



Harmonized MHAS Documentation

VERSION C (2001-2019), SEPTEMBER 2022

Alejandra Michaels-Obregon, Drystan Phillips, Jenny Wilkens, Rebeca Wong & Jinkook Lee

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Preface

The Mexican Health and Aging Study (MHAS) is a longitudinal household survey dataset for the study of health, economic position, and quality of life among the elderly. It was modeled after the Health and Retirement Study (HRS), a similar longitudinal survey dataset in the United States. Part of the reason for the close connection is to allow cross-country comparisons using these data.

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

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

Note, however, that MHAS license agreements do not allow us to disseminate the data directly. Instead, MHAS distributes the Harmonized MHAS dataset. We also make available a Stata script ("do file") that generates these derived variables from the original MHAS data files. Additional information about MHAS can be obtained from the MHAS website at http://www.mhasweb.org/.

We are grateful for the continuing support of and funding from NIA. In interpreting the MHAS data, we greatly benefited from the help and insights of MHAS staff members. We have greatly benefited from the discussions with and the suggestions from our colleagues at the University of Southern California and RAND Corporation.

Requested Acknowledgment

We ask all users of the Harmonized MHAS to please inform our team of any written analysis using data from the Harmonized MHAS or information from the Harmonized MHAS Codebook by sending an email to papers@g2aging.org. We also ask users to include the following acknowledgement in their written work: "This analysis uses data or information from the Harmonized MHAS dataset and Codebook, Version C as of September 2022 developed by the Gateway to Global Aging Data in collaboration with the MHAS research team. The development of the Harmonized MHAS was funded by the National Institute on Aging (R01 AG030153). The Harmonized MHAS data files and documentation are public use and available at www.MHASweb.org. The MHAS (Mexican Health and Aging Study) receives support from the National Institutes of Health/National Institute on Aging (R01 AG018016) in the United States and the Instituto Nacional de Estadística y Geografía (INEGI) in Mexico. For more information about the Harmonization project, please refer to www.g2aging.org."

MHAS Version and Acknowledgment

This document uses data from the MHAS datasets as of July 2020. The MHAS (Mexican Health and Aging Study) is partly sponsored by the National Institutes of Health/National Institute on Aging (grant number NIH R01AG018016) in the United States and the Instituto Nacional de Estadística y Geografía (INEGI) in Mexico. Data files and documentation are public use and available at www.MHASweb.org.

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

Version C incorporates the latest released version of MHAS data, and adds several new variables. It contains 26,839 observations or rows. It is a Respondent-level file so each row represents a unique Respondent. It also makes adjustments and corrections.

We have added the following variables to the file:

Health:

- We added new variables indicating any difficulty for existing summary measures in all available waves: RwADLWAA, RwADLAA, RwADLAA_M, RwADLFIVEA, RwADLTOTA_M, RwIADLFOURA, RwMOBILAA, RwLGMUSAA, RwGROSSAA, RwFINEAA, RwMOBILSEVA, RwUPPERMOBA, and RwLOWERMOBA.
- We added new summary measures indicating difficulty with other functional limitations originally proposed by Nagi (1976): RwNAGI10, RwNAGI10M, RwNAGI10A, RwNAGI8, RwNAGI8M, and RwNAGI8A.

Healthcare Utilization and Insurance:

We added individual out-of-pocket expense and flag variables for all available waves:
 RWOOPHOS1Y, RWOOPHOSF1Y, RWOOPFHHO1Y, RWOOPFHHOF1Y, RWOOPDEN1Y,
 RWOOPDENF1Y, RWOOPOSRG1Y, RWOOPDOC1Y, and RWOOPDOCF1Y.

Cognition:

We added variables indicating the proxy's rating of different aspects of the respondent's cognition, and incorporating flag variables and a summary score in all available waves:
 RWIQSCORE1 – RWIQSCORE16, RWFIQSCORE1 – RWFIQSCORE16, RWJORMSCORE, RWPRMEM, RWPRCHMEM, RWRJUDG, RWRORGNZ, RWLOST, RWWANDER, RWALONE, RWHALUC, RWOANGRY, RWOSLEEP, RWODNGR, RWOPACE, RWOPLOT, and RWOALCHL.

Financial and Housing Wealth:

- We added **HwHOWNRNT** in all available waves, which indicates whether the respondent and their spouse own or rent their residence or have another arrangement.

Family Structure:

- We added **RwRELGIMP** in all available waves, indicating the importance of religion to the respondent.

Assistance and Caregiving:

- We added **RwGCARESCKD_M** in all available waves, indicating whether and the frequency with which the respondent cared for a sick or disabled adult.

Psychosocial:

- We added **RwSATLIFE** starting in Wave 3, indicating the respondent's rating of their satisfaction with life.
- We added **RwCANTRIL** in Wave 2, indicating the respondent's rating of their position in comparison to all other people in Mexico.

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

Demographics:

- We corrected an error in **R4IWSTAT** in which people who had passed away during Wave 3 were assigned a value of 0 and are now assigned a value of 6.
- We corrected **RwIWY** in Waves 3 and 4 to assign plain missing (.) instead of special missing .m for those who did not participate in the given wave.

Health:

- We adjusted the coding for the following variables in Wave 4 to bring forward reports from previous waves, and removed overassignments of 1 values for respondents who did not participate in the given wave in Waves 2 through 4: RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE M, and RwARTHRE.
- We adjusted the coding for **RwSTROKE** to remove overassignments of 1 values for respondents who did not participate in the given wave in Waves 2 through 4.
- We adjusted the coding for **RwSMOKEF** to remove the assignment of special missing value .p in Waves 1 through 4.

Healthcare Utilization and Insurance:

- We renamed RwOOPMD to RwOOPMD1Y to better account for the time period of the
 expenses, and adjusted it in Waves 2 through 4 to incorporate dental expenses, including newly
 available imputed values for Wave 2.
- We corrected RwCOVR_M and RwCOVS_M in Waves 3 and 4 to refer to Pemex/Defensa/Marina instead of Seguro Popular for some special missing .d and .r and 0 assignments.

Cognition:

 We changed the label for RwFBWC20_M to properly indicate backwards counting instead of drawing.

Income:

- We adjusted the coding for **RwIFPENT** in Wave 4 to correctly indicate if the total income from total public pensions was constructed using imputed variables.

Family Structure:

- We replaced .n special missing values with 0 values for **RwTPANY** and **RwTPAMT** in all available waves for consistency with other Harmonized datasets.
- We replaced .k special missing values with 0 values for **HwFCANY**, **HwFCAMT**, **HwTCANY**, and **HwTCAMT** in all available waves for consistency with other Harmonized datasets.
- We adjusted **HwKCNT** in all available waves so that contact 52 times a year is counted as weekly, rather than 30 times a year.
- We corrected RwRFCNTX and RwRFCNT to use the raw variables indicating contact with friends and relatives rather than those indicating caring for sick or disabled adults, and reorganized the categories for RwRFCNTX to be in order of frequency.
- We adjusted RwSOCACT_M and RwSOCWK to include the additional categories of caring for sick or disabled adults and activities with children for consistency with other Harmonized datasets. We also reorganized the categories for RwSOCACT M to be in order of frequency.
- We adjusted **R4DAU** to properly account for the number of daughters in the follow-up sample.
- We adjusted the calculation of RwDCHILD to account for all possible reports of deceased children.

Employment History:

- We have adjusted **RwJCTEN** to include a special missing .i value if the respondent's job tenure is greater than their current age in all available waves.
- We have adjusted **RwJLASTY** to include a special missing .i value if the year the respondent last worked is greater than the interview year in Waves 3 through 5.

Assistance and Caregiving:

- We corrected a merging error in Wave 2 that resulted in almost no occurrences for all informal and formal help variables.

- We adjusted the coding for the assignment of spouse helpers in all waves, but which particularly impacts the values of **RwRASCARE**, **RwRISCARE**, **RwRSCARE**, and their associated variables in Wave 3.

Stress:

- We changed the special missing .f values to special missing .n values for all friend, child, and spouse support variables in all waves for consistency with other Harmonized datasets.
- We changed RwCHDEATHE to **HwCHDEATHE** and based it off of the count of deceased children rather than questions from the fertility section of the interview.

Psychosocial:

- We reversed the coding for **RwSATLIFEZ** so that lower values now indicate agreement and higher values indicate disagreement based on a forthcoming user guide for the creation of Harmonized Subjective Well-Being variables.

1. Introduction and Overview

This report documents the Harmonized MHAS data files, a streamlined collection of variables derived from the Mexican Health and Aging Study (MHAS). The MHAS is a panel survey of people aged 50 and over and their partners, living in private dwellings in both urban and rural areas in Mexico. The study was designed to prospectively evaluate the impact of disease on the health, function and mortality of adults. The overall goal of the study is to examine the aging process, and the disease and disability burden in a large representative panel of older Mexicans, using a wide socioeconomic perspective. The study protocols and survey instruments are highly comparable to the U.S. Health and Retirement Study (HRS). The data files and documentation are available free of charge at the study website www.MHASweb.org. For more details on the study background and design, see Wong, Michaels-Obregon, and Palloni (2017).

The initial MHAS sample was drawn from the 2000 National Survey of Employment (ENE), carried out by the INEGI (Instituto Nacional de Estadística y Geografía) in Mexico. The first wave of the MHAS was conducted in the summer of 2001. This initial sample included 15,186 respondents aged 50 and over and their spouses, regardless of age, as of the year 2001. The second wave of MHAS followed-up with the Wave 1 respondents and was conducted in the summer of 2003. The second wave of MHAS included follow-ups with 13,431 respondents from the initial sample, 273 new respondents including new spouses, and 546 next-of-kin interviews regarding deceased participants. The 2012 survey was conducted in the fall of 2012, it followed-up the original MHAS sample and included a refreshment sample. This refreshment sample included persons 50 to 60 years old, selected from the 2012 National Occupation and Employment Survey (ENOE). The third wave included 9,634 follow-up respondents and 5,912 new respondents including the refreshment sample and new spouses, and 2,742 next-of-kin interviews. The fourth wave of the MHAS, in 2015, included the follow-up of 16,983 subjects interviewed in the previous waves, 306 new spouses, and 697 new subjects selected in 2012 for the refresher sample but without an interview in Wave 3, and 1,209 next-of-kin interviews. The fifth wave of the MHAS, in 2018, included the follow-up of 12,305 subjects interviewed in the previous waves, 5,725 new respondents including the refreshment sample and new spouses, and 1,135 next-of-kin interviews. The MHAS is a collaborative effort among researchers from the University of Texas Medical Branch (UTMB), the Instituto Nacional de Estadística y Geografía (INEGI, Mexico), the University of Wisconsin, the Instituto Nacional de Geriatría (INGER, Mexico), the Instituto Nacional de Salud Pública (INSP, México), and University of California Los Angeles (UCLA).

The data include any individual interviewed at least once. This includes selected subjects, spouses regardless of their age, new spouses of selected subjects, and former spouses of the selected subject.

The MHAS data are contained in several files. The Harmonized MHAS data file incorporates data from the core interview data, the master follow-up file, household roster data, and next-of-kin data. It does not include any data which is not public release.

Documentation of the MHAS methodology can be found in Mexican Health and Aging Study 2018, Methodological Document (2018).

1.1 Gateway to Global Aging Data

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

The result has been a number of surveys designed to be comparable with the HRS: the Mexican Health and Aging Survey (MHAS), the English Longitudinal Study of Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), the Korean Longitudinal Study of Aging (KLoSA), the Japanese Study on Aging and Retirement (JSTAR), the Irish Longitudinal Study on Ageing (TILDA), the China Health and Retirement Longitudinal Study (CHARLS), Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa (HAALSI), the Brazilian Longitudinal Study of Ageing (ELSI), Healthy Ageing in Scotland (HAGIS), the Northern Ireland Cohort Longitudinal Study of Ageing (NICOLA), the Malaysia Ageing and Retirement Survey (MARS), 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 et al. (2019).

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

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

The Gateway can be accessed at https://g2aging.org. For more information about using the Gateway visit the Help page. For more information about obtaining the Harmonized MHAS from MHAS or downloading the Stata file used to create the Harmonized MHAS using the Gateway see "Chapter 4. Distribution and Technical Notes."

1.2 Unit of Observation

We distinguish between two units of observation: individual and household. A "household" in this sense means "single individual, or individual with his/her spouse", whatever applicable.

This is the same design as the HRS, where an age-eligible individual is sampled and then this individual and his or her spouse or partner is interviewed, but no other household members, even if they are age-eligible. Thus, in the HRS and in MHAS, there is no distinction between a "couple" and a "household".

MHAS provides a limited amount of information about household members who are not interviewed. The household respondent provides information on all household members including, age, sex, and marital or

partner status. Only individuals over 50 and their spouses or partners are selected for a subsequent interview. In our files, we do not include non-respondents, and thus in particular we do not include the information about household members who were not eligible to be interviewed.

1.3 Data File Structure

The Harmonized MHAS data are contained in a single file which includes the first five waves of MHAS. The data are stored in a "fat format" where each observation represents one respondent. There are three types of variables for the individual record: "R" respondent variables, "S" spouse variables, and "H" household variables. Respondent variables represent the respondent of the individual record. Spouse variables represent the spouse of the respondent of the individual record, if there is a spouse. Household variables represent the household of the individual record which is the respondent and their spouse, if there is a spouse. The value of household variables is the same for both a respondent and their spouse. If the respondent does not have a spouse the household variables represent just the respondent of the individual record.

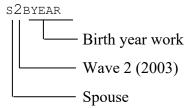
The household and person identification variables changed between different waves of the MHAS and changed in different files of the same wave of MHAS. In Wave 1, households are identified by the unique household identification *unhhid* (same as *cunicah*) and persons in the study within the household are identified by *codent01* (same as *ps3*). In Wave 2, households are uniquely identified by the combination of *unhhid* (or *cunicah*) and *acthog* – a sub-household id that indicates changes in the household between Waves 1 and 2. Also, individuals are uniquely identified by *codent03* (same as *ent2*). In Wave 3, households are uniquely identified by the combination of *unhhid* (or *cunicah*) and *subhog_12* – a sub-household id that indicates changes in the household between Waves 2 and 3. In Wave 4, households are uniquely identified by the combination of *unhhid* (or *cunicah*) and *subhog_15* – a sub-household id that indicates changes in the household between Waves 3 and 4. In Wave 5, households are uniquely identified by the combination of *unhhid* (or *cunicah*) and *subhog_18* – a sub-household id that indicates changes in the household between Waves 4 and 5. Persons are uniquely identified by *np*. This file may be merged with other MHAS data using the combination of survey–specific household and person identification variables available in the MHAS Master Follow-up File, available at www.MHASweb.org.

1.4 Variable Naming Convention

With few exceptions, variable names in the Harmonized MHAS Data follow a consistent pattern. The first character indicates whether the variable refers to the reference person ("r"), spouse ("s"), or household ("h"). The second character indicates the wave to which the variable pertains: "1", "2", "3", "4", "5", or "A". The "A" indicates "all," i.e., the variable is not specific to any single wave. An example is rabyear, the birth year of the respondent. The remaining characters describe the concept that the variable captures. For example:

¹ The reference person need not be the person who responded to the question. It is the person whose information is central to the data file observation.

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Variable s2byear captures the birth year of the spouse of the reference person. The name of the variable does not indicate who provided the information. For example, the spouse's birth year may have been reported by the spouse himself or herself, or it may have been reported by the reference person as a proxy. The MHAS obtains many variables, particularly on financial and family matters, reported by a proxy.

In the text below, we may refer to variables such as SwBYEAR for example, without specifying the wave. This reference points at the group of variables slbyear, s2byear, s3byear, s4byear, s5byear.

Variable labels also follow a consistent pattern. The first characters denote the name of the variable, followed by a colon. Then the wave to which the variable pertains (w1, w2, w3, w4, or w5) follows. The remainder of the label describes the concept that the variable captures. For example, the variable label of s2byear is:

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 MHAS are generally based on the variable name used in the RAND HRS or Harmonized HRS for the same measure. Measures which are exactly or near-exactly comparable between the Harmonized MHAS and RAND HRS or Harmonized HRS use the exact same name. For instance RABYEAR is the variable name for the respondent birth year in both the Harmonized MHAS as well as the RAND HRS. If the Harmonized MHAS measure is deemed only somewhat comparable with the RAND HRS or Harmonized HRS version of that measure, the variable name in the Harmonized MHAS will often end in "_M." This variable name suffix indicates some MHAS-specific difference with the RAND HRS or Harmonized HRS version of this measure. For instance the Harmonized MHAS variable labor force status is named RwLBRF_M while the RAND HRS variable for respondent cohort is named RwLBRF. The reason for this difference in variable name is that the MHAS used a different set of labor force statuses than the HRS. Other reasons for Harmonized MHAS-specific variable names include: differences in survey questions, differences in survey routing, and whether both sets of variables use imputed values. Harmonized MHAS-specific variable names are used to notify the user that there are substantial differences between the RAND HRS or Harmonized HRS and Harmonized MHAS measure and clean harmonization between these measures is not possible.

The Harmonized MHAS includes some variables without Harmonized MHAS-specific variable names even though the Harmonized MHAS measure is significantly different from the RAND HRS or Harmonized HRS measure of the same name. In particular wealth and income measures in the Harmonized MHAS do not use Harmonized MHAS-specific variable names even though wealth and income measures in the Harmonized MHAS are expressed in nominal pesos while income and wealth measures in the RAND HRS are always

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expressed in nominal dollars. Users should always check the "Differences with RAND HRS/Harmonized HRS" section of each measure before comparing any Harmonized MHAS measure to the RAND HRS or Harmonized 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. SAS, Stata, and SPSS offer the capability to distinguish multiple types of missing values, and we have attempted to record as much information as possible. Generally, the codes adhere to the classification in Table 1.

Code	Reason for missing
	Reference person did not respond to this wave
.a	Age ineligible
.d	Don't know
.i	Invalid value
.k	No kids
.m	Other missing
.r	Refused
.s	Information not available due to skip patterns
.u	Reference person is not married (for spouse variables)
.V	Spouse did not respond this wave (for spouse variables)

Table 1. Missing Codes

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

Item nonresponse for many variables is handled by imputation. MHAS uses a multiple imputation technique, involving the regression sequencing method with a SAS-based software routine (IVEware) developed by researchers at the Survey Methodology Program, Survey Research Center, Institute for Social Research at the University of Michigan. Imputations were completed for economic variables such as income, assets, health care expenditures, and monetary help received. Please see the 2001, 2003, 2012, 2015, and 2018 MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

1.6. Availability of Stress Measures

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

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physiological distress experience and poor psychological and physical health states hypothesized to follow from stressor exposure.

As a result of the work of the NIA Stress Measurement Network, the Harmonized MHAS provides harmonized stress measures beginning in 2001, MHAS Wave 1, and through 2018, MHAS Wave 5. The majority of stress measures are available between MHAS Waves 2 and 3. The stress measures are collected in the core interview, both in the Social Support and Satisfaction module and in the Fertility module.

MHAS queried information on discrete events that can be categorized as major life stressors or traumatic events (e.g., death of a child). MHAS included 4 measures of social strain and relationship support quality. Common indicators of social strain include assessments of social relationship targets as having their feelings understood, the ability to confide in others, to rely on them for serious problems, and being disappointed when counting on others.

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

2. Wealth and Income Variables

2.1 Units of Observation and financial respondent

It is important to distinguish the unit of observation for MHAS financial measures because financial questions can be asked about the individual, the spouse, the individual and their spouse, and the full household.

For married or partnered couples, MHAS asks income and asset questions at the individual level (respondent or spouse) or at the couple level.

Pension questions are always asked to the financial respondent at the individual level.

The total consumption question is asked to the financial respondent about the full-household.

For harmonization purposes, we need to use the same unit of observation in the different harmonized data sets. For this reason, we combine the individual-level asset and income variables into couple-level variables for those variables for which the RAND HRS provides couple-level variables.

2.2. Currency

All MHAS financial variables are expressed in nominal pesos.

MHAS asset questions are asked about current asset values.

MHAS income questions use more than one type of timing. Some income questions ask for total income in the last 12 months and some questions ask for the average monthly income during the last 12 months. Even though MHAS uses different timings when asking income questions, for Harmonization purposes, all financial variables in the Harmonized MHAS are expressed in yearly equivalents. These income variables expressed in yearly equivalents can be compared to the RAND HRS income measures.

2.3. Differences between Harmonized MHAS and RAND HRS or Harmonized HRS

Harmonized MHAS is intended to be as comparable to the RAND HRS and Harmonized HRS as possible. See Bugliari et al. (2021) for the documentation of the RAND HRS and Wilkens et al. (2022) for the documentation of the Harmonized HRS. However, there inevitably remain some differences between the two data sets. In the codebook, notable differences in definition, construction, or question text between the variables in Harmonized MHAS and the corresponding variables in the RAND HRS or Harmonized HRS are indicated on a per variable basis. For a full list of those RAND HRS or Harmonized HRS measures which are not available in the Harmonized MHAS see http://g2aging.org.

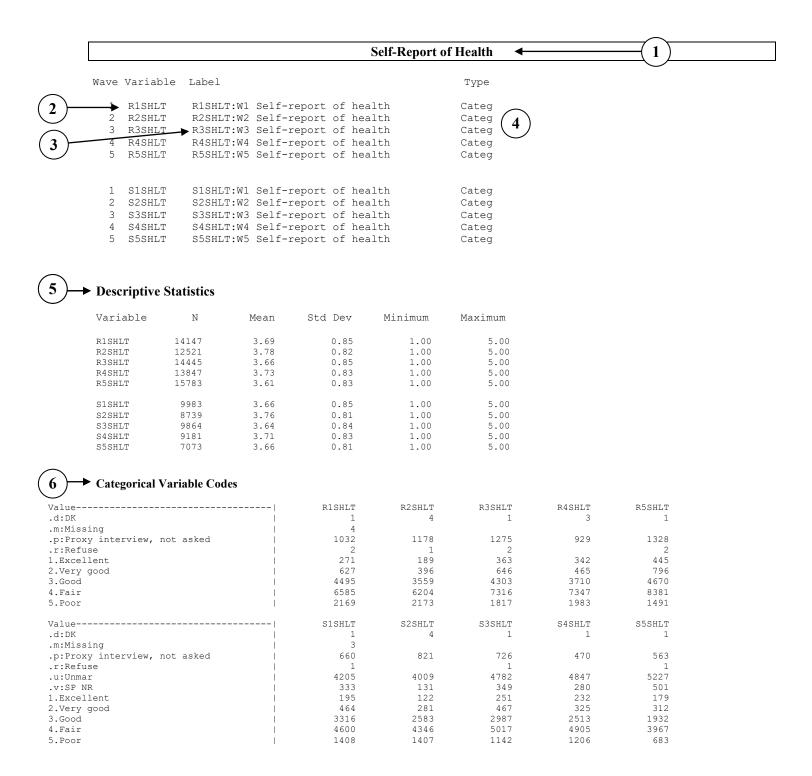
Furthermore, the imputation flags in the Harmonized MHAS are different from the imputation flags in the RAND HRS. This is because the imputation flags in the RAND HRS categorize the imputed values by the amount of information used in the imputation procedure (e.g. whether information from an unfolding bracket

sequence, whether bracket was complete or incomplete bracket). The imputation flags in the Harmonized MHAS only identify whether the values was imputed or not

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3. Structure of Codebook

The Data Codebook contains the codebook documenting all variables in the Harmonized MHAS 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.



3. Structure of Codebook 17



RWSHLT is the respondent's self-reported general health status using the following scale: 1 for Excellent, 2 for Very good, 3 for Good, 4 for Fair, and 5 for Poor. When respondents don't know or refuse to answer, RwSHLT is assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing .m. Also, RwSHLT is set to the special missing .p if the current interview was completed by proxy. RwSHLT is assigned plain missing (.) if the respondent did not participate in the current wave.

The SwSHLT variables are taken from the Wave 'w' spouse's self-reported RwSHLT variables. In addition to the special missing codes used in RwSHLT, SwSHLT employs the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

(8) Cross-Wave Differences in MHAS

No differences known.

(9) Differences with the RAND HRS/Harmonized HRS

No differences known.

(10)→ MHAS Variables Used

```
Wave 1:

C1 quality of health

Wave 2:

C1 health status

Wave 3:

C1_12 Global self-reported quality of health

Wave 4:

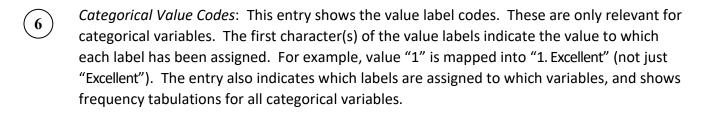
C1_15 respondent's self-reported health

Wave 5:

C1_18 R's self-reported health
```

- Title: The variables are documented in groups according to the concept that they measure. For example, there are ten variables related to self-reported health, corresponding to five waves and respondent/spouse. The title is often followed by a short description of the concept that is captured.
- Variable Names: This entry shows the waves of variables in the group. Not all waves are present for all variables.
- Variable Labels: This entry shows the Stata variable labels. As discussed above, the labels typically include the name of the variable, the file on which it is present, and a description of its contents.
- Variable Type: This entry indicates the type of variable. It may be continuous (Cont), categorical (Categ), or character (Char).
- 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.

3. Structure of Codebook 18



- How Constructed: This entry provides background on the manner in which variables were constructed.
- 8 Cross-Wave Differences in MHAS: This entry briefly describes differences in question wording or content between interview waves.
- Differences with the RAND HRS/Harmonized HRS: This entry describes any differences between the RAND HRS or Harmonized HRS version of the variable and the Harmonized MHAS version of the variable. It is imperative these differences are understood when using harmonized measures.
- MHAS Variables Used: This entry provides the names and labels of raw MHAS variables that were used to construct the new variables.

4. Distribution and Technical Notes

The Harmonized MHAS Data file is distributed by the Mexican Health and Aging Study. The Harmonized MHAS Data file is made available free of charge but only to users who register with MHAS and agree to the standard conditions. For more information on obtaining access to the MHAS data visit:

http://www.mhasweb.org/DataDocumentationNew.aspx and select the Data tab on the top, and then Constructed/Harmonized on the right side of the page.

This is version **C** of the Harmonized MHAS Data.

A copy of the Stata programs used to create the Harmonized MHAS and a copy of this Harmonized MHAS Codebook can be obtained on the Gateway to Global Aging Data (http://g2aging.org) under the Download page or from the MHAS website (http://www.mhasweb.org).

5. Data Codebook 20

5. Data Codebook



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Section A: Demographics, Identifiers, and Weights

Person Specific Identifier

Wave	Variable	Label	Туре
1	CODENT01	Person identification code 2001 (=ps3)	Categ
1	CODENT03	Person identification code 2003 (=ent2)	Categ
1	PS3	Person identification code 2001 (=codent01)	Cont
1	ENT2	Person identification code 2003 (=codent03)	Cont
1	NP	Person Number/ Numero de Persona	Cont
1	UNHHIDNP	UNHHIDNP: Unique Person Identifier (HH ID + Person Number)/	Cont
1	RAHHIDNP	RAHHIDNP: Unique Person Identifier (HH ID + Person Number)/	Char
1	TIPENT_01	Type of interview 2001	Categ
1	TIPENT_03	Type of interview 2003	Categ
1	TIPENT_12	Type of interview 2012	Categ
1	TIPENT_15	Type of interview 2015	Categ
1	TIPENT_18	Type of interview 2018	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
CODENT01	15365	1.36	0.48	1.00	2.00
CODENT03	15230	1.37	0.50	1.00	4.00
PS3	15365	1.36	0.48	1.00	2.00
ENT2	15230	1.37	0.50	1.00	4.00
NP	26839	13.79	4.85	10.00	44.00
UNHHIDNP	26839	945986.39	557672.68	110.00	2021820.00
TIPENT_01	15186	12.03	2.62	11.00	22.00
TIPENT_03	13704	12.21	2.92	11.00	22.00
TIPENT_12	15723	1.54	0.70	1.00	4.00
TIPENT_15	14779	1.17	0.53	1.00	4.00
TIPENT_18	17114	1.44	0.67	1.00	4.00

Categorical Variable Codes

Value	CODENT01
1.Selected person	9795
2.Spouse of selected person	5570
Value	CODENT03
1.Selected person in 2001	9653

2.Spouse of selected person in 2001 3.New spouse of selected person in 2001 4.New spouse-of-spouse of selected persol	5477 93 7
Value 11.Direct, first interview 12.Direct, second interview 21.Proxy, first interview 22.Proxy, second interview	TIPENT_01 9424 4730 438 594
Value 11.Direct, first interview 12.Direct, second interview 21.Proxy, first interview 22.Proxy, second interview	TIPENT_03 8465 4061 457 721
Value 1.Direct, follow-up interview 2.Direct, new sample interview 3.Proxy, follow-up interview 4.Proxy, new sample interview	TIPENT_12 8868 5580 959 316
Value 1.Direct, follow-up interview 2.Direct, new spouse interview 3.Proxy, follow-up interview 4.Proxy, new spouse interview	TIPENT_15 13254 596 884 45
Value	TIPENT_18 11183 4603 1122 206

How Constructed

At baseline, the unique within-household person ID CODENT01 (also equal to PS3) is assigned to identify the selected individual and their spouses inside the household. In Wave 2, a new unique within-household person ID CODENT03 (also equal to ENT2) was created to identify the respondents inside the household. In addition to the 2 codes of CODENT01 from Wave 1, two more codes were added to CODENT03 to identify the new spouse of the selected person in Wave 1 and the new spouse of the spouse in Wave 1. Together, CUNICAH (also equal to UNHHID) and CODENT01 uniquely identify each individual at baseline, while CUNICAH and CODENT03 identify each individual at Wave 2.

