4DECBRO	20324	0.26	0.60	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	16515	0.50	0.85	0.00	10.00
S4DECBRO	17911	0.24	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	20343	0.41	0.77	0.00	9.00
R4DECSIS	20324	0.18	0.50	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	16515	0.39	0.75	0.00	7.00
S4DECSIS	17911	0.17	0.47	0.00	4.00
R1DECSIB	17392	0.66	1.11	0.00	14.00
R2DECSIB	18138	0.74	1.16	0.00	14.00
R3DECSIB	20343	0.79	1.17	0.00	13.00
R4DECSIB	20324	0.45	0.89	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	16515	0.74	1.12	0.00	11.00
S4DECSIB	17911	0.41	0.84	0.00	8.00

How Constructed:

RwDECBRO is the number of deceased brothers the respondent reports.

RwDECSIS is the number of deceased sisters the respondent reports.

RwDECSIB is the number of deceased siblings the respondent reports.

If respondent don't know, refused, or their answer is missing for other reason, RwDECBRO, RwDECSIS or RwDECSIB are assigned special missing codes (.d), (.r), and (.m), respectively. RwDECBRO, RwDECSIS and RwDECSIB are set to plain missing (.) for respondents who did not respond to this wave.

SwDECBRO, SwDECSIS and SwDECSIB are the respondent's spouse's number of deceased brothers, number of deceased sisters, and number of deceased siblings, respectively. SwDECBRO, SwDECSIS and SwDECSIB can be reported by either the respondent or their spouse depending on who was the family respondent. The family respondent can be identified using RwFAMR. Special missing value (.u) is used if the respondent does not report being coupled in the current wave.

Cross Wave Differences in CHARLS

There are notable differences between each wave.

Wave 1 and 2 ask the family respondent separately about both their older and younger siblings and about both their spouse's older and younger siblings. Wave 1 and 2 sums the number of deceased brothers, sisters, and total siblings to derive RwDECBRO, RwDECSIS, RwDECSIB, SwDECBRO, SwDECSIS, and SwDECSIB. The Life History Survey and wave 4 do not distinguish between older and younger siblings directly.

The Life History Survey (wave 3) also asks about deceased siblings. This wave asks respondents first if they have any siblings who died before the age of six. For each siblings that passed away before age six, respondents are asked for each sibling whether they were an older brother, older sister, younger brother, or younger sister. Respondents are then asked the number of siblings that survived passed the age of six. For siblings that survived passed the age of six, respondents are asked to provide each siblings gender and if that sibling is alive. All reported deceased siblings are included for these variables. The Life History survey is asked at the individual level.

Wave 4 uses the CHARLS Constructed Sibling and Spouse Sibling data file for deriving RwDECBRO, RwDECSIS, RwDECSIB, SwDECBRO, SwDECSIS, and SwDECSIB. Within each data file, the gender and alive variable are used to derive RwDECBRO, RwDECSIS, RwDECSIB, SwDECBRO, SwDECSIS, and SwDECSIB.

Differences with the RAND HRS

CHARLS family respondents not only report their number of deceased siblings for themselves but also reports 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 4:
    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
```

Parental Mortality

```
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	20452	0.30	0.46	0.00	1.00
R4MOMLIV	21058	0.19	0.39	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	16553	0.31	0.46	0.00	1.00
S4MOMLIV	18311	0.20	0.40	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	20450	0.18	0.38	0.00	1.00
R4DADLIV	21062	0.10	0.31	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	16558	0.19	0.39	0.00	1.00
S4DADLIV	18312	0.11	0.32	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	0.62	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	20429	0.48	0.70	0.00	2.00
R4LIVPAR	21057	0.30	0.58	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	16545	0.50	0.71	0.00	2.00
S4LIVPAR	18307	0.32	0.60	0.00	2.00
R1MOMAGE	14986	72.35	14.76	11.00	116.00
R2MOMAGE	14745	72.85	14.49	11.00	116.00
R3MOMAGE	18822	71.82	14.15	12.00	113.00
R4MOMAGE	17414	72.37	14.87	12.00	115.00
S1MOMAGE	13198	72.67	14.37	11.00	116.00
S2MOMAGE	12654	73.08	14.19	11.00	116.00
S3MOMAGE	15373	71.88	13.88	12.00	113.00
S4MOMAGE	14784	72.52	14.57	12.00	115.00
R1DADAGE	14686	69.91	14.91	11.00	111.00
R2DADAGE	14405	70.26	14.72	11.00	113.00
R3DADAGE	17747	69.85	13.88	12.00	114.00
R4DADAGE	17123	69.87	14.50	14.00	115.00
S1DADAGE	12969	70.29	14.72	11.00	111.00
S2DADAGE	12393	70.72	14.45	11.00	113.00
S3DADAGE	14571	70.08	13.71	14.00	114.00
S4DADAGE	14523	70.19	14.31	14.00	115.00

Categorical Variable Codes

Value--------------------------------|	R1MOMLIV	R2MOMLIV	R3MOMLIV	R4MOMLIV
.m:missing	169	244	91	38
.u:unmar				1
0.no	12340	13473	14362	17030
1.yes	5199	4895	6090	4028

Value--------------------------------|	S1MOMLIV	S2MOMLIV	S3MOMLIV	S4MOMLIV
.m:missing	150	238	37	66
.u:unmar	2260	2401	2595	2720
.v:sp nr			1358	
0.no	10491	11379	11366	14576
1.yes	4810	4594	5187	3735

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	93	34
.u:unmar				1
0.no	14458	15674	16781	18858
1.yes	3063	2736	3669	2204

Value--------------------------------|	S1DADLIV	S2DADLIV	S3DADLIV	S4DADLIV
.m:missing	164	205	32	65
.u:unmar	2260	2401	2595	2720
.v:sp nr			1358	
0.no	12437	13395	13392	16226
1.yes	2851	2611	3166	2086

Value--------------------------------|	R1FDADLIV	R2FDADLIV
0.No dispute	17208	18098
2.Disp last iw N -> Y, still alive this		44
3.Disp last iw N -> y, Died this wave		268
5.Disp aft, N -> Y	313	

Value--------------------------------|	S1FDADLIV	S2FDADLIV
0.No dispute	15046	15764
2.Disp last iw N -> Y, still alive this		38
3.Disp last iw N -> y, Died this wave		204
5.Disp aft, N -> Y	242	

How Constructed:

Parental mortality questions are asked in the CHARLS family module to the family respondent. The family respondent is asked about both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwFAMR. Starting after wave 2, questions regarding parent information are specified for biological parents, stepparents, and adoptive parents.

RwMOMLIV and RwDADLIV indicate whether a respondent's mother and father are still alive. If the parent is alive, then the derived mortality status is assigned 1. If the parent is deceased, RwMOMLIV and RwDADLIV are assigned 0. Don't know, refused, or other missing values are assigned special missing codes (.d), (.r), and (.m), respectively. RwMOMLIV and RwDADLIV are set to plain missing (.) if the respondent did not respond to the current wave.

SwMOMLIV and SwDADLIV indicate whether the respondent's spouse's mother and father are still alive. In addition to the codes used in RwMOMLIV and RwDADLIV, SwMOMLIV and SwDADLIV use 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.

RwFMOMLIV and RwFDADLIV indicate whether a parent's living status is disputed at the current interview or a later interview. In wave 2, respondents who previously were recorded as having a parent that died were allowed to dispute the response. If the respondent disputed the previous response of their parent's mortality, they were then asked whether their parent is still alive. The codes for the flag variables are: 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.

SwFMOMLIV and SwFDADLIV indicate whether the respondent's spouse's parent's living status is disputed at the current interview or a later interview. SwFMOMLIV and SwFDADLIV use the same codes as used in RwFMOMLIV and RwFDADLIV.

RwLIVPAR counts the number of living parents reported. RwLIVPAR is derived by summing RwMOMLIV and RwDADLIV. If either RwMOMLIV or RwDADLIV is missing, RwLIVPAR is set as missing. Don't know, refused, or other missings values are assigned special missing codes (.d), (.r), and (.m), respectively. RwMOMLIV, RwDADLIV, and RwLIVPAR are set to plain missing (.) if the respondent did not respond to the current wave.

SwLIVPAR counts the number of living parents of the respondent's spouse. SwLIVPAR is derived by summing the SwMOMLIV and SwDADLIV variables. If either SwMOMLIV or SwDADLIV is missing, then SwLIVPAR is missing. In additional to the missing codes used in RwLIVPAR, SwLIVPAR uses 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.

RwMOMAGE and RwDADAGE indicate the current age of each parent (respondent) if living or the age at death for each parent (respondent) if deceased. Special missing code (.i) is assigned to RwMOMAGE and RwDADAGE 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, or other missings values RwMOMAGE and RwDADAGE is assigned special missing codes (.d), (.r), and (.m), respectively. RwMOMAGE and RwDADAGE are set to plain missing (.) if the respondent did not respond to the current wave.

SwMOMAGE and SwDADAGE indicate the current age of each parent (spouse) if living or the age at death for each parent (spouse) if deceased. In additional to the missing codes used in RwMOMAGE and RwDADAGE, SwMOMAGE and SwDADAGE use 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

In wave 2, the respondent was 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.

The Life History Survey (wave 3) also asked about parental mortality. The Life History Survey asks respondents the age and mortality status of their biological parent, stepparent (due to death), and stepparent (due to divorce). The Life History Survey is asked at the individual level.

Wave 4 does not ask respondents to confirm or dispute previous wave parent mortality status. Due to this, wave 4 does not include flag variables for parent mortality. Please note that there are a number of cases in which the respondent reports the parent was deceased last wave, but alive the current wave. Wave 4 does not correct for such differences, as previous waves do.

Wave 4 differs in the questioning of parental mortality and age. In wave 1 and 2, respondents report once age and whether a parent is alive or not, making note of parental type only after the question is asked. Wave 4 asks respondents to report parental age and morality for biological parents, stepparents, and adoptive parents. Wave 4 is coded to prioritize response for biological parents, adoptive parents, stepparents, and reports of living with a parent, in that order.

There is an unusually high number of reports of deceased mothers and fathers at Wave 4 especially for respondents who joined the sample at Wave 3. Currently these reports are left in the Harmonized data file as they are accurate representations of the current CHARLS data.

Wave 1 uses the Family Information data file. Wave 2 and 4 use the constructed Parent data files.

Wave 1 indicates if a respondent refuse or don't know. Starting in wave 2, there is no refuse or don't know cases reported. If a respondent was in wave 1 with (.d) coded, the special missing is carried forward if current wave is (.m) missing.

Differences with the RAND 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
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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
Wave 3:
A11A_3            Is Step Father Living
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_3            Is Step Mother Living
A11B_4_1          Passed Away Year
A12A_3            Is Step Father Living
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_3            Is Step Mother Living
A12B_4_1          Passed Away Year
A12B_4_2          Passed Away Age
A12B_4_2          Passed Away Age
A1A               Is Your Biological Mother Living
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        A1A             Is Your Biological Mother Living
        A1B             Is Biological Father 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[I
        A2B_2           When did she pass away? $Answer2$ year $Answer3$ month[I
        A5A             Biological Mother's Birth Year
        A5B             Birth Year of Biological Father
        A5D             Birth Year of Step Mother
        A5D             Birth Year of Step Mother
        A5F             Birth Year of Step Father
        A5F             Birth Year of Step Father
Wave 4:
        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
        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_1_   R's Biological Father Is Still Alive
        CA000_W3_2_2_   Spouse'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_1_   R's Biological Mother is Still Alive
        CA001_W3_2_2_   Spouse'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_1_   R's Stepfather Is Still Living
        CA004_W3_2_2_   Spouse'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_1_   R's Stepmother Is Still Living
        CA005_W3_2_2_   Spouse'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_1_   R's Adopted Father Is Still Living
        CA006_W3_2_2_   Spouse's Adopted Father Is Still Living
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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_1_    R's Adopted Mother Is Still Living
CA007_W3_2_2_    Spouse'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
```

Parents' 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	23343	1.38	1.06	1.00	11.00
S1MEDUC_C	14421	1.28	0.90	1.00	9.00
S2MEDUC_C	14803	1.33	0.99	1.00	11.00
S3MEDUC_C	15860	1.36	1.02	1.00	11.00
S4MEDUC_C	15925	1.39	1.05	1.00	9.00
RAFEDUC_C	23503	2.11	1.64	1.00	10.00
S1FEDUC_C	14199	1.93	1.51	1.00	10.00
S2FEDUC_C	14232	2.02	1.57	1.00	10.00
S3FEDUC_C	16179	2.11	1.61	1.00	10.00
S4FEDUC_C	15891	2.14	1.63	1.00	10.00

Categorical Variable Codes

Value	RAMEDUC_C
.d:dk	138
.m:missing	2020
.u:unmar	2
.v:sp nr	1
1.No formal education illiterate	19809
2.Did not finish primary school but capa	1236
3.Sishu	310
4.Elementary school	1327
5.Middle school	402
6.High school	137
7.Vocational school	83
8.Two/Three Year College/Associate degre	10
9.Four Year College/Bachelor's degree	28
11.Post-graduate(PhD)	1

Value	S1MEDUC_C	S2MEDUC_C	S3MEDUC_C	S4MEDUC_C
.d:dk	504	322		7
.m:missing	519	1077	730	2248
.r:refuse	4	1		
.u:unmar	2260	2409	2595	2742
.v:sp nr			1358	175
1.No formal education illiterate	12797	12830	13508	13420
2.Did not finish primary school but capa	587	750	854	898
3.Sishu	181	171	205	204
4.Elementary school	587	677	891	977
5.Middle school	159	224	265	269
6.High school	55	83	74	86

7.Vocational school	43	42	45	49
8.Two/Three Year College/Associate degre	4	9	5	4
9.Four Year College/Bachelor's degree	8	16	12	18
11.Post-graduate(PhD)		1	1	

Value	RAFEDUC_C
.d:dk	393
.m:missing	1495
.r:refuse	2
.u:unmar	17
.v:sp nr	19
1.No formal education illiterate	13616
2.Did not finish primary school but capa	2903
3.Sishu	1940
4.Elementary school	2874
5.Middle school	1174
6.High school	444
7.Vocational school	305
8.Two/Three Year College/Associate degre	94
9.Four Year College/Bachelor's degree	150
10.Post-graduate(Master)	3

Value	S1FEDUC_C	S2FEDUC_C	S3FEDUC_C	S4FEDUC_C
.d:dk	947	671	123	121
.m:missing	298	1298	288	2087
.r:refuse	4			
.u:unmar	2260	2411	2595	2743
.v:sp nr			1358	180
1.No formal education illiterate	8929	8547	9237	8953
2.Did not finish primary school but capa	1626	1795	2093	2082
3.Sishu	1206	1154	1310	1262
4.Elementary school	1455	1611	2068	2085
5.Middle school	529	598	818	853
6.High school	209	247	317	317
7.Vocational school	136	150	202	196
8.Two/Three Year College/Associate degre	43	51	61	62
9.Four Year College/Bachelor's degree	65	78	72	80
10.Post-graduate(Master)	1	1	1	1

How Constructed:

Parental education questions are asked in the CHARLS family module to the family respondent. The family respondent is asked about both his or her own mother and father and their spouse's mother and father. The family respondent can be identified using RwFAMR.

RAMEDUC_C is the highest completed level of education that the respondent's mother completed. RAFEDUC_C is the highest completed level of education that the respondent's father completed. 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 years college, 9.Four years college (Bachelor Degree), 10.Post-graduateb (Master) and 11.Post-graduateb (PhD). RAMEDUC_C and RAFEDUC_C are constructed by looking at reports from all waves of data. The first non-missing report of education level is always used. Don't know, refuse, or other missing responses are coded as (.d), (.r), and (.m), respectively. RAMEDUC_C and RAFEDUC_C are coded as blank missing (.) when respondents did not respond to this wave.

SwMEDUC_C and SwFEDUC_C indicate the highest completed level of education of the respondent's spouse's mother and father, respectively. If the spouse does not change across the waves, the first non-missing report of education level is always used. In addition to the codes used in RAMEDUC_C and RAFEDUC_C, SwMEDUC_C and SwFEDUC_C, use 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

The Life History Survey (wave 3) also asks about parental education. The Life History Survey and wave 4 ask what the highest level of education that each parent type (i.e. biological parent, stepparent, or adoptive parent) completed.

Differences with the RAND HRS

The RAND HRS uses different categories for parent education than CHARLS. As such, RAMEDUC_C and RAFEDUC_C in CHARLS use a different naming convention than RAMEDUC and RAFEDUC in the HRS.

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
Wave 3:
    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 4:
    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
```

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
  4 H4CORESD   h4coresd:w4 Any child co-reside with r/s   Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CORESD	17226	0.62	0.49	0.00	1.00
H2CORESD	18129	0.55	0.50	0.00	1.00
H4CORESD	20826	0.58	0.49	0.00	1.00

Categorical Variable Codes

Value	H1CORESD	H2CORESD	H4CORESD
.k:No Kid	480	478	271
.m:missing		5	
0.no	6543	8226	8797
1.yes	10683	9903	12029

How Constructed:

HwCORESD indicates whether any child is co-residing with the respondent and his/her spouse or
partner.

CHARLS asks the household respondent to identify all household members, which can include
biological children, adopted children, foster children, and stepchildren. HwCORESD is coded as 1 if
the respondent reported that any child co-resides with respondent or spouse. Otherwise, HwCORESD is
coded as 0. Special missing code (.k) is assigned if the respondent reports not having any living
children. HwCORESD is set to plain missing (.) for respondents who did not respond to this wave.

In Wave 1 there are two ways to identify whether any child co-resides with the respondent. The
first is through the Household Roster which identifies each household member's relationship to the
household respondent, including whether their child. The second is in the Childbearing Information
module, in which the household respondent reports where each child who was not already listed as a
household member normally lives, including, in the same household as themselves.

In Wave 2 and forward, there are two ways to identify whether any child co-resides with the
respondent. The first is through the Other Household Members subsection (wave 2) and Household
Members subsection (wave 4), which identifies household member's relationship to the household
respondent, including whether they are a child of the respondent. The second is in the Childbearing
information module, where the family respondent is asked whether all children previously listed
(whether they are household members or not) normally lives in the same household as themselves.

Cross Wave Differences in CHARLS

In Wave 1, the co-resident status of each child is obtained either because the child is listed in
the Household Roster or because a child not listed in Household Roster is later reported to live in
the same household as the respondent in the Childbearing Information module.

In Wave 2 and forward, the co-resident status of each child is obtained either because the child is
listed in the Other Household Members module (wave 2) and Household Members module (wave 4) as a
child of the household respondent, or because a child (regardless of whether previously identified
as a household member or not) is reported to live in the same household as the respondent in the
Childbearing Information module.