Starting in 2012, a new variable NP was created to uniquely identify each person. Together, CUNICAH and NP uniquely identify each individual in the MHAS data. UNHHIDNP is the numeric value of the combination of CUNICAH and NP, and uniquely identify each respondent. The variable is set to CUNICAH*100+NP. Also, RAHHIDNP is the 7-digit character version of the UNHHIDNP.

TIPENT_01, TIPENT_03, TIPENT_12, TIPENT_15, and TIPENT_18 indicate the interview type for the corresponding wave and are necessary to merge certain MHAS data files in conjunction with other identifiers. TIPENT_01 indicates the interview type for Wave 1 and is coded as follows: 11.Direct, first interview, 12.Direct, second interview, 21.Proxy, first interview, 22.Proxy, second interview. TIPENT_03 indicates the interview type for Wave 2 and is coded as follows: 11.Direct, first interview, 12.Direct, second interview, 21.Proxy, first interview, 22.Proxy, second interview, 31.Next-of-kin interview, first interview, 32.Next-of-kin interview, second interview, 33.Next-of-kin interview, 42.Non-response, second interview. TIPENT_12, TIPENT_15, and TIPENT_18 indicate the interview type for Waves 3, 4, and 5 and are coded as follows: 1.Direct, follow-up interview, 2.Direct, new sample interview, 3.Proxy, follow-up interview, 4.Proxy, new sample interview, 5.Next-of-kin. TIPENT_15 describes options 2 and 4 as "new spouse" interviews, whereas TIPENT_12 and TIPENT_18 describe options 2 and 4 as "new sample" interviews.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

TIPENT_18 Type of interview 2018

No differences known.

Wave 1: CODENT01 CUNICAH	Person identification code 2001 (=ps3) Clave Unica del Hogar (=unhhid)
PS3 TIPENT 01	Person identification code 2001 (=codent01) Type of interview 2001
Wave 2:	Type of Interview 2001
ACTHOG	Update household code 2003
CODENT03	Person identification code 2003 (=ent2)
CUNICAH	Clave Unica del Hogar (=unhhid)
ENT2	Person identification code 2003 (=codent03)
TIPENT_03	Type of interview 2003
Wave 3:	
CUNICAH	Clave Unica del Hogar (=unhhid)
NP	Person Number/ Numero de Persona
TIPENT 12	Type of interview 2012
Wave 4:	
CUNICAH	Clave Unica del Hogar (=unhhid)
NP	Person Number/ Numero de Persona
TIPENT 15	Type of interview 2015
Wave 5:	
CUNICAH	Clave Unica del Hogar (=unhhid)
NP	Person Number/ Numero de Persona

Household Identifier

Wave	Variable	Label	Type
1	UNHHID	Clave Unica del Hogar (=cunicah)	Cont
1	CUNICAH	Clave Unica del Hogar (=unhhid)	Cont
4	H1HHID H2HHID H3HHID H4HHID H5HHID	hlhhid: w1 Unique Household Identifier (HH ID + SubHH) / Num h2hhid: w2 Unique Household Identifier (HH ID + SubHH) / Num h3hhid: w3 Unique Household Identifier (HH ID + SubHH) / Num h4hhid: w4 Unique Household Identifier (HH ID + SubHH) / Num h5hhid: w5 Unique Household Identifier (HH ID + SubHH) / Num	Cont Cont Cont Cont
4	H1HHIDC H2HHIDC H3HHIDC H4HHIDC H5HHIDC	hlhhidc: w1 Unique Household Identifier (HH ID + SubHH) / 7-C h2hhidc: w2 Unique Household Identifier (HH ID + SubHH) / 7-C h3hhidc: w3 Unique Household Identifier (HH ID + SubHH) / 7-C h4hhidc: w4 Unique Household Identifier (HH ID + SubHH) / 7-C h5hhidc: w5 Unique Household Identifier (HH ID + SubHH) / 7-C	Char Char Char Char Char
1	ACTHOG	Update household code 2003	Char
1	SUBHOG_01	2001 sub-household identifier	Categ
1	SUBHOG_03	2003 sub-household identifier	Categ
1	SUBHOG_12	2012 sub-household identifier	Categ
1	SUBHOG_15	2015 sub-household identifier	Categ
1	SUBHOG_18	2018 sub-household identifier	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
UNHHID	26839	9459.73	5576.73	1.00	20218.00
CUNICAH	26839	9459.73	5576.73	1.00	20218.00
H1HHID	26839	94639.56	55807.52	10.00	202279.00
H2HHID	26839	94642.39	55803.53	11.00	202279.00
H3HHID	26839	94629.88	55785.33	11.00	202279.00
H4HHID	26839	94633.30	55781.75	21.00	202279.00
H5HHID	26839	94625.62	55750.28	22.00	202180.00
SUBHOG_01	26839	42.30	48.96	0.00	99.00
SUBHOG_03	26839	45.13	47.30	0.00	99.00
SUBHOG_12	26839	32.62	40.76	0.00	99.00
SUBHOG_15	26839	36.04	41.19	0.00	99.00
SUBHOG_18	26839	28.36	41.49	0.00	99.00

Categorical Variable Codes

Value	-	SUBHOG 01
00.Baseline HH		15365
77.HH lost to follow-up/Not contacted		25
99.Not part of the study		11449

Value	SUBHOG_03 406 13260 243 58 5 1 528 278 1117 10943
Value	
Value	SUBHOG_15 586 12332 91 1299 1095 20 7 29 793 400 11 2 44 5332 4798
Value	SUBHOG_18 4913 10902 74 1394 1266 32 6 19 14 4 784 360 7 2 4 3 53 675 6327

How Constructed

 $\label{locality} \mbox{HwHHID uniquely identifies a household in a given wave. HwHHID consists of the household identifier (CUNICAH=UNHHID) *10 + the sub-household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} and \mbox{Hubble} a household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} and \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} and \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} are consistent of the household identifier (SUBHOG_01 in Wave 1, SUBHOG_03 in Wave 2, SUBHOG_12) \mbox{Hubble} are consistent of the household identifier (SUBHOG_03 in Wave 2, SUBHOG_03 in Wave 3, SUBHOG_03 in$

in Wave 3, SUBHOG_15 in Wave 4, and SUBHOG_18 in Wave 5). The household identifier (CUNICAH) is a random sequential 5-digit number that ranges from 00001 to 11000 created to identify each household at baseline. After Wave 3, CUNICAH was also assigned to the new refresher sample. The new sample was assigned a value starting from 11001 to identify each new household.

The set of sub-household variables (SUBHOG_01, SUBHOG_03, SUBHOG_12, SUBHOG_15, SUBHOG_18) were created after the third wave and are all included in the 2012, 2015, and 2018 Master Follow-up files. The variables were created to follow the modifications of the original household and new households that result from household changes. These changes include: divorce/separation, death, or new spouse of the original subjects. The last two digits of the variable indicate the year of the respective wave. Also, the variable SUBHOG 03 was created to replace the "updated household" ID (ACTHOG) used in 2003.

HWHHIDC is a 9-digit character version of HwHHID. HwHHIDC is created by exactly the same standards as HwHHID but is stored as a character.

Cross Wave Differences in MHAS

The household code ACTHOG was created in 2003 to capture changes in the situation of the individual or couple interviewed in 2001. This variable is referred to as "updated household" and the codes reflect the type of change experienced, including divorce/separation, death, or new spouse. The updated-household codes also capture whether the household observed in 2003 contains the baseline sampled respondent, or the baseline spouse of the selected person. In 2003, the unique household identifier CUNICAH used in 2001 must be supplemented with ACTHOG to form the unique household identifier. These two variables, in combination with the person identifier for the 2003 given by CODENTO3 (also called ENT2) serve as unique identifiers for the second wave.

In 2012 a set of sub-household IDs (SUBHOG_XX) was introduced to follow the modifications of the original household and new households that result from household changes. The last two digits of the variable indicate the year of the respective survey. One variable has been created for each wave (SUBHOG_01, SUBHOG_12, SUBHOG_15, SUBHOG_18), each of them reflecting the changes in the household recorded for 2001, 2003, 2012, 2015 and 2018 respectively. This new identifier was created to replace the "updated household" ID (ACTHOG) used in 2003. The unique household identifier CUNICAH must be supplemented with SUBHOG_03, SUBHOG_12, SUBHOG_15, and SUBHOG_18 to form the unique household identifier for 2003, 2012, 2015, and 2018 respectively.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:	
CUNICAH	Clave Unica del Hogar (=unhhid)
Wave 2:	
ACTHOG	Update household code 2003
CUNICAH	Clave Unica del Hogar (=unhhid)
Wave 3:	
CUNICAH	Clave Unica del Hogar (=unhhid)
SUBHOG_12	2012 sub-household identifier
Wave 4:	
CUNICAH	Clave Unica del Hogar (=unhhid)
SUBHOG_15	2015 sub-household identifier
Wave 5:	
CUNICAH	Clave Unica del Hogar (=unhhid)
SUBHOG_18	2018 sub-household identifier

Spouse Identifier

Wave	Variable	Label						Т	'уре
1	S1HHIDNP	s1hhidnp:	w1	S	Unique	Person	Identifier	С	ont
2	S2HHIDNP	s2hhidnp:	w2	S	Unique	Person	Identifier	C	ont
3	S3HHIDNP	s3hhidnp:	wЗ	S	Unique	Person	Identifier	C	ont
4	S4HHIDNP	s4hhidnp:	w4	S	Unique	Person	Identifier	C	ont
5	S5HHIDNP	s5hhidnp:	w5	S	Unique	Person	Identifier	С	ont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
S1HHIDNP	11075	548360.35	316747.65	110.00	1100020.00
S2HHIDNP	9945	547336.90	315189.55	110.00	1100020.00
S3HHIDNP	10592	860869.11	454646.53	110.00	1513020.00
S4HHIDNP	9863	881061.35	454348.75	210.00	1513020.00
S5HHIDNP	8687	900574.16	453817.05	310.00	1513020.00

How Constructed

SwHHIDNP gives the UNHHIDNP of the spouse in Wave 'w'.

If there is no spouse in a given wave, SwHHIDPN is set to zero. If SwHHIDPN is unknown, and the marital status in a particular wave is either missing or married, SwHHIDPN is set to a special missing code of .m. SwHHIDPN is set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in MHAS

No differences known

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:	Person identification Clave Unica del Hogar Person identification	(=unhhid)
ACTHOG	Update household code	2003
CODENT03	Person identification	code 2003 (=ent2)
CUNICAH	Clave Unica del Hogar	(=unhhid)
ENT2	Person identification	code 2003 (=codent03)
Wave 3:		
CUNICAH	Clave Unica del Hogar	
NP	Person Number/ Numero	de Persona
Wave 4:		
CUNICAH	Clave Unica del Hogar	
NP	Person Number/ Numero	de Persona
Wave 5:		
CUNICAH	Clave Unica del Hogar	
NP	Person Number/ Numero	de Persona

Wave Status: Response Indicator

Wave	Variable	Label				<u>-</u>	Гуре
1	INW1	inw1:	w1	Response	Indicator		Categ
2	INW2	inw2:	w2	Response	Indicator		Categ
3	INW3	inw3:	wЗ	Response	Indicator	(Categ
4	INW4	inw4:	w4	Response	Indicator	(Categ
5	INW5	inw5:	w5	Response	Indicator	(Cateo

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
INW1	26839	0.57	0.50	0.00	1.00
INW2	26839	0.51	0.50	0.00	1.00
INW3	26839	0.59	0.49	0.00	1.00
INW4	26839	0.55	0.50	0.00	1.00
INW5	26839	0.64	0.48	0.00	1.00

Categorical Variable Codes

Value	INW1	INW2	INW3	INW4	INW5
0.Non, resp	11653	13135	11116	12060	9725
1.Resp, alive	15186	13704	15723	14779	17114

How Constructed

These variables indicate whether an individual responded to a particular wave. INWw is derived from information in the MHAS master follow-up file. Respondents identified as having either a full or partial interview either in person or through a proxy are considered to have responded, without considering the order of the interview. Interviews for the deceased are not considered to have responded.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:				
TIPENT 01	Type	of	interview	2001
Wave 2:				
TIPENT 03	Type	of	interview	2003
Wave 3:				
TIPENT 12	Type	of	interview	2012
Wave 4:				
TIPENT 15	Type	of	interview	2015
Wave 5:				
TIPENT 18	Type	of	interview	2018

Wave Status: Interview Status

Wave	Variable	Label	Ту	уре
1	R1IWSTAT	rliwstat:	: w1 R Interview Status Ca	ateg
2	R2IWSTAT	r2iwstat:		ateg
3	R3IWSTAT	r3iwstat:	w3 R Interview Status Ca	ateg
4	R4IWSTAT	r4iwstat:	w4 R Interview Status Ca	ateg
5	R5IWSTAT	r5iwstat:	w5 R Interview Status Ca	ateg
1	S1IWSTAT	sliwstat:	w1 S Interview Status Ca	ateg
2	S2IWSTAT	s2iwstat:	w2 S Interview Status Ca	ateg
3	S3IWSTAT	s3iwstat:	w3 S Interview Status Ca	ateg
4	S4IWSTAT	s4iwstat:	w4 S Interview Status Ca	ateg
5	S5IWSTAT	s5iwstat:	w5 S Interview Status Ca	ateg

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IWSTAT	26839	0.59	0.57	0.00	4.00
R2IWSTAT	26839	0.83	1.35	0.00	9.00
R3IWSTAT	26839	1.47	1.83	0.00	9.00
R4IWSTAT	26839	1.96	2.37	0.00	9.00
R5IWSTAT	26839	2.41	2.42	0.00	9.00
S1IWSTAT	11075	1.02	0.45	0.00	4.00
S2IWSTAT	9945	1.14	0.71	0.00	5.00
S3IWSTAT	10592	1.00	0.00	1.00	1.00
S4IWSTAT	9863	1.07	0.48	1.00	9.00
S5TWSTAT	8687	1.57	1.75	1.00	9.00

Categorical Variable Codes

Value		R1IWSTAT	R2IWSTAT	R3IWSTAT	R4IWSTAT	R5IWSTAT
0.Inap		11474	11609	6644	5770	1678
1.Resp, alive		15186	13704	15723	14779	17114
4.NR, alive		179	597	674	731	1270
5.NR, died this wave			563	2867	1219	1146
6.NR, died prev wave				563	3430	4649
9.NR, dk if alive or died	I		366	368	910	982
Value		Sliwstat	S2IWSTAT	S3IWSTAT	S4IWSTAT	S5IWSTAT
Value		S1IWSTAT 4040	S2IWSTAT 3752	S3IWSTAT 4782	S4IWSTAT 4844	S5IWSTAT 5224
.u:Unmar	 	4040		4782	4844	5224
.u:Unmar .v:SP NR	 	4040 71		4782	4844	5224
.u:Unmar .v:SP NR 0.Inap	 	4040 71 358	3752 7 1	4782 349	4844 72	5224 307
.u:Unmar .v:SP NR 0.Inap 1.Resp, alive	 	4040 71 358 10506	3752 7 1 9561	4782 349	4844 72 9652	5224 307 7638

How Constructed

The RwIWSTAT variable gives the response and mortality status of the respondent at each wave. Respondents are identified by code 1, non-respondents are identified by codes 4-6 and 9.

Mortality status is taken from the Follow-up Master File. Known alive and presumed alive are both treated as an indication that the respondent is living. Non-response code 4 means that the respondent is alive so far as we know but did not respond. A code of 5 means that the respondent died between the last interview and the current one, and 6 means that the respondent had died before a previous wave. A code of 9 means that we don't know if the individual is alive or not.

SwIWSTAT gives the response and mortality status of the current wave's spouse. It is taken from the spouse's RwIWSTAT. Note that when a spouse dies the spouse interview status for the surviving spouse will have a code of .u, respondent 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 MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Type of household non-interview 2001
Type of non-interview 2003
Type of non-interview 2012
Type of non-interview 2015
Type of non-interview 2018

Sample Cohort

Wave Variable Label Type

1 HACOHORT HACOHORT: Sample Cohort Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HACOHORT	26839	1.59	0.77	1.00	3.00

Categorical Variable Codes

Value	HACOHORT
Baseline sample	15721
2012 Refresher sample	6382
2018 Refresher sample	4736

How Constructed

HACOHORT identifies the cohort in which the household was originally sampled. HACOHORT is assigned a 1 if the household was sampled with the original cohort in Wave 1 (2001). HACOHORT is assigned a 2 if the household was added to the sample in Wave 3 (2012) and a 3 if the household was added to the sample in Wave 5 (2018).

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

MHAS Variables Used

Wave 1:

TIPNE_01 Type of household non-interview 2001
Wave 2:
 TIPNE_03 Type of non-interview 2003
Wave 3:
 NEW_SAMPLE_12 Follow-up and new sample 2012
Wave 4:
 NEW_SAMPLE_15 Follow-up and new sample/spouses 2015
Wave 5:
 NEW SAMPLE 18 Follow-up and new sample/spouses 2018

Whether Proxy Interview

Wave	Variable	Label	Type
1	R1PROXY	rlproxy: w1 R Whether Proxy Interview	Categ
2	R2PROXY	r2proxy: w3 R Whether Proxy Interview	Categ
3	R3PROXY	r3proxy: w3 R Whether Proxy Interview	Categ
4	R4PROXY	r4proxy: w4 R Whether Proxy Interview	Categ
5	R5PROXY	r5proxy: w5 R Whether Proxy Interview	Categ
1	S1PROXY	slproxy: w1 S Whether Proxy Interview	Categ
2	S2PROXY	s2proxy: w2 S Whether Proxy Interview	Categ
3	S3PROXY	s3proxy: w3 S Whether Proxy Interview	Categ
4	S4PROXY	s4proxy: w4 S Whether Proxy Interview	Categ
5	S5PROXY	s5proxy: w5 S Whether Proxy Interview	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PROXY	15186	0.07	0.25	0.00	1.00
R2PROXY	13704	0.09	0.28	0.00	1.00
R3PROXY	15723	0.08	0.27	0.00	1.00
R4PROXY	14779	0.06	0.24	0.00	1.00
R5PROXY	17114	0.08	0.27	0.00	1.00
S1PROXY	10648	0.06	0.24	0.00	1.00
S2PROXY	9564	0.09	0.28	0.00	1.00
S3PROXY	10592	0.07	0.25	0.00	1.00
S4PROXY	9652	0.05	0.22	0.00	1.00
S5PROXY	7638	0.07	0.26	0.00	1.00

Categorical Variable Codes

Value	R1PROXY	R2PROXY	R3PROXY	R4PROXY	R5PROXY
0.Not proxy	14154	12526	14448	13850	15786
1.Proxy	1032	1178	1275	929	1328
Value	S1PROXY	S2PROXY	S3PROXY	S4PROXY	S5PROXY
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.Not proxy	9988	8743	9866	9182	7075
1.Proxy	660	821	726	470	563

How Constructed

RwPROXY is set to 1 if the interview is by proxy in the current wave. A code of 0 is used if the respondent was not a proxy and a code of 1 is used when the interview was completed by proxy. RwPROXY is set to plain missing (.) for respondents who did not respond to the current wave.

SwPROXY indicates whether the current wave's spouse's interview is by proxy. It is taken from the spouse's RwPROXY. 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 MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:				
TIPENT_01	Type	of	interview	2001
Wave 2:				
TIPENT_03	Type	of	interview	2003
Wave 3:				
TIPENT_12	Type	of	interview	2012
Wave 4:				
TIPENT_15	Type	of	interview	2015
Wave 5:				
TIPENT 18	Type	of	interview	2018

Number of Household Respondents

Wave	Variable	Label							Туре
1	H1HHRESP	h1hhresp:	w1	#	Core	Respondents	in	hh	Cont
2	H2HHRESP	h2hhresp:	w2	#	Core	Respondents	in	hh	Cont
3	H3HHRESP	h3hhresp:	wЗ	#	Core	Respondents	in	hh	Cont
4	H4HHRESP	h4hhresp:	w4	#	Core	Respondents	in	hh	Cont
5	H5HHRESP	h5hhresp:	w5	#	Core	Respondents	in	hh	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1HHRESP	15186	1.70	0.46	1.00	2.00
H2HHRESP	13704	1.70	0.46	1.00	2.00
H3HHRESP	15723	1.67	0.47	1.00	2.00
H4HHRESP	14779	1.65	0.48	1.00	2.00
H5HHRESP	17114	1.67	0.47	1.00	2.00

How Constructed

HwHHRESP is the number of individuals in the household who actually responded at each wave. It counts the number of respondents sharing the same household ID. It counts the respondent and spouse, if any and if the spouse responded, taking on a value of 1 or 2. Individuals with a value greater than zero for INWw are counted by wave-specific household that is by household ID (CUNICAH/UNHHID) and sub-household ID (ACTHOG in Wave 2, SUBHOG_12 in Wave 3, SUBHOG_15 in Wave 4, and SUBHOG_18 in Wave 5). HwHHRESP is set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Type	of	interview	2001
Type	of	interview	2003
Type	of	interview	2012
Type	of	interview	2015
Type	of	interview	2018
	Type Type Type	Type of Type of	Type of interview

Whether Couple Household

Wave	Variable	Label	Type
1	H1CPL	h1cpl: w1 Whether a Couple hh	Categ
2	H2CPL	h2cpl: w2 Whether a Couple hh	Categ
3	H3CPL	h3cpl: w3 Whether a Couple hh	Categ
4	H4CPL	h4cpl: w4 Whether a Couple hh	Categ
5	H5CPL	h5cpl: w5 Whether a Couple hh	Cated

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CPL	15186	0.70	0.46	0.00	1.00
H2CPL	13704	0.70	0.46	0.00	1.00
H3CPL	15723	0.67	0.47	0.00	1.00
H4CPL	14779	0.65	0.48	0.00	1.00
H5CPL	17114	0.67	0.47	0.00	1.00

Categorical Variable Codes

Value		H1CPL	H2CPL	H3CPL	H4CPL	H5CPL
0.No		4538	4140	5131	5127	5728
1.Yes	1	10648	9564	10592	9652	11386

How Constructed

HwCPL indicates whether the respondent is treated as coupled or not. HwCPL is set to one if the respondent is coupled with another respondent in the current wave. HwCPL is set to zero if the respondent is not coupled with any other respondent in the current wave. HwCPL is set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:				
TIPENT_01	Type	of	interview	2001
Wave 2:				
TIPENT_03	Type	of	interview	2003
Wave 3:				
TIPENT_12	Type	of	interview	2012
Wave 4:				
TIPENT_15	Type	of	interview	2015
Wave 5:				
TIPENT 18	Type	of	interview	2018

Household Analysis Weight

Wave	Variable	Label		Type
1	R1WTHH	rlwthh: w1	. Household Analysis Weight	Cont
2	R2WTHH	r2wthh: w2	Household Analysis Weight	Cont
3	R3WTHH	r3wthh: w3	Household Analysis Weight	Cont
4	R4WTHH	r4wthh: w4	Household Analysis Weight	Cont
5	R5WTHH	r5wthh: w5	Household Analysis Weight	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WTHH	15365	1014.49	1578.44	16.00	35360.00
R2WTHH	15479	903.19	1733.85	0.00	46315.00
R3WTHH	20582	1412.93	2841.96	0.00	72628.00
R4WTHH	17639	1514.81	2777.29	0.00	51137.00
R5WTHH	20512	1310.32	2460.81	0.00	90984.00

How Constructed

RwWTHH is the household analysis weight. The household weights are taken directly from household weights, FACTORH, in the MHAS Follow-up Master File. The MHAS household weights are based on the sample design and sample selection criteria, and the calibration variables of all community dwelling households with at least one resident 50 years or older, based on the household composition, the place of residence (urban and rural areas), and geographic area.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Household weight 2001
Household weight 2003
Household weight 2012
Household weight 2015
Household weight 2018

Person-Level Analysis Weight

Wave	Variable	Label	Туре
1	R1WTRESP	rlwtresp: w1 R Person-Level Analysis Weight	Cont
2	R2WTRESP	r2wtresp: w2 R Person-Level Analysis Weight	Cont
3	R3WTRESP	r3wtresp: w3 R Person-Level Analysis Weight	Cont
4	R4WTRESP	r4wtresp: w4 R Person-Level Analysis Weight	Cont
5	R5WTRESP	r5wtresp: w5 R Person-Level Analysis Weight	Cont
1	S1WTRESP	slwtresp: w1 S Person-Level Analysis Weight	Cont
2	S2WTRESP	s2wtresp: w2 S Person-Level Analysis Weight	Cont
3	S3WTRESP	s3wtresp: w3 S Person-Level Analysis Weight	Cont
4	S4WTRESP	s4wtresp: w4 S Person-Level Analysis Weight	Cont
5	S5WTRESP	s5wtresp: w5 S Person-Level Analysis Weight	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WTRESP	15365	950.58	1688.14	0.00	44177.00
R2WTRESP	15479	909.73	1748.52	0.00	46315.00
R3WTRESP	20582	1393.20	3046.60	0.00	97546.00
R4WTRESP	17639	1279.44	2661.28	0.00	90984.00
R5WTRESP	20512	1511.16	2917.52	0.00	98699.00
S1WTRESP	10864	868.58	1499.98	0.00	29742.00
S2WTRESP	9945	922.69	1634.30	0.00	33620.00
S3WTRESP	10592	1654.21	3316.51	0.00	97546.00
S4WTRESP	9863	1434.40	2690.97	0.00	43969.00
S5WTRESP	8687	1615.51	3098.62	0.00	53376.00

How Constructed

RwWTRESP is the person-level analysis weight. The person-level weights are taken directly from individual weights, FACTORI, in the MHAS Follow-up Master File. The MHAS person-level weights are based on the birth cohort, household composition, the place of residence (in urban and rural areas), and geographic area. Wave 1 and Wave 2 weights were calibrated for the baseline sample, and are only generated for age-eligible respondents. All selected respondents who are not age-eligible are assigned 0 as the weight. At baseline, the calibration was based on the size of the Mexican population of individuals born prior to 1951, that is, the population aged 50 or older as of 2001. In Wave 3, the sample was refreshed adding a representative sample of the population from the 1952-1962 birth cohort as well as their spouses/partners regardless of age. The Waves 3 and 4 weights were assigned to the new age-eligible respondents as well, and were calibrated to represent the population aged 50 or older as of 2012. In Wave 5, the sample was refreshed adding a representative sample of the population from the 1963-1968 birth cohort as well as their spouses/partners regardless of age. The Wave 5 weights were assigned to the new age-eligible respondents, and were calibrated to represent the population aged 50 or older as of 2018.

SwWTRESP is the current wave's spouse's person-level analysis weight. It is taken directly from the spouse's RwWTRESP. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

MHAS Variables Used

Wave 1:

FACTORI_01 Person weight 2001

Wave 2:

Person weight 2003 FACTORI_03

Wave 3:

Individual weight 2012 FACTORI_12

Wave 4:

Individual weight 2015 FACTORI_15

Wave 5:

FACTORI_18 Individual weight 2018

Interview Dates

Wave	Variable	Label					Туре
1	R1IWM	rliwm:	w1 F	Interview	Month	1	Cont
2	R2IWM	r2iwm:	w2 F	Interview	Month	า	Cont
3	R3IWM	r3iwm:	w3 F	Interview	Month	ì	Cont
4	R4IWM	r4iwm:	w4 F	Interview	Month	า	Cont
5	R5IWM	r5iwm:	w5 F	Interview	Montl	ı	Cont
1	S1IWM	sliwm:	w1 S	Interview	Montl	ì	Cont
2	S2IWM	s2iwm:	w2 S	Interview	Montl	ı	Cont
3	S3IWM			Interview			Cont
4	S4IWM	s4iwm:	w4 S	Interview	Montl	l	Cont
5	S5IWM	s5iwm:	w5 S	Interview	Montl	ı	Cont
1	R1IWY	rliwy:	w1 F	Interview	Year		Cont
2	R2IWY	r2iwy:	w2 F	Interview	Year		Cont
3	R3IWY	_		Interview			Cont
4	R4IWY	r4iwy:	w4 F	Interview	Year		Cont
5	R5IWY	r5iwy:	w5 F	Interview	Year		Cont
1	S1IWY	_		Interview			Cont
2	S2IWY	s2iwy:	w2 S	Interview	Year		Cont
3	S3IWY	s3iwy:	w3 S	interview	Year		Cont
4	S4IWY	_		interview			Cont
5	S5IWY	s5iwy:	w5 S	interview	Year		Cont
1	R1IWF			Interview		_	Categ
2	R2IWF			Interview		_	Categ
3	R3IWF			Interview		_	Categ
4	R4IWF			Interview		_	Categ
5	R5IWF	r5iwf:	w5 F	Interview	Date	Flag	Categ
1	S1IWF			Interview		_	Categ
2	S2IWF			Interview		_	Categ
3	S3IWF			Interview		_	Categ
4	S4IWF			Interview		_	Categ
5	S5IWF	s5iwf:	w5 S	Interview	Date	Flag	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IWM	15186	6.51	0.82	1.00	10.00
R2IWM	13704	6.75	0.70	6.00	9.00
R3IWM	15714	10.59	0.64	1.00	12.00
R4IWM	14779	10.63	0.59	10.00	12.00
R5IWM	17114	11.23	1.65	1.00	12.00
S1IWM	10648	6.54	0.82	1.00	10.00
S2IWM	9564	6.76	0.69	6.00	9.00
S3IWM	10584	10.58	0.62	1.00	12.00
S4IWM	9652	10.63	0.58	10.00	12.00
S5IWM	7638	11.26	1.62	1.00	12.00
R1IWY	15186	2001.00	0.00	2001.00	2001.00
R2IWY	13704	2003.00	0.00	2003.00	2003.00
R3IWY	15711	2012.00	0.03	2012.00	2013.00
R4IWY	14779	2015.00	0.00	2015.00	2015.00
R5IWY	17114	2018.02	0.15	2018.00	2019.00

S1IWY	10648	2001.00	0.00	2001.00	2001.00
S2IWY	9564	2003.00	0.00	2003.00	2003.00
S3IWY	10581	2012.00	0.03	2012.00	2013.00
S4IWY	9652	2015.00	0.00	2015.00	2015.00
S5IWY	7638	2018.02	0.15	2018.00	2019.00
R1IWF	15186	0.00	0.00	0.00	0.00
R2IWF	13704	0.00	0.00	0.00	0.00
R3IWF	15723	0.00	0.06	0.00	2.00
R4IWF	14779	0.00	0.00	0.00	0.00
R5IWF	17114	0.00	0.00	0.00	0.00
SliwF	10648	0.00	0.00	0.00	0.00
S2IWF	9564	0.00	0.00	0.00	0.00
S3IWF	10592	0.00	0.06	0.00	2.00
S4IWF	9652	0.00	0.00	0.00	0.00
S5IWF	7638	0.00	0.00	0.00	0.00

Categorical Variable Codes

Value		R1IWF	R2IWF	R3IWF	R4IWF	R5IWF
0.m/y ok		15186	13704	15711	14779	17114
2.mon/yr miss				12		
Value		SliWF	S2IWF	S3IWF	S4IWF	S5IWF
.u:Unmar		4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
0.m/y ok		10648	9564	10581	9652	7638
2.mon/yr miss				11		

How Constructed

These variables are derived from the reported month and year when the interview took place. RwIWM and RwIWY indicate the interview month and year, respectively. RwIWM and RwIWY are set to plain missing (.) for respondents who did not respond to the current wave.

SwIWM and SwIWY indicate the current wave's spouse's interview month and year, respectively. They are taken from the spouse's RwIWM and RwIWY, respectively. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

RwIWF flags interview dates when information on either month or year is missing. A code of 0 indicates that information on both month and year was available. A code of 1 indicates that the interview month was not available. A code of 2 indicates that the interview year was missing, possibly in addition to a missing interview month. RwIWF is set to plain missing (.) for respondents who did not respond to the current wave.

SwIWF flags the current wave's spouse's interview date. It is taken from the spouse's RwIWF. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .v is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, MHAS does not mark interviews with beginning and ending dates. Instead, MHAS provides information down to the year, month, and day when the interview was completed. Thus, unlike in the RAND HRS where interview dates are derived as midpoint between the reported beginning and ending dates, there are no midpoint calculations for the interview date variables in the Harmonized MHAS.

Wave 1:	
PS31 1	day of interview
Wave 2:	
ENT4_2	month of interview
Wave 3:	
INT_DATE_12	Interview date 2012
Wave 4:	
INT_DATE_15	Interview date 2015
Wave 5:	
INT DATE 18	Interview date 2018

Birth Date: Month and Year

Wave	Variable	Label	Туре
1	RABYEAR	rabyear: R Birth Year	Cont
1	S1BYEAR	slbyear: 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
5	S5BYEAR	s5byear: w5 S Birth Year	Cont
1	RABMONTH	rabmonth: R Birth Month	Cont
1	S1BMONTH	slbmonth: 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
5	S5BMONTH	s5bmonth: w5 S Birth Month	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RABYEAR	26771	1948.69	14.04	1895.00	2001.00
S1BYEAR	10648	1941.83	10.08	1895.00	1982.00
S2BYEAR	9846	1941.68	9.95	1895.00	1982.00
S3BYEAR	10578	1949.99	10.19	1898.00	1992.00
S4BYEAR	9815	1950.87	9.72	1913.00	1992.00
S5BYEAR	8668	1951.61	9.43	1918.00	1999.00
RABMONTH	26602	6.51	3.41	1.00	12.00
S1BMONTH	10596	6.45	3.40	1.00	12.00
S2BMONTH	9791	6.45	3.41	1.00	12.00
S3BMONTH	10567	6.51	3.43	1.00	12.00
S4BMONTH	9716	6.51	3.43	1.00	12.00
S5BMONTH	8605	6.52	3.43	1.00	12.00

How Constructed

RABYEAR is the respondent's reported birth year. RABMONTH is the respondent's reported month of birth. RABYEAR and RABMONTH are taken from the first non-missing value of birth data. Don't know responses are assigned special missing .d. Invalid birth dates are assigned special missing .i. RABYEAR and RABMONTH are set to plain missing (.) for respondents who did not respond to the current wave.

SwBYEAR and SwBMONTH indicate the current wave's spouse's birth year and month, respectively. They are taken from the spouse's RABYEAR and RABMONTH. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS asked the respondent's birthdate only during the first interview. However, starting in Wave 3, follow-up respondents were asked: "During the last interview, you said your birth

date was $_$. Is this correct?". Respondents could indicate whether the date was correct or not, and were allowed to correct the information provided.

```
Wave 1:
                             month of birth
     A1_2
                              year of birth
      A1_3
Wave 2:
     AA2 2
                               dob - month
     AA2_3
                               dob - year
Wave 3:
     A2A2_2_12 Correct month of birth
A2A2_3_12 Correct year of birth
AA2_2_12 Month of birth
...
     A2A2 2 12
     AA2_3_12
                              Year of birth
     Respondent's original
Correct year of birth
A2A2_3_15
Correct year of birth
AA2_2_15
AA2_3_15
Year 15
Wave 4:
                              Respondent's original stated birthday - Correct
Wave 5:
     A2A1_18 R's original stated birthday - Correct A2A2_3_18 Correct year of birth A2A2_3_18 Correct year of birth AA2_2_18 Month of birth AA2_3_18 Year of birth
```

Death Date: Month and Year

Wave	Variable	Label	Type
1	RADYEAR	radyear: R Death Year	Cont
1	S1DYEAR	sldyear: w1 S Death Year	Cont
2	S2DYEAR	s2dyear: w2 S Death Year	Cont
3	S3DYEAR	s3dyear: w3 S Death Year	Cont
4	S4DYEAR	s4dyear: w4 S Death Year	Cont
5	S5DYEAR	s5dyear: w5 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
3	S3DMONTH	s3dmonth: w3 S Death Month	Cont
4	S4DMONTH	s4dmonth: w4 S Death Month	Cont
5	S5DMONTH	s5dmonth: w5 S Death Month	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RADYEAR	5545	2010.36	4.90	2001.00	2018.00
S1DYEAR S2DYEAR S3DYEAR S4DYEAR S5DYEAR	3268 3135 1163 542 0	2010.40 2010.42 2015.33 2016.80	4.86 4.85 1.75 0.93	2001.00 2001.00 2010.00 2015.00	2018.00 2018.00 2018.00 2018.00
RADMONTH	5446	6.61	3.54	1.00	12.00
S1DMONTH S2DMONTH S3DMONTH S4DMONTH	3226 3090 1161 539	6.61 6.57 6.55 6.50	3.54 3.53 3.59 3.57	1.00 1.00 1.00 1.00	12.00 12.00 12.00 12.00
S5DMONTH	0	•			

How Constructed

RADYEAR is the respondent's reported death year. RADMONTH is the respondent's reported month of death.

RADYEAR and RADMONTH are based on questions asked as part of the Next-of-Kin interview asked at each wave starting with Wave 2. The Next-of-Kin interview is conducted in the case the subject is reported no longer alive.

RADYEAR and RADMONTH are assigned special missing values .d or .r, if the answer was don't know or refused, respectively. In Wave 2, RADYEAR and RADMONTH are also assigned the special missing value .s if the date of death question is skipped; that is if the cause of death was "Accident or violence" or "Other Cause" (and not from sickness). The variables are set to special missing .x if the respondent has not yet passed away.

SwDYEAR and SwDMONTH indicate the spouse's death year and month. They are taken from the respondent's spouse's RADYEAR and RADMONTH. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

In Wave 2, the date of death question is skipped if the reported cause of death was "Accident or violence" or "Other Cause" (and not from sickness).

Starting in Wave 3, date of death was asked in all these cases.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 2:	
SA8A 1	when did (name) die - month
SA8A_2	when did (name) die - year
Wave 3:	
SA8_1_12	Month deceased passed away
SA8_2_12	Year deceased passed away
Wave 4:	
SA8_1_15	Month deceased passed away
SA8_2_15	Year deceased passed away
Wave 5:	
SA8_1_18	Month deceased passed away
SA8_2_18	Year deceased passed away

Age at Interview (Months and Years)

Wave	Variable	Label		Туре
1	R1AGEY	rlagev:	: w1 R Age (years) at ivw	Cont
2	R2AGEY		: w2 R Age (years) at ivw	Cont
3	R3AGEY	r3agey:	: w3 R Age (years) at ivw	Cont
4	R4AGEY	r4agey:	: w4 R Age (years) at ivw	Cont
5	R5AGEY	r5agey:	: w5 R Age (years) at ivw	Cont
1	S1AGEY	slagey:	: w1 S Age (years) at ivw	Cont
2	S2AGEY	s2agey:	: w2 S Age (years) at ivw	Cont
3	S3AGEY	s3agey:	: w3 S Age (years) at ivw	Cont
4	S4AGEY	s4agey:	: w4 S Age (years) at ivw	Cont
5	S5AGEY	s5agey:	: w5 S Age (years) at ivw	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1AGEY	15186	60.26	10.84	18.00	105.00
R2AGEY	13700	62.59	10.51	21.00	107.00
R3AGEY	15716	64.33	10.78	21.00	115.00
R4AGEY	14776	66.13	10.66	22.00	113.00
R5AGEY	17094	63.95	11.72	16.00	107.00
S1AGEY	10648	58.16	10.08	18.00	105.00
S2AGEY	9561	60.57	9.82	21.00	107.00
S3AGEY	10588	62.26	9.89	21.00	115.00
S4AGEY	9650	63.98	9.78	22.00	101.00
S5AGEY	7637	66.53	9.39	18.00	100.00

How Constructed

RwAGEY is the respondent's age in years at the time of the current wave's interview and it comes from the recorded age in the sampling directory. If RwAGEY is missing, it is calculated using the self-reported birth year, RABYEAR, and the year of interview, RwIWY. RwAGEY is assigned special missing values .d or .r, respectively, if respondents don't know or refuse to answer the date of birth or if the interview data is missing. RwAGEY is set to plain missing (.) for respondents who did not respond to any waves.

SwAGEY is the current spouse's age in years at the time of the current wave's interview and is taken from the spouse's RwAGEY. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the respondent's age in the Harmonized MHAS is taken from the reported age and is not calculated using the date of birth and date of interview unless the reported age is missing.

Age
Age 2015
Age 2018

Gender

Wave	Variable	Label	Type
1	RAGENDER	ragender: R Gender	Categ
1	S1GENDER	slgender: 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
5	S5GENDER	s5gender: w5 S Gender	Categ
2	R2GENDERF	r2genderf: w2 R Gender Report Update Flag	Categ
3	R3GENDERF	r3genderf: w3 R Gender Report Update Flag	Categ
4	R4GENDERF	r4genderf: w4 R Gender Report Update Flag	Categ
5	R5GENDERF	r5genderf: w5 R Gender Report Update Flag	Categ
2	S2GENDERF	<pre>s2genderf: w2 S Gender Report Update Flag s3genderf: w3 S Gender Report Update Flag s4genderf: w4 S Gender Report Update Flag s5genderf: w5 S Gender Report Update Flag</pre>	Categ
3	S3GENDERF		Categ
4	S4GENDERF		Categ
5	S5GENDERF		Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAGENDER	26839	1.56	0.50	1.00	2.00
S1GENDER	10864	1.50	0.50	1.00	2.00
S2GENDER	9940	1.49	0.50	1.00	2.00
S3GENDER	10592	1.50	0.50	1.00	2.00
S4GENDER	9823	1.50	0.50	1.00	2.00
S5GENDER	8675	1.50	0.50	1.00	2.00
R2GENDERF	25064	0.00	0.00	0.00	0.00
R3GENDERF	21187	0.00	0.01	0.00	1.00
R4GENDERF	19602	0.00	0.03	0.00	1.00
R5GENDERF	17114	0.00	0.01	0.00	1.00
S2GENDERF	9569	0.00	0.00	0.00	0.00
S3GENDERF	10592	0.00	0.01	0.00	1.00
S4GENDERF	9692	0.00	0.03	0.00	1.00
S5GENDERF	7638	0.00	0.01	0.00	1.00

Categorical Variable Codes

Value	RAGENDER				
1.Man	11790				
2.Woman	15049				
Value	S1GENDER	S2GENDER	S3GENDER	S4GENDER	S5GENDER
.u:Unmar	4197	3753	4782	4845	5224
.v:SP NR	125	11	349	111	316
1.Man	5471	5036	5297	4934	4355
2.Woman	5393	4904	5295	4889	4320
Value		R2GENDERF	R3GENDERF	R4GENDERF	R5GENDERF
O.no gender problem		25064	21184	19588	17113
1.gender prob, used first			3	14	1
Value		S2GENDERF	S3GENDERF	S4GENDERF	S5GENDERF
.u:Unmar		4008	4782	4846	5227
.v:SP NR		127	349	241	501

O.no gender problem	9569	10590	9684	7637
1.gender prob, used first		2	8	1

How Constructed

Gender was derived by looking at reports from all waves of data. The latest report of non-missing gender was always used. In addition, RAGENDERF is a flag variable which indicates whether a contradiction between reports was found. RAGENDERF was set to 0 for no contradictions or if they were part of the new sample, and to 1 if contradictions between reports were found.

RAGENDER is set to 1 for man and 2 for woman. RAGENDER is set to plain missing (.) for respondents who did not respond to any waves.

SwGENDER indicates the current wave's spouses' gender. It is taken from the spouse's RAGENDER. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

RAGENDERF is available starting in Wave 2.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not include a flag for differing reports of respondent gender.

Wave 1:	
SEXO	respondent's sex
Wave 2:	
AA1	gender
Wave 3:	
A1_12	Respondent's sex
$AA\overline{1}_{12}$	Respondent's sex
Wave 4:	
A1_15	Respondent's sex
$\overline{AA1}$ 15	Respondent's sex
Wave 5:	
A1_18	R's sex
AA1 18	R's sex

Education

Wave	Variable	Label	Туре
1	RAEDYRS	raedyrs: R Years of Education	Cont
1	S1EDYRS	sledyrs: w1 S Years of Education	Cont
2	S2EDYRS	s2edyrs: w2 S Years of Education	Cont
3	S3EDYRS	s3edyrs: w3 S Years of Education	Cont
4	S4EDYRS	s4edyrs: w4 S Years of Education	Cont
5	S5EDYRS	s5edyrs: w5 S Years of Education	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAEDYRS	26474	6.10	5.09	0.00	22.00
S1EDYRS S2EDYRS	10639 9840	4.87 4.77	4.52 4.47	0.00	19.00 19.00
S3EDYRS	10540	5.94	4.79	0.00	22.00
S4EDYRS	9670	6.11	4.80	0.00	22.00
S5EDYRS	8526	6.29	4.84	0.00	22.00

How Constructed

RAEDYRS is the respondent's number of years of education. RAEDYRS is calculated using the report of the last year and grade that the respondent completed in school, collected in the Demographics section (Section A). Since the education question is only asked in the first interview, RAEDYRS takes the value of the respondent's first report throughout all waves of data. If the respondent reports a level completed, but not a grade completed, then the following values are assigned: 0 (no education), 3 (primary school), 7 (secondary of technical/commercial school), 10 (preparatory/high school), 11 (basic teaching school), 14 (college), 18 (graduate). If the respondent reports a level completed and a grade completed, then a base value is assigned for the level completed and the grade is added. The base values are assigned as follows: 0 (no education or primary school), 6 (secondary or technical/commerical school), 9 (preparatory/high school or basic teaching school), 12 (college), 16 (graduate school). When respondents don't know or refuse to answer the level of education, RAEDYRS is assigned special missing values .d or .r, respectively. Other missing values are assigned special missing value .m.

SwEDYRS indicates the current wave's spouse's years of education. It is taken from the spouse's RAEDYRS. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

In Waves 1 and 2 the number of years of education is calculated and released in the MHAS data set. Starting in Wave 3, MHAS releases the level and grade of education that the respondent completed separately, and the number of years of education is calculated using these variables for the Harmonized MHAS. Despite this difference, the questions are asked comparably across waves.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the maximum value that RAEDYRS can take is 17, indicating 17 or more years of education. In the MHAS, there is no maximum number of years set.

MHAS Variables Used

Wave 1: ESCOLA

respondent's years of education

Wave 2:

AA4A_3	new person's years of education
Wave 3:	
AA4A1_12	Level of education
AA4A2_12	Grade of education
Wave 4:	
AA4A1_15	Level of education
AA4A2_15	Grade of education
Wave 5:	
AA4A1_18	Level of education
AA4A2_18	Grade of education

Education: Categories by ISCED Codes

Wave	Variable	Label	Type
1	RAEDISCED	raedisced: R Education by ISCED Code	Categ
1	S1EDISCED	sledisced: w1 S Education by ISCED Code	Categ
2	S2EDISCED	s2edisced: w2 S Education by ISCED Code	Categ
3	S3EDISCED	s3edisced: w3 S Education by ISCED Code	Categ
4	S4EDISCED	s4edisced: w4 S Education by ISCED Code	Categ
5	S5EDISCED	s5edisced: w5 S Education by ISCED Code	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAEDISCED	26474	1.64	1.56	0.00	6.00
S1EDISCED	10639	1.30	1.32	0.00	6.00
S2EDISCED	9840	1.27	1.30	0.00	6.00
S3EDISCED S4EDISCED	10540 9670	1.55 1.59	1.44 1.45	0.00	6.00 6.00
S5EDISCED	8526	1.64	1.47	0.00	6.00

RAEDISCED

Categorical Variable Codes

.d:DK	1	141			
.m:Missing		114			
.r:Refuse		110			
0.Less than primary education	45	596			
1.Primary education	124	421			
2.Lower secondary education	52	212			
3.Upper secondary education	1	797			
5.First stage of tertiary education	1 26	638			
6.Second stage of tertiary education		810			
Value	S1EDIS	CED S2EDISCED	S3EDISCED	S4EDISCED	S5EDISCED
.d:DK		8 16	10	107	103
.m:Missing		65	41	43	42
.r:Refuse		1 1	1	1	3
.u:Unmar	42	205 3755	4782	4846	5224
.v:SP NR		333 27	349	112	317
0.Less than primary education	23	326 2200	1665	1449	1190
1.Primary education	5	744 5375	5421	4902	4281
2.Lower secondary education	1	418 1249	1872	1804	1649
3.Upper secondary education		288 243	423	403	367
3.Upper secondary education 5.First stage of tertiary education	'	288 243 786 705			367 922

How Constructed

RAEDISCED is constructed to provide a harmonized measure of education using the ISCED 1997 International Standard Classification of Education ISCED codes. For more information on ISCED codes see www.uis.unesco.org.

Respondents were asked the last year or grade that they completed in school. Since the education question is only asked in the first interview, RAEDISCED takes the value of the respondent's first report throughout all waves of data. RAEDISCED is coded as follows: 0.Less than primary education, 1.Primary education, 2.Lower secondary education, 3.Upper secondary education, 5.First stage of tertiary education, 6.Second stage of tertiary education. A value of 0 is assigned if no education was completed. A value of 1 is assigned if primary school was completed. A value of 2 is assigned if secondary, or technical or commercial school was completed. A value of 3 is assigned if preparatory or high school was completed. A value of 5 is assigned if basic teaching school or college was completed. A value of 6 is assigned if

graduate school was completed. A value of 4 is not assigned for RAEDISCED in the Harmonized MHAS. RAEDISCED is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RAEDISCED is assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

Swedisced indicates the current wave's spouse's ISCED code. It is taken from the respondent's spouse's RAEDISCED. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not include an International Standard Classification of Education categorization of education achievements.

MHAS Variables Used

Wave 1:

A3_1 level of education

Wave 2:

A44A_1 education level - level

Wave 3:

A44A1_12 Level of education

Wave 4:

A44A1_15 Level of education

Wave 5:

A44A1_18 Level of education

Education: Harmonized Education

Wave	Variable	Label	Type
1	RAEDUCL	raeducl: R Harmonized Education	Categ
1	S1EDUCL	sleducl: w1 S Harmonized Education	Categ
2	S2EDUCL	s2educl: w2 S Harmonized Education	Categ
3	S3EDUCL	s3educl: w3 S Harmonized Education	Categ
4	S4EDUCL	s4educl: w4 S Harmonized Education	Categ
5	S5EDUCL	s5educl: w5 S Harmonized Education	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAEDUCL	26474	1.29	0.68	1.00	3.00
S1EDUCL S2EDUCL	10918 9840	1.19	0.56 0.55	1.00	3.00
S3EDUCL	10540	1.26	0.64	1.00	3.00
S4EDUCL	9676	1.27	0.65	1.00	3.00
S5EDUCL	8526	1.29	0.67	1.00	3.00

Categorical Variable Codes

RAEDUCL				
141				
114				
110				
22229				
797				
3448				
S1EDUCL	S2EDUCL	S3EDUCL	S4EDUCL	S5EDUCL
22	16	10	107	103
88	73	41	48	42
1	1	1	2	3
4051	3754	4782	4845	5224
106	20	349	101	317
9729	8824	8958	8161	7120
299	243	423	403	367
890	773	1159	1112	1039
	141 114 110 22229 797 3448 S1EDUCL 22 88 1 4051 4051 9729 299	141 114 110 22229 797 3448 S1EDUCL S2EDUCL 22 16 88 73 1 1 4051 3754 106 20 9729 8824 299 243	141	141 114 110 22229 797 3448 S1EDUCL S2EDUCL S3EDUCL S4EDUCL 22 16 10 107 88 73 41 48 1 1 1 1 2 4051 3754 4782 4845 106 20 349 101 9729 8824 8958 8161 299 243 423 403

How Constructed

RAEDUCL is a three-tier harmonized scale developed to compare education levels across countries. This Harmonized education scale is a simplified version of ISCED 1997 International Standard Classification of Education ISCED codes, used to construct RAEDISCED. For more information on ISCED codes see www.uis.unesco.org.

Respondents were asked the last year or grade that they completed in school. Since the education question is only asked in the first interview, RAEDUCL takes the value of the respondent's first report throughout all waves of data. RAEDUCL is coded as follows: 1.Less than upper secondary education, 2.Upper secondary & vocational training, and 3.Tertiary education. Respondents are assigned a code of 1 if the respondent has an educational level equivalent to a code of 0, 1, or 2 for RAEDISCED, corresponding to no school, primary school, secondary school, or technical or commercial school. Respondents are assigned a code of 2 if the respondent has an educational level equivalent to a code of 3 or 4 for RAEDISCED, corresponding to preparatory or high school. Respondents are assigned a code of 3 if the respondent has an educational level equivalent to a code of 5 or 6 for RAEDISCED, corresponding to college or graduate school. RAEDUCL is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RAEDUCL is assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwEDUCL indicates the current wave's spouse's harmonized scale of education in each wave. It is taken from the respondent's spouse's RAEDUCL. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

A comparable variable is available in the Harmonized HRS.

Wave 1:	
A3_1	level of education
Wave 2:	
AA4A_1	education level - level
Wave 3:	
AA4A1_12	Level of education
Wave 4:	
AA4A1_15	Level of education
Wave 5:	
AA4A1 18	Level of education

Literacy and Numeracy

Wave	Variable	Label	Type
1	RALITERATE	raliterate: R Knows how to read or write	Categ
1	S1LITERATE	slliterate: w1 S Knows how to read or write	Categ
2	S2LITERATE	s2literate: w2 S Knows how to read or write	Categ
3	S3LITERATE	s3literate: w3 S Knows how to read or write	Categ
4	S4LITERATE	s4literate: w4 S Knows how to read or write	Categ
5	S5LITERATE	s5literate: w5 S Knows how to read or write	Categ
1	RANUMERATE	ranumerate: R Knows how to count	Categ
1	S1NUMERATE	slnumerate: w1 S Knows how to count	Categ
2	S2NUMERATE	s2numerate: w2 S Knows how to count	Categ
3	S3NUMERATE	s3numerate: w3 S Knows how to count	Categ
4	S4NUMERATE	s4numerate: w4 S Knows how to count	Categ
5	S5NUMERATE	s5numerate: w5 S Knows how to count	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RALITERATE	26449	0.86	0.35	0.00	1.00
S1LITERATE	10609	0.83	0.37	0.00	1.00
S2LITERATE	9817	0.82	0.38	0.00	1.00
S3LITERATE	10529	0.87	0.34	0.00	1.00
S4LITERATE	9661	0.88	0.33	0.00	1.00
S5LITERATE	8519	0.88	0.32	0.00	1.00
RANUMERATE	26445	0.95	0.22	0.00	1.00
S1NUMERATE	10604	0.94	0.24	0.00	1.00
S2NUMERATE	9814	0.92	0.27	0.00	1.00
S3NUMERATE	10528	0.95	0.21	0.00	1.00
S4NUMERATE	9658	0.96	0.21	0.00	1.00
S5NUMERATE	8515	0.96	0.20	0.00	1.00

Categorical Variable Codes

Value	RALITERATE				
.d:DK	148				
.m:Missing	209				
.r:Refuse	33				
0.No	3726				
1.Yes	22723				
Value	S1LITERATE	S2LITERATE	S3LITERATE	S4LITERATE	S5LITERATE
.d:DK	22	24	13	111	108
.m:Missing		65	41	43	41
.r:Refuse	17	16	9	6	6
.u:Unmar	4205	3755	4782	4846	5224
.v:SP NR	333	27	349	112	317
0.No	1757	1739	1363	1199	989
1.Yes	8852	8078	9166	8462	7530
Value	RANUMERATE				
.d:DK	149				
.m:Missing	209				
.r:Refuse	36				
0.No	1401				
1.Yes	25044				

Value	S1NUMERATE	S2NUMERATE	S3NUMERATE	S4NUMERATE	S5NUMERATE
.d:DK	26	27	14	113	111
.m:Missing		65	41	43	41
.r:Refuse	18	16	9	7	7
.u:Unmar	4205	3755	4782	4846	5224
.v:SP NR	333	27	349	112	317
0.No	658	753	483	426	350
1.Yes	9946	9061	10045	9232	8165

How Constructed

RALITERATE indicates if the respondent knows how to read and write a message. RANUMERATE indicates if the respondent knows how to count from 1 to 10. RALITERATE and RANUMERATE are derived by looking at the report from the Demographics section (Section A/AA) and are only asked in the first interview. When respondents don't know or refuse to answer the level of education, RALITERATE and RANUMERATE are assigned special missing values .d or .r, respectively. Missing responses are assigned special missing .m.

SwLITERATE and SwNUMERATE indicate whether the current wave's spouse knows how to read and write a message and count from 1 to 10. They are taken from the spouse's RALITERATE and RANUMERATE variables, respectively. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Comparable variables are not available as part of the RAND HRS or Harmonized HRS.

Wave 1:	
A3 1	level of education
A4	literacy
A5	count 1 to 10
Wave 2:	
AA4A_1	education level - level
AA4B	read a note
AA5	count to 10
Wave 3:	
AA4A1_12	Level of education
AA4B_12	Respondent can read/write message
AA5_12	Respondent can count 1 to 10
Wave 4:	
AA4A1_15	Level of education
AA4B_15	Respondent knows how to read/write message
AA5_15	Respondent can count from 1 to 10
Wave 5:	
AA4A1_18	Level of education
AA4B_18	Respondent knows how to read/write message
AA5_18	Respondent can count from 1 to 10

Indigenous Language

Wave	Variable	Label	Туре
1	RAINDLANG	raindlang: R Speaks Indigenous Language	Categ
1	Slindlang	slindlang: w1 S Speaks Indigenous Language	Categ
3	S3INDLANG	s3indlang: w3 S Speaks Indigenous Language	Categ
4	S4INDLANG	s4indlang: w4 S Speaks Indigenous Language	Categ
5	S5INDLANG	s5indlang: w5 S Speaks Indigenous Language	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAINDLANG	25804	0.08	0.27	0.00	1.00
S1INDLANG S3INDLANG	10616 10158	0.08	0.27	0.00	1.00
S4INDLANG S4INDLANG	9329	0.09	0.28	0.00	1.00
S5INDLANG	8224	0.09	0.28	0.00	1.00

Categorical Variable Codes

Value		RAINDLANG			
.d:DK		122			
.m:Missing		299			
.p:Proxy interview, not asked	1	570			
.r:Refuse	1	44			
0.No	i	23803			
1.Yes	į	2001			
Value		S1INDLANG	S3INDLANG	S4INDLANG	S5INDLANG
.d:DK	i	14	7	98	96
.m:Missing	1		141	138	116
.p:Proxy interview, not asked	i		260	236	220
.r:Refuse	i	23	26	20	18
.u:Unmar		4205	4782	4846	5224
.v:SP NR		328	349	112	317
0.No	i	9785	9280	8537	7522
1.Yes	i	831	878	792	702

How Constructed

RAINDLANG indicates whether the respondent speaks any indigenous language. The question is part of the Demographics section (Section A/AA) and is only asked in the first interview. When respondents don't know or refuse to answer, RAINDLANG is assigned special missing values .d or .r, respectively. Starting in Wave 3, the indigenous language question was only asked during direct interviews. A special missing value .p is assigned to indicate if the new interview was completed by proxy. Other missing responses are assigned special missing .m.

SwINDLANG indicates whether the current wave's spouse speaks any indigenous language, and it is taken from the spouse's RAINDLANG variable. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Respondents are asked if they speak any indigenous language as part of their baseline interview. In Wave 1, the question is asked during both direct and proxy interviews. This question was not asked in Wave 2. Starting in Wave 3, the indigenous language question was only asked during direct interviews.

Differences with the RAND HRS/Harmonized HRS

Comparable variables are not available as part of the RAND HRS or Harmonized HRS.