Differences with the RAND 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
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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 4:
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
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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_1 The Gender Of R's No.1 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
```

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
  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
H4LVNEAR        20425        0.86         0.35         0.00         1.00
```

Categorical Variable Codes

```
Value-------------------------------|   H1LVNEAR      H2LVNEAR               H4LVNEAR
.k:No Kid                           |        480           478                    271
.m:missing                          |                                             401
0.no                                |       1402          2068                   2826
1.yes                               |      15826         16066                  17599
```

How Constructed:

HwLVNEAR indicates whether the respondent or spouse has a child who lives in the same city or county as the respondent. HwLVNEAR is coded as 1 if any child co-resides or any non-co-resides child lives in the same city or county as the respondent. HwLVNEAR is coded as 0 if they have living children but none of their children co-reside nor live in the same city or county as the respondent. Special missing (.k) is assigned if the respondent does not have any children. Don't know or refused responses are assigned special missing value (.d) or (.r), respectively. Special missing (.m) is assigned if the response is missing for some other reason. Responses are set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in CHARLS

In the 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 you

3) Another household in this village/neighborhood

4) Another village/neighborhood in this county/city/district; distance from here: _____km

5) Another county/city in this province

6) Another province

7) Abroad

Starting in wave 2, the options to the same question are changed to:

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, distance from here: _____km

6) Other

7) Abroad

Differences with the RAND 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
```

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    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 4:
    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_1 The Gender Of R's No.1 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
```

Any Weekly Contact with Parents/Parents-in-law in Person

```
Wave Variable      Label                                                        Type

  1  H1PCNTF       h1pcntf:w1 any weekly contact w/ parents/parents-in-law in p  Categ
  2  H2PCNTF       h2pcntf:w2 any weekly contact w/ parents/parents-in-law in p  Categ
  4  H4PCNTF       h4pcntf:w4 any weekly contact w/ parents/parents-in-law in p  Categ
```

Descriptive Statistics

```
Variable          N        Mean      Std Dev     Minimum     Maximum

H1PCNTF         8466       0.60       0.49        0.00        1.00
H2PCNTF         8185       0.55       0.50        0.00        1.00
H4PCNTF         7240       0.51       0.50        0.00        1.00
```

Categorical Variable Codes

```
Value-------------------------------|    H1PCNTF     H2PCNTF              H4PCNTF
.d:dk                               |        8
.m:missing                          |      248          654                   559
.n:No parent alive                  |     8980         9773                 13298
.r:refuse                           |        6
0.no                                |     3401         3704                  3562
1.yes                               |     5065         4481                  3678
```

How Constructed:

HwPCNTF indicates whether the respondent or spouse has any weekly contact with their parents or
parents-in-law in person. A code of 1 is assigned if the family respondent reports any in-person
contact with parents or parents-in-law at least once a week. A code of 1 is also assigned if any
parent or parent-in-law co-resides with the respondent or spouse. A code of 0 is assigned if the
family respondent did not report any weekly in-person contact. If the respondent and spouse don't
have any parents alive, a special missing value .n is assigned. Don't know, refused, or missing
responses are assigned special missing values (.d), (.r), (.m), respectively. HwPCNTF is coded as
blank missing (.) when respondents did not respond to this wave.

Cross Wave Differences in CHARLS

In wave 1, respondents were not asked to report contact frequency with co-residing parents/parents-
in-law. Starting in wave 2, the respondents were asked to report contact frequency even with their
co-residing parents/parents-in-law. In all waves though, HwPCNTF is assigned a 1.yes value if any
parent or parent-in-law is living with the respondent.

In wave 1, 2, and 4 respondents are asked how often they see each type of parent. Wave 2 differs
from wave 1 and wave 4 in that, in addition to asking respondents how often they see each type of
parent (mother, father, mother-in-law, father-in-law, etc.), the respondent is also asked how often
they see their "parents" and "parents-in-law".

Differences with the RAND 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 4:
    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
```

Any Weekly Contact with Children in Person, by Phone, Mail or E-mail

```
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
  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
  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
  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
H4KCNTF       20761      0.78       0.42         0.00         1.00

H1KCNTPM      13059      0.57       0.49         0.00         1.00
H2KCNTPM      11926      0.53       0.50         0.00         1.00
H4KCNTPM      15443      0.57       0.49         0.00         1.00

H1KCNT        17259      0.93       0.26         0.00         1.00
H2KCNT        17791      0.91       0.28         0.00         1.00
H4KCNT        20767      0.92       0.27         0.00         1.00
```

Categorical Variable Codes

Value	H1KCNTF	H2KCNTF	H4KCNTF
.d:dk	6		
.k:No Kid	424	391	271
.m:missing	15	438	65
.r:refuse	2		
0.no	2995	3741	4622
1.yes	14266	14042	16139

Value	H1KCNTPM	H2KCNTPM	H4KCNTPM
.d:dk	32		
.k:No Kid	424	392	271
.m:missing	17	445	84
.r:refuse	8		
.s:skip	4168	5849	5299
0.no	5582	5600	6565
1.yes	7477	6326	8878

Value	H1KCNT	H2KCNT	H4KCNT
.d:dk	6		
.k:No Kid	424	391	271
.m:missing	17	430	59
.r:refuse	2		
0.no	1280	1577	1631
1.yes	15979	16214	19136

How Constructed:

HwKCNTF indicates whether a respondent or spouse has any weekly contact with any of their children
in person. A code of 1 is assigned if the family respondent reports weekly in-person-contact. A
code of 1 is also assigned if any of their children co-reside with the respondent or spouse. A code
of 0 is assigned if the family respondent did not report any weekly in-person contact. If the

respondent and spouse don't have any children, a special missing value (.k) is assigned. Don't know, refused, or missing responses are assigned special missing values (.d), (.r), and (.m), respectively.

HwKCNTPM indicates whether a respondent or spouse has any weekly contact with any of their children by phone, text message, mail or e-mail. A code of 1 is assigned if the family respondent reports any weekly contact by phone, text message, mail or e-mail. A code of 0 is assigned if the family respondent did not report any weekly contact by phone, mail, or e-mail. If the respondent and spouse don't have any children, a special missing value (.k) is assigned. If the respondent and spouse were not asked the question because they gave positive answer in weekly in-person contact question, a special missing value (.s) is assigned. Don't know, refused, or missing responses are assigned special missing values (.d), (.r), and (.m), respectively.

HwKCNT indicates whether a respondent or spouse has weekly contact with any of their children in person, by phone, by text message, by mail or e-mail. HwKCNT is derived using HwKCNTF and HwKCNTPM. A code of 1 is assigned if the family respondent reports any weekly contact either in person or by phone, mail or e-mail. A code of 0 is assigned if the family respondent did not report any weekly contact. If the respondent and spouse don't have any children, a special missing value (.k) is assigned. If the respondent and spouse were not asked the question because they gave positive answer in weekly in-person contact question, a special missing value (.s) is assigned. Don't know, refused, or missing responses are assigned special missing values (.d), (.r), and (.m), respectively.

The respondent and spouse's contact with their non-co-residing children are asked to the family respondent. Specifically, respondents are asked about in-person contact and contact by phone, mail, or e-mail.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND 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
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```
    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 4:
    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
```

Participates in Social Groups

```
Wave Variable     Label                                                  Type

  1  R1SOCWK      r1socwk:w1 r participate in social activities          Categ
  2  R2SOCWK      r2socwk:w2 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
  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
R4SOCWK       19696       0.50        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
S4SOCWK       16753       0.50        0.50         0.00         1.00
```

Categorical Variable Codes

```
Value--------------------------------|    R1SOCWK      R2SOCWK                  R4SOCWK
.d:dk                                |       12
.m:missing                           |     1470         1793                     1401
.r:refuse                            |        2
0.no                                 |     8631         7852                     9912
1.yes                                |     7593         8967                     9784

Value--------------------------------|    S1SOCWK      S2SOCWK                  S4SOCWK
.d:dk                                |       10
.m:missing                           |     1194         1359                      971
.r:refuse                            |        1
.u:unmar                             |     2260         2401                     2719
.v:sp nr                             |      538          623                      650
0.no                                 |     7310         6717                     8438
1.yes                                |     6395         7504                     8315
```

How Constructed:

RwSOCWK indicates whether the respondent participates in any social activities. A code of 0 indicates that the respondent does not participate in social groups or social activities, and a code of 1 indicates that the respondent does participate in one of the social activities.

The social activities listed include:

1. Interacted with friend

2. Played Ma-jong, chess, cards, or went to a community club

3. Went to a sporting event, participated in a social group, or participated in some other sort of club

4. Took part in a community-related organization

5. Took part in voluntary or charity work

6. Attended an educational or training course

Don't know and refuse responses are coded as (.d) and (.r), respectively. Special missing code (.m)
is assigned if the response is missing for another reason. RwSOCWK is set to blank missing (.) for
respondents who did not respond to the current wave.

SwSOCWK indicates whether the respondent's spouse participates in social groups. SwSOCWK is taken
from the spouse's values to RwSOCWK. In addition to the special missing codes used in RwSOCWK,
SwSOCWK employs two additional special missing values, (.u) and (.v). If the respondent is not
designated as coupled in the current wave, special missing value of (.u) is assigned. If the
respondent is not designated as coupled in the current wave but reports being married, special
missing value (.v) is assigned.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND 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 t
    DA056S3        Do Activities LM of Provided Help to People Who Lived Ap
    DA056S4        Do Activities LM of Went to Club
    DA056S5        Do Activities LM of Took Part In A Community-related Org
    DA056S6        Do Activities LM of Voluntary or Charity
    DA056S7        Do Activities LM of Cared for A Sick or Disabled Adult W
    DA056S8        Do Activities LM of Attended An Educational or Training
    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 4:
    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
```

Provide Informal Care to Family Member

```
Wave Variable      Label                                                      Type

  1  H1GRCARE      h1grcare:w1 gave care to parents/parents-in-law            Categ
  2  H2GRCARE      h2grcare:w2 gave care to parents/parents-in-law            Categ

  1  H1GKCARE      h1gkcare:w1 gave care grandchildren                        Categ
  2  H2GKCARE      h2gkcare:w2 gave care grandchildren                        Categ
  4  H4GKCARE      h4gkcare:w4 gave care grandchildren                        Categ
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1GRCARE	8448	0.29	0.45	0.00	1.00
H2GRCARE	5336	0.37	0.48	0.00	1.00
H1GKCARE	10866	0.49	0.50	0.00	1.00
H2GKCARE	13213	0.51	0.50	0.00	1.00
H4GKCARE	14937	0.53	0.50	0.00	1.00

Categorical Variable Codes

Value	H1GRCARE	H2GRCARE	
.d:dk	4		
.h:Live in the same household		62	
.m:missing	264	759	
.n:No parent alive	8990	9841	
.r:refuse	2		
.s:skip		2614	
0.no	6018	3346	
1.yes	2430	1990	

Value	H1GKCARE	H2GKCARE	H4GKCARE
.d:dk	4		
.g:no young grandchildren	4930	4913	5822
.k:No Kid	445	419	271
.m:missing	1463	67	67
0.no	5522	6412	7038
1.yes	5344	6801	7899

How Constructed:

HwGRCARE indicates whether a respondent and spouse gave any informal care to parents/parents-in-law in the past year. A code of 1 is assigned if the family respondent reports that they or their spouse spent time taking care of parents and/or parents-in-law. A code of 0 is assigned if the family respondent indicates they or their spouse did not provide any care in the last year to parents and/or parents-in-law. If the respondent and spouse don't have any parents alive, a special missing value (.n) is assigned. Special missing (.h) is assigned in wave 2 and forward if the question was skipped because both of or the one living parent of the family respondent is living in the household with the respondent. Special missing (.s) is assigned in wave 2 and forward if both of the family respondent's parents were not living at the last wave but at least one of the family respondent's spouse's parents was living at the last wave. In these cases in wave 2 and forward, the question about providing informal care to parents and parents-in-law was not asked. Don't know, refused, or missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwGRCARE is coded as blank missing (.) if a respondent did not respond to this wave.

HwGKCARE indicates whether respondent and spouse gave any informal care to their grandchildren in the past year. A code of 1 is assigned if the respondent and spouse report looking after their grandchildren in the past year. A code of 0 indicates that the respondent and spouse did not provide any care to grandchildren in the past year. If the respondent and spouse don't have any children, a special missing value (.k) is assigned. If the respondents were not asked the question because they do not have any grandchildren under the age of 16, special missing (.g) is assigned.

Don't know, refused, or missing responses are assigned special missing values (.d), (.r), and (.m), respectively. HwPCNTF is coded as blank missing (.) if a respondent did not respond to this wave.

Cross Wave Differences in CHARLS

In wave 1, all family respondents were asked whether they or their spouse have spent time taking care of their parents or parents-in-law, even if they have no living parents. Starting in Wave 2, CHARLS only asks this question to family respondents who have at least one of their own parents still alive and at least one of their own parents is not living with the respondent. In order to provide a more comparable cross-wave variable, wave 1 households who reported not taking care of the parents and parents-in-law and who had no living parents were assigned a special missing value (.n) instead of a 0 value. Special missing (.h) is assigned in wave 2 and forward if the question was skipped because both or one living parent of the family respondent is living in the household with the respondent. Special missing (.s) is assigned in wave 2 and forward if the question was skipped because both of the family respondent's parents were not living at the last wave but at least one of the family respondent's spouse's parents was living at the last wave, making it not possible to determine whether the household provided care to the parents of the family respondent's spouse.

There is large number of wave 1 households with (.m) missing values for whether the household gave care to 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 and they have been assigned special missing (.m).

Wave 2 asked the respondent if they spend any time taking care of their grandchildren or great-grandchildren while in other waves, respondents are only asked about spending time taking care of grandchildren.

In Wave 4, the question regarding whether the respondent took any time caring for their grandchildren in the past year is included in the questionnaire however, the current CHARLS wave 4 public data does not contain any values for the corresponding variable. Wave 4 does not include HwGRCARE for this reason.

Differences with the RAND 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
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    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
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
    ZA002_10_        gender of household member
    ZA002_11_        gender of household member
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    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 4:
    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
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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
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
```

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
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
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
H4FCANY	20826	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
H4FCAMT	20826	5402.18	15944.10	0.00	750000.00

Categorical Variable Codes

Value	H1FCANY	H2FCANY	H4FCANY
.d:dk	9		
.m:missing	71	2406	271
.r:refuse	1		
0.no	11606	5730	5435
1.yes	6021	10476	15391

How Constructed:

HwFCANY indicates whether the respondent and spouse received any economic assistance from their children or grandchildren in the past year. In Wave 1 and Wave 2, HwFCANY includes economic assistance from non-resident children and grandchildren. Starting in Wave 4, HwFCANY includes economic assistance from all living children and does not include economic assistance from grandchildren. HwFCANY includes both regular and non-regular, monetary or in-kind assistance. A code of 0 indicates that the respondent and spouse did not receive any economic support from children or grandchildren. A code of 1 indicates that the respondent and spouse receive some economic support from children or grandchildren.

HwFCAMT is the amount of economic assistance that the respondent and spouse received from their children or grandchildren in the past year. In Wave 1 and Wave 2, HwFCAMT includes economic assistance from non-resident children and grandchildren. Starting in Wave 4, HwFCAMT includes economic assistance from all living children and does not include economic assistance from grandchildren. HwFCAMT is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

In wave 1, the respondent reported regular assistance from children, regular in-kind assistance from children, non-regular assistance from children and non-regular in-kind assistance from children in monthly, quarterly, half-yearly, or yearly regular transfers. Starting in wave 2, respondents report regular and non-regular assistance from their children as two separated values. Regular transfers include living expenses, water, electricity, telephone expenses, loan payments or rents. Non-regular transfers include the amount for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes and others expenses.

Don't know, refused, or other missing responses are assigned special missing codes (.d), (.r), (.m), respectively. If the questions were skipped because the respondent does not have any children or there are no non-co-residing children or grandchildren, HwFCNAY and HwFCAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, respondents were asked to report the amount of transfers received from the non-coresident children/children-in-law in the past year and needed to specify the amount for each type of support to a child. The respondent could report the amount of regular and non-regular transfer in monthly, quarterly, half-yearly, or yearly.

Starting in wave 2, respondents were asked to report in the past year the amount of economic support that the respondent and spouse received from the non-coresident children/children-in-law. The respondent reported the total amount of the transfer and then asked how much the regular transfer is among the total transfer.

Starting in wave 2, CHARLS does not ask an entry question, i.e., whether a respondent receives or gives economic support and only the amount received is asked.

Starting in Wave 4, CHARLS does not ask about economic assistance from grandchildren so assistance from grandchildren is not accounted for starting in Wave 4. Also starting in Wave 4, CHARLS asks about economic assistance from all living children, so starting in Wave 4 assistance from coresident children is included.

Wave 4 preloads the parent type combination previously distinguished by the respondent, between biological children, stepchildren, and adoptive children.

Differences with the RAND 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:
    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
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    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
    CE007           any transfer from non-coresident children
    CE009_1_1       regular monetary support
    CE009_1_2       regular in-kind support
    CE009_1_3       non-regular monetary support
    CE009_1_4       non-regular in-kind support
    CE009_2_1       regular monetary support
    CE009_2_2       regular in-kind support
    CE009_2_3       non-regular monetary support
    CE009_2_4       non-regular in-kind support
    CE009_3_1       regular monetary support
    CE009_3_2       regular in-kind support
    CE009_3_3       non-regular monetary support
    CE009_3_4       non-regular in-kind support
    CE009_4_1       regular monetary support
    CE009_4_2       regular in-kind support
    CE009_4_3       non-regular monetary support
    CE009_4_4       non-regular in-kind support
    CE009_5_1       regular monetary support
    CE009_5_2       regular in-kind support
    CE009_5_3       non-regular monetary support
    CE009_5_4       non-regular in-kind support
    CE009_6_1       regular monetary support
    CE009_6_2       regular in-kind support
    CE009_6_3       non-regular monetary support
    CE009_6_4       non-regular in-kind support
    CE009_7_1       regular monetary support
    CE009_7_2       regular in-kind support
    CE009_7_3       non-regular monetary support
    CE009_7_4       non-regular in-kind support
    CE009_8_1       regular monetary support
    CE009_8_2       regular in-kind support
    CE009_8_3       non-regular monetary support
    CE009_8_4       non-regular in-kind support
    W1
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
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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
CE009_1_10_     total money support from child10 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_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_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_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
CE013_1_1_      total money support from children of child1 in the past
CE013_1_2_      total money support from children of child2 in the past
CE013_1_3_      total money support from children of child3 in the past
CE013_1_4_      total money support from children of child4 in the past
CE013_1_4_      total money support from children of child4 in the past
CE013_1_5_      total money support from children of child5 in the past
CE013_1_6_      total money support from children of child6 in the past
CE013_1_7_      total money support from children of child7 in the past
CE013_1_8_      total money support from children of child8 in the past
CE013_1_9_      total money support from children of child9 in the past
CE013_3_11_     total in-kind support from children of child11 in the pa
CE013_3_1_      total in-kind support from children of child1 in the pas
CE013_3_2_      total in-kind support from children of child2 in the pas
CE013_3_3_      total in-kind support from children of child3 in the pas
CE013_3_4_      total in-kind support from children of child4 in the pas
CE013_3_4_      total in-kind support from children of child4 in the pas
CE013_3_5_      total in-kind support from children of child5 in the pas
CE013_3_6_      total in-kind support from children of child6 in the pas
CE013_3_7_      total in-kind support from children of child7 in the pas
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CE013_3_8_       total in-kind support from children of child8 in the pas
CE013_3_9_       total in-kind support from children of child9 in the pas
CF007_W2         respondent receive assistance in answering section
W2
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:
W3
Wave 4:
CE009_1_10_      Total Money Support From Non-Coresident Child 10 in The
CE009_1_11_      Total Money Support From Non-Coresident Child 11 in The
CE009_1_12_      Total Money Support From Non-Coresident Child 12 in The
CE009_1_13_      Total Money Support From Non-Coresident Child 13 in The
CE009_1_14_      Total Money Support From Non-Coresident Child 14 in The
CE009_1_15_      Total Money Support From Non-Coresident Child 15 in The
CE009_1_16_      Total Money Support From Non-Coresident Child 16 in The
CE009_1_1_       Total Money Support From Non-Coresident Child 1 in The P
CE009_1_2_       Total Money Support From Non-Coresident Child 2 in The P
CE009_1_3_       Total Money Support From Non-Coresident Child 3 in The P
CE009_1_4_       Total Money Support From Non-Coresident Child 4 in The P
CE009_1_5_       Total Money Support From Non-Coresident Child 5 in The P
CE009_1_6_       Total Money Support From Non-Coresident Child 6 in The P
CE009_1_7_       Total Money Support From Non-Coresident Child 7 in The P
CE009_1_8_       Total Money Support From Non-Coresident Child 8 in The P
CE009_1_9_       Total Money Support From Non-Coresident Child 9 in The P
CE009_3_10_      Total in-Kind Support From Non-Coresident Child 10 in Th
CE009_3_11_      Total in-Kind Support From Non-Coresident Child 11 in Th
CE009_3_12_      Total in-Kind Support From Non-Coresident Child 12 in Th
CE009_3_13_      Total in-Kind Support From Non-Coresident Child 13 in Th
CE009_3_14_      Total in-Kind Support From Non-Coresident Child 14 in Th
CE009_3_15_      Total in-Kind Support From Non-Coresident Child 15 in Th
CE009_3_16_      Total in-Kind Support From Non-Coresident Child 16 in Th
CE009_3_1_       Total in-Kind Support From Non-Coresident Child 1 in The
CE009_3_2_       Total in-Kind Support From Non-Coresident Child 2 in The
CE009_3_3_       Total in-Kind Support From Non-Coresident Child 3 in The
CE009_3_4_       Total in-Kind Support From Non-Coresident Child 4 in The
CE009_3_5_       Total in-Kind Support From Non-Coresident Child 5 in The
CE009_3_6_       Total in-Kind Support From Non-Coresident Child 6 in The
CE009_3_7_       Total in-Kind Support From Non-Coresident Child 7 in The
CE009_3_8_       Total in-Kind Support From Non-Coresident Child 8 in The
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CE009_3_9_   Total in-Kind Support From Non-Coresident Child 9 in The

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
  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
  4  H4TCAMT        h4tcamt:w4 amount of transfers to children/grandchildren     Cont
```