MHAS Variables Used

Current Marital Status: Current Partnership Status

Wave	Variable	Label						Type
1	R1MPART	r1mpart:	w1	R	Current	Partnership	Status	Categ
2	R2MPART	r2mpart:	w2	R	Current	Partnership	Status	Categ
3	R3MPART	r3mpart:	wЗ	R	Current	Partnership	Status	Categ
4	R4MPART	r4mpart:	w4	R	Current	Partnership	Status	Categ
5	R5MPART	r5mpart:	w5	R	Current	Partnership	Status	Categ
1	S1MPART	s1mpart:	w1	S	Current	Partnership	Status	Categ
2	S2MPART	s2mpart:	w2	S	Current	Partnership	Status	Categ
3	S3MPART	s3mpart:	wЗ	S	Current	Partnership	Status	Categ
4	S4MPART	s4mpart:	w4	S	Current	Partnership	Status	Categ
5	S5MPART	s5mpart:	w5	S	Current	Partnership	Status	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MPART	15184	0.03	0.17	0.00	1.00
R2MPART	13703	0.10	0.31	0.00	1.00
R3MPART	15723	0.07	0.26	0.00	1.00
R4MPART	14779	0.07	0.26	0.00	1.00
R5MPART	17114	0.09	0.28	0.00	1.00
S1MPART	10648	0.04	0.21	0.00	1.00
S2MPART	9740	0.14	0.35	0.00	1.00
S3MPART	10592	0.10	0.31	0.00	1.00
S4MPART	9652	0.11	0.31	0.00	1.00
S5MPART	7638	0.10	0.30	0.00	1.00

Categorical Variable Codes

Value .d:DK	R1MPART	R2MPART 1	R3MPART	R4MPART	R5MPART
.m:Missing	2				
0.No	14715	12278	14582	13673	15615
1.Yes	469	1425	1141	1106	1499
Value	S1MPART	S2MPART	S3MPART	S4MPART	S5MPART
.d:DK		1			
.u:Unmar	4205	4130	4782	4847	5227
.v:SP NR	333	149	349	280	501
0.No	10179	8369	9491	8587	6875
1.Yes	469	1371	1101	1065	763

How Constructed

Partnership is implied in all waves if the respondent reports being currently unmarried/unpartnered but is coupled with another respondent through HwCPL.

RwMPART indicates whether a respondent partnership is implied in the current wave. A code of 0 indicates it has not been implied that the respondent is partnered; a code of 1 indicates it has been implied that the respondent is partnered. When respondents don't know or refuse to answer, RwMPART is assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing value .m. RwMPART is set to plain missing (.) for respondents who did not respond to the current wave.

SwMPART indicates whether the current wave's spouse is considered partnered. It is taken from the spouse's RwMPART. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

```
Wave 1:
    A10
                      current marital status
    TIPENT 01
                      Type of interview 2001
Wave 2:
                     respondent's marital status
    A3
                      marital status
    AA10
    TIPENT 03
                     Type of interview 2003
Wave 3:
    Current marital status

AA10_12 Respondent's current marital status

TIPENT_12 Type of interview 2010
Wave 4:
    A3_15
                      Current marital status
    AA10 15
                     Respondent's current marital status
    TIPENT 15
                      Type of interview 2015
Wave 5:
    A3 18
                      Current marital status
    AA10 18
                      R's current marital status
                      Type of interview 2018
    TIPENT 18
```

Current Marital Status: With Partnership

Wave	Variable	Label	Туре
1	R1MSTAT	rlmstat: w1 R Marital Status	Categ
2	R2MSTAT	r2mstat: w2 R Marital Status	Categ
3	R3MSTAT	r3mstat: w3 R Marital Status	Categ
4	R4MSTAT	r4mstat: w4 R Marital Status	Categ
5	R5MSTAT	r5mstat: w5 R Marital Status	Categ
1	S1MSTAT	slmstat: w1 S Marital Status	Categ
2	S2MSTAT	s2mstat: w2 S Marital Status	Categ
3	S3MSTAT	s3mstat: w3 S Marital Status	Categ
4	S4MSTAT	s4mstat: w4 S Marital Status	Categ
5	S5MSTAT	s5mstat: w5 S Marital Status	Cated

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MSTAT	15184	2.55	2.50	1.00	8.00
R2MSTAT	13703	2.81	2.53	1.00	8.00
R3MSTAT	15723	2.80	2.58	1.00	8.00
R4MSTAT	14779	2.90	2.57	1.00	8.00
R5MSTAT	17114	2.85	2.58	1.00	8.00
S1MSTAT	10648	1.09	0.41	1.00	3.00
S2MSTAT	9564	1.30	0.71	1.00	3.00
S3MSTAT	10592	1.21	0.61	1.00	3.00
S4MSTAT	9652	1.22	0.63	1.00	3.00
S5MSTAT	7638	1.20	0.60	1.00	5.00

Categorical Variable Codes

Value	R1MSTAT	R2MSTAT	R3MSTAT	R4MSTAT	R5MSTAT
.d:DK		1			
.m:Missing	2				
1.Married	10512	8270	9800	8826	10388
3.Partnered	469	1425	1141	1106	1499
4.Separated	931	760	922	1042	968
5.Divorced	205	185	290	383	338
7.Widowed	2532	2544	2850	2814	3044
8.Never married	535	519	720	608	877
Value	S1MSTAT	S2MSTAT	S3MSTAT	S4MSTAT	S5MSTAT
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Married	10179	8147	9491	8587	6872
3.Partnered	469	1417	1101	1065	763
4.Separated					2
5.Divorced					1

How Constructed

This variable is created using current marital status reported for each wave in the Demographics section. Partnership status is implied for respondents reporting being currently unmarried/unpartnered but coupled with another respondent through HwCPL.

RwMSTAT records the respondent's marital status in the current wave with implied partnership status, RwMPART. A code of 1 indicates that the respondent is married. A code of 3 indicates that the respondent is partnered, either through self-reported or implied partnership. A code of 4 indicates that the respondent is separated. A code of 5 indicates that the respondent is divorced. A code of 7 indicates that the respondent is widowed. A code of 8 indicates that the respondent has never been married. When

respondents don't know or refuse to answer, RwRMSTAT is assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing value .m. RwMSTAT is set to plain missing (.) for respondents who did not respond to the current wave.

SwMSTAT records the current wave's spouse's marital status. It is taken from the spouse's RwMSTAT. In addition to special missing codes of RwMSTAT, SwMSTAT employs two other special missing codes. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, the variable RwMSTATH can take value 2, indicating that the respondent is married but the spouse is absent. The MHAS marital status variable does not ask respondents whether they are married but their spouse is absent. The variable RwMSTATH is never equal to 2 in the Harmonized MHAS.

```
Wave 1:
                    current marital status
    A10
    TIPENT 01
                    Type of interview 2001
Wave 2:
                    respondent's marital status
    А3
    AA10
                    marital status
    TIPENT 03
                    Type of interview 2003
Wave 3:
    A3 12
                    Current marital status
    AA10 12
                    Respondent's current marital status
    TIPENT 12
                    Type of interview 2012
Wave 4:
    A3 15
                    Current marital status
    AA10 15
                    Respondent's current marital status
    TIPENT 15
                    Type of interview 2015
Wave 5:
    A3 18
                    Current marital status
    AA10 18
                    R's current marital status
                    Type of interview 2018
    TIPENT 18
```

Current Marital Status: Without Partnership

Wave	Variable	Label	Т	ype
1	R1MSTATH	r1mstath: v	w1 R Marital Status w/o Partnership Filled C	ateg
2	R2MSTATH	r2mstath: v	w2 R Marital Status w/o Partnership Filled C	ateg
3	R3MSTATH	r3mstath: v	w3 R Marital Status w/o Partnership Filled C	ateg
4	R4MSTATH	r4mstath: v	w4 R Marital Status w/o Partnership Filled C	ateg
5	R5MSTATH	r5mstath: v	w5 R Marital Status w/o Partnership Filled C	ateg
1	S1MSTATH	s1mstath: v	w1 S Marital Status w/o Partnership Filled C	ateg
2	S2MSTATH	s2mstath: v	w2 S Marital Status w/o Partnership Filled C	ateg
3	S3MSTATH	s3mstath: v	w3 S Marital Status w/o Partnership Filled C	ateg
4	S4MSTATH	s4mstath: v	w4 S Marital Status w/o Partnership Filled C	ateg
5	S5MSTATH	s5mstath: v	w5 S Marital Status w/o Partnership Filled C	ateq

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MSTATH	14730	2.54	2.54	1.00	8.00
R2MSTATH	13703	2.73	2.56	1.00	8.00
R3MSTATH	15723	2.81	2.58	1.00	8.00
R4MSTATH	14779	2.91	2.58	1.00	8.00
R5MSTATH	17114	2.86	2.59	1.00	8.00
S1MSTATH	10194	1.01	0.20	1.00	8.00
S2MSTATH	9564	1.19	0.59	1.00	8.00
S3MSTATH	10592	1.21	0.65	1.00	8.00
S4MSTATH	9652	1.24	0.70	1.00	8.00
S5MSTATH	7638	1.22	0.71	1.00	8.00

Categorical Variable Codes

Value	R1MSTATH	R2MSTATH	R3MSTATH	R4MSTATH	R5MSTATH
.d:DK		1			
.m:Missing	456				
1.Married	10512	8808	9800	8826	10388
3.Partnered		881	1110	1036	1450
4.Separated	935	762	940	1088	982
5.Divorced	209	185	291	385	343
7.Widowed	2535	2545	2860	2829	3047
8.Never married	539	522	722	615	904
Value	S1MSTATH	S2MSTATH	S3MSTATH	S4MSTATH	S5MSTATH
.m:Missing	454				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Married	10179	8685	9491	8587	6872
3.Partnered		873	1070	995	723
4.Separated	4	2	18	46	15
5.Divorced	4		1	2	4
7.Widowed	3	1	10	15	3
8.Never married	4	3	2	7	21

How Constructed

This variable is created using current marital status reported for each wave in the Demographic section. RwMSTATH ignores the implied partnership status, using the RwMPART variable, and indicates the reported marital status in the current wave. A code of 1 indicates that the respondent is married. A code of 3 indicates that the respondent is partnered, only through self-report. A code of 4 indicates that the respondent is separated. A code of 5 indicates that the respondent is divorced. A code of 7 indicates that the respondent is widowed. A code of 8 indicates that the respondent has never been married. When

respondents don't know or refuse to answer, RwMSTATH is assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing value .m. 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. It is taken from the spouse's RwMSTATH. In addition to specific missing codes used for RwMSTATH, SwMSTATH employs two other special missing codes. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, the variable RwMSTATH can take value 2, indicating that the respondent is married but the spouse is absent. The MHAS marital status variable does not ask respondents whether they are married but their spouse is absent. The variable RwMSTATH is never equal to 2 in the Harmonized MHAS.

wave 1:	
A10	current marital status
Wave 2:	
A3	respondent's marital status
AA10	marital status
Wave 3:	
A3_12	Current marital status
AA10_12	Respondent's current marital status
Wave 4:	
A3_15	Current marital status
AA10_15	Respondent's current marital status
Wave 5:	
A3_18	Current marital status
AA10 18	R's current marital status

Number of Marriages

Wave	Variable	Label	Туре
1	R1MRCT	rlmrct: wl R Number of Marriages	Cont
2	R2MRCT	r2mrct: w2 R Number of Marriages	Cont
3	R3MRCT	r3mrct: w3 R Number of Marriages	Cont
4	R4MRCT	r4mrct: w4 R Number of Marriages	Cont
5	R5MRCT	r5mrct: w5 R Number of Marriages	Cont
1	S1MRCT	s1mrct: w1 S Number of Marriages	Cont
2	S2MRCT	s2mrct: w2 S Number of Marriages	Cont
3	S3MRCT	s3mrct: w3 S Number of Marriages	Cont
4	S4MRCT	s4mrct: w4 S Number of Marriages	Cont
5	S5MRCT	s5mrct: w5 S Number of Marriages	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MRCT	15121	1.13	0.55	0.00	11.00
R2MRCT	13572	1.15	0.56	0.00	11.00
R3MRCT	15347	1.15	0.61	0.00	29.00
R4MRCT	13874	1.16	0.59	0.00	11.00
R5MRCT	16167	1.16	0.66	0.00	24.00
S1MRCT	10596	1.17	0.50	0.00	11.00
S2MRCT	9623	1.18	0.52	0.00	11.00
S3MRCT	10316	1.18	0.50	0.00	11.00
S4MRCT	9056	1.21	0.53	0.00	11.00
S5MRCT	7170	1.21	0.59	0.00	24.00

How Constructed

The number of marriages is asked at the first interview the respondent completed in the MHAS and then it is updated in the following interviews. If the respondent reports not being single in the first interview then they are asked their marital status before their current marriage/union and then the total number of times they were in an union or married (not including the current union/last union). These questions were used to derive RwMRCT.

After the first interview, RwMRCT is updated if the respondent reports being currently married/union, if their last marriage/union ended, and if their current marriage started since the last interview.

RwMRCT is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwMRCT is assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwMRCT indicates the current wave's spouse's number of marriages. It is taken from the respondent's spouse's RwMRCT. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Marriage history, including number of marriages, is asked only during the first interview and the variable generally proceeds from current marital status and the number of marriages. However, in the follow-up interview the respondent is only asked about the changes in marital status, including current marital status, if the last marriage/union ended, and if the current marriage started since the last interview. These questions were used to update the number of marriages variable.

Differences with the RAND HRS/Harmonized HRS

No differences known.

```
Wave 1:
   A10
                   current marital status
   A13
                   married before
   A14
                   times married
Wave 2:
   ΑЗ
                   respondent's marital status
   Α4
                   still cohabitating with same person since 2001
   A.5
                   has last marriage/union ended since 2001
   Α6
                   current marriage/union started in last two years
   AA10
                   marital status
                   previous union
   AA13A
   AA14
                   besides most recent, how many unions
Wave 3:
   A3 12
                   Current marital status
   A4 12
                   Married/in union with same person from last interview
   A5 12
                   Marriage/union ended since last interview
   A6 12
                   Marriage/union started since last interview
   AA10 12
                   Respondent's current marital status
   AA13A 12
                   Respondent ever married/in union before current/last ma
   AA13B 12
                   Respondent's marital status before current marriage/uni
   AA14 12
                   Not including current/last marriage/union how many time
Wave 4:
   A3 15
                   Current marital status
                   Married or in union with same person from last intervie
   A4_15
   A5_15
                   Marriage or union ended since last interview
   A6_15
                   Marriage or union started since last interview
   AA10 15
                   Respondent's current marital status
   AA13A 15
                   Respondent ever married or in union before current/last
   AA13B 15
                   Respondent's marital status before current marriage or
   AA14 15
                   Not including current/last marriage or union how many t
Wave 5:
   A3 18
                   Current marital status
   A4 18
                   Married or in union with same person from last intervie
   A5 18
                  Marriage or union ended since last interview
   A6 18
                   Marriage or union started since last interview
   AA10 18
                   R's current marital status
   AA13A 18
                   R ever married or in union before current/last marriage
                   R's marital status before current marriage or union
   AA13B 18
   AA14 18
                   Not including current/last marriage or union how many t
```

Urban or Rural

Wave	Variable	Label	Type
1	H1RURAL H3RURAL	h1rural: w1 lives in rural or urban h3rural: w3 lives in rural or urban	Categ Categ
4	H4RURAL	h4rural: w4 lives in rural or urban	Categ
5	H5RURAL	h5rural: w5 lives in rural or urban	Categ
1	H1RURAL M	hlrural m: wl Size of Locality of Residence	Categ
3	H3RURAL M	h3rural m: w3 Size of Locality of Residence	Categ
4	H4RURAL M	h4rural m: w4 Size of Locality of Residence	Categ
5	H5RURAL M	h5rural m: w5 Size of Locality of Residence	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1RURAL	15186	0.26	0.44	0.00	1.00
H3RURAL	15723	0.31	0.46	0.00	1.00
H4RURAL	14779	0.30	0.46	0.00	1.00
H5RURAL	17114	0.31	0.46	0.00	1.00
H1RURAL M	15186	1.84	1.16	1.00	4.00
H3RURAL M	15723	1.93	1.22	1.00	4.00
H4RURAL M	14779	1.93	1.21	1.00	4.00
H5RURAL M	17114	1.96	1.22	1.00	4.00

Categorical Variable Codes

Value		H1RURAL	H3RURAL	H4RURAL	H5RURAL
0.urban		11225	10864	10392	11742
1.rural	1	3961	4859	4387	5372
Value		H1RURAL M	H3RURAL M	H4RURAL M	H5RURAL M
1.Urban		89 5 7	9123	8450	95 2 4
2.Semi-urban		2268	1741	1942	2218
3.Semi-rural		1381	1738	1425	1885
4 Rural	1	2580	3121	2962	3487

How Constructed

HwRURAL indicates whether the respondent's household resides in an urban or rural location. HwRURAL is set to 0 if the respondent's household resides in an urban location, and is set to 1 if the respondent's household resides in a rural location. HwRURAL_M indicates the locality size where the respondent's household resides. HwRURAL_M is set to 1 to indicate if the household resides in an 'Urban' location, 2 if in a 'Semi-urban' location, 3 if in a 'Semi-rural' location, and 4 if in a 'Rural' location. Missing responses are assigned special missing .m. HwRURAL and HwRURAL_M are set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in MHAS

This variable is not available in Wave 2.

Differences with the RAND HRS/Harmonized HRS

No differences known.

MHAS Variables Used

Wave 1:

TAMLOC_01	Locality	size	2001
Wave 3:			
TAM_LOC_12	Locality	Size	2012
Wave 4:			
TAM_LOC_15	Locality	size	2015
Wave 5:			
TAM_LOC_18	Locality	size	2018

Section B: Health 71

Section B: Health

Self-Report of Health

Wave	Variable	Label							Туре
1	R1SHLT	r1shlt:	w1	R	Self-report	of	health		Categ
2	R2SHLT	r2shlt:	w2	R	Self-report	of	health		Categ
3	R3SHLT	r3shlt:	wЗ	R	Self-report	of	health		Categ
4	R4SHLT	r4shlt:	w4	R	Self-report	of	health		Categ
5	R5SHLT	r5shlt:	w5	R	Self-report	of	health		Categ
1	S1SHLT	s1shlt:	w1	S	Self-report	of	health		Categ
2	S2SHLT	s2shlt:	w2	S	Self-report	of	health		Categ
3	S3SHLT	s3shlt:	wЗ	S	Self-report	of	health		Categ
4	S4SHLT	s4shlt:	w4	S	Self-report	of	health		Categ
5	S5SHLT	s5shlt:	w5	S	Self-report	of	health		Categ
1	R1HLTC	r1hltc:	w1	R	Self-report	of	health	change	Categ
2	R2HLTC	r2hltc:	w2	R	Self-report	of	health	change	Categ
3	R3HLTC	r3hltc:	wЗ	R	Self-report	of	health	change	Categ
4	R4HLTC	r4hltc:	w4	R	Self-report	of	health	change	Categ
5	R5HLTC	r5hltc:	w5	R	Self-report	of	health	change	Categ
1	S1HLTC	s1hltc:	w1	S	Self-report	of	health	change	Categ
2	S2HLTC	s2hltc:	w2	S	Self-report	of	health	change	Categ
3	S3HLTC	s3hltc:	wЗ	S	Self-report	of	health	change	Categ
4	S4HLTC	s4hltc:	w4	S	Self-report	of	health	change	Categ
5	S5HLTC	s5hltc:	w5	S	Self-report	of	health	change	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
-1	1.41.45	0.60	0.05	1 00	5 .00
R1SHLT	14147	3.69	0.85	1.00	5.00
R2SHLT	12521	3.78	0.82	1.00	5.00
R3SHLT	14445	3.66	0.85	1.00	5.00
R4SHLT	13847	3.73	0.83	1.00	5.00
R5SHLT	15783	3.61	0.83	1.00	5.00
S1SHLT	9983	3.66	0.85	1.00	5.00
S2SHLT	8739	3.76	0.81	1.00	5.00
S3SHLT	9864	3.64	0.84	1.00	5.00
S4SHLT	9181	3.71	0.83	1.00	5.00
S5SHLT	7073	3.66	0.81	1.00	5.00
R1HLTC	14107	3.23	0.77	1.00	5.00
R2HLTC	12521	3.28	0.79	1.00	5.00
R3HLTC	14447	3.15	0.80	1.00	5.00
R4HLTC	13847	3.18	0.80	1.00	5.00
R5HLTC	15772	3.14	0.80	1.00	5.00
S1HLTC	9953	3.22	0.76	1.00	5.00
S2HLTC	8738	3.27	0.78	1.00	5.00
S3HLTC	9866	3.13	0.78	1.00	5.00
S4HLTC		3.13			
	9181		0.78	1.00	5.00
S5HLTC	7068	3.19	0.78	1.00	5.00

Categorical Variable Codes

Value		RISHLT	R2SHLT	R3SHLT	R4SHLT	R5SHLT
.d:DK		1	4	1	3	1
.m:Missing	1	4				
.p:Proxy interview, not asked	1	1032	1178	1275	929	1328

Section B: Health					73
.r:Refuse	2	1	2		2
1.Excellent	271	189	363	342	445
2.Very good	627	396	646	465	796
3.Good	4495	3559	4303	3710	4670
4.Fair	6585	6204	7316	7347	8381
5.Poor	2169	2173	1817	1983	1491
Value	S1SHLT	S2SHLT	S3SHLT	S4SHLT	S5SHLT
.d:DK	1	4	1	1	1
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	1		1		1
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Excellent	195	122	251	232	179
2.Very good	464	281	467	325	312
3.Good	3316	2583	2987	2513	1932
4.Fair	4600	4346	5017	4905	3967
5.Poor	1408	1407	1142	1206	683
Value	R1HLTC	R2HLTC	R3HLTC	R4HLTC	R5HLTC
.d:DK	12	4	1	3	7
.m:Missing	4				
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	31	1			7
1.Much better	314	282	544	442	628
2.Somewhat better	1334	1110	1513	1526	1626
3.More or less the same	7955	6608	8132	7479	9026
4.Somewhat worse	3797	3837	3723	3853	3882
5.Much worse	707	684	535	547	610
Value	S1HLTC	S2HLTC	S3HLTC	S4HLTC	S5HLTC
.d:DK	9	4		1	4
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	23	1			3
.u:Unmar	4205	4009	4782	4847	5227

How Constructed

.v:SP NR

1.Much better

5. Much worse

2.Somewhat better

4.Somewhat worse

3.More or less the same

RwSHLT is the respondent's self-reported general health status using the following scale: 1 for Excellent, 2 for Very Good, 3 for Good, 4 for Fair, and 5 for Poor. When respondents don't know or refuse to answer, RwSHLT is assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing .m. Also, RwSHLT is set to the special missing value .p if the current interview was completed by proxy. RwSHLT is assigned plain missing (.) if the respondent did not participate in the current wave.

The SwSHLT variables are taken from the Wave 'w' spouse's self-reported RwSHLT variables. In addition to the special missing codes used in RwSHLT, SwSHLT employs the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWHLTC is the respondent's self-reported change in health compared to two years ago using the following scale: 1 for Much better, 2 for Somewhat better, 3 for More or less the same, 4 for Somewhat worse, and 5 for Much worse. When respondents don't know or refuse to answer, RwHLTC is assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing .m. Also, RwHLTC is set to the special missing value .p if the current interview was completed by proxy. RwHLTC is assigned plain missing (.) if the respondent did not participate in the current wave.

The SwHLTC variables are taken from the Wave 'w' spouse's self-reported RwHLTC variables. In addition to the special missing codes used in RwHLTC, SwHLTC employs the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

While RwHLTC in the Harmonized MHAS and RAND HRS use the same answer scale through Wave 6 of the HRS, starting in HRS Wave 7, the answer scale is limited to responses of better, about the same, and worse.

MHAS Variables Used

Wave 1:	
C1	quality of health
C2	changes in health
Wave 2:	
C1	health status
C2	health compared to two years ago
Wave 3:	
C1 12	Global self-reported quality of health
C2A 12	Compared to 2 years ago: Report your current health
Wave 4:	
C1 15	Respondent's self-reported health
C2A 15	Compared to 2 years ago: Respondent's current health
Wave 5:	
C1 18	R's self-reported health
C2A 18	Compared to 2 years ago: R's current health
_	

Activities of Daily Living (ADLs): Raw Recodes

Wave	Variable	Label	Туре
1	R1DRESS	rldress: w1 R Difficulty-Dressing	Categ
2	R2DRESS	r2dress: w2 R Difficulty-Dressing	Categ
	R3DRESS	r3dress: w3 R Difficulty-Dressing	Categ
	R4DRESS	r4dress: w4 R Difficulty-Dressing	Categ
5	R5DRESS	r5dress: w5 R Difficulty-Dressing	Categ
5	RODREDO	Todiess. Wo it billiedity blessing	caccg
1	S1DRESS	sldress: w1 S Difficulty-Dressing	Categ
2	S2DRESS	s2dress: w2 S Difficulty-Dressing	Categ
3	S3DRESS	s3dress: w3 S Difficulty-Dressing	Categ
4	S4DRESS	s4dress: w4 S Difficulty-Dressing	Categ
5	S5DRESS	s5dress: w5 S Difficulty-Dressing	Categ
			5
1	R1WALKR	rlwalkr: w1 R Difficulty-Walking across room	Categ
2	R2WALKR	r2walkr: w2 R Difficulty-Walking across room	Categ
3	R3WALKR	r3walkr: w3 R Difficulty-Walking across room	Categ
4	R4WALKR	r4walkr: w4 R Difficulty-Walking across room	Categ
5	R5WALKR	r5walkr: w5 R Difficulty-Walking across room	Categ
	S1WALKR	slwalkr: w1 S Difficulty-Walking across room	Categ
2	S2WALKR	s2walkr: w2 S Difficulty-Walking across room	Categ
3	S3WALKR	s3walkr: w3 S Difficulty-Walking across room	Categ
4	S4WALKR	s4walkr: w4 S Difficulty-Walking across room	Categ
5	S5WALKR	s5walkr: w5 S Difficulty-Walking across room	Categ
-	-1		~ .
	R1BATH	rlbath: w1 R Difficulty-Bathing or showering	Categ
	R2BATH	r2bath: w2 R Difficulty-Bathing or showering	Categ
	R3BATH	r3bath: w3 R Difficulty-Bathing or showering	Categ
	R4BATH	r4bath: w4 R Difficulty-Bathing or showering	Categ
5	R5BATH	r5bath: w5 R Difficulty-Bathing or showering	Categ
1	S1BATH	slbath: w1 S Difficulty-Bathing or showering	Categ
	S2BATH	s2bath: w2 S Difficulty-Bathing or showering	Categ
	S3BATH	s3bath: w3 S Difficulty-Bathing or showering	Categ
4	S4BATH	s4bath: w4 S Difficulty-Bathing or showering	Categ
5	S5BATH	s5bath: w5 S Difficulty-Bathing or showering	Categ
1	R1EAT	rleat: w1 R Difficulty-Eating	Categ
2	R2EAT	r2eat: w2 R Difficulty-Eating	Categ
3	R3EAT	r3eat: w3 R Difficulty-Eating	Categ
4	R4EAT	r4eat: w4 R Difficulty-Eating	Categ
5	R5EAT	r5eat: w5 R Difficulty-Eating	Categ
	S1EAT	sleat: w1 S Difficulty-Eating	Categ
	S2EAT	s2eat: w2 S Difficulty-Eating	Categ
3	S3EAT	s3eat: w3 S Difficulty-Eating	Categ
	S4EAT	s4eat: w4 S Difficulty-Eating	Categ
5	S5EAT	s5eat: w5 S Difficulty-Eating	Categ
1	R1BED	rlbed: w1 R Difficulty-Getting in/out of bed	Catas
			Categ
	R2BED R3BED	r2bed: w2 R Difficulty-Getting in/out of bed r3bed: w3 R Difficulty-Getting in/out of bed	Categ
	R3BED R4BED	r3bed: w3 R Difficulty-Getting in/out of bed r4bed: w4 R Difficulty-Getting in/out of bed	Categ
			Categ
5	R5BED	r5bed: w5 R Difficulty-Getting in/out of bed	Categ
1	S1BED	slbed: w1 S Difficulty-Getting in/out of bed	Categ
	S2BED	s2bed: w2 S Difficulty-Getting in/out of bed	Categ
	S3BED	s3bed: w3 S Difficulty-Getting in/out of bed	Categ
4	S4BED	s4bed: w4 S Difficulty-Getting in/out of bed	Categ
5	S5BED	s5bed: w5 S Difficulty-Getting in/out of bed	Categ
J			22229

1	R1TOILT	r1toilt:	w1	R	Difficulty-Using	the	toilet	C	Categ
2	R2TOILT	r2toilt:	w2	R	Difficulty-Using	the	toilet	C	Categ
3	R3TOILT	r3toilt:	wЗ	R	Difficulty-Using	the	toilet	C	Categ
4	R4TOILT	r4toilt:	w4	R	Difficulty-Using	the	toilet	C	Categ
5	R5TOILT	r5toilt:	w5	R	Difficulty-Using	the	toilet	C	Categ
1	S1TOILT	s1toilt:	w1	S	Difficulty-Using	the	toilet	C	Categ
2	S2TOILT	s2toilt:	w2	S	Difficulty-Using	the	toilet	C	Categ
3	S3TOILT	s3toilt:	wЗ	S	Difficulty-Using	the	toilet	C	Categ
4	S4TOILT	s4toilt:	w4	S	Difficulty-Using	the	toilet	C	Categ
5	S5TOILT	s5toilt:	w5	S	Difficulty-Using	the	toilet	C	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRESS	14048	0.07	0.27	0.00	9.00
R2DRESS	12501	0.06	0.27	0.00	9.00
R3DRESS	14443	0.10	0.38	0.00	9.00
R4DRESS	13802	0.12	0.41	0.00	9.00
R5DRESS	15759	0.12	0.42	0.00	9.00
KJDKESS	13739	0.11	0.42	0.00	9.00
S1DRESS	9924	0.06	0.24	0.00	2.00
S2DRESS	8737	0.05	0.24	0.00	9.00
S3DRESS	9865	0.09	0.36	0.00	9.00
S4DRESS	9165	0.10	0.34	0.00	9.00
S5DRESS	7064	0.12	0.40	0.00	9.00
R1WALKR	8199	0.11	0.41	0.00	9.00
R2WALKR	7233	0.11	0.36	0.00	9.00
R3WALKR	9921	0.14	0.50	0.00	9.00
R4WALKR	9800	0.17	0.64	0.00	9.00
R5WALKR	10127	0.16	0.59	0.00	9.00
S1WALKR	5394	0.09	0.41	0.00	9.00
S2WALKR	4765	0.09	0.31	0.00	9.00
S3WALKR	6258	0.10	0.41	0.00	9.00
S4WALKR	6052	0.12	0.52	0.00	9.00
S5WALKR	4688	0.14	0.48	0.00	9.00
55WIERT	1000	0.11	0.10	0.00	3.00
R1BATH	8198	0.08	0.33	0.00	9.00
R2BATH	7233	0.08	0.36	0.00	9.00
R3BATH	9923	0.10	0.52	0.00	9.00
R4BATH	9800	0.12	0.53	0.00	9.00
R5BATH	10128	0.11	0.45	0.00	9.00
S1BATH	5393	0.06	0.32	0.00	9.00
S2BATH	4765	0.06	0.24	0.00	2.00
S3BATH	6259	0.07	0.49	0.00	9.00
S4BATH	6052	0.10	0.54	0.00	9.00
S5BATH	4688	0.09	0.34	0.00	9.00
R1EAT	8199	0.05	0.40	0.00	9.00
R2EAT	7233	0.04	0.25	0.00	9.00
R3EAT	9923	0.08	0.49	0.00	9.00
R4EAT	9800	0.07	0.41	0.00	9.00
R5EAT	10128	0.06	0.43	0.00	9.00
MARAI	10120	0.00	0.43	0.00	9.00
S1EAT	5395	0.04	0.37	0.00	9.00
S2EAT	4765	0.03	0.22	0.00	9.00
S3EAT	6259	0.07	0.49	0.00	9.00
S4EAT	6052	0.06	0.41	0.00	9.00
S5EAT	4687	0.05	0.36	0.00	9.00

R1BED	8199	0.10	0.34	0.00	9.00
R2BED	7233	0.10	0.31	0.00	9.00
R3BED	9921	0.13	0.39	0.00	9.00
R4BED	9800	0.16	0.48	0.00	9.00
R5BED	10126	0.13	0.43	0.00	9.00
S1BED	5394	0.09	0.34	0.00	9.00
S2BED	4765	0.08	0.30	0.00	9.00
S3BED	6258	0.12	0.34	0.00	9.00
S4BED	6052	0.14	0.42	0.00	9.00
S5BED	4687	0.12	0.39	0.00	9.00
R1TOILT	8184	0.08	0.32	0.00	9.00
R2TOILT	7233	0.07	0.30	0.00	9.00
R3TOILT	9920	0.11	0.47	0.00	9.00
R4TOILT	9800	0.13	0.59	0.00	9.00
R5TOILT	10124	0.14	0.59	0.00	9.00
S1TOILT	5387	0.06	0.32	0.00	9.00
S2TOILT	4765	0.06	0.23	0.00	2.00
S3TOILT	6258	0.09	0.39	0.00	9.00
S4TOILT	6052	0.10	0.49	0.00	9.00
S5TOILT	4686	0.11	0.50	0.00	9.00

Categorical Variable Codes

Value	R1DRESS	R2DRESS	R3DRESS	R4DRESS	R5DRESS
.d:DK	31	REDREGO	1	7	2
.m:Missing	38	25	<u> </u>	40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	37	22.0	4	1	8
0.No	13147	11745	13103	12296	14151
1.Yes	883	741	1307	1456	1530
2.Can't Do	16	13	22	39	63
9.Don't Do	2	2	11	11	15
,					
Value	S1DRESS	S2DRESS	S3DRESS	S4DRESS	S5DRESS
.d:DK	26		1	7	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	25				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9355	8285	9049	8290	6312
1.Yes	562	446	800	852	716
2.Can't Do	7	5	10	20	31
9.Don't Do		1	6	3	5
Value		R2WALKR	R3WALKR	R4WALKR	R5WALKR
.d:DK	38		31	6	4
.m:Missing	40	47		40	18
.r:Refuse	138	5	4	1	85
.s:Skip	6771	6419	5767	4932	6880
0.No	7411	6461	8733	8521	8742
1.Yes	750	759	1142	1167	1311
2.Can't Do	31	10	28	77	46
9.Don't Do	7	3	18	35	28
Value	S1WALKR	S2WALKR	S3WALKR	S4WALKR	S5WALKR
.d:DK	22	32 WALIKK	25	5 - SAWALIKK	SJWADKIK
.m:Missing	14	23	23	10	6
r:Refuse	89	3	2	10	56
.s:Skip	5129	4773	4307	3585	2888
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	4965	4363	5663	5446	4110
1.Yes	4965	4363 393	575	561	559
1.162	409	393	5/5	201	559

Section D. Health					70
2.Can't Do	14	8	14	32	12
9.Don't Do	6	1	6	13	7
Value	ווחגם בם	D 2D 7 mii	D 2 D 3 MII	D 4 D 7 MII	DEDAMII
.d:DK	R1BATH 38	R2BATH	R3BATH 31	R4BATH 6	R5BATH 3
.m:Missing	40	47		40	18
.r:Refuse	139	5	2	1	85
.s:Skip	6771	6419	5767	4932	6880
0.No	7629	6702	9161	8834	9192
1.Yes	542	517	722	907	896
2.Can't Do 9.Don't Do	23	9 5	16 24	36 23	26 14
9. DOIL C DO	4	3	24	23	14
Value	S1BATH	S2BATH	S3BATH	S4BATH	S5BATH
.d:DK	22		25	5	
.m:Missing	14	23	1	10	6
<pre>.r:Refuse .s:Skip </pre>	90 5129	3 4773	1 4307	3585	56 2888
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	5099	4486	5923	5599	4310
1.Yes	281	272	313	425	368
2.Can't Do	10	7	8	11	8
9.Don't Do	3		15	17	2
Value	R1EAT	R2EAT	R3EAT	R4EAT	R5EAT
.d:DK	39	1(2 1111	31	6	2
.m:Missing	40	47		40	18
.r:Refuse	137	5	2	1	86
.s:Skip	6771	6419	5767	4932	6880
0.No	7884	6959	9384	9248	9629
1.Yes	289	266 6	480	510 29	459 23
2.Can't Do 9.Don't Do	14 12	2	36 23	13	23 17
7. Boli C Bo	12	۷	23	13	Ι,
Value	S1EAT	S2EAT	S3EAT	S4EAT	S5EAT
.d:DK	22	0.0	25	5	
.m:Missing .r:Refuse	14 88	23 3	1	10	6 57
.s:Skip	5129	4773	4307	3585	2888
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	5242	4620	5993	5775	4509
1.Yes	140	140	224	251	164
2.Can't Do	6	4	27	17	9
9.Don't Do	7	1	15	9	5
Value	R1BED	R2BED	R3BED	R4BED	R5BED
.d:DK	38		32	6	3
.m:Missing	40	47		40	18
.r:Refuse	138	5	3	1	87
.s:Skip	6771	6419	5767	4932	6880
0.No 1.Yes	7403 775	6557 669	8662 1234	8363 1383	8886 1201
2.Can't Do	19	6	20	42	30
9.Don't Do	2	1	5	12	9
Value	S1BED	S2BED	S3BED	S4BED	S5BED
.d:DK	22	0.0	26	5	
.m:Missing	14 89	23 3	1	10	6
<pre>.r:Refuse .s:Skip </pre>	5129	4773	1 4307	3585	57 2888
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	4916	4385	5552	5269	4170
1.Yes	471	375	691	757	507
2.Can't Do	5	4	14	22	7
9.Don't Do	2	1	1	4	3
Value	R1TOILT	R2TOILT	R3TOILT	R4TOILT	R5TOILT
.d:DK	44		33	6	6
.m:Missing	40	47		40	18
.r:Refuse	147	5	3	1	86

Section B: Health					79
.s:Skip	6771	6419	5767	4932	6880
0.No	7614	6737	8976	8851	9042
1.Yes	547	486	895	866	1004
2.Can't Do	20	8	33	52	47
9.Don't Do	3	2	16	31	31
Value	SITOILT	S2TOILT	S3TOILT	S4TOILT	S5TOILT
.d:DK	25		26	5	1
.m:Missing	14	23		10	6
.r:Refuse	93	3	1		57
.s:Skip	5129	4773	4307	3585	2888
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	5071	4503	5784	5565	4238
1.Yes	306	257	455	457	423
2.Can't Do	7	5	13	18	16

How Constructed

9. Don't Do

These variables recode the raw variables for difficulty with activities of daily living (ADLs) as they appear in the MHAS data except for missing values and accounting for skip patterns. The ADLs include dressing (RwDRESS), walking across a room (RwWALKR), bathing (RwBATH), eating (RwEAT), getting in and out of bed (RwBED), and using the toilet (RwTOILT). In the following, references to Rw[adl] apply to all these variables except RwDRESS.

For all waves, the ADL questions are skipped if no difficulty was reported with any of the tasks asked about earlier (questions H1 to H13), including the difficulty with dressing question. In these cases, Rw[adl] is set to a special missing .s. All the Rw[adl] and RwDRESS variables are set to 0 if the response is "no" difficulty; 1 if the response is "yes"; and 2 or 9 if the response is "can't do" or "don't do", respectively. These variables are coded .d for "don't know" and .r for refusals. If the difficulty question is skipped because of previous answers to the tasks asked about earlier (questions H1 to H13), then Rw[adl] is set to .s. If the answer is otherwise missing, then these variables are coded .m for "missing". In all waves, the question regarding difficulty dressing is part of the introductory questions asked at the beginning of the module (Section H). This question is skipped if interviews are completed by proxy and the variable RwDRESS is set to .p. These variables are assigned plain missing (.) if the respondent did not participate in the current wave.

SwWALKR, SwDRESS, SwBATH, SwEAT, SwBED, and SwTOILT indicate whether the respondent's spouse reported any difficulty with each one of these daily living activities and are taken directly from the spouse's Rw[adl] variables, respectively. In addition to the special missing codes used in the Rw[adl] variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS introductory questions, respondents are asked whether they have difficulty jogging one mile. However, in the MHAS they ask if the respondent has any difficulty running or jogging one kilometer.

MHAS Variables Used

Wave 1:	
Н1	long walk
H10	pulling
H11	picking up
H12	picking up a coin
Н13	dressing
H15_1	difficult walking
H16_1	difficult bathing
H17_1	difficult eating

```
difficult getting in an out of bed
    H18 1
                    difficult using toilet
   H19 1
   Н4
                    sitting 2 hours
   Н5
                    getting up
                    long climbing
                    short climbing
   Н8
                    bending
   Н9
                    extending arms
Wave 2:
                    health problems-trouble walking blocks
   н1
   H10
                    health problems-trouble pushing or pulling
    H11
                    health problems-trouble carrying objects
                    health problems-trouble picking up a coin
   H12
   H13
                    health problems-trouble dressing self
   H15A
                    health problem-trouble walking
   H15C
                    has difficulties with activity
                    health problem-have trouble bathing
   H16A
   H16C
                    has difficulties with activity
   H17A
                    health problem-trouble eating or cutting
                    has difficulties with activity
   H17C
   H18A
                    health problem-get in/out of bed
   H18C
                    has difficulties with activity
   H19A
                    health problem-trouble going to bathroom
                    has difficulties with activity
   H19C
   H4
                    health problems-trouble staying seated
   Н5
                    health problems-trouble getting up from chair
                    health problems-trouble with flights of stairs
   Н7
                    health problems-trouble with 1 flight of stairs
   Н8
                    health problems-trouble sitting up
   Н9
                    health problems-trouble lifting arms
Wave 3:
   H10 12
                    Because of health problem, difficulty pushing or pullin
   H11 12
                    Because of health problem, difficulty carrying objects
                    Because of health problem, difficulty picking up a coin
   H12 12
   H13 12
                    Because of health problem, difficulty dressing self
   H15A 12
                    Because of health problem, difficulty walking
                    You use guardrail to walk across room
   H15C01 12
   H15C02_12
                    You use walker to walk across room
   H15C03 12
                    You use staff to walk across room
   H15C04_12
                    You use crutches to walk across room
   H15C05 12
                    You use orthopedic shoes to walk across room
   H15C06 12
                    You use clamp to walk across room
   H15C07 12
                    You use prosthesis to walk across room
   H15C08 12
                    You use oxygen/respirator to walk across room
   H15C09 12
                    You use furniture/walls to walk across room
   H15C10 12
                    You use wheelchair/cart to walk across room
   H15C11 12
                    You use other to walk across room
   H15C88 12
                    RF equipment walk across room
   H15C99 12
                    DK equipment walk across room
   H16A 12
                    Because of health problem, difficulty bathing
                    Because of health problem, difficulty eating or cutting
   H17A 12
   H18A 12
                    Because of health problem, difficulty get in/out of bed
   H18C01_12
                    You use guardrail to get into or out of bed
   H18C02_12
                    You use walker to get into or out of bed
                    You use staff to get into or out of bed
   H18C03 12
   H18C04 12
                    You use crutches to get into or out of bed
   H18C05 12
                    You use orthopedic shoes to get into or out of bed
   H18C06 12
                    You use clamp to get into or out of bed
   H18C07 12
                    You use prosthesis to get into or out of bed
   H18C08 12
                    You use oxygen/respirator to get into or out of bed
   H18C09 12
                    You use furniture/walls to get into or out of bed
    H18C10 12
                    You use wheelchair/cart to get into or out of bed
    H18C11 12
                    You use other to get into or out of bed
    H18C88 12
                    RF equipment get into or out of bed
```

H18C99 12	DV ogginment get into or out of hed
H18C99_12	DK equipment get into or out of bed
H19A_12 H1 12	Because of health problem, difficulty going to the bath Because of health problem, difficulty walking blocks
H4 12	Because of health problem, difficulty staying seated
H5 12	Because of health problem, difficulty staying seated Because of health problem, difficulty getting up from c
H6 12	Because of health problem, difficulty with flights of s
H7 12	Because of health problem, difficulty with 1 flight of
H8 12	Because of health problem, difficulty sitting up
H9 12	Because of health problem, difficulty lifting arms
Wave 4:	
Н10 15	Because of health problem, does respondent have difficu
н11 [—] 15	Because of health problem, does respondent have difficu
H12 <u></u> 15	Because of health problem, does respondent have difficu
H13_15	Because of health problem, does respondent have difficu
H14_15	Does someone help respondent to get dressed
H15A_15	Because of health problem, does respondent have any dif
Н15В_15	Does respondent ever use equipment (to walk across a ro
H15C01_15	Type of equipment respondent uses (to walk across a roo
H15C02_15	Type of equipment respondent uses (to walk across a roo
H15C03_15	Type of equipment respondent uses (to walk across a roo
H15C04_15	Type of equipment respondent uses (to walk across a roo
H15C05_15	Type of equipment respondent uses (to walk across a roo
H15C06_15	Type of equipment respondent uses (to walk across a roo
H15C07_15 H15C08 15	Type of equipment respondent uses (to walk across a roo Type of equipment respondent uses (to walk across a roo
H15C08_15	Type of equipment respondent uses (to walk across a roo
H15C10 15	Type of equipment respondent uses (to walk across a roo
H15C11 15	Type of equipment respondent uses (to walk across a roo
H15C88 15	Type of equipment respondent uses (to walk across a roo
H15C99 15	Type of equipment respondent uses (to walk across a roo
H15D 15	Does someone help respondent walking across a room
H16A 15	Because of health problem, does respondent have any dif
H16D_15	Does someone help respondent bathing or showering
H17A_15	Because of health problem, does respondent have any dif
H17D_15	Does someone help respondent eating
H18A_15	Because of health problem, does respondent have any dif
H18B_15	Does respondent ever use equipment (to get in or out of
H18C01_15	Type of equipment respondent uses (to get in or out of
H18C02_15	Type of equipment respondent uses (to get in or out of
H18C03_15 H18C04 15	Type of equipment respondent uses (to get in or out of Type of equipment respondent uses (to get in or out of
H18C05 15	Type of equipment respondent uses (to get in or out of
H18C06_15	Type of equipment respondent uses (to get in or out of
H18C07 15	Type of equipment respondent uses (to get in or out of
H18C08 15	Type of equipment respondent uses (to get in or out of
H18C09 15	Type of equipment respondent uses (to get in or out of
H18C10 15	Type of equipment respondent uses (to get in or out of
H18C11_15	Type of equipment respondent uses (to get in or out of
H18C88_15	Type of equipment respondent uses (to get in or out of
H18C99_15	Type of equipment respondent uses (to get in or out of
H18D_15	Does someone help respondent getting in or out of bed
H19A_15	Because of health problem, does respondent have any dif
H19D_15	Does someone help respondent using the toilet
H1_15	Because of health problem, does respondent have difficu
H4_15	Because of health problem, does respondent have difficu
H5_15 н6 15	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu
H7 15	Because of health problem, does respondent have difficu
H8 15	Because of health problem, does respondent have difficu
H9 15	Because of health problem, does respondent have difficu
Wave 5:	1 In the state of
H10 18	Because of health problem, does R have difficulty pushi
H11 18	Due to health problem, difficult for R to lift/carry ob
H12_18	Due to health problem, does R have difficulty picking u
_	

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Due to health problem, difficult for R to dress, includ
H13 18
H14 18
                Does someone help R to get dressed
H15A 18
                Because of health problem, does R have any difficulty w
H15B 18
                R ever uses equipment (to walk across room) such as can
H15C01 18
                Type of equipment R uses (to walk across a room): Guard
H15C02 18
                Type of equipment R uses (to walk across a room): Walke
H15C03 18
                Type of equipment R uses (to walk across a room): Staff
H15C04 18
                Type of equipment R uses (to walk across a room): Crutc
H15C05 18
                Type of equipment R uses (to walk across a room): Ortho
H15C06_18
                Type of equipment R uses (to walk across a room): Brace
H15C07_18
                Type of equipment R uses (to walk across a room): Prost
H15C08_18
                Type of equipment R uses (to walk across a room): Oxyge
H15C09 18
                Type of equipment R uses (to walk across a room): Furni
H15C10 18
                Type of equipment R uses (to walk across a room): Wheel
H15C11 18
                Type of equipment R uses (to walk across a room): Other
H15C88 18
                Type of equipment R uses (to walk across a room): RF
H15C99 18
                Type of equipment R uses (to walk across a room): DK
H15D 18
                Does someone help R walking across a room
H16A 18
                Because of health problem, does R have any difficulty b
                Does someone help R bathing or showering
H16D 18
H17A 18
                Due to health problem, does R have any difficulty eatin
H17D 18
                Does someone help R eating
H18A 18
                Because of health problem, does R have any difficulty g
                R ever uses equipment to get in or out of bed, e.g. can
H18B 18
H18C01 18
                Type of equipment R uses (to get in or out of bed): Gua
H18C02_18
                Type of equipment R uses (to get in or out of bed): Wal
H18C03_18
                Type of equipment R uses (to get in or out of bed): Sta
H18C04 18
                Type of equipment R uses (to get in or out of bed): Cru
H18C05 18
                Type of equipment R uses (to get in or out of bed): Ort
H18C06 18
                Type of equipment R uses (to get in or out of bed): Bra
H18C07 18
                Type of equipment R uses (to get in or out of bed): Pro
H18C08 18
                Type of equipment R uses (to get in or out of bed): Oxy
H18C09 18
                Type of equipment R uses (to get in or out of bed): Fur
H18C10 18
                Type of equipment R uses (to get in or out of bed): Whe
H18C11 18
                Type of equipment R uses (to get in or out of bed): Oth
H18C88 18
                Type of equipment R uses (to get in or out of bed): RF
H18C99 18
                Type of equipment R uses (to get in or out of bed): DK
H18D 18
                Does someone help R getting in or out of bed
H19A_18
                Because of health problem, does R have any difficulty u
H19D 18
                Does someone help R using the toilet
H1 18
                Because of health problem, does R have difficulty walki
                Because of health problem, does R have difficulty sitti
H4 18
H5 18
                Due to health problem, difficult for R to get up from c
H6 18
                Due to health problem, hard for R to climb several flig
н7 18
                Due to health problem, difficult for R to climb 1 fligh
н8 18
                Due to health problem, does R have difficulty stooping,
Н9 18
                Due to health problem, difficult for R to reach/extend
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Activities of Daily Living (ADLs): Some Difficulty

Wave	Variable	Label	Туре
1	R1WALKRA	rlwalkra: w1 R Some difficulty-Walking across room	Categ
2	R2WALKRA	r2walkra: w2 R Some difficulty-Walking across room	Categ
3	R3WALKRA	r3walkra: w3 R Some difficulty-Walking across room	Categ
4	R4WALKRA	r4walkra: w4 R Some difficulty-Walking across room	Categ
5	R5WALKRA	r5walkra: w5 R Some difficulty-Walking across room	Categ
		in the second se	
1	S1WALKRA	slwalkra: w1 S Some difficulty-Walking across room	Categ
2	S2WALKRA	s2walkra: w2 S Some difficulty-Walking across room	Categ
3	S3WALKRA	s3walkra: w3 S Some difficulty-Walking across room	Categ
4	S4WALKRA	s4walkra: w4 S Some difficulty-Walking across room	Categ
5	S5WALKRA	s5walkra: w5 S Some difficulty-Walking across room	Categ
			_
1	R1DRESSA	rldressa: w1 R Some difficulty-Dressing	Categ
2	R2DRESSA	r2dressa: w2 R Some difficulty-Dressing	Categ
3	R3DRESSA	r3dressa: w3 R Some difficulty-Dressing	Categ
4	R4DRESSA	r4dressa: w4 R Some difficulty-Dressing	Categ
5	R5DRESSA	r5dressa: w5 R Some difficulty-Dressing	Categ
	S1DRESSA	sldressa: w1 S Some difficulty-Dressing	Categ
	S2DRESSA	s2dressa: w2 S Some difficulty-Dressing	Categ
	S3DRESSA	s3dressa: w3 S Some difficulty-Dressing	Categ
	S4DRESSA	s4dressa: w4 S Some difficulty-Dressing	Categ
5	S5DRESSA	s5dressa: w5 S Some difficulty-Dressing	Categ
1	תווח גם 1 ח	wilhother wil D. Come difficulty Dathing on chargering	Categ
	R1BATHA R2BATHA	rlbatha: w1 R Some difficulty-Bathing or showering r2batha: w2 R Some difficulty-Bathing or showering	Categ
	R3BATHA	r3batha: w3 R Some difficulty-Bathing or showering	_
4	R4BATHA	r4batha: w4 R Some difficulty-Bathing or showering	Categ Categ
5	R4BATHA R5BATHA	r5batha: w5 R Some difficulty-Bathing or showering	Categ
J	NJDAINA	isbacha. WS & Some difficulty-Baching of Showering	categ
1	S1BATHA	slbatha: w1 S Some difficulty-Bathing or showering	Categ
	S2BATHA	s2batha: w2 S Some difficulty-Bathing or showering	Categ
3	S3BATHA	s3batha: w3 S Some difficulty-Bathing or showering	Categ
4	S4BATHA	s4batha: w4 S Some difficulty-Bathing or showering	Categ
5	S5BATHA	s5batha: w5 S Some difficulty-Bathing or showering	Categ
			,
1	R1EATA	rleata: w1 R Some difficulty-Bathing or showering	Categ
2	R2EATA	r2eata: w2 R Some difficulty-Bathing or showering	Categ
3	R3EATA	r3eata: w3 R Some difficulty-Bathing or showering	Categ
4	R4EATA	r4eata: w4 R Some difficulty-Bathing or showering	Categ
5	R5EATA	r5eata: w5 R Some difficulty-Bathing or showering	Categ
1	S1EATA	sleata: w1 S Some difficulty-Bathing or showering	Categ
2	S2EATA	s2eata: w2 S Some difficulty-Bathing or showering	Categ
	S3EATA	s3eata: w3 S Some difficulty-Bathing or showering	Categ
	S4EATA	s4eata: w4 S Some difficulty-Bathing or showering	Categ
5	S5EATA	s5eata: w5 S Some difficulty-Bathing or showering	Categ
1	D1DED3	with the set D. Come difficulty Catholica in fact of had	0 - 1
	R1BEDA R2BEDA	rlbeda: w1 R Some difficulty-Getting in/out of bed r2beda: w2 R Some difficulty-Getting in/out of bed	Categ
	R3BEDA	r3beda: w3 R Some difficulty-Getting in/out of bed	Categ
	R4BEDA	r4beda: w4 R Some difficulty-Getting in/out of bed	Categ Categ
5	R5BEDA	r5beda: w5 R Some difficulty-Getting in/out of bed	Categ
J	MADEDY	1000000. WO IN Some difficulty-deceining infout of Dea	careg
1	S1BEDA	slbeda: w1 S Some difficulty-Getting in/out of bed	Categ
	S2BEDA	s2beda: w2 S Some difficulty-Getting in/out of bed	Categ
3	S3BEDA	s3beda: w3 S Some difficulty-Getting in/out of bed	Categ
4	S4BEDA	s4beda: w4 S Some difficulty-Getting in/out of bed	Categ
5	S5BEDA	s5beda: w5 S Some difficulty-Getting in/out of bed	Categ
-		, , ,	5

2	R1TOILTA R2TOILTA R3TOILTA R4TOILTA	r2toilta: r3toilta:	w2 w3	R R	Some Some	difficulty-Using difficulty-Using difficulty-Using difficulty-Using	the the	toilet toilet	Categ Categ Categ Categ
5	R5TOILTA					difficulty-Using			Categ
2	S1TOILTA S2TOILTA	s2toilta:	w2	S	Some	difficulty-Using difficulty-Using	the	toilet	Categ Categ
	S3TOILTA					difficulty-Using			Categ
4	S4TOILTA					difficulty-Using			Categ
5	S5TOILTA	s5toilta:	w5	S	Some	difficulty-Using	the	toilet	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKRA	14966	0.05	0.22	0.00	1.00
R2WALKRA	13650	0.06	0.23	0.00	1.00
R3WALKRA	15680	0.08	0.26	0.00	1.00
R4WALKRA	14720	0.09	0.28	0.00	1.00
R5WALKRA	17000	0.09	0.27	0.00	1.00
KJWALIKKA	17000	0.00	0.27	0.00	1.00
S1WALKRA	10520	0.04	0.20	0.00	1.00
S2WALKRA	9537	0.04	0.20	0.00	1.00
s3walkra	10562	0.06	0.23	0.00	1.00
S4WALKRA	9632	0.06	0.24	0.00	1.00
S5WALKRA	7575	0.08	0.27	0.00	1.00
R1DRESSA	14046	0.06	0.24	0.00	1.00
R2DRESSA	12499	0.06	0.24	0.00	1.00
R3DRESSA	14434	0.09	0.29	0.00	1.00
R4DRESSA	13798	0.11	0.31	0.00	1.00
R5DRESSA	15752	0.10	0.30	0.00	1.00
S1DRESSA	9924	0.06	0.23	0.00	1.00
S2DRESSA	8736	0.05	0.22	0.00	1.00
S3DRESSA	9860	0.08	0.27	0.00	1.00
S4DRESSA	9164	0.10	0.29	0.00	1.00
S5DRESSA	7061	0.11	0.31	0.00	1.00
R1BATHA	14967	0.04	0.19	0.00	1.00
R2BATHA	13647	0.04	0.19	0.00	1.00
R3BATHA	15667	0.05	0.21	0.00	1.00
R4BATHA	14721	0.06	0.25	0.00	1.00
R5BATHA	17005	0.05	0.23	0.00	1.00
S1BATHA	10521	0.03	0.16	0.00	1.00
			0.17		
S2BATHA	9538	0.03		0.00	1.00
S3BATHA	10551	0.03	0.17	0.00	1.00
S4BATHA	9628	0.05	0.21	0.00	1.00
S5BATHA	7576	0.05	0.22	0.00	1.00
R1EATA	14965	0.02	0.14	0.00	1.00
R2EATA	13650	0.02	0.14	0.00	1.00
R3EATA	15671	0.03	0.18	0.00	1.00
R4EATA	14723	0.04	0.19	0.00	1.00
R5EATA	17001	0.03	0.17	0.00	1.00
S1EATA	10520	0.01	0.12	0.00	1.00
S2EATA	9537	0.02	0.12	0.00	1.00
S3EATA	10552	0.02	0.15	0.00	1.00
S4EATA	9630	0.03	0.17	0.00	1.00
S5EATA	7572	0.03	0.15	0.00	1.00
SULAIA	1312	0.02	0.10	0.00	1.00