Descriptive Statistics

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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
H4TCANY        20826         0.49           0.50           0.00           1.00

H1TCAMT        17549      1329.22       12404.87           0.00      600000.00
H2TCAMT        16259      2620.64       15842.21           0.00      500000.00
H4TCAMT        20826      6556.48       24208.72           0.00      800000.00
```

Categorical Variable Codes

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Value-------------------------------|     H1TCANY       H2TCANY              H4TCANY
.d:dk                               |           6
.m:missing                          |          85          2353                  271
.r:refuse                           |           2
0.no                                |       14611         10123                10544
1.yes                               |        3004          6136                10282
```

How Constructed:

HwTCANY indicates whether the respondent and spouse provided any economic assistance to their children or grandchildren in the past year. In Wave 1 and Wave 2, HwTCANY includes economic assistance to non-resident children and grandchildren. Starting in Wave 4, HwTCANY includes economic assistance to all living children and does not include economic assistance to grandchildren. HwTCANY includes both regular and non-regular, monetary or in-kind assistance. A code of 0 indicates that the respondent and spouse did not provide any economic support to children or grandchildren. A code of 1 indicates that the respondent and spouse provided some economic support to children or grandchildren.

HwTCAMT is the amount of economic assistance that the respondent and spouse provided to their children or grandchildren in the past year. In Wave 1 and Wave 2, HwTCAMT includes economic assistance to non-resident children and grandchildren. Starting in Wave 4, HwTCAMT includes economic assistance to all living children and does not include economic assistance to grandchildren. HwTCAMT is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

In wave 1, the respondent reported regular assistance to children, regular in-kind assistance to children, non-regular assistance to children and non-regular in-kind assistance to children in monthly, quarterly, half-yearly, or yearly regular transfers. Starting in wave 2, respondents report regular and non-regular assistance to their children as two separated values. Regular transfers include living expenses, water, electricity, telephone expenses, loan payments or rents. Non-regular transfers include the amount for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes and others expenses.

Don't know, refused, or other missing responses are assigned special missing codes (.d), (.r), (.m), respectively. If the questions were skipped because the respondent does not have any children or there are no non-co-residing children or grandchildren, HwFCNAY and HwTCAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, respondents were asked to report the amount of transfers provided to the non-co-resident children/children-in-law in the past year and needed to specify the amount for each type of support to a child. The respondent could report the amount of regular and non-regular transfer in monthly, quarterly, half-yearly, or yearly.

Starting in wave 2, respondents were asked to report in the past year the amount of economic support that the respondent and spouse provided to the non-co-resident children/children-in-law. The respondent reported the total amount of the transfer and then asked how much the regular transfer is among the total transfer.

Starting in wave 2, CHARLS does not ask an entry question, i.e., whether a respondent provides or gives economic support and only the amount provided is asked.

Starting in Wave 4, CHARLS does not ask about economic assistance to grandchildren so assistance to grandchildren is not accounted for starting in Wave 4. Also starting in Wave 4, CHARLS asks about economic assistance to all living children, so starting in Wave 4 assistance to co-resident children is included.

Wave 4 preloads the parent type combination previously distinguished by the respondent, between biological children, stepchildren, and adoptive children.

Differences with the RAND 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:
    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
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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
CE027           any transfer to non-coresident children
CE029_10_1      regular monetary support
CE029_10_2      regular in-kind support
CE029_10_3      non-regular monetary support
CE029_10_4      non-regular in-kind support
CE029_1_1       regular monetary support
CE029_1_2       regular in-kind support
CE029_1_3       non-regular monetary support
CE029_1_4       non-regular in-kind support
CE029_2_1       regular monetary support
CE029_2_2       regular in-kind support
CE029_2_3       non-regular monetary support
CE029_2_4       non-regular in-kind support
CE029_3_1       regular monetary support
CE029_3_2       regular in-kind support
CE029_3_3       non-regular monetary support
CE029_3_4       non-regular in-kind support
CE029_4_1       regular monetary support
CE029_4_2       regular in-kind support
CE029_4_3       non-regular monetary support
CE029_4_4       non-regular in-kind support
CE029_5_1       regular monetary support
CE029_5_2       regular in-kind support
CE029_5_3       non-regular monetary support
CE029_5_4       non-regular in-kind support
CE029_6_1       regular monetary support
CE029_6_2       regular in-kind support
CE029_6_3       non-regular monetary support
CE029_6_4       non-regular in-kind support
CE029_7_1       regular monetary support
CE029_7_2       regular in-kind support
CE029_7_3       non-regular monetary support
CE029_7_4       non-regular in-kind support
CE029_8_1       regular monetary support
CE029_8_2       regular in-kind support
CE029_8_3       non-regular monetary support
CE029_8_4       non-regular in-kind support
CE029_9_1       regular monetary support
CE029_9_2       regular in-kind support
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_2      regular in-kind support
CE033_10_3      non-regular monetary support
CE033_10_4      non-regular in-kind support
CE033_1_1       regular monetary support
CE033_1_2       regular in-kind support
CE033_1_3       non-regular monetary support
CE033_1_4       non-regular in-kind support
CE033_2_1       regular monetary support
CE033_2_2       regular in-kind support
CE033_2_3       non-regular monetary support
CE033_2_4       non-regular in-kind support
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    CE033_3_1        regular monetary support
    CE033_3_2        regular in-kind support
    CE033_3_3        non-regular monetary support
    CE033_3_4        non-regular in-kind support
    CE033_4_1        regular monetary support
    CE033_4_2        regular in-kind support
    CE033_4_3        non-regular monetary support
    CE033_4_4        non-regular in-kind support
    CE033_5_1        regular monetary support
    CE033_5_2        regular in-kind support
    CE033_5_3        non-regular monetary support
    CE033_5_4        non-regular in-kind support
    CE033_6_1        regular monetary support
    CE033_6_2        regular in-kind support
    CE033_6_3        non-regular monetary support
    CE033_6_4        non-regular in-kind support
    CE033_7_1        regular monetary support
    CE033_7_2        regular in-kind support
    CE033_7_3        non-regular monetary support
    CE033_7_4        non-regular in-kind support
    CE033_8_1        regular monetary support
    CE033_8_2        regular in-kind support
    CE033_8_3        non-regular monetary support
    CE033_8_4        non-regular in-kind support
    CE033_9_1        regular monetary support
    CE033_9_2        regular in-kind support
    CE033_9_3        non-regular monetary support
    CE033_9_4        non-regular in-kind support
    W1
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
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CB049_6_        gender of child
CB049_7_        gender of child
CB049_8_        gender of child
CB049_9_        gender of child
CE029_1_10_     total money support to child10 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_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_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_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 y
CE031_1_1_      total money support to children of child1 in the past ye
CE031_1_2_      total money support to children of child2 in the past ye
CE031_1_3_      total money support to children of child3 in the past ye
CE031_1_4_      total money support to children of child4 in the past ye
CE031_1_4_      total money support to children of child4 in the past ye
CE031_1_5_      total money support to children of child5 in the past ye
CE031_1_6_      total money support to children of child6 in the past ye
CE031_1_7_      total money support to children of child7 in the past ye
CE031_1_8_      total money support to children of child8 in the past ye
CE031_1_9_      total money support to children of child9 in the past ye
CE031_3_11_     total in-kind support to children of child11 in the past
CE031_3_1_      total in-kind support to children of child1 in the past
CE031_3_2_      total in-kind support to children of child2 in the past
CE031_3_3_      total in-kind support to children of child3 in the past
CE031_3_4_      total in-kind support to children of child4 in the past
CE031_3_4_      total in-kind support to children of child4 in the past
CE031_3_5_      total in-kind support to children of child5 in the past
CE031_3_6_      total in-kind support to children of child6 in the past
CE031_3_7_      total in-kind support to children of child7 in the past
CE031_3_8_      total in-kind support to children of child8 in the past
CE031_3_9_      total in-kind support to children of child9 in the past
W2
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 4:
    CE029_1_10_    Total Money Support to Non-Coresident Child 10 in The Pa
    CE029_1_11_    Total Money Support to Non-Coresident Child 11 in The Pa
    CE029_1_12_    Total Money Support to Non-Coresident Child 12 in The Pa
    CE029_1_13_    Total Money Support to Non-Coresident Child 13 in The Pa
    CE029_1_14_    Total Money Support to Non-Coresident Child 14 in The Pa
    CE029_1_15_    Total Money Support to Non-Coresident Child 15 in The Pa
    CE029_1_16_    Total Money Support to Non-Coresident Child 16 in The Pa
    CE029_1_1_     Total Money Support to Non-Coresident Child 1 in The Pas
    CE029_1_2_     Total Money Support to Non-Coresident Child 2 in The Pas
    CE029_1_3_     Total Money Support to Non-Coresident Child 3 in The Pas
    CE029_1_4_     Total Money Support to Non-Coresident Child 4 in The Pas
    CE029_1_5_     Total Money Support to Non-Coresident Child 5 in The Pas
    CE029_1_6_     Total Money Support to Non-Coresident Child 6 in The Pas
    CE029_1_7_     Total Money Support to Non-Coresident Child 7 in The Pas
    CE029_1_8_     Total Money Support to Non-Coresident Child 8 in The Pas
    CE029_1_9_     Total Money Support to Non-Coresident Child 9 in The Pas
    CE029_3_10_    Total in-Kind Support to Non-Coresident Child 10 in The
    CE029_3_11_    Total in-Kind Support to Non-Coresident Child 11 in The
    CE029_3_12_    Total in-Kind Support to Non-Coresident Child 12 in The
    CE029_3_13_    Total in-Kind Support to Non-Coresident Child 13 in The
    CE029_3_14_    Total in-Kind Support to Non-Coresident Child 14 in The
    CE029_3_15_    Total in-Kind Support to Non-Coresident Child 15 in The
    CE029_3_16_    Total in-Kind Support to Non-Coresident Child 16 in The
    CE029_3_1_     Total in-Kind Support to Non-Coresident Child 1 in The P
    CE029_3_2_     Total in-Kind Support to Non-Coresident Child 2 in The P
    CE029_3_3_     Total in-Kind Support to Non-Coresident Child 3 in The P
    CE029_3_4_     Total in-Kind Support to Non-Coresident Child 4 in The P
    CE029_3_5_     Total in-Kind Support to Non-Coresident Child 5 in The P
    CE029_3_6_     Total in-Kind Support to Non-Coresident Child 6 in The P
    CE029_3_7_     Total in-Kind Support to Non-Coresident Child 7 in The P
    CE029_3_8_     Total in-Kind Support to Non-Coresident Child 8 in The P
    CE029_3_9_     Total in-Kind Support to Non-Coresident Child 9 in The P
```

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
  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
  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        17437        0.03          0.18         0.00         1.00
H4FPANY        21075        0.03          0.18         0.00         1.00

H1FPAMT        17202       41.44        905.43         0.00     60000.00
H2FPAMT        17437       78.93       1312.47         0.00    100000.00
H4FPAMT        21075      210.54       7562.59         0.00    750000.00
```

Categorical Variable Codes

```
Value--------------------------------|    H1FPANY      H2FPANY                H4FPANY
.d:dk                                |        6
.m:missing                           |      324         1175                    22
.r:refuse                            |        6
0.no                                 |    17062        16873                 20353
1.yes                                |      310          564                   722
```

How Constructed:

HwFPANY indicates whether the respondent and spouse received any economic assistance from their parents or parents-in-law in the past year. HwFPANY includes assistance with regular and non-regular costs. A code of 0 indicates that the respondent and spouse did not receive any economic support from parents or parents-in-law. A code of 1 indicates that the respondent and spouse receive some economic support from parents or parents-in-law.

HwFPAMT is the amount of economic assistance that the respondent and spouse received from their parents or parents-in-law in the past year. HwFPAMT is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

In wave 1, the respondent reports the regular assistance from parents, regular in-kind assistance from parents, non-regular assistance from parents and non-regular in-kind assistance from parents in monthly, quarterly, half-yearly, or yearly regular transfers. Starting in wave 2, respondents report regular and non-regular assistance from their parents as two separated values. Regular transfers include living expenses, water, electricity, telephone expenses, loan payments or rents. Non-regular transfers include the amount for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes and others expenses.

Don't know, refused, or other missing responses are assigned special missing codes (.d), (.r), (.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, HwFPNAY and HwFPAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, respondents were asked to report the amount of transfers received from the non-co-resident parents/parents-in-law in the past year and needed to specify the amount for each type of support from a parent. The respondent could report the amount of regular and non-regular transfer in monthly, quarterly, half-yearly, or yearly.

Starting in wave 2, respondents were asked to report in the past year the amount of economic support that the respondent and spouse received from the non-co-resident parents/parents-in-law. The respondent reported the total amount of the transfer and then asked how much the regular transfer is among the total transfer.

Starting in wave 2, CHARLS does not ask an entry question, i.e., whether a respondent receives or gives economic support and only the amount provided is asked.

Wave 4 preloads the parent type combination previously distinguished by the respondent, between biological parents, stepparents, and adoptive parents.

Differences with the RAND 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_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_2         regular in-kind support
    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
    CA008_1_1
    CA008_1_3_      which year pass away
    CE001
    CE002_1         total money support from parents in the past year
    CE002_3         total in-kind support from parents in the past year
    CE004
    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 ye
    CF007_W2        respondent receive assistance in answering section
Wave 4:
    CE002_1_1_      Total Money Support From Non-Coresident Parents Type 1 i
    CE002_1_2_      Total Money Support From Non-Coresident Parents Type 2 i
    CE002_1_3_      Total Money Support From Non-Coresident Parents Type 3 i
    CE002_1_4_      Total Money Support From Non-Coresident Parents Type 4 i
    CE002_1_5_      Total Money Support From Non-Coresident Parents Type 5 i
    CE002_1_6_      Total Money Support From Non-Coresident Parents Type 6 i
    CE002_1_7_      Total Money Support From Non-Coresident Parents Type 7 i
    CE002_1_8_      Total Money Support From Non-Coresident Parents Type 8 i
    CE002_3_1_      Total in-Kind Support From Non-Coresident Parents Type 1
    CE002_3_2_      Total in-Kind Support From Non-Coresident Parents Type 2
    CE002_3_3_      Total in-Kind Support From Non-Coresident Parents Type 3
    CE002_3_4_      Total in-Kind Support From Non-Coresident Parents Type 4
    CE002_3_5_      Total in-Kind Support From Non-Coresident Parents Type 5
    CE002_3_6_      Total in-Kind Support From Non-Coresident Parents Type 6
```

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CE002_3_7_      Total in-Kind Support From Non-Coresident Parents Type 7
CE002_3_8_      Total in-Kind Support From Non-Coresident Parents Type 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
  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
  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        17220        0.34          0.47          0.00          1.00
H4TPANY        21075        0.29          0.45          0.00          1.00

H1TPAMT        17266      436.46       3232.91          0.00     200000.00
H2TPAMT        17220      646.32       2273.72          0.00      68400.00
H4TPAMT        21075      587.34       2034.39          0.00      50000.00
```

Categorical Variable Codes

```
Value--------------------------------|     H1TPANY      H2TPANY                    H4TPANY
.d:dk                                |        7
.m:missing                           |      315         1392                           22
.r:refuse                            |        2
0.no                                 |    13114        11394                        15033
1.yes                                |     4270         5826                         6042
```

How Constructed:

HwTPANY indicates whether the respondent and spouse provided any economic assistance to their parents or parents-in-law in the past year. HwTPANY includes assistance with regular and non-regular costs. A code of 0 indicates that the respondent and spouse did not provide any economic support to parents or parents-in-law. A code of 1 indicates that the respondent and spouse receive some economic support to parents or parents-in-law.