R1BEDA	14969	0.05	0.22	0.00	1.00
R2BEDA	13651	0.05	0.22	0.00	1.00
R3BEDA	15685	0.08	0.27	0.00	1.00
R4BEDA	14728	0.10	0.30	0.00	1.00
R5BEDA	17004	0.07	0.26	0.00	1.00
	10500	0.05	0.01	0.00	1 00
S1BEDA	10522	0.05	0.21	0.00	1.00
S2BEDA	9537	0.04	0.20	0.00	1.00
S3BEDA	10564	0.07	0.25	0.00	1.00
S4BEDA	9637	0.08	0.27	0.00	1.00
S5BEDA	7575	0.07	0.25	0.00	1.00
R1TOILTA	14955	0.04	0.19	0.00	1.00
R2TOILTA	13651	0.04	0.19	0.00	1.00
R3TOILTA	15677	0.06	0.24	0.00	1.00
R4TOILTA	14712	0.06	0.24	0.00	1.00
R5TOILTA	16993	0.06	0.24	0.00	1.00
C1 m O T T m 7	10516	0 02	0 17	0.00	1 00
S1TOILTA	10516	0.03	0.17	0.00	1.00
S2TOILTA	9538	0.03	0.16	0.00	1.00
S3TOILTA	10560	0.04	0.21	0.00	1.00
S4TOILTA	9631	0.05	0.22	0.00	1.00
S5TOILTA	7570	0.06	0.23	0.00	1.00

Categorical Variable Codes

Value .d:DK	R1WALKRA	R2WALKRA	R3WALKRA	R4WALKRA	R5WALKRA
.m:Missing	38 40	47	31	6 40	4 18
.m:Missing	138	5	4	1	85
.x:Doesn't do	4	2	8	12	7
0.No	14182	12880	14500	13453	15622
1.Yes	784	770	1180	1267	1378
1.103	701	770	1100	1201	1370
Value	S1WALKRA	S2WALKRA	S3WALKRA	S4WALKRA	S5WALKRA
.d:DK	22		25	5	
.m:Missing	14	23		10	6
.r:Refuse	89	3	2		56
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	3	1	3	5	1
0.No	10094	9136	9970	9031	6998
1.Yes	426	401	592	601	577
Value	D1 DDEGGA	DODDEGGA	DODECCA	DADDEGGA	DEDDEGGA
	R1DRESSA	R2DRESSA	R3DRESSA	R4DRESSA 7	R5DRESSA
.d:DK	31	٥٦	1		2
.m:Missing	38	25	1075	40	17
.p:Proxy interview, not asked	1032 37	1178	1275	929	1328
.r:Refuse	2	2	4 9	1 4	8 7
.x:Doesn't do 0.No	13147	11745	13103	12296	14151
•	899	754	13103	1502	1601
1.Yes	899	754	1331	1302	1001
Value	S1DRESSA	S2DRESSA	S3DRESSA	S4DRESSA	S5DRESSA
.d:DK	26		1	7	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	25				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do		1	5	1	3
0.No	9355	8285	9049	8290	6312
1.Yes	569	451	811	874	749
	_4	- 0	- 0		
Value	R1BATHA	R2BATHA	R3BATHA	R4BATHA	R5BATHA
.d:DK	38		31	6	3
.m:Missing	40	47		40	18

.r:Refuse	139	5	2	1	85
.x:Doesn't do	2	5	23	11	3
0.No	14400	13121	14928	13766	16072
1.Yes	567	526	739	955	933
Value	S1BATHA	S2BATHA	S3BATHA	S4BATHA	S5BATHA
.d:DK	22		25	5	
.m:Missing	14	23		10	6
.r:Refuse	90	3	1		56
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	1		15	9	
0.No	10228	9259	10230	9184	7198
1.Yes	293	279	321	444	378
Value	R1EATA	R2EATA	R3EATA	R4EATA	R5EATA
.d:DK	39		31	6	2
.m:Missing	40	47		40	18
.r:Refuse	137	5	2	1	86
.x:Doesn't do	I 5	2	19	9	7
0.No	14655	13378	15151	14180	16509
1.Yes	310	272	520	543	492
	,				
Value	S1EATA	S2EATA	S3EATA	S4EATA	S5EATA
.d:DK	22		25	5	
.m:Missing	14	23		10	6
.r:Refuse	1 88	3	1		57
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	1 4	1	14	7	3
0.No	10371	9393	10300	9360	7397
1.Yes	149	144	252	270	175
1.163	1 140	111	232	270	1/3
Value	R1BEDA	R2BEDA	R3BEDA	R4BEDA	R5BEDA
.d:DK	1 38	T(ZDDDI1	32	6	3
.m:Missing	1 40	47	52	40	18
.r:Refuse	138	5	3	1	87
.x:Doesn't do	1 1	1	3	4	2
0.No	14174	12976	14429	13295	15766
1.Yes	1 795	675	1256	1433	1238
1.165	195	073	1230	1433	1230
Value	S1BEDA	S2BEDA	S3BEDA	S4BEDA	S5BEDA
.d:DK	1 22	SZDEDA	26	5	SUBEDA
.m:Missing	14	23	20	10	6
.m:Missing .r:Refuse	l 89	3	1	10	57
.u:Unmar	1 4205	4009	4782	4847	5227
	•	131	349	280	
.v:SP NR .x:Doesn't do	333			280	501
	1 10045	0150	1 9859	0054	7058
0.No	10045	9158		8854	
1.Yes	477	379	705	783	517
Value	D1 m0 T1 m3	D O M O T T M A	D 2m 0 T T m 3	D/morrma	DEMOTIMA
		R2TOILTA	R3TOILTA	R4TOILTA	R5TOILTA
.d:DK	44	47	33	6	6
.m:Missing	40	47	2	40	18
.r:Refuse	147	5	3	1	86
.x:Doesn't do	1 1005	1	10	20	11
0.No	14385	13156	14743	13783	15922
1.Yes	570	495	934	929	1071
77.1	0150775	00007777	0.000.77.07	0.45077.53	0.500.77.07
Value		S2TOILTA	S3TOILTA	S4TOILTA	S5TOILTA
.d:DK	25	2.2	26	5	1
.m:Missing	14	23	_	10	6
.r:Refuse	93	3	1		57
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do		00	5	6	4
0.No	10200	9276	10091	9150	7126
1.Yes	316	262	469	481	444

How Constructed

These variables indicate difficulty with activities of daily living (ADLs). The ADL variables include walking across a room (RwWALKRA), dressing (RwDRESSA), bathing (RwBATHA), eating (RwEATA), getting in and out of bed (RwBEDA), and using the toilet (RwTOILTA). 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 if they reported "can't do". When respondents indicated "don't know" or refused to answer the Rw[adl]A variables are assigned special missing values .d or .r, respectively. Also, if the respondent reported "don't do" but received help, the ADL variables are set to 1, otherwise they are set to special missing value .x. The variables are also set to 0 if the difficulty question is skipped because of previous answers to the tasks asked about earlier (questions H1 to H13), indicating no difficulty. If the response is otherwise missing, then these variables are assigned special missing value .m. In all waves, the questions regarding difficulty dressing and help getting dressed are part of the introductory questions asked at the beginning of the module (Section H). This task is skipped if interviews are completed by proxy and the variable RwDRESSA and is set to .p. RwWALKRA, RwDRESSA, RwBATHA, RwEATA, RwBEDA, and RwTOILTA are set to plain missing (.) for respondents who did not respond to the current wave.

SwWALKRA, SwDRESSA, SwBATHA, SwEATA, SwBEDA, and SwTOILTA indicate whether the respondent's spouse reported any difficulty with each one of these daily living activities and are taken directly from the spouse's Rw[adl]A variables, respectively. In addition to the special missing codes used in the Rw[adl]A variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

These variables are used to construct a number of ADL summary indices. Please see "ADLs Summary" and "Other Summary Indices".

Cross Wave Differences in MHAS

In Waves 1 and 2, two separate questions were asked regarding the help received with walking across the room, bathing or showering, eating, getting into or out of bed, or using the toilet. The first one is only asked if the respondent is married or in a union, and it says: "Does your spouse help you?". The second question is asked regardless of their marital status and it indicates if "anyone (else) ever help you?". These two questions are used to construct R1[adl]H and R2[adl]H and to determine if the respondent has some difficulty when they reported "Don't Do" when constructing R1[adl]A and R2[adl]A. Starting in Wave 3, only one question was asked regarding the helped received: "Does someone help you?".

Differences with the RAND HRS/Harmonized HRS

In the HRS introductory questions, respondents are asked whether they have difficulty jogging one mile. However, in the MHAS they ask if the respondent has any difficulty running or jogging one kilometer.

MHAS Variables Used

Wave 1:	
Н1	long walk
Н10	pulling
Н11	picking up
H12	picking up a coin
Н13	dressing
H14	help dressing
Н15 1	difficult walking
H15_3	spouse helps walking
H15_4	other helps walking
H16_1	difficult bathing
н16_3	spouse helps bathing
н16_4	other helps bathing
н17_1	difficult eating
H17_3	spouse helps eating
н17_4	other helps eating
H18_1	difficult getting in an out of bed
H18_3	spouse helps getting in an out of bed
H18_4	other helps getting in an out of bed
H19_1	difficult using toilet

```
Н19 3
                    spouse helps using toilet
    H19 4
                    other helps using toilet
                    sitting 2 hours
    Н4
    Н5
                    getting up
                    long climbing
                    short climbing
    Н8
                    bending
    Н9
                    extending arms
Wave 2:
                    health problems-trouble walking blocks
    Н1
    H10
                    health problems-trouble pushing or pulling
    H11
                    health problems-trouble carrying objects
                    health problems-trouble picking up a coin
    H12
    H13
                    health problems-trouble dressing self
    H14
                    someone help you to get dressed
    H15A
                    health problem-trouble walking
                    spouse helps
   H15E
   H15F
                    additional person helps
   H16A
                    health problem-have trouble bathing
   H16E
                    spouse helps
   H16F
                    additional person helps
   H17A
                    health problem-trouble eating or cutting
   H17E
                    spouse helps
   H17F
                    additional person helps
                    health problem-get in/out of bed
    H18A
    H18E
                    spouse helps
                    additional person helps
    H18F
    H19A
                    health problem-trouble going to bathroom
    H19E
                    spouse helps
                    additional person helps
   H19F
                    health problems-trouble staying seated
   Η4
                    health problems-trouble getting up from chair
    H.5
    Н6
                    health problems-trouble with flights of stairs
                    health problems-trouble with 1 flight of stairs
                    health problems-trouble sitting up
    Н9
                    health problems-trouble lifting arms
Wave 3:
                    Because of health problem, difficulty pushing or pullin
   H10 12
   H11_12
                    Because of health problem, difficulty carrying objects
    H12_12
                    Because of health problem, difficulty picking up a coin
   H13 12
                    Because of health problem, difficulty dressing self
    H14 12
                    Someone help you to get dressed
    H15A 12
                    Because of health problem, difficulty walking
   H15D 12
                    Someone help you walk across room
   H16A 12
                    Because of health problem, difficulty bathing
   H16D 12
                    Someone help you to bathe or shower
   H17A 12
                    Because of health problem, difficulty eating or cutting
   H17D 12
                    Does someone help you eat your food
   H18A 12
                    Because of health problem, difficulty get in/out of bed
   H18D 12
                    Does someone help you get into or out of bed
                    Because of health problem, difficulty going to the bath
   H19A 12
   H19D 12
                    Does someone help you use toilet, get on off
   H1 12
                    Because of health problem, difficulty walking blocks
   H4_12
                    Because of health problem, difficulty staying seated
                    Because of health problem, difficulty getting up from \ensuremath{\mathsf{c}}
    H5_12
    H6 12
                    Because of health problem, difficulty with flights of s
    H7_12
H8_12
                    Because of health problem, difficulty with 1 flight of
                    Because of health problem, difficulty sitting up
   H9 12
                    Because of health problem, difficulty lifting arms
Wave 4:
   H10 15
                    Because of health problem, does respondent have difficu
    H11 15
                    Because of health problem, does respondent have difficu
                    Because of health problem, does respondent have difficu
    H12 15
    H13 15
                    Because of health problem, does respondent have difficu
```

H14_15	Does someone help respondent to get dressed
H15A 15	Because of health problem, does respondent have any dif
H15D 15	Does someone help respondent walking across a room
H16A 15	Because of health problem, does respondent have any dif
H16D 15	Does someone help respondent bathing or showering
H17A 15	Because of health problem, does respondent have any dif
H17D 15	Does someone help respondent eating
H18A 15	Because of health problem, does respondent have any dif
H18D 15	Does someone help respondent getting in or out of bed
H19A 15	Because of health problem, does respondent have any dif
H19D 15	Does someone help respondent using the toilet
H1 15	Because of health problem, does respondent have difficu
H4 15	Because of health problem, does respondent have difficu
н5 15	Because of health problem, does respondent have difficu
H6 15	Because of health problem, does respondent have difficu
H7 15	Because of health problem, does respondent have difficu
H8 15	Because of health problem, does respondent have difficu
H9 15	Because of health problem, does respondent have difficu
Wave 5:	because of hearth problem, does respondent have difficult
H10 18	Because of health problem, does R have difficulty pushi
H11 18	Due to health problem, difficult for R to lift/carry ob
H12 18	Due to health problem, does R have difficulty picking u
H13 18	Due to health problem, does k have difficulty picking a Due to health problem, difficult for R to dress, includ
H14 18	Does someone help R to get dressed
H15A 18	Because of health problem, does R have any difficulty w
H15D 18	Does someone help R walking across a room
H16A 18	Because of health problem, does R have any difficulty b
H16A_18 H16D 18	Does someone help R bathing or showering
H17A 18	Due to health problem, does R have any difficulty eatin
H17A_10 H17D 18	Does someone help R eating
H17D_10 H18A 18	Because of health problem, does R have any difficulty g
_	Does someone help R getting in or out of bed
H18D_18 H19A 18	Because of health problem, does R have any difficulty u
H19A_10 H19D 18	Does someone help R using the toilet
H1 18	
_	Because of health problem, does R have difficulty walki
H4_18	Because of health problem, does R have difficulty sitti
H5_18	Due to health problem, difficult for R to get up from c
н6_18 н7 18	Due to health problem, hard for R to climb several flig
H7_18 H8 18	Due to health problem, difficult for R to climb 1 fligh
_	Due to health problem, does R have difficulty stooping,
н9_18	Due to health problem, difficult for R to reach/extend

Instrumental Activities of Daily Living (IADLs): Raw Recodes

Wave	Variable	Label	Type
1	R1MONEY	rlmoney: w1 R Difficulty-Managing money	Categ
2	R2MONEY	r2money: w2 R Difficulty-Managing money	Categ
	R3MONEY	r3money: w3 R Difficulty-Managing money	Categ
4	R4MONEY	r4money: w4 R Difficulty-Managing money	Categ
	R5MONEY	r5money: w5 R Difficulty-Managing money	Categ
1	S1MONEY	s1money: w1 S Difficulty-Managing money	Categ
2	S2MONEY	s2money: w2 S Difficulty-Managing money	Categ
3	S3MONEY	s3money: w3 S Difficulty-Managing money	Categ
4	S4MONEY	s4money: w4 S Difficulty-Managing money	Categ
5	S5MONEY	s5money: w5 S Difficulty-Managing money	Categ
1	R1MEDS	rlmeds: w1 R Difficulty-Taking medications	Catas
	R2MEDS	r2meds: w2 R Difficulty-Taking medications	Categ Categ
	R3MEDS	r3meds: w3 R Difficulty-Taking medications	Categ
	R4MEDS	r4meds: w4 R Difficulty-Taking medications	Categ
	R5MEDS	r5meds: w5 R Difficulty-Taking medications	Categ
3	KJMEDS	ismeds: ws R billiculty-laxing medications	categ
1	S1MEDS	s1meds: w1 S Difficulty-Taking medications	Categ
2	S2MEDS	s2meds: w2 S Difficulty-Taking medications	Categ
3	S3MEDS	s3meds: w3 S Difficulty-Taking medications	Categ
4	S4MEDS	s4meds: w4 S Difficulty-Taking medications	Categ
5	S5MEDS	s5meds: w5 S Difficulty-Taking medications	Categ
1	D1 GWOD	1.1	a .
	R1SHOP	rlshop: wl R Difficulty-Shopping for groceries	Categ
	R2SHOP	r2shop: w2 R Difficulty-Shopping for groceries	Categ
	R3SHOP	r3shop: w3 R Difficulty-Shopping for groceries	Categ
	R4SHOP	r4shop: w4 R Difficulty-Shopping for groceries	Categ
Э	R5SHOP	r5shop: w5 R Difficulty-Shopping for groceries	Categ
1	S1SHOP	s1shop: w1 S Difficulty-Shopping for groceries	Categ
2	S2SHOP	s2shop: w2 S Difficulty-Shopping for groceries	Categ
3	S3SHOP	s3shop: w3 S Difficulty-Shopping for groceries	Categ
4	S4SHOP	s4shop: w4 S Difficulty-Shopping for groceries	Categ
5	S5SHOP	s5shop: w5 S Difficulty-Shopping for groceries	Categ
1	R1MEALS	rlmeals: w1 R Difficulty-Preparing hot meals	Categ
	R2MEALS	r2meals: w2 R Difficulty-Preparing hot meals	Categ
	R3MEALS	r3meals: w3 R Difficulty-Preparing hot meals	Categ
	R4MEALS	r4meals: w4 R Difficulty-Preparing hot meals	Categ
_	R5MEALS	r5meals: w5 R Difficulty-Preparing hot meals	_
5	NOMEWIN	iomears. Wo k Difficulty-frepairing not mears	Categ
1	S1MEALS	s1meals: w1 S Difficulty-Preparing hot meals	Categ
2	S2MEALS	s2meals: w2 S Difficulty-Preparing hot meals	Categ
3	S3MEALS	s3meals: w3 S Difficulty-Preparing hot meals	Categ
4	S4MEALS	s4meals: w4 S Difficulty-Preparing hot meals	Categ
5	S5MEALS	s5meals: w5 S Difficulty-Preparing hot meals	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MONEY	14052	0.05	0.51	0.00	9.00
R2MONEY	12516	0.05	0.48	0.00	9.00
R3MONEY	14439	0.05	0.50	0.00	9.00
R4MONEY	13801	0.07	0.63	0.00	9.00
R5MONEY	15754	0.05	0.45	0.00	9.00

S1MONEY	9929	0.04	0.46	0.00	9.00
S2MONEY	8742	0.04	0.42	0.00	9.00
S3MONEY	9862	0.04	0.47	0.00	9.00
S4MONEY	9167	0.06	0.60	0.00	9.00
S5MONEY	7063	0.04	0.43	0.00	9.00
R1MEDS	14056	0.04	0.44	0.00	9.00
R2MEDS	12516	0.06	0.59	0.00	9.00
R3MEDS	14445	0.13	0.98	0.00	9.00
R4MEDS	13802	0.15	1.04	0.00	9.00
R5MEDS	15753	0.06	0.58	0.00	9.00
11011220	10,00	0.00	0.00	0.00	3.00
S1MEDS	9934	0.03	0.40	0.00	9.00
S2MEDS	8743	0.05	0.59	0.00	9.00
S3MEDS	9864	0.12	0.98	0.00	9.00
S4MEDS	9165	0.14	1.01	0.00	9.00
S5MEDS	7062	0.05	0.49	0.00	9.00
R1SHOP	14016	0.27	1.35	0.00	9.00
R2SHOP	12515	0.26	1.29	0.00	9.00
R3SHOP	14440	0.25	1.20	0.00	9.00
R4SHOP	13801	0.30	1.30	0.00	9.00
R5SHOP	15754	0.19	1.01	0.00	9.00
S1SHOP	9898	0.26	1.38	0.00	9.00
S2SHOP	8742	0.24	1.30	0.00	9.00
S3SHOP	9863	0.22	1.17	0.00	9.00
S4SHOP	9166	0.24	1.19	0.00	9.00
S5SHOP	7062	0.19	1.02	0.00	9.00
R1MEALS	14001	0.47	1.91	0.00	9.00
R2MEALS	12514	0.48	1.93	0.00	9.00
R3MEALS	14440	0.44	1.85	0.00	9.00
R4MEALS	13801	0.40	1.73	0.00	9.00
R5MEALS	15440	0.09	0.67	0.00	9.00
S1MEALS	9880	0.53	2.06	0.00	9.00
S2MEALS	8742	0.54	2.07	0.00	9.00
S3MEALS	9860	0.50	2.00	0.00	9.00
S4MEALS	9165	0.42	1.81	0.00	9.00
S5MEALS	6881	0.09	0.71	0.00	9.00
-					

Categorical Variable Codes

Value	R1MONEY	R2MONEY	R3MONEY	R4MONEY	R5MONEY
.d:DK	17		8	7	2
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	47	2	1	2	13
0.No	13693	12205	14056	13321	15350
1.Yes	282	240	331	383	333
2.Can't Do	37	40	12	35	37
9.Don't Do	40	31	40	62	34
Value	S1MONEY	S2MONEY	S3MONEY	S4MONEY	S5MONEY
.d:DK	13		4	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	33	2			7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9747	8577	9650	8922	6887
1.Yes	143	128	182	191	148
2.Can't Do	15	20	6	16	14
9.Don't Do	24	17	24	38	14

Value		R2MEDS	R3MEDS	R4MEDS	R5MEDS
.d:DK	16		1	6	3
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	44	1	2	2	13
0.No	13692	12193	13944	13143	15328
1.Yes	314	252	327	462	350
2.Can't Do	21	20	5	14	14
9.Don't Do	29	51	169	183	61
Value	S1MEDS	S2MEDS	S3MEDS	S4MEDS	S5MEDS
.d:DK	11	OZMEDO	1	6	ознаво
.m:Missing	13	6	±	10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	30	1	1	1	8
	4205	4009	4782	4847	5227
.u:Unmar	333				
.v:SP NR		131	349	280	501
0.No	9745	8568	9573	8815	6896
1.Yes	165	128	174	228	143
2.Can't Do	7	11	1	7	4
9.Don't Do	17	36	116	115	19
Value	R1SHOP	R2SHOP	R3SHOP	R4SHOP	R5SHOP
.d:DK	30		3	8	2
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	70	2	5	1	13
0.No	12858	11435	12924	12119	14362
1.Yes	693	687	1120	1153	1053
2.Can't Do	151	139	151	253	154
9.Don't Do	314	254	245	276	185
7. DON C DO	214	234	245	270	103
Value	S1SHOP	S2SHOP	S3SHOP	S4SHOP	S5SHOP
.d:DK	21		1	6	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	56	2	2		7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9207	8158	9062	8331	6462
1.Yes	379	330	567	569	450
2.Can't Do	81	72	72	112	64
9.Don't Do	231	182	162	154	86
	_4	- 0	-0		
Value		R2MEALS	R3MEALS	R4MEALS	R5MEALS
.d:DK	34	0.5	3	7	315
.m:Missing	38	25	4055	40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	81	3	5	2	14
0.No	12841	11420	13190	12560	14701
1.Yes	411	404	528	545	585
2.Can't Do	91	90	87	176	77
9.Don't Do	658	600	635	520	77
Value	S1MEALS	S2MEALS	S3MEALS	S4MEALS	S5MEALS
.d:DK	28		3	7	182
.m:Missing	13	6	Ü	10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	67	2	3	7.0	7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9053	8016	9048	8452	6578
		191		251	
1.Yes	227	45	260	251 76	236
2.Can't Do	52 549		41		28 39
9.Don't Do	548	490	511	386	39

How Constructed

These variables recode the raw variables for difficulty with instrumental activities of daily living (IADLs) as they appear in the MHAS data except for missing values and accounting for skip patterns. The IADLs include managing money (RwMONEY), taking medications (RwMEDS), shopping for groceries (RwSHOP), and

preparing meals (RwMEALS). All the Rw[iadl] variables are set to 0 if the response is "no" difficulty; 1 if the response is "yes"; and 2 or 9 if the response is "can't do" or "don't do", respectively. RwMONEY, RwMEDS, RwSHOP, and RwMEALS are assigned special missing values .d for "don't know", .r for refusals, and .p for proxy interviews. If the Respondent answers "can't do" or "don't do" to the first question, the second question asks if this is because of a health problem. If it is because of a health problem, Rw[iadl] is set to 2 for "can't do". If not, the answer is considered a "don't do" response and Rw[iadl] is set to 9. If the answer is otherwise missing, then these variables are assigned special missing .m. RwMONEY, RwMEDS, RwSHOP, and RwMEALS are set to plain missing (.) for respondents who did not respond to the current wave.

SwMONEY, SwMEDS, SwSHOP, and SwMEALS indicate whether the respondent's spouse reported any difficulty with instrumental activities of daily living and are taken directly from the spouse's RwMONEY, RwMEDS, RwSHOP, and RwMEALS variables, respectively. In addition to the special missing codes used in the Rw[iadl] variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS does not include the instrumental activities of daily living (IADLs) regarding using the phone and using a map.

The HRS includes an additional question after the initial taking medication question if the respondent answered don't do to the first question. For these respondents the HRS asks "Do you think you would have any difficulty taking medications if you needed to do so?" If the respondent answered no, RwMEDS in the RAND HRS is set to .z to indicate the respondent doesn't take medications but says they wouldn't have difficulty if they did. If the respondent answered yes, they are then asked the follow up question of whether this is because of a health problem. For respondents who answered that they would have difficulty taking medication and answered that this was because of a health problem, RwMEDS in the RAND HRS is set to 1 for "yes". For respondents who answered that they would have difficulty taking medication and answered that this was not because of a health problem, RwMEDS in the RAND HRS is set to 9 for "don't do". The MHAS does not include a question about whether the respondent would have difficulty taking medication if they don't take medication so RwMEDS in the Harmonized MHAS does include any recoding based on this sort of question.