HwTPAMT is the amount of economic assistance that the respondent and spouse provided to their parents or parents-in-law in the past year. HwTPAMT is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

In wave 1, the respondent reported regular assistance to parents, regular in-kind assistance to parents, non-regular assistance to parents and non-regular in-kind assistance to parents in monthly, quarterly, half-yearly, or yearly regular transfers. Starting in wave 2, respondents report regular and non-regular assistance to their parents as two separated values. Regular transfers include living expenses, water, electricity, telephone expenses, loan payments or rents. Non-regular transfers include the amount for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes and others expenses.

Don't know, refused, or other missing responses are assigned special missing codes (.d), (.r), (.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.

Cross Wave Differences in CHARLS

In wave 1, respondents were asked to report the amount of transfers provided to the non-co-resident parents/parents-in-law in the past year and needed to specify the amount for each type of support to a parent. The respondent could report the amount of regular and non-regular transfer in monthly, quarterly, half-yearly, or yearly.

Starting in wave 2, respondents were asked to report in the past year the amount of economic support that the respondent and spouse provided to the non-co-resident parents/parents-in-law. The respondent reported the total amount of the transfer and then asked how much the regular transfer is among the total transfer.

Starting in wave 2, CHARLS does not ask an entry question, i.e., whether a respondent receives or gives economic support and only the amount provided is asked.

Wave 4 preloads the parent type combination previously distinguished by the respondent, between biological parents, stepparents, and adoptive parents.

Differences with the RAND 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:
    CE022_1         regular monetary support
    CE022_2         regular in-kind support
    CE022_3         non-regular monetary support
    CE022_4         non-regular in-kind support
    CE025_1         regular monetary support
    CE025_2         regular in-kind support
    CE025_3         non-regular monetary support
    CE025_4         non-regular in-kind support
Wave 2:
    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
    CF007_W2        respondent receive assistance in answering section
Wave 4:
    CE022_1_1_      Total Money Support to Non-Coresident Parents Type 1 in
    CE022_1_2_      Total Money Support to Non-Coresident Parents Type 2 in
    CE022_1_3_      Total Money Support to Non-Coresident Parents Type 3 in
    CE022_1_4_      Total Money Support to Non-Coresident Parents Type 4 in
    CE022_1_5_      Total Money Support to Non-Coresident Parents Type 5 in
    CE022_1_6_      Total Money Support to Non-Coresident Parents Type 6 in
    CE022_1_7_      Total Money Support to Non-Coresident Parents Type 7 in
    CE022_1_8_      Total Money Support to Non-Coresident Parents Type 8 in
    CE022_3_1_      Total in-Kind Support to Non-Coresident Parents Type 1 i
    CE022_3_2_      Total in-Kind Support to Non-Coresident Parents Type 2 i
    CE022_3_3_      Total in-Kind Support to Non-Coresident Parents Type 3 i
    CE022_3_4_      Total in-Kind Support to Non-Coresident Parents Type 4 i
    CE022_3_5_      Total in-Kind Support to Non-Coresident Parents Type 5 i
    CE022_3_6_      Total in-Kind Support to Non-Coresident Parents Type 6 i
    CE022_3_7_      Total in-Kind Support to Non-Coresident Parents Type 7 i
    CE022_3_8_      Total in-Kind Support to Non-Coresident Parents Type 8 i
```

Transfers from Relatives or Others

Wave	Variable	Label	Type
1	H1FOANY	h1foany:w1 any transfer from others	Categ
2	H2FOANY	h2foany:w2 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
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
H4FOANY	20932	0.17	0.38	0.00	1.00
H1FOAMT	17485	413.84	10049.77	0.00	842000.00
H2FOAMT	18127	1259.79	7509.48	0.00	250000.00
H4FOAMT	20868	1201.01	9588.59	0.00	600000.00

Categorical Variable Codes

Value	H1FOANY	H2FOANY	H4FOANY
.d:dk	19		
.m:missing	165	485	165
.r:refuse	7		
0.no	16414	13864	17271
1.yes	1103	4263	3661

How Constructed:

HwFOANY indicates whether the respondent and spouse received any economic assistance from non-coresdiding relatives or others in the past year. HwFOANY includes both regular and non-regular, monetary or in-kind assistance. A code of 0 indicates that the respondent and spouse did not receive any financial support from relatives or others. A code of 1 indicates that the respondent and spouse receive some financial support from relatives or others.

HwFOAMT is the amount of economic assistance that the respondent and spouse received from non-coresdiding relatives or others. HwFOAMT is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

In wave 1, the respondent reported regular assistance, regular in-kind assistance, non-regular assistance and non-regular in-kind assistance in monthly, quarterly, half-yearly, or yearly regular transfers. Starting in wave 2, respondents report regular and non-regular assistance as two separated values. Regular transfers include living expenses, water, electricity, telephone expenses, loan payments or rents. Non-regular transfers include the amount for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes and others expenses.

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

Cross Wave Differences in CHARLS

In wave 1, respondents were asked to report the amount of transfers received from the non-coresident relatives/friends in the past year and needed to specify the amount for each type of support. Respondents were then asked to report the amount of transfers received from non-coresident non-relatives in the past year and needed to specify the amount for each type of support. For both questions, the respondent could report the amount of regular and non-regular transfer in monthly, quarterly, half-yearly, or yearly.

Starting in wave 2, respondents were asked to report in the past year the amount of economic support that the respondent and spouse received from non-coresident siblings. The respondent was asked to report the total amount of the transfer and then asked how much the regular transfer is among the total transfer, both for money support and in-kind support. Respondents were then asked to report in the past year the amount of economic support that the respondent and spouse received from other non-co-resident relatives or friends. The respondent was asked to report the total amount of the transfer.

Starting in wave 2, CHARLS does not ask an entry question, i.e., whether a respondent provides or gives economic support and only the amount provided is asked.

Starting in wave 4, respondents were asked to report in the past year the amount of economic support that the respondent and spouse received from non-coresident siblings. The respondent was asked to report the total amount of the transfer and then asked how much the regular transfer is among the total transfer, both for money support and in-kind support. Respondents were then asked to report in the past year the amount of cash gifts that the respondent and spouse received from other non-coresident relatives or friends. The respondent was asked to report the total amount of the gifts. Therefore starting in Wave 4 economic assistance, which was not given as a gift by other non-coresident relatives or friends, is not counted.

The current Wave 4 CHARLS public data contains empty variables for the economic assistance from siblings, which leads us to believe that economic assistance from siblings is not currently accounted for in Wave 4.

CHARLS Variables Used:

```
Wave 1:
    CE015          any transfer from non-coresident other relatives
    CE016_1        regular monetary support
    CE016_2        regular in-kind support
    CE016_3        non-regular monetary support
    CE016_4        non-regular in-kind support
    CE018          any transfer from friends
    CE019_1        regular monetary support
    CE019_2        regular in-kind support
    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
    CE074_W2       total support to siblings in the past year
    CF007_W2       respondent receive assistance in answering section
Wave 4:
    CE016          Economic Support From Other Non-Coresident Relatives or
    CE016_W3       Cash Gift From Other Non-Coresident Relatives or Friends
```

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
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
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
H4TOANY	20903	0.48	0.50	0.00	1.00
H1TOAMT	17497	172.19	2893.34	0.00	180000.00
H2TOAMT	18095	1290.25	4261.45	0.00	150000.00
H4TOAMT	20836	2005.88	5767.97	0.00	200000.00

Categorical Variable Codes

Value	H1TOANY	H2TOANY	H4TOANY
.d:dk	17		
.m:missing	166	517	194
.r:refuse	9		
0.no	16796	10850	10822
1.yes	720	7245	10081

How Constructed:

HwTOANY indicates whether the respondent and spouse provided any economic assistance to non-co-residing relatives or others in the past year. HwTOANY includes assistance with regular and non-regular costs. A code of 0 indicates that the respondent and spouse did not provide any financial support to relatives or others. A code of 1 indicates that the respondent and spouse provided some financial support to relatives or others.

HwTOAMT is the amount of economic assistance that the respondent and spouse provided to non-coresdiding relatives or others. HwTOAMT is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

In wave 1, the respondent reported regular assistance, regular in-kind assistance, non-regular assistance and non-regular in-kind assistance in monthly, quarterly, half-yearly, or yearly regular transfers. Starting in wave 2, respondents report regular and non-regular assistance as two separated values. Regular transfers include living expenses, water, electricity, telephone expenses, loan payments or rents. Non-regular transfers include the amount for major festivals, birthdays, weddings, and funerals. The in-kind transfers include food, clothes and others expenses.

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

Cross Wave Differences in CHARLS

In wave 1, respondents were asked to report the amount of transfers provided to the non-coresident relatives/friends in the past year and needed to specify the amount for each type of support. Respondents were then asked to report the amount of transfers provided to non-coresident non-relatives in the past year and needed to specify the amount for each type of support. For both questions the respondent could report the amount of regular and non-regular transfer in monthly, quarterly, half-yearly, or yearly.

Starting in wave 2, respondents were asked to report in the past year the amount of economic support that the respondent and spouse provided to non-coresident siblings. The respondent was asked to report the total amount of the transfer and then asked how much the regular transfer is among the total transfer, both for money support and in-kind support. Respondents were then asked to report in the past year the amount of economic support that the respondent and spouse provided to other non-coresident relatives or friends. The respondent was asked to report the total amount of the tranfer.

Starting in wave 2, CHARLS does not ask an entry question, i.e., whether a respondent provides or gives economic support and only the amount provided is asked.

Starting in wave 4, respondents were asked to report in the past year the amount of economic support that the respondent and spouse provided to non-coresident siblings. The respondent was asked to report the total amount of the transfer and then asked how much the regular transfer is among the total transfer, both for money support and in-kind support. Respondents were then asked to report in the past year the amount of cash gifts that the respondent and spouse provided to other non-coresident relatives or friends. The respondent was asked to report the total amount of the gifts. Therefore starting in Wave 4 economic assistance which was not given as a gift to other non-coresident relatives or friends is not counted.

The current Wave 4 CHARLS public data contains empty variables for the economic assistance from siblings which leads us to believe that economic assistance from siblings is not currently accounted for in Wave 4.

Differences with the RAND 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_2        regular in-kind support
    CE036_3        non-regular monetary support
    CE036_4        non-regular in-kind support
    CE038          any transfer to non-coresident non-relative (e.g. friend
    CE039_1        regular monetary support
    CE039_2        regular in-kind support
    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
    CF007_W2       respondent receive assistance in answering section
Wave 4:
    CE036          Economic Support to Other Non-Coresident Ralatives or Fr
    CE036_W3       Cash Gift to Other Non-Coresident Relatives or Friends i
```

Total Family Financial Transfers

```
Wave Variable     Label                                                     Type

  1  H1FREC        h1frec:w1 total amount of transfers received             Cont
  2  H2FREC        h2frec:w2 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
  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
  4  H4FTOT        h4ftot:w4 net value of financial transfers               Cont
```

Descriptive Statistics

```
Variable          N         Mean       Std Dev       Minimum        Maximum

H1FREC          16981      2123.00     13190.68         0.00      842000.00
H2FREC          14963      4654.38     13354.24         0.00      525000.00
H4FREC          20639      6851.38     20570.40         0.00      755000.00

H1TGIV          17092      1916.68     13462.61         0.00      602000.00
H2TGIV          14820      4507.32     17105.26         0.00      502500.00
H4TGIV          20602      9169.84     25923.82         0.00      815000.00

H1FTOT          16800       213.08     18876.48   -602000.00      842000.00
H2FTOT          14613       132.83     18941.27   -485000.00      300000.00
H4FTOT          20550     -2303.39     31136.13   -808000.00      747000.00
```

How Constructed:

HwFREC indicates the total amount of financial transfers that the 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 other (HwFOTMT)

HwFREC = HwFCAMT + HwFPAMT + HwFOTMT

HwTGIV indicates the total amount of financial transfers that the respondent and spouse gave 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 other (HwTOTMT)

HwTGIV = HwTCAMT +HwTAMT +HwTOTMT

HwFTOT indicate the net value of financial transfers in the past year.

HwFTOT = HwFREC- 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

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:
    A002_10_      Gender of This Household Member
    A002_10_      Gender of This Household Member
    A002_11_      Gender of This Household Member
    A002_11_      Gender of This Household Member
    A002_12_      Gender of This Household Member
    A002_12_      Gender of This Household Member
    A002_13_      Gender of This Household Member
    A002_13_      Gender of This Household Member
    A002_14_      Gender of This Household Member
    A002_14_      Gender of This Household Member
    A002_15_      Gender of This Household Member
    A002_15_      Gender of This Household Member
    A002_16_      Gender of This Household Member
    A002_16_      Gender of This Household Member
    A002_1_       Gender of This Household Member
    A002_1_       Gender of This Household Member
    A002_2_       Gender of This Household Member
    A002_2_       Gender of This Household Member
    A002_3_       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_5_       Gender of This Household Member
    A002_6_       Gender of This Household Member
    A002_6_       Gender of This Household Member
    A002_7_       Gender of This Household Member
    A002_7_       Gender of This Household Member
    A002_8_       Gender of This Household Member
    A002_8_       Gender of This Household Member
    A002_9_       Gender of This Household Member
    A002_9_       Gender of This Household Member
    A006_10_      Relationship to FamilyR
    A006_10_      Relationship to FamilyR
    A006_11_      Relationship to FamilyR
    A006_11_      Relationship to FamilyR
    A006_12_      Relationship to FamilyR
    A006_12_      Relationship to FamilyR
    A006_13_      Relationship to FamilyR
    A006_13_      Relationship to FamilyR
    A006_14_      Relationship to FamilyR
    A006_14_      Relationship to FamilyR
    A006_15_      Relationship to FamilyR
    A006_15_      Relationship to FamilyR
    A006_16_      Relationship to FamilyR
    A006_16_      Relationship to FamilyR
    A006_1_       Relationship to FamilyR
    A006_1_       Relationship to FamilyR
    A006_2_       Relationship to FamilyR
    A006_2_       Relationship to FamilyR
    A006_3_       Relationship to FamilyR
    A006_3_       Relationship to FamilyR
    A006_4_       Relationship to FamilyR
    A006_4_       Relationship to FamilyR
    A006_5_       Relationship to FamilyR
    A006_5_       Relationship to FamilyR
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A006_6_          Relationship to FamilyR
A006_6_          Relationship to FamilyR
A006_7_          Relationship to FamilyR
A006_7_          Relationship to FamilyR
A006_8_          Relationship to FamilyR
A006_8_          Relationship to FamilyR
A006_9_          Relationship to FamilyR
A006_9_          Relationship to FamilyR
CA001_1_         STILL LIVING
CA001_2_         STILL LIVING
CA001_3_         STILL LIVING
CA001_4_         STILL LIVING
CB049_10_        GENDER
CB049_10_        GENDER
CB049_11_        GENDER
CB049_11_        GENDER
CB049_12_        GENDER
CB049_12_        GENDER
CB049_13_        GENDER
CB049_13_        GENDER
CB049_14_        GENDER
CB049_14_        GENDER
CB049_1_         GENDER
CB049_1_         GENDER
CB049_2_         GENDER
CB049_2_         GENDER
CB049_3_         GENDER
CB049_3_         GENDER
CB049_4_         GENDER
CB049_4_         GENDER
CB049_5_         GENDER
CB049_5_         GENDER
CB049_6_         GENDER
CB049_6_         GENDER
CB049_7_         GENDER
CB049_7_         GENDER
CB049_8_         GENDER
CB049_8_         GENDER
CB049_9_         GENDER
CB049_9_         GENDER
CE001            any transfer from non-coresident parents
CE002_1          regular monetary support
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_2          regular in-kind support
CE005_3          non-regular monetary support
CE005_4          non-regular in-kind support
CE007            any transfer from non-coresident children
CE009_1_1        regular monetary support
CE009_1_2        regular in-kind support
CE009_1_3        non-regular monetary support
CE009_1_4        non-regular in-kind support
CE009_2_1        regular monetary support
CE009_2_2        regular in-kind support
CE009_2_3        non-regular monetary support
CE009_2_4        non-regular in-kind support
CE009_3_1        regular monetary support
CE009_3_2        regular in-kind support
CE009_3_3        non-regular monetary support
CE009_3_4        non-regular in-kind support
CE009_4_1        regular monetary support
CE009_4_2        regular in-kind support
CE009_4_3        non-regular monetary support
CE009_4_4        non-regular in-kind support
CE009_5_1        regular monetary support
CE009_5_2        regular in-kind support
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CE009_5_3        non-regular monetary support
CE009_5_4        non-regular in-kind support
CE009_6_1        regular monetary support
CE009_6_2        regular in-kind support
CE009_6_3        non-regular monetary support
CE009_6_4        non-regular in-kind support
CE009_7_1        regular monetary support
CE009_7_2        regular in-kind support
CE009_7_3        non-regular monetary support
CE009_7_4        non-regular in-kind support
CE009_8_1        regular monetary support
CE009_8_2        regular in-kind support
CE009_8_3        non-regular monetary support
CE009_8_4        non-regular in-kind support
CE015            any transfer from non-coresident other relatives
CE016_1          regular monetary support
CE016_2          regular in-kind support
CE016_3          non-regular monetary support
CE016_4          non-regular in-kind support
CE018            any transfer from friends
CE019_1          regular monetary support
CE019_2          regular in-kind support
CE019_3          non-regular monetary support
CE019_4          non-regular in-kind support
CE027            any transfer to non-coresident children
CE029_10_1       regular monetary support
CE029_10_2       regular in-kind support
CE029_10_3       non-regular monetary support
CE029_10_4       non-regular in-kind support
CE029_1_1        regular monetary support
CE029_1_2        regular in-kind support
CE029_1_3        non-regular monetary support
CE029_1_4        non-regular in-kind support
CE029_2_1        regular monetary support
CE029_2_2        regular in-kind support
CE029_2_3        non-regular monetary support
CE029_2_4        non-regular in-kind support
CE029_3_1        regular monetary support
CE029_3_2        regular in-kind support
CE029_3_3        non-regular monetary support
CE029_3_4        non-regular in-kind support
CE029_4_1        regular monetary support
CE029_4_2        regular in-kind support
CE029_4_3        non-regular monetary support
CE029_4_4        non-regular in-kind support
CE029_5_1        regular monetary support
CE029_5_2        regular in-kind support
CE029_5_3        non-regular monetary support
CE029_5_4        non-regular in-kind support
CE029_6_1        regular monetary support
CE029_6_2        regular in-kind support
CE029_6_3        non-regular monetary support
CE029_6_4        non-regular in-kind support
CE029_7_1        regular monetary support
CE029_7_2        regular in-kind support
CE029_7_3        non-regular monetary support
CE029_7_4        non-regular in-kind support
CE029_8_1        regular monetary support
CE029_8_2        regular in-kind support
CE029_8_3        non-regular monetary support
CE029_8_4        non-regular in-kind support
CE029_9_1        regular monetary support
CE029_9_2        regular in-kind support
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_2       regular in-kind support
CE033_10_3       non-regular monetary support
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    CE033_10_4      non-regular in-kind support
    CE033_1_1       regular monetary support
    CE033_1_2       regular in-kind support
    CE033_1_3       non-regular monetary support
    CE033_1_4       non-regular in-kind support
    CE033_2_1       regular monetary support
    CE033_2_2       regular in-kind support
    CE033_2_3       non-regular monetary support
    CE033_2_4       non-regular in-kind support
    CE033_3_1       regular monetary support
    CE033_3_2       regular in-kind support
    CE033_3_3       non-regular monetary support
    CE033_3_4       non-regular in-kind support
    CE033_4_1       regular monetary support
    CE033_4_2       regular in-kind support
    CE033_4_3       non-regular monetary support
    CE033_4_4       non-regular in-kind support
    CE033_5_1       regular monetary support
    CE033_5_2       regular in-kind support
    CE033_5_3       non-regular monetary support
    CE033_5_4       non-regular in-kind support
    CE033_6_1       regular monetary support
    CE033_6_2       regular in-kind support
    CE033_6_3       non-regular monetary support
    CE033_6_4       non-regular in-kind support
    CE033_7_1       regular monetary support
    CE033_7_2       regular in-kind support
    CE033_7_3       non-regular monetary support
    CE033_7_4       non-regular in-kind support
    CE033_8_1       regular monetary support
    CE033_8_2       regular in-kind support
    CE033_8_3       non-regular monetary support
    CE033_8_4       non-regular in-kind support
    CE033_9_1       regular monetary support
    CE033_9_2       regular in-kind support
    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_2         regular in-kind support
    CE036_3         non-regular monetary support
    CE036_4         non-regular in-kind support
    CE038           any transfer to non-coresident non-relative (e.g. friend
    CE039_1         regular monetary support
    CE039_2         regular in-kind support
    CE039_3         non-regular monetary support
    CE039_4         non-regular in-kind support
Wave 2:
    A002_10_        gender of household member
    A002_10_        gender of household member
    A002_11_        gender of household member
    A002_11_        gender of household member
    A002_12_        gender of household member
    A002_12_        gender of household member
    A002_13_        gender of household member
    A002_13_        gender of household member
    A002_14_        gender of household member
    A002_14_        gender of household member
    A002_15_        gender of household member
    A002_15_        gender of household member
    A002_16_        gender of household member
    A002_16_        gender of household member
    A002_1_         gender of household member
    A002_1_         gender of household member
    A002_2_         gender of household member
    A002_2_         gender of household member
    A002_3_         gender of household member
    A002_3_         gender of household member
    A002_4_         gender of household member
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A002_4_        gender of household member
A002_5_        gender of household member
A002_5_        gender of household member
A002_6_        gender of household member
A002_6_        gender of household member
A002_7_        gender of household member
A002_7_        gender of household member
A002_8_        gender of household member
A002_8_        gender of household member
A002_9_        gender of household member
A002_9_        gender of household member
A006_10_       relationship to you
A006_10_       relationship to you
A006_11_       relationship to you
A006_11_       relationship to you
A006_12_       relationship to you
A006_12_       relationship to you
A006_13_       relationship to you
A006_13_       relationship to you
A006_14_       relationship to you
A006_14_       relationship to you
A006_15_       relationship to you
A006_15_       relationship to you
A006_16_       relationship to you
A006_16_       relationship to you
A006_1_        relationship to you
A006_1_        relationship to you
A006_2_        relationship to you
A006_2_        relationship to you
A006_3_        relationship to you
A006_3_        relationship to you
A006_4_        relationship to you
A006_4_        relationship to you
A006_5_        relationship to you
A006_5_        relationship to you
A006_6_        relationship to you
A006_6_        relationship to you
A006_7_        relationship to you
A006_7_        relationship to you
A006_8_        relationship to you
A006_8_        relationship to you
A006_9_        relationship to you
A006_9_        relationship to you
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
CA008_1_1
CA008_1_3_     which year pass away
CB049_10_      gender of child
CB049_10_      gender of child
CB049_11_      gender of child
CB049_11_      gender of child
CB049_1_       gender of child
CB049_1_       gender of child
CB049_2_       gender of child
CB049_2_       gender of child
CB049_3_       gender of child
CB049_3_       gender of child
CB049_4_       gender of child
CB049_4_       gender of child
CB049_5_       gender of child
CB049_5_       gender of child
CB049_6_       gender of child
CB049_6_       gender of child
CB049_7_       gender of child
CB049_7_       gender of child
CB049_8_       gender of child
CB049_8_       gender of child
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CB049_9_        gender of child
CB049_9_        gender of child
CE001
CE002_1         total money support from parents in the past year
CE002_3         total in-kind support from parents in the past year
CE004
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 ye
CE009_1_10_     total money support from child10 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_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_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_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
CE013_1_1_      total money support from children of child1 in the past
CE013_1_2_      total money support from children of child2 in the past
CE013_1_3_      total money support from children of child3 in the past
CE013_1_4_      total money support from children of child4 in the past
CE013_1_4_      total money support from children of child4 in the past
CE013_1_5_      total money support from children of child5 in the past
CE013_1_6_      total money support from children of child6 in the past
CE013_1_7_      total money support from children of child7 in the past
CE013_1_8_      total money support from children of child8 in the past
CE013_1_9_      total money support from children of child9 in the past
CE013_3_11_     total in-kind support from children of child11 in the pa
CE013_3_1_      total in-kind support from children of child1 in the pas
CE013_3_2_      total in-kind support from children of child2 in the pas
CE013_3_3_      total in-kind support from children of child3 in the pas
CE013_3_4_      total in-kind support from children of child4 in the pas
CE013_3_4_      total in-kind support from children of child4 in the pas
CE013_3_5_      total in-kind support from children of child5 in the pas
CE013_3_6_      total in-kind support from children of child6 in the pas
CE013_3_7_      total in-kind support from children of child7 in the pas
CE013_3_8_      total in-kind support from children of child8 in the pas
CE013_3_9_      total in-kind support from children of child9 in the pas
CE016           total support from relatives or friends in the past year
CE029_1_10_     total money support to child10 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_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_11_     total in-kind support to child11 in the past year
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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_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 y
CE031_1_1_     total money support to children of child1 in the past ye
CE031_1_2_     total money support to children of child2 in the past ye
CE031_1_3_     total money support to children of child3 in the past ye
CE031_1_4_     total money support to children of child4 in the past ye
CE031_1_4_     total money support to children of child4 in the past ye
CE031_1_5_     total money support to children of child5 in the past ye
CE031_1_6_     total money support to children of child6 in the past ye
CE031_1_7_     total money support to children of child7 in the past ye
CE031_1_8_     total money support to children of child8 in the past ye
CE031_1_9_     total money support to children of child9 in the past ye
CE031_3_11_    total in-kind support to children of child11 in the past
CE031_3_1_     total in-kind support to children of child1 in the past
CE031_3_2_     total in-kind support to children of child2 in the past
CE031_3_3_     total in-kind support to children of child3 in the past
CE031_3_4_     total in-kind support to children of child4 in the past
CE031_3_4_     total in-kind support to children of child4 in the past
CE031_3_5_     total in-kind support to children of child5 in the past
CE031_3_6_     total in-kind support to children of child6 in the past
CE031_3_7_     total in-kind support to children of child7 in the past
CE031_3_8_     total in-kind support to children of child8 in the past
CE031_3_9_     total in-kind support to children of child9 in the past
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
CF007_W2       respondent receive assistance in answering section
CF007_W2       respondent receive assistance in answering section
CF007_W2       respondent receive assistance in answering section
CF007_W2       respondent receive assistance in answering section
ZA002_10_      gender of household member
ZA002_10_      gender of household member
ZA002_11_      gender of household member
ZA002_11_      gender of household member
ZA002_12_      gender of household member
ZA002_12_      gender of household member
ZA002_13_      gender of household member
ZA002_13_      gender of household member
ZA002_14_      gender of household member
ZA002_14_      gender of household member
ZA002_1_       gender of household member
ZA002_1_       gender of household member
ZA002_2_       gender of household member
ZA002_2_       gender of household member
ZA002_3_       gender of household member
ZA002_3_       gender of household member
ZA002_4_       gender of household member
ZA002_4_       gender of household member
ZA002_5_       gender of household member
ZA002_5_       gender of household member
ZA002_6_       gender of household member
ZA002_6_       gender of household member
ZA002_7_       gender of household member
ZA002_7_       gender of household member
ZA002_8_       gender of household member
ZA002_8_       gender of household member
ZA002_9_       gender of household member
ZA002_9_       gender of household member
ZA006_10_      relationship to you
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    ZA006_10_        relationship to you
    ZA006_11_        relationship to you
    ZA006_11_        relationship to you
    ZA006_12_        relationship to you
    ZA006_12_        relationship to you
    ZA006_13_        relationship to you
    ZA006_13_        relationship to you
    ZA006_14_        relationship to you
    ZA006_14_        relationship to you
    ZA006_15_        relationship to you
    ZA006_15_        relationship to you
    ZA006_16_        relationship to you
    ZA006_16_        relationship to you
    ZA006_1_         relationship to you
    ZA006_1_         relationship to you
    ZA006_2_         relationship to you
    ZA006_2_         relationship to you
    ZA006_3_         relationship to you
    ZA006_3_         relationship to you
    ZA006_4_         relationship to you
    ZA006_4_         relationship to you
    ZA006_5_         relationship to you
    ZA006_5_         relationship to you
    ZA006_6_         relationship to you
    ZA006_6_         relationship to you
    ZA006_7_         relationship to you
    ZA006_7_         relationship to you
    ZA006_8_         relationship to you
    ZA006_8_         relationship to you
    ZA006_9_         relationship to you
    ZA006_9_         relationship to you
    _
Wave 4:
    CE002_1_1_       Total Money Support From Non-Coresident Parents Type 1 i
    CE002_1_2_       Total Money Support From Non-Coresident Parents Type 2 i
    CE002_1_3_       Total Money Support From Non-Coresident Parents Type 3 i
    CE002_1_4_       Total Money Support From Non-Coresident Parents Type 4 i
    CE002_1_5_       Total Money Support From Non-Coresident Parents Type 5 i
    CE002_1_6_       Total Money Support From Non-Coresident Parents Type 6 i
    CE002_1_7_       Total Money Support From Non-Coresident Parents Type 7 i
    CE002_1_8_       Total Money Support From Non-Coresident Parents Type 8 i
    CE002_3_1_       Total in-Kind Support From Non-Coresident Parents Type 1
    CE002_3_2_       Total in-Kind Support From Non-Coresident Parents Type 2
    CE002_3_3_       Total in-Kind Support From Non-Coresident Parents Type 3
    CE002_3_4_       Total in-Kind Support From Non-Coresident Parents Type 4
    CE002_3_5_       Total in-Kind Support From Non-Coresident Parents Type 5
    CE002_3_6_       Total in-Kind Support From Non-Coresident Parents Type 6
    CE002_3_7_       Total in-Kind Support From Non-Coresident Parents Type 7
    CE002_3_8_       Total in-Kind Support From Non-Coresident Parents Type 8
    CE009_1_10_      Total Money Support From Non-Coresident Child 10 in The
    CE009_1_11_      Total Money Support From Non-Coresident Child 11 in The
    CE009_1_12_      Total Money Support From Non-Coresident Child 12 in The
    CE009_1_13_      Total Money Support From Non-Coresident Child 13 in The
    CE009_1_14_      Total Money Support From Non-Coresident Child 14 in The
    CE009_1_15_      Total Money Support From Non-Coresident Child 15 in The
    CE009_1_16_      Total Money Support From Non-Coresident Child 16 in The
    CE009_1_1_       Total Money Support From Non-Coresident Child 1 in The P
    CE009_1_2_       Total Money Support From Non-Coresident Child 2 in The P
    CE009_1_3_       Total Money Support From Non-Coresident Child 3 in The P
    CE009_1_4_       Total Money Support From Non-Coresident Child 4 in The P
    CE009_1_5_       Total Money Support From Non-Coresident Child 5 in The P
    CE009_1_6_       Total Money Support From Non-Coresident Child 6 in The P
    CE009_1_7_       Total Money Support From Non-Coresident Child 7 in The P
    CE009_1_8_       Total Money Support From Non-Coresident Child 8 in The P
    CE009_1_9_       Total Money Support From Non-Coresident Child 9 in The P
    CE009_3_10_      Total in-Kind Support From Non-Coresident Child 10 in Th
    CE009_3_11_      Total in-Kind Support From Non-Coresident Child 11 in Th
    CE009_3_12_      Total in-Kind Support From Non-Coresident Child 12 in Th
    CE009_3_13_      Total in-Kind Support From Non-Coresident Child 13 in Th
```

```
CE009_3_14_      Total in-Kind Support From Non-Coresident Child 14 in Th
CE009_3_15_      Total in-Kind Support From Non-Coresident Child 15 in Th
CE009_3_16_      Total in-Kind Support From Non-Coresident Child 16 in Th
CE009_3_1_       Total in-Kind Support From Non-Coresident Child 1 in The
CE009_3_2_       Total in-Kind Support From Non-Coresident Child 2 in The
CE009_3_3_       Total in-Kind Support From Non-Coresident Child 3 in The
CE009_3_4_       Total in-Kind Support From Non-Coresident Child 4 in The
CE009_3_5_       Total in-Kind Support From Non-Coresident Child 5 in The
CE009_3_6_       Total in-Kind Support From Non-Coresident Child 6 in The
CE009_3_7_       Total in-Kind Support From Non-Coresident Child 7 in The
CE009_3_8_       Total in-Kind Support From Non-Coresident Child 8 in The
CE009_3_9_       Total in-Kind Support From Non-Coresident Child 9 in The
CE016            Economic Support From Other Non-Coresident Relatives or
CE016_W3         Cash Gift From Other Non-Coresident Relatives or Friends
CE022_1_1_       Total Money Support to Non-Coresident Parents Type 1 in
CE022_1_2_       Total Money Support to Non-Coresident Parents Type 2 in
CE022_1_3_       Total Money Support to Non-Coresident Parents Type 3 in
CE022_1_4_       Total Money Support to Non-Coresident Parents Type 4 in
CE022_1_5_       Total Money Support to Non-Coresident Parents Type 5 in
CE022_1_6_       Total Money Support to Non-Coresident Parents Type 6 in
CE022_1_7_       Total Money Support to Non-Coresident Parents Type 7 in
CE022_1_8_       Total Money Support to Non-Coresident Parents Type 8 in
CE022_3_1_       Total in-Kind Support to Non-Coresident Parents Type 1 i
CE022_3_2_       Total in-Kind Support to Non-Coresident Parents Type 2 i
CE022_3_3_       Total in-Kind Support to Non-Coresident Parents Type 3 i
CE022_3_4_       Total in-Kind Support to Non-Coresident Parents Type 4 i
CE022_3_5_       Total in-Kind Support to Non-Coresident Parents Type 5 i
CE022_3_6_       Total in-Kind Support to Non-Coresident Parents Type 6 i
CE022_3_7_       Total in-Kind Support to Non-Coresident Parents Type 7 i
CE022_3_8_       Total in-Kind Support to Non-Coresident Parents Type 8 i
CE029_1_10_      Total Money Support to Non-Coresident Child 10 in The Pa
CE029_1_11_      Total Money Support to Non-Coresident Child 11 in The Pa
CE029_1_12_      Total Money Support to Non-Coresident Child 12 in The Pa
CE029_1_13_      Total Money Support to Non-Coresident Child 13 in The Pa
CE029_1_14_      Total Money Support to Non-Coresident Child 14 in The Pa
CE029_1_15_      Total Money Support to Non-Coresident Child 15 in The Pa
CE029_1_16_      Total Money Support to Non-Coresident Child 16 in The Pa
CE029_1_1_       Total Money Support to Non-Coresident Child 1 in The Pas
CE029_1_2_       Total Money Support to Non-Coresident Child 2 in The Pas
CE029_1_3_       Total Money Support to Non-Coresident Child 3 in The Pas
CE029_1_4_       Total Money Support to Non-Coresident Child 4 in The Pas
CE029_1_5_       Total Money Support to Non-Coresident Child 5 in The Pas
CE029_1_6_       Total Money Support to Non-Coresident Child 6 in The Pas
CE029_1_7_       Total Money Support to Non-Coresident Child 7 in The Pas
CE029_1_8_       Total Money Support to Non-Coresident Child 8 in The Pas
CE029_1_9_       Total Money Support to Non-Coresident Child 9 in The Pas
CE029_3_10_      Total in-Kind Support to Non-Coresident Child 10 in The
CE029_3_11_      Total in-Kind Support to Non-Coresident Child 11 in The
CE029_3_12_      Total in-Kind Support to Non-Coresident Child 12 in The
CE029_3_13_      Total in-Kind Support to Non-Coresident Child 13 in The
CE029_3_14_      Total in-Kind Support to Non-Coresident Child 14 in The
CE029_3_15_      Total in-Kind Support to Non-Coresident Child 15 in The
CE029_3_16_      Total in-Kind Support to Non-Coresident Child 16 in The
CE029_3_1_       Total in-Kind Support to Non-Coresident Child 1 in The P
CE029_3_2_       Total in-Kind Support to Non-Coresident Child 2 in The P
CE029_3_3_       Total in-Kind Support to Non-Coresident Child 3 in The P
CE029_3_4_       Total in-Kind Support to Non-Coresident Child 4 in The P
CE029_3_5_       Total in-Kind Support to Non-Coresident Child 5 in The P
CE029_3_6_       Total in-Kind Support to Non-Coresident Child 6 in The P
CE029_3_7_       Total in-Kind Support to Non-Coresident Child 7 in The P
CE029_3_8_       Total in-Kind Support to Non-Coresident Child 8 in The P
CE029_3_9_       Total in-Kind Support to Non-Coresident Child 9 in The P
CE036            Economic Support to Other Non-Coresident Ralatives or Fr
CE036_W3         Cash Gift to Other Non-Coresident Relatives or Friends i
```

Section H: Employment History

Currently Working

```
Wave Variable      Label                                                          Type

  1  R1WORK        r1work:w1 r currently working                                  Categ
  2  R2WORK        r2work:w2 r currently working                                  Categ
  4  R4WORK        r4work:w2 r currently working                                  Categ