MHAS Variables Used

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Wave 1:
   H26 1
                    hot meal
   H27 1
                    shopping
   H28 1
                    taking medication
   H29 1
                    managing money
Wave 2:
   H26A
                   trouble preparing hot food
   H27A
                    trouble shopping
   H28A
                    trouble taking medicine
   H29A
                    trouble managing money
Wave 3:
   H26A 12
                    Difficulty preparing hot food
   H27A_12
                    Difficulty shopping
   H28A_12
                    Difficulty taking medications
                    Difficulty managing money
   H29A 12
Wave 4:
   H26A 15
                    Because of health problem, does respondent have any dif
                    Because of health problem, does respondent have any dif
   H27A 15
   H28A 15
                    Because of health problem, does respondent have any dif
                    Because of health problem, does respondent have any dif
   H29A 15
Wave 5:
   H26A 18
                    Because of health problem, does R have any difficulty p
```

H27A_18	Because	of	health	problem,	does	R	have	any	difficulty s
H28A_18	Because	of	health	problem,	does	R	have	any	difficulty t
H29A_18	Because	of	health	problem,	does	R	have	any	difficulty m

Instrumental Activities of Daily Living (IADLs): Some Difficulty

Wave	Variable	Label	Туре
1	R1MONEYA	rlmoneya: w1 R Some difficulty-Managing money	Categ
	R2MONEYA	r2moneya: w2 R Some difficulty-Managing money	Categ
	R3MONEYA	r3moneya: w3 R Some difficulty-Managing money	Categ
	R4MONEYA	r4moneya: w4 R Some difficulty-Managing money	Categ
	R5MONEYA	r5moneya: w5 R Some difficulty-Managing money	Categ
Ū	1101101112111	Tomonoga. We it some ullifedity handying money	ouseg
1	S1MONEYA	slmoneya: w1 S Some difficulty-Managing money	Categ
2	S2MONEYA	s2moneya: w2 S Some difficulty-Managing money	Categ
3	S3MONEYA	s3moneya: w3 S Some difficulty-Managing money	Categ
4	S4MONEYA	s4moneya: w4 S Some difficulty-Managing money	Categ
5	S5MONEYA	s5moneya: w5 S Some difficulty-Managing money	Categ
1	R1MEDSA	rlmedsa: w1 R Some difficulty-Taking medications	Categ
	R2MEDSA	r2medsa: w2 R Some difficulty-Taking medications	Categ
	R3MEDSA	r3medsa: w3 R Some difficulty-Taking medications	Categ
	R4MEDSA	r4medsa: w4 R Some difficulty-Taking medications	Categ
5	R5MEDSA	r5medsa: w5 R Some difficulty-Taking medications	Categ
J	KJMEDJA	iomedia. Wo k some difficulty faking medications	categ
1	S1MEDSA	slmedsa: w1 S Some difficulty-Taking medications	Categ
2	S2MEDSA	s2medsa: w2 S Some difficulty-Taking medications	Categ
3	S3MEDSA	s3medsa: w3 S Some difficulty-Taking medications	Categ
4	S4MEDSA	s4medsa: w4 S Some difficulty-Taking medications	Categ
5	S5MEDSA	s5medsa: w5 S Some difficulty-Taking medications	Categ
1	R1SHOPA	rlshopa: w1 R Some difficulty-Shopping for groceries	Categ
	R2SHOPA	r2shopa: w2 R Some difficulty-Shopping for groceries	Categ
	R3SHOPA	r3shopa: w3 R Some difficulty-Shopping for groceries	Categ
	R4SHOPA	r4shopa: w4 R Some difficulty-Shopping for groceries	_
5	R5SHOPA	r5shopa: w5 R Some difficulty-Shopping for groceries	Categ Categ
J	KJSHOFA	issnopa. ws k some difficulty-snopping for groceffes	categ
1	S1SHOPA	slshopa: w1 S Some difficulty-Shopping for groceries	Categ
2	S2SHOPA	s2shopa: w2 S Some difficulty-Shopping for groceries	Categ
3	S3SHOPA	s3shopa: w3 S Some difficulty-Shopping for groceries	Categ
4	S4SHOPA	s4shopa: w4 S Some difficulty-Shopping for groceries	Categ
5	S5SHOPA	s5shopa: w5 S Some difficulty-Shopping for groceries	Categ
1	R1MEALSA	rlmealsa: w1 R Some difficulty-Preparing hot meals	Categ
	R2MEALSA	r2mealsa: w2 R Some difficulty-Preparing hot meals	Categ
	R3MEALSA	r3mealsa: w3 R Some difficulty-Preparing hot meals	Categ
	R4MEALSA	r4mealsa: w4 R Some difficulty-Preparing hot meals	Categ
5	R5MEALSA	r5mealsa: w5 R Some difficulty-Preparing not meals	Categ
J	KOLIDADOA	Tomedida. Wo k dome difficulty frepairing not meats	categ
1	S1MEALSA	slmealsa: w1 S Some difficulty-Preparing hot meals	Categ
2	S2MEALSA	s2mealsa: w2 S Some difficulty-Preparing hot meals	Categ
3	S3MEALSA	s3mealsa: w3 S Some difficulty-Preparing hot meals	Categ
4	S4MEALSA	s4mealsa: w4 S Some difficulty-Preparing hot meals	Categ
5	S5MEALSA	s5mealsa: w5 S Some difficulty-Preparing hot meals	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MONEYA	14012	0.02	0.15	0.00	1.00
R2MONEYA	12485	0.02	0.15	0.00	1.00
R3MONEYA	14399	0.02	0.15	0.00	1.00
R4MONEYA	13739	0.03	0.17	0.00	1.00
R5MONEYA	15720	0.02	0.15	0.00	1.00

S1MONEYA	9905	0.02	0.13	0.00	1.00	
S2MONEYA	8725	0.02	0.13	0.00	1.00	
S3MONEYA	9838	0.02	0.14	0.00	1.00	
S4MONEYA	9129	0.02	0.15	0.00	1.00	
S5MONEYA	7049	0.02	0.15	0.00	1.00	
00110112111	, 5 13	0.02	0.10	0.00	1.00	
R1MEDSA	14027	0.02	0.15	0.00	1.00	
R2MEDSA	12465	0.02	0.15	0.00	1.00	
R3MEDSA	14276	0.02	0.15	0.00	1.00	
R4MEDSA	13619	0.03	0.18	0.00	1.00	
R5MEDSA	15692	0.02	0.15	0.00	1.00	
ROHEBBH	10032	0.02	0.10	0.00	1.00	
S1MEDSA	9917	0.02	0.13	0.00	1.00	
S2MEDSA	8707	0.02	0.13	0.00	1.00	
S3MEDSA	9748	0.02	0.13	0.00	1.00	
S4MEDSA	9050	0.03	0.16	0.00	1.00	
S5MEDSA	7043	0.02	0.14	0.00	1.00	
R1SHOPA	13702	0.06	0.24	0.00	1.00	
R2SHOPA	12261	0.07	0.25	0.00	1.00	
R3SHOPA	14195	0.09	0.29	0.00	1.00	
R4SHOPA	13525	0.10	0.31	0.00	1.00	
R5SHOPA	15569	0.08	0.27	0.00	1.00	
S1SHOPA	9667	0.05	0.21	0.00	1.00	
S2SHOPA	8560	0.05	0.21	0.00	1.00	
S3SHOPA	9701	0.07	0.25	0.00	1.00	
S4SHOPA	9012	0.08	0.26	0.00	1.00	
S5SHOPA	6976	0.07	0.26	0.00	1.00	
R1MEALSA	13343	0.04	0.19	0.00	1.00	
R2MEALSA	11914	0.04	0.20	0.00	1.00	
R3MEALSA	13805	0.04	0.21	0.00	1.00	
R4MEALSA	13281	0.05	0.23	0.00	1.00	
R5MEALSA	15363	0.04	0.20	0.00	1.00	
S1MEALSA	9332	0.03	0.17	0.00	1.00	
S2MEALSA	8252	0.03	0.17	0.00	1.00	
S3MEALSA	9349	0.03	0.18	0.00	1.00	
S4MEALSA	8779	0.04	0.19	0.00	1.00	
S5MEALSA	6842	0.04	0.19	0.00	1.00	

Categorical Variable Codes

Value	R1MONEYA	R2MONEYA	R3MONEYA	R4MONEYA	R5MONEYA
.d:DK	17		8	7	2
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	47	2	1	2	13
.x:Doesn't do	40	31	40	62	34
0.No	13693	12205	14056	13321	15350
1.Yes	319	280	343	418	370
Value	S1MONEYA	S2MONEYA	S3MONEYA	S4MONEYA	S5MONEYA
.d:DK	13		4	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	33	2			7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	24	17	24	38	14
0.No	9747	8577	9650	8922	6887
1.Yes	158	148	188	207	162
Value	R1MEDSA	R2MEDSA	R3MEDSA	R4MEDSA	R5MEDSA
.d:DK	16		1	6	3

.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	4 4	1	2	2	13
.x:Doesn't do	29	51	169	183	61
0.No	13692	12193	13944	13143	15328
1.Yes	335	272	332	476	364
Value	S1MEDSA	S2MEDSA	S3MEDSA	S4MEDSA	S5MEDSA
.d:DK	11		1	6	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	30	1	1	1	8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	17	36	116	115	19
0.No	9745	8568	9573	8815	6896
1.Yes	172	139	175	235	147
Value	R1SHOPA	R2SHOPA	R3SHOPA	R4SHOPA	R5SHOPA
.d:DK	30		3	8	2
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	70	2	5	1	13
.x:Doesn't do	314	254	245	276	185
0.No	12858	11435	12924	12119	14362
1.Yes	844	826	1271	1406	1207
	-1				
Value	S1SHOPA	S2SHOPA	S3SHOPA	S4SHOPA	S5SHOPA
.d:DK	21	6	1	6	1
.m:Missing	13	6	706	10	5
.p:Proxy interview, not asked	660	814	726	470	563
.r:Refuse	56	2	2	4047	7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	231	182	162	154	86
0.No	9207	8158	9062	8331	6462
1.Yes	460	402	639	681	514
Value	R1MEALSA	R2MEALSA	R3MEALSA	R4MEALSA	R5MEALSA
.d:DK	34	T(ZIIDIIDOII	3	7	315
.m:Missing	38	25	9	40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	81	3	5	2	14
.x:Doesn't do	658	600	635	520	77
0.No	12841	11420	13190	12560	14701
1.Yes	502	494	615	721	662
1.100	002		010	,21	002
Value	S1MEALSA	S2MEALSA	S3MEALSA	S4MEALSA	S5MEALSA
.d:DK	28		3	7	182
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	814	726	470	563
r:Refuse	67	2	3		7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	548	490	511	386	39
0.No	9053	8016	9048	8452	6578
1.Yes	279	236	301	327	264

How Constructed

These variables indicate difficulty with instrumental activities of daily living (IADLs). The IADL variables include managing money (RwMONEYA), taking medications (RwMEDSA), shopping for groceries (RwSHOPA), and preparing meals (RwMEALSA). A code of 0 indicates that the respondent did not report any problems with the activity. A code of 1 indicates that either the respondent reported some difficulty with the activity or the respondent answered "Can't Do" or "Don't do" to the initial question about the activity and they answered that this was because of a health problem in the follow-up question. A special missing value of .x indicates that the respondent answered "Can't Do" or "Don't do" to the initial question about the activity and they answered that this was not because of a health problem in the follow-up question. When respondents indicated "don't know" or refused to answer the Rw[iadl]A variables are assigned special missing values .d or .r, respectively. RwMONEYA, RwMEDSA, RwSHOPA, and RwMEALSA are

set to special missing .p for proxy interviews, to .m for other missing answers, and to plain missing (.) for respondents who did not respond to the current wave.

SwMONEYA, SwMEDSA, SwSHOPA, and SwMEALSA indicate whether the respondent's spouse reported any difficulty with each one of these instrumental activities of daily living and are taken directly from the spouse's Rw[iadl]A variables, respectively. In addition to the special missing codes used in the Rw[iadl]A variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

These variables are used to construct a number of IADL summary indices. Please see "IADLs Summary" and "Other Summary Indices".

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS does not include the instrumental activities of daily living (IADLs) regarding using the phone and using a map.

The HRS includes an additional question after the initial taking medication question if the respondent answered don't do to the first question. For these respondents the HRS asks "Do you think you would have any difficulty taking medications if you needed to do so?" If the respondent answered no, RwMEDSA in the RAND HRS is set to .z to indicate the respondent doesn't take medications but says they wouldn't have difficulty if they did. If the respondent answered yes, they are then asked the follow up question of whether this is because of a health problem. For respondents who answered that they would have difficulty taking medication and answered that this was because of a health problem, RwMEDSA in the RAND HRS is set to 1 for "yes". For respondents who answered that they would have difficulty taking medication and answered that this was not because of a health problem, RwMEDSA in the RAND HRS is set to .x. The MHAS does not include a question about whether the respondent would have difficulty taking medication if they don't take medication so RwMEDSA in the Harmonized MHAS does include any recoding based on this sort of question.

MHAS Variables Used