  1  S1WORK        s1work:w1 s currently working                                  Categ
  2  S2WORK        s2work:w2 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
  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
  4  S4WORK2       s4work2:w4 s works more than one job                           Categ
```

Descriptive Statistics

```
Variable         N          Mean       Std Dev     Minimum      Maximum

R1WORK         17454        0.68        0.47         0.00         1.00
R2WORK         18043        0.68        0.47         0.00         1.00
R4WORK         20436        0.69        0.46         0.00         1.00

S1WORK         14779        0.72        0.45         0.00         1.00
S2WORK         15224        0.72        0.45         0.00         1.00
S4WORK         17296        0.73        0.45         0.00         1.00

R1WORK2        11702        0.01        0.11         0.00         1.00
R2WORK2        12325        0.02        0.13         0.00         1.00
R4WORK2        13311        0.03        0.17         0.00         1.00

S1WORK2        10514        0.01        0.10         0.00         1.00
S2WORK2        10952        0.02        0.13         0.00         1.00
S4WORK2        11864        0.03        0.17         0.00         1.00
```

Categorical Variable Codes

```
Value--------------------------------|    R1WORK      R2WORK              R4WORK
.d:dk                                |      31
.m:missing                           |     222         570                 661
.r:refuse                            |       1
0.no                                 |    5644        5708                6373
1.yes                                |   11810       12335               14063

Value--------------------------------|    S1WORK      S2WORK              S4WORK
.d:dk                                |      25
.m:missing                           |     106         356                 428
.u:unmar                             |    2260        2401                2719
.v:sp nr                             |     538         623                 650
0.no                                 |    4179        4262                4745
1.yes                                |   10600       10962               12551

Value--------------------------------|    R1WORK2     R2WORK2             R4WORK2
.d:dk                                |      74
.m:missing                           |     292         594                1441
.r:refuse                            |       4
.w:not working                       |    5636        5694                6345
0.no                                 |   11570       12125               12917
1.yes                                |     132         200                 394

Value--------------------------------|    S1WORK2     S2WORK2             S4WORK2
```

.d:dk	64		
.m:missing	157	378	1138
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
.w:not working	4174	4250	4722
0.no	10401	10768	11506
1.yes	113	184	358

How Constructed:

RwWORK indicates whether the respondent engaged in any work in the past year. RwWORK is assigned 1 if the respondent engaged in agricultural work, non-agricultural employed work, non-agricultural self-employment work, or non-agricultural family business work per the labor force status of each wave respectively. RwWORK is assigned 0 if the respondent is unemployed, retired, or never worked per the labor force status of each wave respectively.

RwWORK2 indicates whether a respondent is working more than one job. RwWORK2 is assigned 0 if the respondent reports not holding more than one non-agricultural job, or if the respondent reports they did not work in a non-agricultural job for at least one hour in the last week and do not have such work in which they expect to return to in the future. RwWORK2 is assigned 1 if the respondent reports they hold more than one non-agricultural job or if the respondent reports 1 or more jobs they currently hold, excluding their main job. Special missing code (.w) is assigned to the respondents who do not work according to RwWORK.

Don't know, refused, or other missing responses of RwWORK and RwWORK2 are assigned special missing codes (.d), (.r), (.m) respectively. RwWORK and RwWORK2 are set to plain missing (.) for respondents who did not respond to this wave.

SwWORK is whether the respondent's spouse in the current wave is currently working. It is taken from the spouse's RwWORK. SwWORK2 is whether the respondent's spouse in the current wave is working more than one job. It is taken from the spouse's RwWORK2. If the respondent is not designated as coupled in the current wave they are assumed to be single and assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married, special missing (.v) is assigned.

Cross Wave Differences in CHARLS

RwWORK and RwWORK2 incorporate 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

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
    FB011          PROCESSED RETIREMENT
    FB012          Have you completed receding position procedures ?
    FC001          Did you work for other famers in wage for at least ten d
    FC008          Did you work for your own household for at least ten day
    FC014          WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015          HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    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 ea
    FD001          THE TYPE OF RECEIVING YOUR WAGE
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 othe
    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
    FB011           completed retirement procedures or internal retirement
    FB012           completed receding position procedures
    FC001           any work for other farmers in wage
    FC008           any work for own household
    FC014           last week any non-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
    FD001           receive wage from wprkplace or dispatch company
    FJ001           how many side jobs
    XF1             preload work variable
    ZF13            preload variable
    ZF14            preload variable
Wave 4:
    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 Othe
    FA005           Do You Expect to Go Back to This Job
    FA007           Ever Work 3 Months
    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
    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
```

Whether Self-Employed

```
Wave Variable      Label                                                Type

  1  R1SLFEMP      r1slfemp:w1 r whether self-employed                  Categ
  2  R2SLFEMP      r2slfemp:w2 r whether self-employed                  Categ
  4  R4SLFEMP      r4slfemp:w4 r whether self-employed                  Categ

  1  S1SLFEMP      s1slfemp:w1 s whether self-employed                  Categ
  2  S2SLFEMP      s2slfemp:w2 s whether self-employed                  Categ
  4  S4SLFEMP      s4slfemp:w4 s whether self-employed                  Categ
```

Descriptive Statistics

```
Variable          N        Mean      Std Dev      Minimum      Maximum

R1SLFEMP        17454      0.06        0.23         0.00         1.00
R2SLFEMP        18043      0.07        0.25         0.00         1.00
R4SLFEMP        20436      0.07        0.26         0.00         1.00

S1SLFEMP        14779      0.06        0.24         0.00         1.00
S2SLFEMP        15224      0.07        0.26         0.00         1.00
S4SLFEMP        17296      0.08        0.26         0.00         1.00
```

Categorical Variable Codes

Value	R1SLFEMP	R2SLFEMP	R4SLFEMP
.m:missing	254	570	661
0.not self-employed	16440	16861	19004
1.self-employed	1014	1182	1432

Value	S1SLFEMP	S2SLFEMP	S4SLFEMP
.m:missing	131	356	428
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.no	13869	14153	15990
1.yes	910	1071	1306

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 work, non-agricultural 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 they are self-employed per their labor force status. Self-employment considers respondents who report their main job is self-employment or the respondent describes their non-agricultural job as self-employment and any of the following is reported:

    1.   Did not engage in agricultural work for more than 10 days in the past year

    2.   Did not work for other farmers in wage for at least ten days in the past year and did not work for their own household for at least ten days in the past year

    3.   Time worked in self-employed work is greater or equal to time worked on a farm

Don't know, missing, or refuse is assigned special missing values (.d), (.m), or (.r), respectively. RwSLFEMP is set to plain missing (.) for respondents who did not respond to this wave.

SwSLFEMP is whether the respondent's spouse in the current wave is self-employed. SwSLFEMP is taken from the spouse's values RwSLFEMP. If the respondent is not designated as coupled in the current wave, the respondent is assumed to be single and assigned special missing value (.u). If the respondent is not designated as coupled in the current wave but reports being married special missing (.v) is assigned.

Cross Wave Differences in CHARLS

RwSLFEMP incorporate 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

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
    FB011        PROCESSED RETIREMENT
    FB012        Have you completed receding position procedures ?
    FC001        Did you work for other famers in wage for at least ten d
    FC008        Did you work for your own household for at least ten day
    FC014        WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015        HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    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 ea
    FD001        THE TYPE OF RECEIVING YOUR WAGE
```
Wave 2:
```
    FA001        engage in agricultural work for more than 10 days
    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
    FC001        any work for other farmers in wage
    FC008        any work for own household
    FC014        last week any non-agricultural work
    FC015        currently laid-off
    FC019        more than one non-agricultural job
    FC020        main job
    FC021        type of non-agricultural job
    FD001        receive wage from wprkplace or dispatch company
    FK002        did you search for a job last month
    XF1          preload work variable
    ZF13         preload variable
    ZF14         preload variable
```
Wave 4:
```
    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 Othe
    FA005        Do You Expect to Go Back to This Job
    FA007        Ever Work 3 Months
    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
    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
```

Work Status

```
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
  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
  4  S4LBRF_C      s4lbrf_c:w4 s labor force status                         Categ
```

Descriptive Statistics

```
Variable        N         Mean       Std Dev      Minimum      Maximum

R1LBRF_C      17454       2.94        2.25         1.00         7.00
R2LBRF_C      18043       2.93        2.21         1.00         7.00
R4LBRF_C      20436       2.96        2.15         1.00         7.00

S1LBRF_C      14779       2.76        2.18         1.00         7.00
S2LBRF_C      15224       2.77        2.14         1.00         7.00
S4LBRF_C      17296       2.80        2.08         1.00         7.00
```

Categorical Variable Codes

```
Value-------------------------------|   R1LBRF_C    R2LBRF_C              R4LBRF_C
.d:dk                               |      31
.m:missing                          |     222        570                   661
.r:refuse                           |      1
1.Agricultural work                 |    7961       8086                  8194
2.Non-agri employed                 |    2623       2759                  4032
3.Non-agri self-employed            |    1014       1182                  1432
4.Non-agri family business          |     212        308                   405
5.Unemployed                        |      61         16                    28
6.Retired                           |    5089       5435                  6309
7.Never work                        |     494        257                    36

Value-------------------------------|   S1LBRF_C    S2LBRF_C              S4LBRF_C
.d:dk                               |      25
.m:missing                          |     106        356                   428
.u:unmar                            |    2260       2401                  2719
.v:sp nr                            |     538        623                   650
1.Agricultural work                 |    7118       7134                  7222
2.Non-agri employed                 |    2387       2488                  3664
3.Non-agri self-employed            |     910       1071                  1306
4.Non-agri family business          |     185        269                   359
5.Unemployed                        |      56         12                    24
6.Retired                           |    3770       4069                  4694
7.Never work                        |     353        181                    27
```

How Constructed:

CHARLS asks respondents about a variety of different types of employment, specifically agricultural work either for other farmers for wages or for own household, non-agricultural work for wages as an employee, non-agricultural self-employed work for own business, and non-agricultural work without pay for a family business. For each activity the respondent reports, time worked in each is asked. This includes how many month did they do this type of work in the past year, how many days did they do this type of work on average during a work month in the past year, and how many hours do they usually do this type of work on a normal work day in the past year.

CHARLS also includes several questions for respondents who report not working in the last year in either agricultural or non-agricultural activities. Specifically, respondents who report not engaging in agricultural work for more than 10 days in the past year, not engaging in non-agricultural work for at least one hour last week, and not having a job but being temporarily laid

off, on sick or other leave, or in job training are asked whether they have ever worked for at least three months during their lifetime (including agricultural and non-agricultural work, regardless if earned wages or not, but excluding housework). Non-working respondents who reported doing work at some point in their lifetime are then asked if they have searched for a job during the last month.

RwLBRF_C summarizes the main labor force status for the respondent as agricultural work, non-agricultural employed, non-agricultural self-employed, non-agricultural unpaid family business, unemployed, retired, and never worked. RwLBRF_C is derived to reflect the type of work that the respondent spent the most time engaged in over the past year. If the respondent reported engaging in two activities the same amount of time over the past year, preference is given to non-agricultural work and to work for wages.

A code of 1 indicates the respondent's primary employment activity is agricultural work. This includes if the respondent reports working (1) in agricultural work (including farming, forestry, fishing, and husbandry for your own family or others) for more than 10 days in the past year, (2) for other famers in wage for at least ten days in the past year, or (3) for their own household for at least ten days in the past year.

A code of 2 indicates the respondent's primary employment activity is non-agricultural work for wages as an employee. Non-agricultural work for wages as an employee is categorized as so if the respondent reports their main job is considered employed or if they describe their non-agricultural job as employed and any of the following is reported:

      1.   Did not engage in agricultural work (including farming, forestry, fishing, and husbandry for your own family or others) for more than 10 days in the past year

      2.   Did not work for other famers in wage for at least ten days in the past year and did not work for their own household for at least ten days in the past year

      3.   Time worked as an employed wage worker is greater than or equal to time worked on own farm or other farmers farm

A code of 3 indicates the respondent's primary employment activity is non-agricultural self-employed work for their own business. Non-agricultural self-employed work is categorized as so if the respondent reports their main job is self-employment or the respondent describes their non-agricultural job as self-employment and any of the following is reported:

      1. Did not engage in agricultural work for more than 10 days in the past year

      2. Did not work for other farmers in wage for at least ten days in the past year and did not work for their own household for at least ten days in the past year

      3. Time worked in self-employed work is greater or equal to time worked on own farm or other farmers farm

A code of 4 indicates the respondent's primary employment activity is non-agricultural work without pay for a family business. Non-agricultural work without pay for a family business is categorized as so if the respondent reports their main job is unpaid family business or the respondent describes their non-agricultural job as unpaid family business and any of the following is reported:

      1.   Did not engage in agricultural work for more than 10 days in the past year

      2.   Did not work for other farmers in wage for at least ten days in the past year and did not work for their own household for at least ten days in the past year

      3.   Time worked in self-employed work is greater or equal to time worked on own farm or other farmers farm

A code of 5 indicates that the respondent is not currently engaged in agricultural or non-agricultural work and has searched for a job during the last month. This is categorized as so if the respondent has worked for at least three months during their lifetime and has searched for a new job during the last month.

A code of 6 indicates the respondent is considered retired as they are not currently engaged in agricultural or non-agricultural work but have worked at some point in their lifetime and have not searched for a job during the last month. Retired is categorized as so if the respondent reports they have worked at some point in time and one of the following is reported:

     1.   Did not work for at least one hour in the last week, did not search for a new job during the last month and is not expecting to go back to work in the future or is not temporarily laid-off, on sick or other leave, or in-job training

     2.   Did not work for other farmers in wages or their own household for at least ten days in the past year, did not work for at least one hour in the last week in wage, self-employed work or unpaid family business, and reported they are not temporarily laid-off, sick or in-job training or reported they have been laid-off, sick or in-job training but do not plan on returning to work in the future

A code of 7 indicates the respondent has 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). Never working also includes respondents who report they did not work in the previous wave, did not work for at least one hour in the last week, and do not have a job nor are they temporarily laid-off, sick or in-job training, or are temporarily laid-off, sick or in-job training but do not expect to return to work in the future.

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

SwLBRF_C summarizes the labor force status for the respondent's spouse. It is taken directly from the respondent's spouse's values to RwLBRF_C. If the respondent is not designated as coupled in the current wave, they are assumed to be single and assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married special missing (.v) is assigned.

Cross Wave Differences in CHARLS

In Wave 2, slightly more than 250 respondents reported not currently engaging in agricultural or non-agricultural work but who were not asked whether they had ever worked or whether they were looking for work. These respondents are coded as .m.

In wave 1 and 2, time worked for other farmers and time worked on their own farm is included. The total time worked for other farmers and their own farm is used to determine the respondent's labor force status. In wave 4, RwLBRF_C varies from previous waves in that time worked for other farmers is not reported. Thus, time worked for other farmers is not included in determining labor force status as it is for wave 1 and wave 2. Wave 4 only uses time worked on their own farm to determine labor force status.

Differences with the RAND 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 OTHE
    FA005          DO YOU EXPECT TO GO BACK TO THIS JOB
    FA007          HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FC001          Did you work for other famers in wage for at least ten d
    FC004          How many months did you work on [¡] in wage for other f
    FC005          How many months did you work on [¡] in wage for other f
    FC006          How many months did you work on [¡] in wage for other f
    FC008          Did you work for your own household for at least ten day
    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
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    FC014              WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015              HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    FC017              DO YOU EXPECT TO GO BACK TO THIS JOB
    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 ea
    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 othe
    FA005              do you expect to go back to this job
    FA007              ever 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
    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
    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
Wave 4:
    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 Othe
    FA005              Do You Expect to Go Back to This Job
    FA007              Ever Work 3 Months
    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
    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
```

Hours of work per week at current job

```
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
  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
  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
  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
  4  S4JHOUR2       s4jhour2:w4 s hours worked/week on other jobs                  Cont
```

Descriptive Statistics

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Variable          N         Mean       Std Dev      Minimum      Maximum

R1JHOURS_C      11603       43.17        25.37         0.00       168.00
R2JHOURS_C      12139       42.34        25.48         0.00       140.00
R4JHOURS_C      13545       42.42        25.66         0.00       168.00

S1JHOURS_C      10419       43.86        25.15         0.00       168.00
S2JHOURS_C      10791       43.11        25.40         0.00       140.00
S4JHOURS_C      12115       43.07        25.50         0.00       168.00

R1JHOUR2          144       11.91        18.68         0.00       105.00
R2JHOUR2          188        8.96        16.68         0.00       105.00
R4JHOUR2          364        9.57        19.17         0.00       144.00

S1JHOUR2          124       11.56        17.90         0.00       105.00
S2JHOUR2          173        9.15        16.57         0.00       105.00
S4JHOUR2          330        9.51        19.34         0.00       144.00
```

How Constructed:

RwJHOURS_C is the number of hours that the respondent works per week for their main job in the past year. RwJHOURS_C includes the hours worked as an employee, worked as self-employed, worked without pay in a family business, worked at another person's farm (wave 1 and 2 only), and worked at one's own farm. RwJHOURS_C is derived from the number of hours worked each day and the number of days worked each week. Number of hours worked each day is multiplied by the number of days worked each week. For cases in which respondents report working more than 7 days a week, RwJHOURS_C is calculated as number of work hours per day by 7 days a week.

CHARLS allows respondents to report the hours of work for multiple jobs. If a respondent works as an employee then RwJHOURS_C is based on hours per week from working as an employee. If a respondent is self-employed or working for a family business without pay then RwJHOURS_C is based on hours working as self-employed or for their family business without pay. If a respondent works as a farmer then RwJHOURS_C is based on the number of hours working at another person's farm (wave 1 and 2 only) or the number of hours working at one's own farm, whichever is greater. Special missing (.w) is assigned if the respondent is not working per RwWORK. Special missing (.m) is assigned for missing response. RwJHOURS_C is set to plain missing (.) for respondents who did not respond to this wave.

RwJHOUR2 is the number of hours per week the respondent works at other jobs (side jobs). In the case that a respondent reports working more than 168 hours a week, RwJHOUR2 is top-coded at 168 hours. If the respondent does not report working more than one job, special missing (.w) is assigned. Don't know, refused, or other missing responses of RwJHOUR2 are assigned special missing codes (.d), (.r), (.m) respectively. RwJHOUR2 is set to plain missing (.) for respondents who did not respond to this wave.

SwJHOURS_C is the number of hours the respondent's spouse in the current wave spends on their main job. SwJHOURS_C is taken from the spouse's values RwJHOURS_C. SwJHOUR2 is the number of hours the respondent's spouse in the current wave spends on their other job. SwJHOUR2 is taken from the spouse's values RwJHOUR2. If the respondent is not designated as coupled in the current wave, the respondent is assumed to be single and assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married special missing (.v) is assigned.

Cross Wave Differences in CHARLS

RwJHOURS_C incorporates 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

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:
    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 ?
    FC004         How many months did you work on [¡] in wage for other f
    FC005         How many months did you work on [¡] in wage for other f
    FC006         How many months did you work on [¡] in wage for other f
    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
    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
    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
Wave 2:
    FA001         engage in agricultural work for more than 10 days
    FA002         work for at least one hour last month
    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         sure never work 3 months
    FB011         completed retirement procedures or internal retirement
    FB012         completed receding position procedures
    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
    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
    FC019         more than one non-agricultural job
    FC020         main job
    FC021         type of non-agricultural job
    FD001         receive wage from wprkplace or dispatch company
    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
Wave 4:
    FA001         Engage in Agricultural Work for More Than 10 Days
    FA002         Work for at Least One Hour Last Month
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FA003	Have A Job But Are Temporarily Laid-Off, on Sick or Othe
FA005	Do You Expect to Go Back to This Job
FA007	Ever Work 3 Months
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
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

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
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
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	11684	32.21	18.82	0.00	51.96
R2JWEEKS_C	12272	33.66	18.67	0.00	51.96
R4JWEEKS_C	13838	33.18	18.33	0.00	51.96
S1JWEEKS_C	10497	32.48	18.69	0.00	51.96
S2JWEEKS_C	10909	33.77	18.56	0.00	51.96
S4JWEEKS_C	12369	33.26	18.21	0.00	51.96

How Constructed:

RwJWEEK_C is the number of weeks a respondent works per year at their main job. RwJWEEK_C includes the worked weeks as an employee, as self-employed, as worked without pay for a family business, worked at another person's farm (wave 1 and 2 only), and worked at one's own farm.

Respondents are asked about the number of months worked per year. Respondents can report the months of working for multiple jobs. For example, a respondent can report months worked as both an employee and worked at another person's farm. RwJWEEKS_C codes the number of weeks from the main job identified in RwLBRF_C. RwJWEEKS_C is derived by multiplying the number of months by 4.33 so that RwJWEEKS_C is expressed in number of weeks.

If a respondent works as an employee then RwJWEEKS_C is based on weeks from working as an employee. If a respondent is self-employed or working for a family business without pay then RwJWEEKS_C is based on weeks worked as self-employed or for their family business without pay. If a respondent works as a farmer then RwJWEEKS_C is based on weeks working at another person's farm or weeks working at one's own farm, whichever is greater. If the respondent does not report working, special missing (.w) is assigned. Don't know, missing, or refused responses are assigned special missing codes (.d), (.m), (.r), respectively. RwJWEEK_C is set to plain missing (.) for respondents who did not respond to this wave.

SwJWEEKS_C is the number of hours the respondent's spouse in the current wave spends on their job. SwJWEEKS_C is taken from the spouse's values RwJWEEKS_C. If the respondent is not designated as coupled in the current wave they are assumed to be single and assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married special missing (.v) is assigned.

Cross Wave Differences in CHARLS

RwJWEEK_C incorporates RwLBRF_C. In wave 4, RwLBRF_C differs between waves. Please refer to RwLBRF_C for the differences between waves of this harmonized variable.

Differences with the RAND 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:
    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 ?
    FC004          How many months did you work on [¡] in wage for other f
    FC005          How many months did you work on [¡] in wage for other f
    FC006          How many months did you work on [¡] in wage for other f
    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
    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
    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
Wave 2:
    FA001          engage in agricultural work for more than 10 days
    FA002          work for at least one hour last month
    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          sure never work 3 months
    FB011          completed retirement procedures or internal retirement
    FB012          completed receding position procedures
    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
    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
    FC019          more than one non-agricultural job
    FC020          main job
    FC021          type of non-agricultural job
    FD001          receive wage from wprkplace or dispatch company
    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
Wave 4:
    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 Othe
    FA005          Do You Expect to Go Back to This Job
    FA007          Ever Work 3 Months
    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
    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
```

Section I: Retirement

Whether Retired: Retired employment status

```
Wave Variable      Label                                                     Type

  1  R1RETEMP      r1retemp:w1 r whether retired                             Categ
  2  R2RETEMP      r2retemp:w2 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
  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
  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
  4  S4FRET_C      s4fret_c:w4 s whether formal retirement                   Categ
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Descriptive Statistics

```
Variable        N        Mean      Std Dev     Minimum     Maximum

R1RETEMP      17454      0.29       0.45        0.00        1.00
R2RETEMP      18043      0.30       0.46        0.00        1.00
R4RETEMP      20436      0.31       0.46        0.00        1.00

S1RETEMP      14779      0.26       0.44        0.00        1.00
S2RETEMP      15224      0.27       0.44        0.00        1.00
S4RETEMP      17296      0.27       0.44        0.00        1.00

R1FRET_C      17124      0.13       0.34        0.00        1.00
R2FRET_C      18231      0.14       0.35        0.00        1.00
R4FRET_C      20570      0.13       0.34        0.00        1.00

S1FRET_C      14539      0.12       0.33        0.00        1.00
S2FRET_C      15376      0.14       0.35        0.00        1.00
S4FRET_C      17414      0.13       0.34        0.00        1.00
```

Categorical Variable Codes

```
Value--------------------------------|    R1RETEMP    R2RETEMP             R4RETEMP
.m:missing                           |        254         570                  661
0.No                                 |      12365       12608                14127
1.Yes                                |       5089        5435                 6309

Value--------------------------------|    S1RETEMP    S2RETEMP             S4RETEMP
.m:missing                           |        131         356                  428
.u:unmar                             |       2260        2401                 2719
.v:sp nr                             |        538         623                  650
0.No                                 |      11009       11155                12602
1.Yes                                |       3770        4069                 4694

Value--------------------------------|    R1FRET_C    R2FRET_C             R4FRET_C
.d:dk                                |         15
.m:missing                           |        569         382                  527
0.No                                 |      14916       15590                17823
1.Yes                                |       2208        2641                 2747

Value--------------------------------|    S1FRET_C    S2FRET_C             S4FRET_C
.d:dk                                |         10
.m:missing                           |        361         204                  310
.u:unmar                             |       2260        2401                 2719
.v:sp nr                             |        538         623                  650
0.No                                 |      12746       13169                15101
```

1.Yes		1793	2207	2313

How Constructed:

RwRETEMP indicates whether the respondent is retired. RwRETEMP is derived from RwLBRF_C. A value of 1 indicated that the respondent is retired. A value of 0 indicates that the respondent is not retired. Please see RwLBRF_C for details regarding how RwLBRF_C is constructed. RwLBRF_C is set to plain missing (.) for respondents who did not respond to this wave.

SwRETEMP indicates whether the respondent's spouse's is retired. SwRETEMP is taken from the spouse's values RwRETEMP. If the respondent is not designated as coupled in the current wave the respondent is assumed to be single and assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married special missing (.v) is assigned.

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?

If the respondent gives a positive answer in either of the questions, a value of 1 is assigned to indicate that the respondent is retired. If the respondent gives a negative answer in both question then a value of 0 is assigned to indicate that the respondent is not retired. Special missing (.d) is assigned to the respondent who gives a don't know response. RwFRET_C is set to plain missing (.) for respondents who did not respond to this wave.

SwFRET_C indicates whether the respondent's spouse's has completed retirement process. SwFRET_C is taken from the spouse's values RwFRET_C. If the respondent is not designated as coupled in the current wave the respondent is assumed to be single and assigned special missing (.u). If the respondent is not designated as coupled in the current wave but reports being married special missing (.v) is assigned.

Cross Wave Differences in CHARLS

RwRETEMP incorporates 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

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:
    FA001        ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
    FA008        HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FB011        PROCESSED RETIREMENT
    FB011        PROCESSED RETIREMENT
    FB012        Have you completed receding position procedures ?
    FC001        Did you work for other famers in wage for at least ten d
    FC008        Did you work for your own household for at least ten day
    FC014        WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015        HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    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 ea
    FD001        THE TYPE OF RECEIVING YOUR WAGE
    FK002        search for a new job
    W1
Wave 2:
```

```
     FA001              engage in agricultural work for more than 10 days
     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
     FC001              any work for other farmers in wage
     FC008              any work for own household
     FC014              last week any non-agricultural work
     FC015              currently laid-off
     FC019              more than one non-agricultural job
     FC020              main job
     FC021              type of non-agricultural job
     FD001              receive wage from wprkplace or dispatch company
     FK002              did you search for a job last month
     W2
     XF1                preload work variable
     ZF13               preload variable
     ZF14               preload variable
Wave 3:
     W3
Wave 4:
     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 Othe
     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
     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
     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
     W4
     ZF15               Preload LastIW Retirement Status
```

Retirement month and year, if says retired

```
Wave Variable      Label                                                    Type

  1  R1RETMON      r1retmon:w1 r month retired /receded                     Cont
  2  R2RETMON      r2retmon:w2 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
  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
  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
  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       601        6.93        3.46         1.00        12.00
R4RETMON      1587        7.00        3.51         1.00        12.00

S1RETMON      1405        6.88        3.59         1.00        12.00
S2RETMON       499        6.95        3.46         1.00        12.00
S4RETMON      1356        7.01        3.52         1.00        12.00

R1RETYR       2167     1999.54        8.57      1945.00      2011.00
R2RETYR        732     2004.31        9.05      1956.00      2013.00
R4RETYR       1790     2003.05        8.85      1960.00      2015.00

S1RETYR       1764     2000.35        7.82      1960.00      2011.00
S2RETYR        604     2004.75        8.79      1956.00      2013.00
S4RETYR       1516     2003.66        8.38      1961.00      2015.00
```

How Constructed:

RwRETMON and RwRETYR indicate the retirement month and year, respectively. RwRETMON and RwRETYR are derived only for respondents who report they have completed retirement procedures, internal retirement or completed 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. RwRETMON and RwRETYR are assigned special missing value (.x) if the respondent reports not being retired. A special missing value (.i) is used when the respondent reported an invalid value. Don't know, refused, or missing responses to time of retirement are assigned special missing values (.d), (.r), (.m), respectively. RwRETMON and RwRETYR are set to plain missing (.) for respondents who did not respond to the current wave.

SwRETMON and SwRETYR give this information for the respondent's spouse or partner and are taken directly from the respondent's spouse's values to RwRETMON and RwRETYR. In addition to the special missing codes used in RwRETMON and RwRETYR, SwRETMON and SwRETYR 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 (.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

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:
    FB011           PROCESSED RETIREMENT
    FB012           Have you completed receding position procedures ?
    FM005_1         In what month and year did you recede from your position
    FM005_2         month
    FM011           TYPE OF RETIREMENT
    FM014_1         year
    FM014_2         month
    FM025_1         year
    FM025_2         month
    FM030_1         year
    FM030_2         month
Wave 2:
    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 variable
Wave 4:
    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)
```

Planned retirement year

```
Wave Variable      Label                                                       Type

  1  R1RPLNYR      r1rplnyr:w1 r year plans to retire if internal retired      Cont
  2  R2RPLNYR      r2rplnyr:w2 r year plans to retire if internal retired      Cont
  4  R4RPLNYR      r4rplnyr:w4 r year plans to retire if internal retired      Cont

  1  S1RPLNYR      s1rplnyr:w1 s year plans to retire if internal retired      Cont
  2  S2RPLNYR      s2rplnyr:w2 s year plans to retire if internal retired      Cont
  4  S4RPLNYR      s4rplnyr:w4 s year plans to retire if internal retired      Cont

  1  R1RPLNYA      r1rplnya:w1 When r plans to stop work                       Cont
  2  R2RPLNYA      r2rplnya:w2 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
  4  S4RPLNYA      s4rplnya:w4 When s plans to stop work                       Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RPLNYR	25	2014.36	2.20	2011.00	2019.00
R2RPLNYR	31	2016.68	2.68	2013.00	2026.00
R4RPLNYR	14	2018.14	2.68	2015.00	2025.00
S1RPLNYR	21	2014.48	2.32	2011.00	2019.00
S2RPLNYR	25	2016.88	2.82	2013.00	2026.00
S4RPLNYR	13	2018.08	2.78	2015.00	2025.00
R1RPLNYA	2702	2019.45	6.12	2011.00	2056.00
R2RPLNYA	3295	2020.78	5.78	2013.00	2064.00
R4RPLNYA	1693	2023.01	6.56	2015.00	2062.00
S1RPLNYA	2419	2019.54	6.10	2011.00	2049.00
S2RPLNYA	2963	2020.94	5.80	2013.00	2064.00
S4RPLNYA	1482	2023.40	6.61	2015.00	2062.00

How Constructed:

RwRPLNYR is derived from the variable that asks respondents in what month and year they are going to process formal retirement. If the respondent has completed the receding position procedure and plans to completely stop working then the respondent is assigned the year in which they plan to retire. Most cases are missing this variable.

RwRPLNYA is the year the respondent plans to retire or plans to stop working. In wave 1 and 2, CHARLS asks this question in four different sub-modules to non-retired respondents: Household Agricultural Work, Fringe Benefits, Social insurance questions for the Self-employed, and Unemployment and Job Search Activities. In wave 4, this question is asked in the Household Agricultural Work sub-module and the Unemployment and Job Search Activities sub-module. Wave 4 does not include this question within the Fringe Benefits and Social Insurance Questions for the Self-employed sub-module as it is in the previous waves.

Respondents who already retired are assigned special missing (.a). Respondents who report never having worked are assigned special missing (.w). Respondents who, when asked when they plan to retire, answered that they plan to keep working as long as they are physically capable are assigned special missing (.n). Don't know, refused, or missing responses to planned year of retirement are assigned special missing values (.d), (.r), (.m), respectively. RwRPLNYR and RwRPLNYA are set to plain missing (.) for respondents who did not respond to the current wave.

SwRPLNYR and SwRPLNYA give this information for the respondent's spouse or partner and are taken directly from the respondent's spouse's values to RwRPLNYR and RwRPLNYA. In addition to the special missing values used in RwRPLNYR and RwRPLNYA, SwRPLNYR and SwRPLNYA employ two additional missing codes, (.u) and (.v). 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

In wave 4, respondents are not asked at what age they plan to stop working within the Fringe Benefits sub-module and the Social Insurance Questions for the Self-employed sub-module as it is in the previous waves. Respondents are however asked this in the Household Agricultural Work sub-module and the Unemployment and Job Search Activities sub-module.

Differences with the RAND HRS

Unlike the HRS, CHARLS asked the retirement plan question four times separately in 4 different sub-modules in wave 1 and 2: Household Agricultural Work, Fringe Benefits, Social insurance questions for the Self-employed, and Unemployment and Job Search Activities. Similarly, wave 4 asks this question in two sub-modules: Household Agricultural Work and Unemployment and Job Search Activities.

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 OTHE
    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
    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
    FM037_1        year
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 othe
    FA005          do you expect to go back to this job
    FA007          ever work 3 months
    FA008          sure never work 3 months
    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
    FM037_1        when are you going to process formal retirement(year)
    ZF15           preload variable
Wave 4:
    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 Othe
    FA005          Do You Expect to Go Back to This Job
    FA007          Ever Work 3 Months
    FA008          Never Work 3 Months
    FC018          Expected Age Stop Working
    FG015
    FI012
    FK002          Did You Search for a Job Last Month
    FK003          Expected Age Stop Working
    FM037_1        When Are You Going to Process Formal Retirement(Year)
```

Section J: Pension

Receives Any Public Pension

```
Wave Variable      Label                                                        Type

  1  R1PUBPEN       r1pubpen:w1 r receives public pension                        Categ
  2  R2PUBPEN       r2pubpen:w2 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
  4  S4PUBPEN       s4pubpen:w4 s receives public pension                        Categ

  2  R2FPUBPEN      r2fpubpen:w2 flag: receives public pension                   Categ
  4  R4FPUBPEN      r4fpubpen:w4 flag: receives public pension                   Categ

  2  S2FPUBPEN      s2fpubpen:w2 flag: receives public pension                   Categ
  4  S4FPUBPEN      s4fpubpen:w4 flag: receives public pension                   Categ
```

Descriptive Statistics

```
Variable           N         Mean      Std Dev      Minimum      Maximum

R1PUBPEN        17446        0.18         0.38         0.00         1.00
R2PUBPEN        18360        0.32         0.47         0.00         1.00
R4PUBPEN        20847        0.30         0.46         0.00         1.00

S1PUBPEN        14777        0.17         0.37         0.00         1.00
S2PUBPEN        15483        0.29         0.45         0.00         1.00
S4PUBPEN        17641        0.27         0.44         0.00         1.00

R2FPUBPEN       18360        0.33         0.48         0.00         2.00
R4FPUBPEN       20847        0.31         0.48         0.00         2.00

S2FPUBPEN       15483        0.29         0.47         0.00         2.00
S4FPUBPEN       17641        0.28         0.46         0.00         2.00
```

Categorical Variable Codes

```
Value--------------------------------|     R1PUBPEN     R2PUBPEN              R4PUBPEN
.d:dk                                |           61
.m:missing                           |         7995          253                   250
.r:refuse                            |            2
0.Not receiving                      |        14332        12471                 14544
1.Currently Receiving                |         3114         5889                  6303

Value--------------------------------|     S1PUBPEN     S2PUBPEN              S4PUBPEN
.d:dk                                |           53
.m:missing                           |           81           97                    83
.r:refuse                            |            1
.u:unmar                             |         2260         2401                  2719
.v:sp nr                             |          536          623                   650
0.Not receiving                      |        12336        11046                 12873
1.Currently Receiving                |         2441         4437                  4768

Value-----------------------------|               R2FPUBPEN             R4FPUBPEN
0.not receving                     |                  12471                 14544
1.receiving, with W1 types         |                   5764                  6155
2.receiving, due to new types      |                    125                   148

Value-----------------------------|               S2FPUBPEN             S4FPUBPEN
.u:unmar                           |                   2401                  2719
.v:sp nr                           |                    623                   650
0.not receving                     |                  11046                 12873
1.receiveng, with W1 types         |                   4336                  4644
2.receiving, due to new types      |                    101                   124
```

How Constructed:

RwPUBPEN indicates whether the respondent is currently receiving a public pension without disability.

In Wave 1, public pension without disability is comprised of pension benefit from social insurance agency, rural pension, residents' pension, urban residents' pension, new rural social pension insurance, pension subsidy to the oldest old, and new rural social pension insurance.

Starting in Wave 2, public pension without disability is comprised of rural pension (wave 2), residents' pension, urban residents' pension, new rural social pension insurance, land expropriation pension insurance and pension subsidy to the oldest old. A value of 0 indicates the respondent is not receiving a public pension from the list above. A value of 1 indicates the respondent is receiving at least one public pension from the list above. Please note land expropriation pension insurance is not asked in wave 1 but is asked starting in wave 2. Don't know, refused, or other missing responses of RwPUBPEN are assigned special missing codes (.d), (.r), and (.m), respectively. RwPUBPEN is set to plain missing (.) for respondents who did not respond to the current wave.

SwPUBPEN indicates whether the current wave's spouse is currently receiving a public pension. SwPUBPEN is taken from the spouse's values to RwPUBPEN. In addition to the special missing codes used in RwPUBPEN, SwPUBPEN 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.

RwFPUBPEN is a flag variable that indicates whether the respondent's value in RwPUBPEN is a result of receiving a pension type that was added to the CHARLS survey after Wave 1. Specifically whether the respondent reported receiving land expropriation pension insurance, as this was included starting in Wave 2 but not asked in Wave 1. A code of 0 indicates that the respondent is not receiving any public pensions. A code of 1 indicates that the respondent is receiving a public pension from one of the pensions which were also surveyed in Wave 1. A code of 2 indicates that the respondent is receiving a public pension but that they are only considered to be receiving a public pension from the one of the pension programs which were asked starting in Wave 2.

SwFPUBPEN is a flag variable that indicates whether the respondent's spouse's value in SwPUBPEN is a result of receiving pension types that were added to the CHARLS survey after Wave 1. SwFPUBPEN is taken from the spouse's values to RwFPUBPEN. In addition to the special missing codes used in RwFPUBPEN, SwFPUBPEN 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

CHARLS significantly redesigned the pension section in the wave 2 questionnaire. These changes lead to a greater number of respondents reporting in wave 2 and forward that they received a public pension than did in wave 1.

In wave 2 and forward, CHARLS included questions about an additional pension program, which was not included in wave 1. CHARLS wave 2 added questions about the land expropriation pension insurance. The flag variable RwFPUBPEN can be used to identify respondents whose values would have been different if CHARLS had kept Wave 1 pension types.

In wave 2, whether a respondent participates in the New Rural Social Pension Insurance program is asked separate from the question asking what kind of pension the respondent participates in or receives. In wave 4, New Rural Social Pension Insurance program is included as an option when asked what kind of pension the respondent participates in or receives.

Differences with the RAND 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:
    FM019S3         UNITS GIVING YOU PESION BENEFITS
    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
    FN071           New Rural Social Pension Insurance Do you participate in
    FN077           Did you start to receive pension benefit?
Wave 2:
    FN057_W2S1      are you currently participating/receiving rural pension
    FN057_W2S2      are you currently participating/receiving residents' pen
    FN057_W2S3      are you currently participating/receiving urban resident
    FN057_W2S4      are you currently participating/receiving following pens
    FN058_W2_1_     you are currently participating or receiving rural pensi
    FN058_W2_2_     you are currently participating or receiving residents'
    FN058_W2_3_     you are currently participating or receiving urban resid
    FN069_W2        do you participate in the new rural socail pension insur
    FN075_W2        did you start to receive benefits
    FN079_W2_3      are you participation/receiving land requisition pension
    FN080_W2        are you receiving the pension subsidy for the oldest old
Wave 4:
    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 P
    FN058_W2_2_     You Are Currently Participating or Receiving Residents'
    FN058_W2_3_     You Are Currently Participating or Receiving Urban Resid
    FN079_W2_3      Are You Participation/Receiving Land Requisition Pension
    FN080_W2        Are You Receiving The Pension Subsidy for The Oldest Old
```

Age When Started to Receive Current Public Pension

```
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
  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
  4   S4PUBAGE      s4pubage:w4 s age starts to receive public pension       Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUBAGE	2184	65.36	8.94	6.00	98.00
R2PUBAGE	5491	66.42	7.66	12.00	100.00
R4PUBAGE	5401	64.78	7.41	13.00	103.00
S1PUBAGE	1679	64.16	7.83	15.00	88.00
S2PUBAGE	4175	65.14	6.78	12.00	92.00
S4PUBAGE	4161	63.63	6.55	15.00	93.00

How Constructed:

RwPUBAGE indicates the age the respondent started to receive their current public pension. For each public pension the respondent reports receiving, the respondent is then asked the year they started to receive this pension. Age is calculated based on the respondent's reported year that they first received a public pension minus their reported birth year. If the respondent reported receiving multiple public pensions, the earliest date of all the pensions received is used to calculate for RwPUBAGE. Questions related to the age the respondent started to receive public pensions are asked in each wave. Don't know, refused, or other missing responses of RwPUBAGE are assigned special missing codes (.d), (.r), and (.m), respectively. RwPUBAGE is set to special missing (.x) if the respondent is not currently receiving a public pension. RwPUBAGE is set to special missing (.i) if the respondent reports starting to receive a public pension in a year prior to their reported birth year. RwPUBAGE is set to plain missing (.) if the respondent did not respond to the current wave.

SwPUBAGE indicates the current wave's spouse's age they started to receive their current public pension. SwPUBAGE is taken from the spouse's values to RwPUBAGE. In addition to the special missing codes used in RwPUBAGE, SwPUBAGE 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

CHARLS significantly redesigned the pension section in the wave 2 questionnaire. These changes lead to a greater number of respondents in wave 2 and forward reporting they received public pensions than did in Wave 1.

In Wave 2, CHARLS included questions about an additional pension program that was not asked about in Wave 1. CHARLS Wave 2 added questions about the land expropriation pension insurance.

In wave 2, whether a respondent participates in the New Rural Social Pension Insurance program is asked separate from the question on what kind of pension the respondent participates in or receives. Accordingly, the year in which the benefit is received is asked separately. In wave 4, New Rural Social Pension Insurance program is included as an option when asked what type of pension the respondent participates in or receives. Accordingly, the year in which the benefit is received is asked along with other pension benefits received.

Differences with the RAND 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:
    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
    FN071           New Rural Social Pension Insurance Do you participate in
    FN077           Did you start to receive pension benefit?
    FN078_1         Year
Wave 2:
    FN067_W2_1_1_   when did you start to receive this pension benefits(year
    FN067_W2_1_2_   when did you start to receive this pension benefits(year
    FN067_W2_1_3_   when did you start to receive this pension benefits(year
    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)
    FN081_W2_1      when did you start to receive the benefits(year)
Wave 4:
    FN067_W2_1_1_   When Did You Start to Receive This Pension Benefits(Year
    FN067_W2_1_2_   When Did You Start to Receive This Pension Benefits(Year
    FN067_W2_1_3_   When Did You Start to Receive This Pension Benefits(Year
    FN079_W2_10_1   When Did You Start to Receive The Benefits(Year)
    FN081_W2_1      When Did You Start to Receive The Benefits(Year)
```

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
   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
   4  S4PENINC      s4peninc:w4 s receives private pension                      Categ

   2  R2FPENINC     r2fpeninc:w2 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
   4  S4FPENINC     s4fpeninc:w4 s flag: receives private pension               Categ
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PENINC	17463	0.07	0.26	0.00	1.00
R2PENINC	18349	0.12	0.33	0.00	1.00
R4PENINC	20855	0.08	0.27	0.00	1.00
S1PENINC	14793	0.07	0.25	0.00	1.00
S2PENINC	15473	0.12	0.33	0.00	1.00
S4PENINC	17642	0.08	0.27	0.00	1.00
R2FPENINC	18349	0.24	0.65	0.00	2.00
R4FPENINC	20855	0.16	0.54	0.00	2.00
S2FPENINC	15473	0.24	0.65	0.00	2.00
S4FPENINC	17642	0.16	0.54	0.00	2.00

Categorical Variable Codes

Value	R1PENINC	R2PENINC	R4PENINC
.d:dk	45		
.m:missing	199	264	242
.r:refuse	1		
0.Not receiving	16200	16105	19166
1.Currently Receiving	1263	2244	1689

Value	S1PENINC	S2PENINC	S4PENINC
.d:dk	38		
.m:missing	79	107	82
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.Not receiving	13766	13588	16214
1.Currently Receiving	1027	1885	1428

Value	R2FPENINC	R4FPENINC
0.not receving	16105	19166
1.receiving, with W1 types	83	57
2.receiving, due to new types	2161	1632

Value	S2FPENINC	S4FPENINC
.u:unmar	2401	2719
.v:sp nr	623	650
0.not receving	13588	16214
1.receiving, with W1 types	72	44
2.receiving, due to new types	1813	1384

How Constructed:

RwPENINC indicates whether the respondent is currently receiving any private (including occupational) pension.

In wave 1, private pension is comprised of pension benefits from either government or work unit, supplemental pension insurance of the firm and commercial pension.

In wave 2 and forward, private pension is comprised of government agency (civil servant) pension insurance, establishment of employee pension, basic old-age insurance for enterprise employees, supplemental pension insurance of the firm and commercial pension.

A value of 0 indicates that the respondent is not currently receiving any private pension. A value of 1 indicates that the respondent is currently receiving a private pension. Don't know, refused, or other missing responses of RwPENINC are assigned special missing codes (.d), (.r), and (.m), respectively. RwPENINC is set to plain missing (.) for respondents who did not respond to the current wave.

SwPENINC indicates whether the current wave's spouse is currently receiving any private pension. SwPENINC is taken from the spouse's values to RwPENINC. In addition to the special missing codes used in RwPENINC, SwPENINC 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.

RwFPENINC is a flag variable that indicates whether the respondent's value in RwPENINC is a result of receiving a pension type that was added to the CHARLS survey after wave 1. Specifically this includes whether the respondent reported receiving government agency (civil servant) pension insurance, establishment of employee pension, or basic old-age insurance for enterprise employees, which were asked starting in wave 2 but not asked in wave 1. A code of 0 indicates that the respondent is not receiving any private pensions. A code of 1 indicates that the respondent is receiving a private pension from one of the pensions which were also surveyed in Wave 1. A code of 2 indicates that the respondent is receiving a private pension but that they are only considered to be receiving a private pension from the one of the pension programs which were asked about starting in wave 2.

SwFPENINC is a flag variable that indicates whether the respondent's spouse's value in SwPENINC is a result of receiving pension types that were added to the CHARLS survey after Wave 1. SwFPENINC is taken from the spouse's values to RwFPENINC. In addition to the special missing codes used in RwFPENINC, SwFPENINC 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

CHARLS significantly redesigned the pension section in the wave 2 questionnaire.

In wave 2 and forward, CHARLS included questions about additional pension programs that were not asked about in wave 1. Specifically, CHARLS wave 2 added questions about government agency (civil servant) pension insurance, establishment of employee pension, and basic old-age insurance for enterprise employees. The flag variable RwFPENINC can be used to identify respondents whose values would have been different if CHARLS had kept the same set of pension types as in wave 1.

In wave 2, when asked if the respondent is currently receiving government agency (civil servant) pension insurance, establishment of employee pension, or basic old-age insurance for enterprise employees, respondents can answer "None of the above," while in wave 4 this is not an option. Wave 2 codes "None of the above" cases as 0.

Differences with the RAND 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
    FM019S4        UNITS GIVING YOU PESION BENEFITS
    FM033          Are you receiving pension benefits from the government,
    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:
    FN002_W2S1     are you currently receiving pension program of the gover
    FN002_W2S2     are you currently receiving pension program of staffing
    FN002_W2S3     are you currently receiving pension insurance of the fir
    FN002_W2S4     are you currently receiving following pension?
    FN030_W2       are you currently participating/receiving supplement pen
    FN043_W2       are you currently participating/receiving commercial pen
Wave 4:
    FN002_W2S1     Are You Currently Receiving Pension Program of The Gover
    FN002_W2S2     Are You Currently Receiving Pension Program of Staffing
    FN002_W2S3     Are You Currently Receiving Pension Insurance of The Fir
    FN030_W2       Are You Currently Participating/Receiving Supplement Pen
    FN043_W2       Are You Currently Participating/Receiving Commercial Pen
```

Currently Receiving Other Pension

Wave	Variable	Label	Type
1	R1OTHPEN	r1othpen:w1 r receives other pension	Categ
2	R2OTHPEN	r2othpen:w2 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
4	S4OTHPEN	s4othpen:w4 s receives other pension	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OTHPEN	17444	0.02	0.12	0.00	1.00
R2OTHPEN	18337	0.00	0.05	0.00	1.00
R4OTHPEN	20808	0.00	0.06	0.00	1.00
S1OTHPEN	14777	0.01	0.12	0.00	1.00
S2OTHPEN	15467	0.00	0.05	0.00	1.00
S4OTHPEN	17617	0.00	0.05	0.00	1.00

Categorical Variable Codes

Value	R1OTHPEN	R2OTHPEN	R4OTHPEN
.d:dk	63		
.m:missing	199	276	289
.r:refuse	2		
0.Not receiving	17174	18296	20742
1.Currently Receiving	270	41	66

Value	S1OTHPEN	S2OTHPEN	S4OTHPEN
.d:dk	53		
.m:missing	79	113	107
.r:refuse	1		
.u:unmar	2260	2401	2719
.v:sp nr	538	623	650
0.Not receiving	14557	15432	17566
1.Currently Receiving	220	35	51

How Constructed:

RwOTHPEN indicates whether a respondent is currently receiving a pension that is not included in the public pension or private pension variables. CHARLS asks all respondents whether they receive any other pensions that have not already been mentioned. A value of 0 indicates that the respondent is not currently receiving any other pension. A value of 1 indicates that the respondent is currently receiving benefits from other pension program. Don't know, refused, or other missing responses of RwOTHPEN are assigned special missing codes (.d), (.r), and (.m), respectively. RwOTHPEN is set to plain missing (.) for respondents who did not respond to the current wave.

SwOTHPEN indicates whether the current wave's spouse is currently receiving any private or employer pension. SwOTHPEN is taken from the spouse's values to RwOTHPEN. In addition to the special missing codes used in RwOTHPEN, SwOTHPEN 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

CHARLS significantly redesigned the pension section in the wave 2 questionnaire.

Differences with the RAND HRS

This variable is not available in the RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    FM019S5        UNITS GIVING YOU PESION BENEFITS
    FM033          Are you receiving pension benefits from the government,
    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 pensio
Wave 4:
    FN083_W2       Are You Currently Participatin Or Receiving Other Pensio
```

Pension from Current Job

```
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
  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
  4  S4JCPEN       s4jcpen:w4 s any pension from current job                  Categ
```

Descriptive Statistics

```
Variable         N         Mean       Std Dev      Minimum      Maximum

R1JCPEN        15004       0.03        0.17         0.00         1.00
R2JCPEN        16047       0.00        0.02         0.00         1.00
R4JCPEN        19181       0.01        0.09         0.00         1.00

S1JCPEN        12824       0.03        0.17         0.00         1.00
S2JCPEN        13541       0.00        0.02         0.00         1.00
S4JCPEN        16223       0.01        0.10         0.00         1.00
```

Categorical Variable Codes

```
Value-------------------------------|    R1JCPEN      R2JCPEN                 R4JCPEN
.d:dk                               |       40
.m:missing                          |      575          400                     340
.r:refuse                           |        2
.s:skip                             |                  2166                    1576
.w:retired                          |     2087
0.No                                |    14567        16038                   19012
1.Yes                               |      437            9                     169

Value-------------------------------|    S1JCPEN      S2JCPEN                 S4JCPEN
.d:dk                               |       29
.m:missing                          |      363          221                     167
.r:refuse                           |        2
.s:skip                             |                  1818                    1334
.u:unmar                            |     2260         2401                    2719
.v:sp nr                            |      538          623                     650
.w:retired                          |     1692
0.No                                |    12427        13533                   16066
1.Yes                               |      397            8                     157
```

How Constructed:

RwJCPEN indicates whether a respondent is enrolled in a pension programs through their current job.

In wave 1, all respondents who report that they have not completed job retirement procedures are asked whether they are enrolled in a pension program through the government and institutions or basic pension of the firms. If the respondent answers yes, they are then asked from which work unit they receive that pension insurance, given the options: current work unit, last work unit, the work unit that processed retirement for you, or none of the above.

In wave 2 and forward, all respondents who reported that they are not currently receiving government agency (civil servant) pension insurance, establishment of employee pension, or basic old-age insurance for enterprise employees are asked whether they are enrolled in a pension program through the government and institutions or basic pension of the firms. If the respondent answers yes, they are then asked from which work unit they receive that pension insurance, given the options: current work unit, last work unit, the work unit that processed retirement for you, or none of the above.

A value of 0 indicates the respondent is not enrolled in any pension program through their current job. A value of 1 indicates the respondent is enrolled in a pension program through their current job. In wave 4, if the respondent reports they do not participate in any pension program they are assigned a value of 0.

In wave 1, respondents who were not asked these questions, as they reported they were currently retired, are assigned special missing value (.w). In wave 2 and forward, respondents who were not asked these questions, as they reported currently receiving government agency (civil servant) pension insurance, establishment of employee pension, or basic old-age insurance for enterprise employees, are assigned special missing value (.s). Don't know, refused, or other missing responses of RwJCPEN are assigned special missing codes (.d), (.r), and (.m), respectively. RwJCPEN is set to plain missing (.) for respondents who did not respond to the current wave.

SwJCPEN indicates whether the current wave's spouse is enrolled in a pension programs through their current job. SwJCPEN is taken from the spouse's values to RwJCPEN. In addition to the special missing codes used in RwJCPEN, SwJCPEN 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

While the specific questions regarding whether the respondent is enrolled in a pension program through their current job remains similar between waves, the skip pattern to determine whether these questions were asked to the respondent are considerably different.

In Wave 1, respondents who report that they have not completed job retirement procedures are asked these questions. In Wave 2, respondents who reported that they are not currently receiving government agency (civil servant) pension insurance, establishment of employee pension, or basic old-age insurance for enterprise employees are asked these questions. In wave 4, CHARLS first asks the respondent whether they participate in any pension program. The respondent can answer, yes currently receive a pension, yes but don't receive it yet, or no. If the respondent answered that they already receive the pension or that they do not participate in a pension program, they are not asked if they are not asked these questions. The difference in skip pattern between the waves significantly effects cross-wave comparability of RwJCPEN.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

Wave 1:
    FN011   AMOUNT ABOUT EVERY TYPE OF ANNUAL
    FN024   Are you enrolled in pension program of the government an
    FN025   work units where you get the pension insurance you just
Wave 2:
    FN002_W2S1   are you currently receiving pension program of the gover
    FN002_W2S2   are you currently receiving pension program of staffing
    FN002_W2S3   are you currently receiving pension insurance of the fir
    FN006_W2   are you enrolled in pension program of gov.&inst. or bas
    FN007_W2_1_   from which work unit did you get the pension(from govern
    FN007_W2_2_   from which work unit did you get the pension(form firms)
Wave 4:
    FN002_W2S1   Are You Currently Receiving Pension Program of The Gover
    FN002_W2S2   Are You Currently Receiving Pension Program of Staffing
    FN002_W2S3   Are You Currently Receiving Pension Insurance of The Fir
    FN006_W2   Are You Enrolled in Pension Program of Gov.&Inst. Or Bas
    FN007_W2_1_   From Which Employer Did You Get The Pension(From Governm
    FN007_W2_2_   From Which Employer Did You Get The Pension(Form Firms)

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