```
Wave 1:
   H26 1
                    hot meal
                    health prevents preparing hot meal
   H26 2
   H27_1
                    shopping
   H27
                    health prevents shopping
   H28 1
                    taking medication
   H28 2
                    health prevents taking medication
   H29 1
                    managing money
   H29 2
                    health prevents managing money
Wave 2:
   H26A
                   trouble preparing hot food
   H26B
                   this is due to a health problem
   H27A
                    trouble shopping
   H27B
                   this is due to a health problem
   H28A
                    trouble taking medicine
   H28B
                    this is due to a health problem
   H29A
                    trouble managing money
   H29B
                    this is due to a health problem
Wave 3:
   H26A 12
                    Difficulty preparing hot food
   H26B 12
                    Difficulty preparing hot food due to a health problem
   H27A 12
                    Difficulty shopping
   H27B 12
                    Difficulty shopping due to a health problem
   H28A 12
                    Difficulty taking medications
   H28B 12
                    Difficulty taking medications due to a health problem
   H29A 12
                    Difficulty managing money
```

H29B_12 Wave 4:	Difficulty managing money due to a health problem
H26A 15	Because of health problem, does respondent have any dif
H26B 15	Is this (difficulty preparing a hot meal) because of a
H27A 15	
	Because of health problem, does respondent have any dif
H27B_15	Is this (shopping for groceries) because of a health pr
H28A_15	Because of health problem, does respondent have any dif
H28B 15	Is this (taking medications) because of a health proble
H29A_15	Because of health problem, does respondent have any dif
H29B_15	Is this (managing his/her money) because of a health pr
Wave 5:	
H26A 18	Because of health problem, does R have any difficulty p
H26B_18	Is this (difficulty preparing a hot meal) because of a
H27A 18	Because of health problem, does R have any difficulty s
H27B 18	Is this (difficulty shopping for groceries) because of
H28A 18	Because of health problem, does R have any difficulty t
H28B 18	Is this (difficulty taking medications) because of a he
H29A 18	Because of health problem, does R have any difficulty m
H29B_18	Is this (difficulty managing his/her money) because of

Other Functional Limitations: Raw Recodes

Wave	Variable	Label	Туре
1	R1WALKS	rlwalks: w1 R Difficulty-Walking several blocks	Categ
	R2WALKS	r2walks: w2 R Difficulty-Walking several blocks	Categ
	R3WALKS	r3walks: w3 R Difficulty-Walking several blocks	Categ
	R4WALKS	r4walks: w4 R Difficulty-Walking several blocks	Categ
5	R5WALKS	r5walks: w5 R Difficulty-Walking several blocks	Categ
J	KJWALKS		categ
	S1WALKS	slwalks: w1 S Difficulty-Walking several blocks	Categ
	S2WALKS	s2walks: w2 S Difficulty-Walking several blocks	Categ
	S3WALKS	s3walks: w3 S Difficulty-Walking several blocks	Categ
4	S4WALKS	s4walks: w4 S Difficulty-Walking several blocks	Categ
5	S5WALKS	s5walks: w5 S Difficulty-Walking several blocks	Categ
	R1JOG	rljog: w1 R Difficulty-Run/Jogging one km	Categ
	R2JOG	r2jog: w2 R Difficulty-Run/Jogging one km	Categ
3	R3JOG	r3jog: w3 R Difficulty-Run/Jogging one km	Categ
4	R4JOG	r4jog: w4 R Difficulty-Run/Jogging one km	Categ
5	R5JOG	r5jog: w5 R Difficulty-Run/Jogging one km	Categ
	S1JOG	sljog: w1 S Difficulty-Run/Jogging one km	Categ
2	S2JOG	s2jog: w2 S Difficulty-Run/Jogging one km	Categ
3	S3JOG	s3jog: w3 S Difficulty-Run/Jogging one km	Categ
4	S4JOG	s4jog: w4 S Difficulty-Run/Jogging one km	Categ
5	S5JOG	s5jog: w5 S Difficulty-Run/Jogging one km	Categ
1	R1WALK1	rlwalk1: w1 R Difficulty-Walking one block	Categ
	R2WALK1	r2walk1: w2 R Difficulty-Walking one block	Categ
	R3WALK1	r3walk1: w3 R Difficulty-Walking one block	Categ
4	R4WALK1	r4walk1: w4 R Difficulty-Walking one block	Categ
	R5WALK1	r5walk1: w5 R Difficulty-Walking one block	Categ
1	S1WALK1	slwalk1: w1 S Difficulty-Walking one block	Categ
2	S2WALK1	s2walk1: w2 S Difficulty-Walking one block	Categ
3	S3WALK1	s3walk1: w3 S Difficulty-Walking one block	Categ
4	S4WALK1	s4walk1: w4 S Difficulty-Walking one block	Categ
5	S5WALK1	s5walk1: w5 S Difficulty-Walking one block	Categ
1	R1SIT	rlsit: w1 R Difficulty-Sitting for 2 hours	Categ
	R2SIT	r2sit: w2 R Difficulty-Sitting for 2 hours	Categ
	R3SIT	r3sit: w3 R Difficulty-Sitting for 2 hours	Categ
	R4SIT	r4sit: w4 R Difficulty-Sitting for 2 hours	Categ
5	R5SIT	r5sit: w5 R Difficulty-Sitting for 2 hours	Categ
1	S1SIT	s1sit: w1 S Difficulty-Sitting for 2 hours	Categ
	S2SIT	s2sit: w2 S Difficulty-Sitting for 2 hours	Categ
	S3SIT	s3sit: w3 S Difficulty-Sitting for 2 hours	Categ
	S4SIT	s4sit: w4 S Difficulty-Sitting for 2 hours	_
	S5SIT	s5sit: w4 S Difficulty-Sitting for 2 hours	Categ
3	22211	sosit: wo s difficulty-sitting for z hours	Categ
	R1CHAIR	rlchair: w1 R Difficulty-Getting up from chair	Categ
	R2CHAIR	r2chair: w2 R Difficulty-Getting up from chair	Categ
3	R3CHAIR	r3chair: w3 R Difficulty-Getting up from chair	Categ
	R4CHAIR	r4chair: w4 R Difficulty-Getting up from chair	Categ
5	R5CHAIR	r5chair: w5 R Difficulty-Getting up from chair	Categ
	S1CHAIR	slchair: w1 S Difficulty-Getting up from chair	Categ
	S2CHAIR	s2chair: w2 S Difficulty-Getting up from chair	Categ
3	S3CHAIR	s3chair: w3 S Difficulty-Getting up from chair	Categ
4	S4CHAIR	s4chair: w4 S Difficulty-Getting up from chair	Categ
5	S5CHAIR	s5chair: w5 S Difficulty-Getting up from chair	Categ

1	D1CT TMC	mislime. vil D Difficulty Climbing con file stains	Catas
1	R1CLIMS	rlclims: w1 R Difficulty-Climbing sev flts stairs	Categ
2	R2CLIMS	r2clims: w2 R Difficulty-Climbing sev flts stairs	Categ
			_
3	R3CLIMS	r3clims: w3 R Difficulty-Climbing sev flts stairs	Categ
4	R4CLIMS	r4clims: w4 R Difficulty-Climbing sev flts stairs	Categ
			_
5	R5CLIMS	r5clims: w5 R Difficulty-Climbing sev flts stairs	Categ
			5
1	S1CLIMS	s1clims: w1 S Difficulty-Climbing sev flts stairs	Categ
		<u> </u>	_
2	S2CLIMS	s2clims: w2 S Difficulty-Climbing sev flts stairs	Categ
3	S3CLIMS	s3clims: w3 S Difficulty-Climbing sev flts stairs	Cator
			Categ
4	S4CLIMS	s4clims: w4 S Difficulty-Climbing sev flts stairs	Categ
			_
5	S5CLIMS	s5clims: w5 S Difficulty-Climbing sev flts stairs	Categ
1	R1CLIM1	rlclim1: w1 R Difficulty-Climbing one flt stairs	Categ
2	R2CLIM1		_
2	RZCLIMI	r2clim1: w2 R Difficulty-Climbing one flt stairs	Categ
3	R3CLIM1	r3clim1: w3 R Difficulty-Climbing one flt stairs	Categ
			_
4	R4CLIM1	r4clim1: w4 R Difficulty-Climbing one flt stairs	Categ
5	R5CLIM1	r5clim1: w5 R Difficulty-Climbing one flt stairs	Categ
J	КЭСШТИ	13c11m1. W3 N Difficulty Climbing one fit Staffs	categ
1	C1CT TM1	clalim1. v1 C Difficulty_Climbing one flt stains	Catas
1	S1CLIM1	s1clim1: w1 S Difficulty-Climbing one flt stairs	Categ
2	S2CLIM1	s2clim1: w2 S Difficulty-Climbing one flt stairs	Categ
			_
3	S3CLIM1	s3clim1: w3 S Difficulty-Climbing one flt stairs	Categ
4	S4CLIM1	s4clim1: w4 S Difficulty-Climbing one flt stairs	Categ
			categ
5	S5CLIM1	s5clim1: w5 S Difficulty-Climbing one flt stairs	Categ
~	· 		9
1	R1STOOP	r1stoop: w1 R Difficulty-Stoop/kneel/crouching	Categ
			_
2	R2STOOP	r2stoop: w2 R Difficulty-Stoop/kneel/crouching	Categ
3	R3STOOP		Catas
3	R35100P	r3stoop: w3 R Difficulty-Stoop/kneel/crouching	Categ
4	R4STOOP	r4stoop: w4 R Difficulty-Stoop/kneel/crouching	Categ
			_
5	R5STOOP	r5stoop: w5 R Difficulty-Stoop/kneel/crouching	Categ
_			
1	S1STOOP	s1stoop: w1 S Difficulty-Stoop/kneel/crouching	Categ
2	S2STOOP	s2stoop: w2 S Difficulty-Stoop/kneel/crouching	Categ
			_
3	S3STOOP	s3stoop: w3 S Difficulty-Stoop/kneel/crouching	Categ
4			_
	S4STOOP	s4stoop: w4 S Difficulty-Stoop/kneel/crouching	Categ
5	S5STOOP	s5stoop: w5 S Difficulty-Stoop/kneel/crouching	Categ
Ŭ	5051001	seeded. we a difficulty accept, most, crodening	oaccg
1	R1LIFT	rllift: w1 R Difficulty-Lift/carrying 5 kgs	Categ
			_
2	R2LIFT	r2lift: w2 R Difficulty-Lift/carrying 5 kgs	Categ
3	R3LIFT	r3lift: w3 R Difficulty-Lift/carrying 5 kgs	_
)	KULLI		Categ
4	R4LIFT	r4lift: w4 R Difficulty-Lift/carrying 5 kgs	Categ
			_
5	R5LIFT	r5lift: w5 R Difficulty-Lift/carrying 5 kgs	Categ
-	01.7.7.7	-1116by v1 0 Dissipalty 7161/	a .
1	S1LIFT	sllift: w1 S Difficulty-Lift/carrying 5 kgs	Categ
2	S2LIFT	s2lift: w2 S Difficulty-Lift/carrying 5 kgs	Categ
3	S3LIFT	s3lift: w3 S Difficulty-Lift/carrying 5 kgs	Categ
4			
		allift. Tal C Difficultur-Tift/connuing 5 1000	_
	S4LIFT	s4lift: w4 S Difficulty-Lift/carrying 5 kgs	Categ
5			_
	S4LIFT	<pre>s4lift: w4 S Difficulty-Lift/carrying 5 kgs s5lift: w5 S Difficulty-Lift/carrying 5 kgs</pre>	Categ
	S4LIFT		Categ
5	S4LIFT S5LIFT	s5lift: w5 S Difficulty-Lift/carrying 5 kgs	Categ Categ
5 1	S4LIFT S5LIFT R1DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin	Categ Categ Categ
5 1	S4LIFT S5LIFT	s5lift: w5 S Difficulty-Lift/carrying 5 kgs	Categ Categ
5 1 2	S4LIFT S5LIFT R1DIME R2DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin	Categ Categ Categ Categ
5 1 2 3	S4LIFT S5LIFT R1DIME R2DIME R3DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin	Categ Categ Categ Categ Categ
5 1 2	S4LIFT S5LIFT R1DIME R2DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin	Categ Categ Categ Categ
5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ
5 1 2 3	S4LIFT S5LIFT R1DIME R2DIME R3DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin	Categ Categ Categ Categ Categ
5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME S5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin s5dime: w5 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME S5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin s5dime: w5 S Difficulty-Picking up a coin	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME S5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin s5dime: w5 S Difficulty-Picking up a coin r1arms: w1 R Difficulty-Reach/extending arms up	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME S5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin s5dime: w5 S Difficulty-Picking up a coin r1arms: w1 R Difficulty-Picking up a coin r1arms: w1 R Difficulty-Reach/extending arms up r2arms: w2 R Difficulty-Reach/extending arms up	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME S4DIME S5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin s5dime: w5 S Difficulty-Picking up a coin r1arms: w1 R Difficulty-Picking up a coin r1arms: w1 R Difficulty-Reach/extending arms up r2arms: w2 R Difficulty-Reach/extending arms up	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ
5 1 2 3 4 5 1 2 3 4 5	S4LIFT S5LIFT R1DIME R2DIME R3DIME R4DIME R5DIME S1DIME S2DIME S3DIME S4DIME S5DIME	s5lift: w5 S Difficulty-Lift/carrying 5 kgs r1dime: w1 R Difficulty-Picking up a coin r2dime: w2 R Difficulty-Picking up a coin r3dime: w3 R Difficulty-Picking up a coin r4dime: w4 R Difficulty-Picking up a coin r5dime: w5 R Difficulty-Picking up a coin s1dime: w1 S Difficulty-Picking up a coin s2dime: w2 S Difficulty-Picking up a coin s3dime: w3 S Difficulty-Picking up a coin s4dime: w4 S Difficulty-Picking up a coin s5dime: w5 S Difficulty-Picking up a coin r1arms: w1 R Difficulty-Reach/extending arms up	Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ Categ

4 5	R4ARMS R5ARMS			Difficulty-Reach/extending arms up Difficulty-Reach/extending arms up	Categ Categ
1 2 3 4 5	S1ARMS S2ARMS S3ARMS S4ARMS S5ARMS	s2arms: s3arms: s4arms:	w2 S w3 S w4 S	Difficulty-Reach/extending arms up Difficulty-Reach/extending arms up Difficulty-Reach/extending arms up Difficulty-Reach/extending arms up Difficulty-Reach/extending arms up	Categ Categ Categ Categ Categ
1 2 3 4 5	R1PUSH R2PUSH R3PUSH R4PUSH R5PUSH	r2push: r3push: r4push:	w2 R w3 R w4 R	Difficulty-Push/pulling large objects	Categ Categ Categ Categ Categ
1 2 3 4 5	S1PUSH S2PUSH S3PUSH S4PUSH S5PUSH	s2push: s3push: s4push:	w2 S w3 S w4 S	Difficulty-Push/pulling large objects	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKS	14098	0.30	0.80	0.00	9.00
R2WALKS	12500	0.33	0.93	0.00	9.00
R3WALKS	14444	0.32	0.76	0.00	9.00
R4WALKS	13804	0.39	1.00	0.00	9.00
R5WALKS	15763	0.30	0.73	0.00	9.00
S1WALKS	9964	0.26	0.73	0.00	9.00
S2WALKS	8736	0.28	0.82	0.00	9.00
S3WALKS	9865	0.27	0.67	0.00	9.00
S4WALKS	9167	0.33	0.87	0.00	9.00
S5WALKS	7066	0.31	0.64	0.00	9.00
R1JOG	13931	2.26	3.42	0.00	9.00
R2JOG	12431	2.35	3.46	0.00	9.00
R3JOG	14393	1.68	2.90	0.00	9.00
R4JOG	13790	1.90	3.06	0.00	9.00
R5JOG	15730	1.14	2.27	0.00	9.00
S1JOG	9845	2.20	3.41	0.00	9.00
S2JOG	8689	2.27	3.44	0.00	9.00
S3JOG	9828	1.61	2.87	0.00	9.00
S4JOG	9160	1.80	3.03	0.00	9.00
S5JOG	7047	1.16	2.25	0.00	9.00
R1WALK1	13999	0.16	0.73	0.00	9.00
R2WALK1	12500	0.16	0.75	0.00	9.00
R3WALK1	14443	0.15	0.56	0.00	9.00
R4WALK1	13804	0.19	0.72	0.00	9.00
R5WALK1	15761	0.16	0.56	0.00	9.00
S1WALK1	9894	0.13	0.68	0.00	9.00
S2WALK1	8736	0.13	0.62	0.00	9.00
S3WALK1	9864	0.12	0.46	0.00	9.00
S4WALK1	9167	0.15	0.61	0.00	9.00
S5WALK1	7065	0.16	0.53	0.00	9.00
R1SIT	14094	0.21	0.65	0.00	9.00
R2SIT	12501	0.18	0.55	0.00	9.00
R3SIT	14445	0.23	0.65	0.00	9.00

R4SIT	13801	0.24	0.62	0.00	9.00
R5SIT	15763	0.22	0.54	0.00	9.00
S1SIT	9958	0.19	0.63	0.00	9.00
S2SIT	8737	0.17	0.56	0.00	9.00
S3SIT	9864	0.21	0.64	0.00	9.00
S4SIT	9166	0.22	0.58	0.00	9.00
SSSIT	7066	0.22	0.50	0.00	9.00
22211	7000	0.22	0.30	0.00	9.00
R1CHAIR	14095	0.29	0.58	0.00	9.00
R2CHAIR	12499	0.25	0.54	0.00	9.00
R3CHAIR	14446	0.31	0.55	0.00	9.00
R4CHAIR	13803	0.36	0.60	0.00	9.00
R5CHAIR	15762	0.34	0.59	0.00	9.00
C1 CIIA TD	0.05.0	0 27	0 57	0.00	0.00
S1CHAIR	9959	0.27	0.57	0.00	9.00
S2CHAIR	8736	0.23	0.53	0.00	9.00
S3CHAIR	9865	0.29	0.57	0.00	9.00
S4CHAIR	9167	0.34	0.55	0.00	9.00
S5CHAIR	7065	0.34	0.55	0.00	9.00
R1CLIMS	13915	1.32	2.64	0.00	9.00
R2CLIMS	12437	1.42	2.80	0.00	9.00
R3CLIMS	14416	1.13	2.38	0.00	9.00
R4CLIMS	13794	1.14	2.32	0.00	9.00
R5CLIMS	15696	0.71	1.60	0.00	9.00
КОСПППО	13030	0.71	1.00	0.00	J.00
S1CLIMS	9828	1.29	2.66	0.00	9.00
S2CLIMS	8698	1.34	2.74	0.00	9.00
S3CLIMS	9845	1.06	2.34	0.00	9.00
S4CLIMS	9159	1.01	2.18	0.00	9.00
S5CLIMS	7029	0.73	1.62	0.00	9.00
R1CLIM1	13973	0.46	1.53	0.00	9.00
R2CLIM1	12477	0.48	1.59	0.00	9.00
R3CLIM1	14426	0.64	1.87	0.00	9.00
R4CLIM1	13798	0.61	1.75	0.00	9.00
R5CLIM1	15735	0.37	1.11	0.00	9.00
ROCLIMI	13/33	0.37	1.11	0.00	9.00
S1CLIM1	9871	0.41	1.46	0.00	9.00
S2CLIM1	8723	0.42	1.51	0.00	9.00
S3CLIM1	9853	0.59	1.82	0.00	9.00
S4CLIM1	9163	0.51	1.59	0.00	9.00
S5CLIM1	7053	0.37	1.09	0.00	9.00
R1STOOP	14095	0.40	0.78	0.00	9.00
R2STOOP	12496	0.39	0.81	0.00	9.00
R3STOOP	14445	0.47	0.82	0.00	9.00
R4STOOP	13803	0.54	0.92	0.00	9.00
R5STOOP	15760	0.46	0.79	0.00	9.00
1001	13700	0.40	0.79	0.00	J.00
S1STOOP	9958	0.37	0.74	0.00	9.00
S2STOOP	8734	0.35	0.76	0.00	9.00
S3STOOP	9865	0.42	0.74	0.00	9.00
S4STOOP	9167	0.48	0.79	0.00	9.00
S5STOOP	7064	0.48	0.76	0.00	9.00
D1TTDM	1 / 1 0 0	0.29	1 02	0.00	9.00
R1LIFT	14102		1.02		
R2LIFT	12494	0.30	1.04	0.00	9.00
R3LIFT	14442	0.37	1.14	0.00	9.00
R4LIFT	13803	0.49	1.41	0.00	9.00
R5LIFT		0.34	0.96	0.00	9.00
LATITEI	15760	0.34	0.30	0.00	9.00
S1LIFT	9967	0.23	0.87	0.00	9.00
SILLI	9901	0.20	0.0,	0.00	3.00

S2LIFT	8734	0.23	0.88	0.00	9.00	
S3LIFT	9864	0.30	0.99	0.00	9.00	
S4LIFT	9167	0.37	1.18	0.00	9.00	
S5LIFT	7065	0.32	0.89	0.00	9.00	
SOLIFT	7003	0.32	0.89	0.00	9.00	
R1DIME	14091	0.07	0.39	0.00	9.00	
R2DIME	12501	0.07	0.37	0.00	9.00	
R3DIME	14445	0.08	0.34	0.00	9.00	
R4DIME	13802	0.08	0.40	0.00	9.00	
R5DIME	15759	0.09	0.39	0.00	9.00	
S1DIME	9960	0.05	0.34	0.00	9.00	
S2DIME	8737	0.05	0.33	0.00	9.00	
S3DIME	9864	0.07	0.31	0.00	9.00	
S4DIME	9165	0.07	0.38	0.00	9.00	
S5DIME	7064	0.10	0.35	0.00	9.00	
R1ARMS	14097	0.12	0.47	0.00	9.00	
R2ARMS	12500	0.11	0.36	0.00	9.00	
R3ARMS	14446	0.14	0.39	0.00	9.00	
R4ARMS	13804	0.16	0.44	0.00	9.00	
R5ARMS	15761	0.15	0.45	0.00	9.00	
S1ARMS	9961	0.11	0.41	0.00	9.00	
S2ARMS	8736	0.09	0.31	0.00	9.00	
S3ARMS	9865	0.12	0.36	0.00	9.00	
S4ARMS	9167	0.14	0.40	0.00	9.00	
S5ARMS	7065	0.15	0.44	0.00	9.00	
R1PUSH	14098	0.35	1.19	0.00	9.00	
R2PUSH	12499	0.34	1.21	0.00	9.00	
R3PUSH	14445	0.43	1.32	0.00	9.00	
R4PUSH	13803	0.49	1.41	0.00	9.00	
R5PUSH	15757	0.35	1.05	0.00	9.00	
S1PUSH	9963	0.28	1.04	0.00	9.00	
S2PUSH	8737	0.28	1.08	0.00	9.00	
S3PUSH	9865	0.36	1.17	0.00	9.00	
S4PUSH	9166	0.39	1.22	0.00	9.00	
S5PUSH	7063	0.35	1.01	0.00	9.00	

Categorical Variable Codes

Value	R1WALKS	R2WALKS	R3WALKS	R4WALKS	R5WALKS
.d:DK	6	1	3	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	12		1	1	6
0.No	10634	9382	10487	9638	11576
1.Yes	3322	2950	3847	3893	4050
2.Can't Do	60	57	40	130	69
9.Don't Do	82	111	70	143	68
Value	S1WALKS	S2WALKS	S3WALKS	S4WALKS	S5WALKS
.d:DK	5	1	1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	6				4
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	7769	6811	7446	6722	5068
1.Yes	2116	1838	2365	2306	1956
2.Can't Do	33	31	20	73	23
9.Don't Do	46	56	34	66	19
Value	R1JOG	R2JOG	R3JOG	R4JOG	R5JOG

.d:DK	114	52	46	17	21
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	71	18	9	3	18
0.No	5102	4358	5631	4881	7215
1.Yes	5802	5170	6694	6476	7212
2.Can't Do	219	299	164	320	148
9.Don't Do	2808	2604	1904	2113	1155
		-0	-0		
Value		S2JOG	S3JOG	S4JOG	S5JOG
.d:DK	85	35	34	10	11
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	45	13	4	2	12
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	3887	3340	4191	3588	2993
1.Yes	3867	3380	4279	4026	3485
2.Can't Do	142	194	100	201	57
9.Don't Do	1949	1775	1258	1345	512
Welve.	ר דעדעדען	ר אוד אוד או	רא ד געול מ	רו או או או די דע	D E WAT 121
Valued:DK	R1WALK1	R2WALK1	R3WALK1 3	R4WALK1 5	R5WALK1 1
	•	0.5	3	40	
.m:Missing	38	25	1075		17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	91	1	2	1	7
0 . No	12476	11067	12559	11772	13695
1.Yes	1395	1311	1816	1856	1914
2.Can't Do	51	50	32	109	115
9.Don't Do	77	72	36	67	37
Value	S1WALK1	S2WALK1	S3WALK1	S4WALK1	S5WALK1
.d:DK	I 16	SZWALKI	33WALKI 1	54WALKI 5	SOWHELL
.m:Missing	13	6	Δ.	10	5
.p:Proxy interview, not asked	1 660	821	726	470	563
.r:Refuse	65	1	1	470	5
.u:Unmar	1 4205	4009	4782	4847	5227
	•				
.v:SP NR	333	131	349	280	501
0.No	8972	7929	8791	8049	6090
1.Yes	845	741	1045	1029	917
2.Can't Do	30	33	14	60	45
9.Don't Do	47	33	14	29	13
Value	R1SIT	R2SIT	R3SIT	R4SIT	R5SIT
.d:DK	i 7		2	8	1
.m:Missing	I 38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	, I 15		1	1	5
0.No	11560	10504	11594	10856	12677
1.Yes	2473	1945	2783	2890	2873
2.Can't Do	12	25	18	17	191
9.Don't Do	1 49	27	50	38	22
Value	S1SIT	S2SIT	S3SIT	S4SIT	S5SIT
.d:DK	4		2	6	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	13				3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	8318	7430	8036	7289	5652
1.Yes	1599	1271	1782	1847	1332
2.Can't Do	7	15	13	9	76
9.Don't Do	34	21	33	21	6
Value		R2CHAIR	R3CHAIR	R4CHAIR	R5CHAIR
.d:DK	7	2	1	6	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	14		1	1	7
0.No	10272	9526	10089	9058	10747
1.Yes	3784	2933	4318	4675	4837
2.Can't Do	13	22	21	46	156

9.Don't Do	26	18	18	24	22
Value	S1CHAIR	S2CHAIR	S3CHAIR	S4CHAIR	S5CHAIR
.d:DK	5	1	1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	11	4000	4700	4047	5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR 0.No	333 7459	131 6825	349 7089	280 6159	501 4756
1.Yes	2475	1885	2749	2976	2239
2.Can't Do	7	14	12	22	64
9.Don't Do	18	12	15	10	6
Value	R1CLIMS	R2CLIMS	R3CLIMS	R4CLIMS	R5CLIMS
.d:DK	115	61	30	15	33
.m:Missing	38	25	1075	40	17
<pre>.p:Proxy interview, not asked .r:Refuse</pre>	1032 86	1178 3	1275 2	929 1	1328 40
0.No	7158	6523	7491	6762	8864
1.Yes	5178	4275	5659	5715	6149
2.Can't Do	152	188	109	263	175
9.Don't Do	1427	1451	1157	1054	508
Value	S1CLIMS	S2CLIMS	S3CLIMS	S4CLIMS	S5CLIMS
.d:DK	85	36	20	13	16
.m:Missing	13	6	706	10	5
<pre>.p:Proxy interview, not asked .r:Refuse</pre>	660 62	821 3	726 1	470	563 25
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	5346	4842	5465	4875	3816
1.Yes	3370	2783	3576	3547	2903
2.Can't Do	95	115	50	138	76
9.Don't Do	1017	958	754	599	234
		-0	- 0		
Value	R1CLIM1	R2CLIM1	R3CLIM1	R4CLIM1	R5CLIM1
.d:DK	58 38	19 25	20	10 40	15 17
<pre>.m:Missing</pre>	1032	1178	1275	929	1328
.r:Refuse	85	5	2	2	19
0.No	10848	9710	10474	9831	11871
1.Yes	2631	2283	3210	3224	3455
2.Can't Do	88	89	91	205	197
9.Don't Do	406	395	651	538	212
Value	01.07.7141	00 OT TM1	0.2 GT TM1	0.407.7341	OF OT TM1
.d:DK	S1CLIM1 46	S2CLIM1 10	S3CLIM1 12	S4CLIM1 9	S5CLIM1 9
.m:Missing	13	6	12	10	5
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	58	4	1		8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	7947	7053	7474	6900	5255
1.Yes	1614	1369	1918	1870	1631
2.Can't Do	52	57 244	41 420	108 285	76 91
9.Don't Do	258	244	420	283	91
Value	R1STOOP	R2STOOP	R3STOOP	R4STOOP	R5STOOP
.d:DK	9	4	2	5	1
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	12	1	1	2	8
0.No	9071	8292	8446	7504	9238
1.Yes 2.Cap!+ Do	4844	4036 98	5785	5935	6301
2.Can't Do 9.Don't Do	112 68	98 70	134 80	256 108	142 79
J. Doll C Do	00	70	00	±00	13
Value	S1STOOP	S2STOOP	S3STOOP	S4STOOP	S5STOOP
.d:DK	7	2	1	5	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	10	1			5

	420E	4000	4700	4047	E007
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	6704	6039	6114	5264	3966
·		2598	3637	3731	
1.Yes	3148				3002
2.Can't Do	65	57	74	127	66
9.Don't Do	41	40	40	45	30
Value	R1LIFT	R2LIFT	R3LIFT	R4LIFT	R5LIFT
.d:DK	6	7	3	6	1
.m:Missing	38	25		40	17
· · · · · · · · · · · · · · · · · · ·					
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	8		3	1	8
0.No	11355	10094	10837	9855	11772
·					
1.Yes	2500	2169	3289	3395	3730
2.Can't Do	88	80	104	224	109
9.Don't Do	159	151	212	329	149
5. Don c Do	133	191	212	323	117
Value	S1LIFT	S2LIFT	S3LIFT	S4LIFT	S5LIFT
.d:DK	3	3	2	5	
·			_		_
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	5				5
		4000	4700	4047	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	8378	7364	7803	7018	5295
1.Yes	1456	1253	1907	1900	1669
2.Can't Do	53	45	51	105	46
9.Don't Do	80	72	103	144	55
3.20m 0 20	0.0	, =	100		00
Value	R1DIME	R2DIME	R3DIME	R4DIME	R5DIME
.d:DK	9		2	7	
	38	25		40	17
.m:Missing					17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	16		1	1	10
0.No	13324	11785	13391	12796	14469
1.Yes	731	683	1014	956	1217
2.Can't Do	19	21	32	35	59
9.Don't Do	17	12	8	15	14
9.0011 C 00	Ι/	12	0	13	14
Value	S1DIME	S2DIME	S3DIME	S4DIME	S5DIME
·		S2DIME			S5DIME
.d:DK	5		S3DIME 2	7	
.d:DK .m:Missing	5 13	6	2	7 10	5
.d:DK	5			7	
.d:DK .m:Missing .p:Proxy interview, not asked	5 13 660	6	2	7 10	5 563
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse	5 13 660 10	6 821	2 726	7 10 470	5 563 6
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar	5 13 660 10 4205	6 821 4009	2 726 4782	7 10 470 4847	5 563 6 5227
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse	5 13 660 10	6 821	2 726	7 10 470	5 563 6
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR	5 13 660 10 4205 333	6 821 4009 131	2 726 4782 349	7 10 470 4847 280	5 563 6 5227 501
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No	5 13 660 10 4205 333 9513	6 821 4009 131 8341	2 726 4782 349 9245	7 10 470 4847 280 8579	5 563 6 5227 501 6437
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes	5 13 660 10 4205 333 9513 431	6 821 4009 131 8341 378	2 726 4782 349 9245 596	7 10 470 4847 280 8579 557	5 563 6 5227 501 6437 600
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No	5 13 660 10 4205 333 9513	6 821 4009 131 8341	2 726 4782 349 9245	7 10 470 4847 280 8579	5 563 6 5227 501 6437
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do	5 13 660 10 4205 333 9513 431	6 821 4009 131 8341 378	2 726 4782 349 9245 596	7 10 470 4847 280 8579 557	5 563 6 5227 501 6437 600
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes	5 13 660 10 4205 333 9513 431 7	6 821 4009 131 8341 378 11	2 726 4782 349 9245 596 19	7 10 470 4847 280 8579 557 20	5 563 6 5227 501 6437 600 24
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do	5 13 660 10 4205 333 9513 431 7	6 821 4009 131 8341 378 11	2 726 4782 349 9245 596 19 4	7 10 470 4847 280 8579 557 20 9	5 563 6 5227 501 6437 600 24 3
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do	5 13 660 10 4205 333 9513 431 7 9	6 821 4009 131 8341 378 11	2 726 4782 349 9245 596 19	7 10 470 4847 280 8579 557 20	5 563 6 5227 501 6437 600 24
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do	5 13 660 10 4205 333 9513 431 7	6 821 4009 131 8341 378 11	2 726 4782 349 9245 596 19 4	7 10 470 4847 280 8579 557 20 9	5 563 6 5227 501 6437 600 24 3
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Valued:DK	5 13 660 10 4205 333 9513 431 7 9	6 821 4009 131 8341 378 11 7	2 726 4782 349 9245 596 19 4	7 10 470 4847 280 8579 557 20 9 R4ARMS 5	5 563 6 5227 501 6437 600 24 3
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Valued:DK .m:Missing	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38	6 821 4009 131 8341 378 11 7 R2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS	7 10 470 4847 280 8579 557 20 9 R4ARMS 5	5 563 6 5227 501 6437 600 24 3 R5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032	6 821 4009 131 8341 378 11 7 R2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929	5 563 6 5227 501 6437 600 24 3 R5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Valued:DK .m:Missing	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38	6 821 4009 131 8341 378 11 7 R2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS	7 10 470 4847 280 8579 557 20 9 R4ARMS 5	5 563 6 5227 501 6437 600 24 3 R5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032	6 821 4009 131 8341 378 11 7 R2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929	5 563 6 5227 501 6437 600 24 3 R5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Valued:DK .m:Missing .p:Proxy interview, not asked .r:Refuse 0.No 1.Yes 2.Can't Do 9.Don't Do	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5	7 10 470 4847 280 8579 557 20 9 84ARMS 5 40 929 1 11721 2020 53 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Valued:DK .m:Missing .p:Proxy interview, not asked .r:Refuse 0.No 1.Yes 2.Can't Do 9.Don't Do	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5	7 10 470 4847 280 8579 557 20 9 84ARMS 5 40 929 1 11721 2020 53 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Valued:DK .m:Missing .p:Proxy interview, not asked .r:Refuse 0.No 1.Yes 2.Can't Do 9.Don't Do	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5	7 10 470 4847 280 8579 557 20 9 84ARMS 5 40 929 1 11721 2020 53 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 1238 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 1238 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 1238 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205 333	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782 349	7 10 470 4847 280 8579 557 20 9 84ARMS 5 40 929 1 11721 2020 53 10 84ARMS 5 10 470	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205 333 8990	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782 349 8672	7 10 470 4847 280 8579 557 20 9 84ARMS 5 40 929 1 11721 2020 53 10 84ARMS 5 10 470 4847 280 7942	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205 333 8990 944	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS 6 821 1 4009 131 7946 777	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782 349 8672 1172	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10 470 4847 280 7942 1192	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205 333 8990 944 17	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS 6 821 1 4009 131 7946 777 12	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782 349 8672 1172 19	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10 470 4847 280 7942 1192 29	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS 5 563 5 5227 501 6071 971 17
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 0.No 1.Yes 2.Can't Do 9.Don't Do Value	5 13 660 10 4205 333 9513 431 7 9 R1ARMS 7 38 1032 12 12539 1514 23 21 S1ARMS 4 13 660 10 4205 333 8990 944	6 821 4009 131 8341 378 11 7 R2ARMS 25 1178 1 11238 1238 18 6 S2ARMS 6 821 1 4009 131 7946 777	2 726 4782 349 9245 596 19 4 R3ARMS 1 1275 1 12488 1921 32 5 S3ARMS 1 726 4782 349 8672 1172	7 10 470 4847 280 8579 557 20 9 R4ARMS 5 40 929 1 11721 2020 53 10 S4ARMS 5 10 470 4847 280 7942 1192	5 563 6 5227 501 6437 600 24 3 R5ARMS 17 1328 8 13603 2094 49 15 S5ARMS

Value	R1PUSH	R2PUSH	R3PUSH	R4PUSH	R5PUSH
.d:DK	7	2	2	5	2
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	11		1	2	10
0.No	11096	10000	10663	9838	11790
1.Yes	2680	2210	3378	3429	3677
2.Can't Do	94	77	109	206	101
9.Don't Do	228	212	295	330	189
Value	S1PUSH	S2PUSH	S3PUSH	S4PUSH	S5PUSH
.d:DK	4		1	5	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	8			1	6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	8175	7261	7641	6926	5231
1.Yes	1612	1316	2020	1978	1713
2.Can't Do	57	44	48	105	42
9.Don't Do	119	116	156	157	77

How Constructed

These variables recode the raw variables for difficulty with functional limitations other than ADLs and IADLs as they appear in the MHAS data except for missing values and accounting for skip patterns. The other functional limitations include walking several blocks (RwWALKS), running and jogging one kilometer (RwJOG), walking one block (RwWALK1), sitting for about 2 hours (RwSIT), getting up from a chair after sitting for long periods (RwCHAIR), climbing several flights of stairs without resting (RwCLIMS), climbing one flight of stairs without resting (RwCLIM1), stooping/kneeling/or crouching (RwSTOOP), reaching arms above shoulder level (RwARMS), pushing or pulling large objects (RwPUSH), lifting or carrying weights over 5 kilos (RwLIFT), and picking up a small coin (one peso) from the table (RwDIME).

A code of 0 indicates that the respondent did not report any problems with the activity. A code of 1 indicates some difficulty with the activity, and 2 or 9 indicate "can't do" or "don't do", respectively. RwWALKS, RwJOG, RwWALK1, RwSIT, RwCHAIR, RwCLIMS, RwCLIM1, RwSTOOP, RwARMS, RwPUSH, RwLIFT, and RwDIME are assigned special missing values .d for "don't know", .r for refusals, .p for proxy interviews, .m for missing, and are set to plain missing (.) for respondents who did not respond to the current wave.

SwWALKS, SwJOG, SwWALK1, SwSIT, SwCHAIR, SwCLIMS, SwCLIM1, SwSTOOP, SwARMS, SwPUSH, SwLIFT, and SwDIME indicate whether the respondent's spouse reported any difficulty with such activities and are taken directly from the spouse's RwWALKS, RwJOG, RwWALK1, RwSIT, RwCHAIR, RwCLIMS, RwCLIM1, RwSTOOP, RwARMS, RwPUSH, RwLIFT, and RwDIME variables, respectively. In addition to the special missing codes used in the respondent variables, the spouse variables employ the special missing value .u, when the respondent not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS introductory questions, respondents are asked whether they have difficulty jogging one mile. However, in the MHAS they ask if the respondent has any difficulty running or jogging one kilometer.

MHAS Variables Used

Wave 1:	
Н1	long walk
H10	pulling
H11	picking up
H12	picking up a coin
Н2	running
Н3	short walk
H4	sitting 2 hours

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H5
                    getting up
                    long climbing
   Н6
   Н7
                    short climbing
   Н8
                    bending
   Н9
                    extending arms
Wave 2:
   Н1
                    health problems-trouble walking blocks
                    health problems-trouble pushing or pulling
   H10
   H11
                    health problems-trouble carrying objects
   H12
                    health problems-trouble picking up a coin
   Н2
                    health problems-trouble running
   нЗ
                    health problems-trouble walking a block
   Η4
                    health problems-trouble staying seated
   Н5
                    health problems-trouble getting up from chair
   Н6
                    health problems-trouble with flights of stairs
   Н7
                    health problems-trouble with 1 flight of stairs
                    health problems-trouble sitting up
   Н8
   Н9
                    health problems-trouble lifting arms
Wave 3:
   H10 12
                    Because of health problem, difficulty pushing or pullin
   H11 12
                    Because of health problem, difficulty carrying objects
   H12 12
                    Because of health problem, difficulty picking up a coin
   H1 12
                    Because of health problem, difficulty walking blocks
   H2_12
                    Because of health problem, difficulty running
   H3_12
                    Because of health problem, difficulty walking a block
   H4_12
                    Because of health problem, difficulty staying seated
   H5_12
                    Because of health problem, difficulty getting up from {\sf c}
                    Because of health problem, difficulty with flights of s
   H6 12
   H7 12
                    Because of health problem, difficulty with 1 flight of
   H8 12
                    Because of health problem, difficulty sitting up
   н9 12
                    Because of health problem, difficulty lifting arms
Wave 4:
   H10 15
                    Because of health problem, does respondent have difficu
                    Because of health problem, does respondent have difficu
   H11 15
   H12 15
                    Because of health problem, does respondent have difficu
   H1 15
                    Because of health problem, does respondent have difficu
   H2_15
                    Because of health problem, does respondent have difficu
   H3_15
                    Because of health problem, does respondent have difficu
   H4_15
                    Because of health problem, does respondent have difficu
                    Because of health problem, does respondent have difficu
   H5_15
                    Because of health problem, does respondent have difficu
   H6 15
   H7<sup>-</sup>15
                    Because of health problem, does respondent have difficu
   H8 15
                    Because of health problem, does respondent have difficu
   н9 15
                    Because of health problem, does respondent have difficu
Wave 5:
   H10 18
                    Because of health problem, does R have difficulty pushi
                    Due to health problem, difficult for R to lift/carry ob
   H11 18
                    Due to health problem, does R have difficulty picking u
   H12 18
   H1 18
                    Because of health problem, does R have difficulty walki
   H2 18
                    Because of health problem, does R have difficulty runni
                    Because of health problem, does R have difficulty walki
   Н3 18
   H4_18
                    Because of health problem, does R have difficulty sitti
   H5_18
                    Due to health problem, difficult for R to get up from c
   H6_18
                    Due to health problem, hard for R to climb several flig
                    Due to health problem, difficult for R to climb 1 fligh
   H7_18
   H8 18
                    Due to health problem, does R have difficulty stooping,
   Н9 18
                    Due to health problem, difficult for R to reach/extend
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Other Functional Limitations: Some Difficulty

Wave	Variable	Label	Type
1	R1WALKSA	rlwalksa: w1 R Some difficulty-Walking several blocks	Categ
	R2WALKSA	r2walksa: w2 R Some difficulty-Walking several blocks	Categ
	R3WALKSA	r3walksa: w3 R Some difficulty-Walking several blocks	Categ
	R4WALKSA	r4walksa: w4 R Some difficulty-Walking several blocks	Categ
5	R5WALKSA	r5walksa: w5 R Some difficulty-Walking several blocks	Categ
Ü	1.0.111111111	Towarmout no it some arrivator marming several sites.	oacog
1	S1WALKSA	slwalksa: w1 S Some difficulty-Walking several blocks	Categ
2	S2WALKSA	s2walksa: w2 S Some difficulty-Walking several blocks	Categ
3	S3WALKSA	s3walksa: w3 S Some difficulty-Walking several blocks	Categ
	S4WALKSA	s4walksa: w4 S Some difficulty-Walking several blocks	Categ
5	S5WALKSA	s5walksa: w5 S Some difficulty-Walking several blocks	Categ
		The second secon	
1	R1JOGA	rljoga: w1 R Some difficulty-Run/Jogging one km	Categ
2	R2JOGA	r2joga: w2 R Some difficulty-Run/Jogging one km	Categ
3	R3JOGA	r3joga: w3 R Some difficulty-Run/Jogging one km	Categ
4	R4JOGA	r4joga: w4 R Some difficulty-Run/Jogging one km	Categ
5	R5JOGA	r5joga: w5 R Some difficulty-Run/Jogging one km	Categ
1	S1JOGA	sljoga: w1 S Some difficulty-Run/Jogging one km	Categ
2	S2JOGA	s2joga: w2 S Some difficulty-Run/Jogging one km	Categ
3	S3JOGA	s3joga: w3 S Some difficulty-Run/Jogging one km	Categ
4	S4JOGA	s4joga: w4 S Some difficulty-Run/Jogging one km	Categ
5	S5JOGA	s5joga: w5 S Some difficulty-Run/Jogging one km	Categ
	R1WALK1A	rlwalkla: w1 R Some difficulty-Walking one block	Categ
	R2WALK1A	r2walk1a: w2 R Some difficulty-Walking one block	Categ
	R3WALK1A	r3walk1a: w3 R Some difficulty-Walking one block	Categ
4	R4WALK1A	r4walk1a: w4 R Some difficulty-Walking one block	Categ
5	R5WALK1A	r5walk1a: w5 R Some difficulty-Walking one block	Categ
1	01537 1 1/1 7	alualbla, al C Cama difficulty Walking and black	0-1
	S1WALK1A	slwalkla: w1 S Some difficulty-Walking one block	Categ
2 3	S2WALK1A	s2walk1a: w2 S Some difficulty-Walking one block	Categ
	S3WALK1A	s3walk1a: w3 S Some difficulty-Walking one block	Categ
4 5	S4WALK1A	s4walk1a: w4 S Some difficulty-Walking one block	Categ
5	S5WALK1A	s5walk1a: w5 S Some difficulty-Walking one block	Categ
1	R1SITA	rlsita: wl R Some difficulty-Sitting for 2 hours	Categ
	R2SITA	r2sita: w2 R Some difficulty-Sitting for 2 hours	Categ
	R3SITA	r3sita: w3 R Some difficulty-Sitting for 2 hours	Categ
	R4SITA	r4sita: w4 R Some difficulty-Sitting for 2 hours	Categ
5	R5SITA	r5sita: w5 R Some difficulty-Sitting for 2 hours	Categ
Ü	1.001111	restrain the first difficults of second for a mount	oacog
1	S1SITA	slsita: w1 S Some difficulty-Sitting for 2 hours	Categ
2	S2SITA	s2sita: w2 S Some difficulty-Sitting for 2 hours	Categ
3	S3SITA	s3sita: w3 S Some difficulty-Sitting for 2 hours	Categ
4	S4SITA	s4sita: w4 S Some difficulty-Sitting for 2 hours	Categ
5	S5SITA	s5sita: w5 S Some difficulty-Sitting for 2 hours	Categ
			_
1	R1CHAIRA	rlchaira: w1 R Some difficulty-Getting up from chair	Categ
2	R2CHAIRA	r2chaira: w2 R Some difficulty-Getting up from chair	Categ
	R3CHAIRA	r3chaira: w3 R Some difficulty-Getting up from chair	Categ
	R4CHAIRA	r4chaira: w4 R Some difficulty-Getting up from chair	Categ
5	R5CHAIRA	r5chaira: w5 R Some difficulty-Getting up from chair	Categ
	S1CHAIRA	slchaira: w1 S Some difficulty-Getting up from chair	Categ
	S2CHAIRA	s2chaira: w2 S Some difficulty-Getting up from chair	Categ
3	S3CHAIRA	s3chaira: w3 S Some difficulty-Getting up from chair	Categ
4	S4CHAIRA	s4chaira: w4 S Some difficulty-Getting up from chair	Categ
5	S5CHAIRA	s5chaira: w5 S Some difficulty-Getting up from chair	Categ

1	R1CLIMSA	rlclimsa: w1 R Some difficulty-Climbing sev flts stairs	Categ
			categ
2	R2CLIMSA	r2climsa: w2 R Some difficulty-Climbing sev flts stairs	Categ
2	DOCTIMON		_
3	R3CLIMSA	r3climsa: w3 R Some difficulty-Climbing sev flts stairs	Categ
4	R4CLIMSA	r4climsa: w4 R Some difficulty-Climbing sev flts stairs	Categ
			_
5	R5CLIMSA	r5climsa: w5 R Some difficulty-Climbing sev flts stairs	Categ
	01 02 2102	4.11 4.0.0 11.001 11.001 11.001	~ .
1	S1CLIMSA	s1climsa: w1 S Some difficulty-Climbing sev flts stairs	Categ
2	S2CLIMSA	s2climsa: w2 S Some difficulty-Climbing sev flts stairs	Categ
			_
3	S3CLIMSA	s3climsa: w3 S Some difficulty-Climbing sev flts stairs	Categ
4	S4CLIMSA	s4climsa: w4 S Some difficulty-Climbing sev flts stairs	Categ
			_
5	S5CLIMSA	s5climsa: w5 S Some difficulty-Climbing sev flts stairs	Categ
1	R1CLIM1A	r1clim1a: w1 R Some difficulty-Climbing one flt stairs	Categ
2	R2CLIM1A	r2clim1a: w2 R Some difficulty-Climbing one flt stairs	Categ
3	R3CLIM1A	r3clim1a: w3 R Some difficulty-Climbing one flt stairs	Categ
4	R4CLIM1A	r4clim1a: w4 R Some difficulty-Climbing one flt stairs	Categ
			_
5	R5CLIM1A	r5clim1a: w5 R Some difficulty-Climbing one flt stairs	Categ
	01 0= =+11 =	4 1 4 4 6 6 11661 11 61 11 61 11	~ .
1	S1CLIM1A	s1clim1a: w1 S Some difficulty-Climbing one flt stairs	Categ
2	S2CLIM1A	s2clim1a: w2 S Some difficulty-Climbing one flt stairs	Categ
3	S3CLIM1A	s3clim1a: w3 S Some difficulty-Climbing one flt stairs	Categ
4	S4CLIM1A	s4clim1a: w4 S Some difficulty-Climbing one flt stairs	Categ
			_
5	S5CLIM1A	s5clim1a: w5 S Some difficulty-Climbing one flt stairs	Categ
_	m.d.omo		
1	R1STOOPA	rlstoopa: w1 R Some difficulty-Stoop/kneel/crouching	Categ
2	R2STOOPA	r2stoopa: w2 R Some difficulty-Stoop/kneel/crouching	Categ
			_
3	R3STOOPA	r3stoopa: w3 R Some difficulty-Stoop/kneel/crouching	Categ
4	R4STOOPA	r4stoopa: w4 R Some difficulty-Stoop/kneel/crouching	Cateq
			_
5	R5STOOPA	r5stoopa: w5 R Some difficulty-Stoop/kneel/crouching	Categ
1	S1STOOPA	s1stoopa: w1 S Some difficulty-Stoop/kneel/crouching	Categ
2	S2STOOPA	s2stoopa: w2 S Some difficulty-Stoop/kneel/crouching	Categ
			_
3	S3STOOPA	s3stoopa: w3 S Some difficulty-Stoop/kneel/crouching	Categ
4	S4STOOPA	s4stoopa: w4 S Some difficulty-Stoop/kneel/crouching	Categ
			_
5	S5STOOPA	s5stoopa: w5 S Some difficulty-Stoop/kneel/crouching	Categ
1	R1LIFTA	rllifta: wl R Some difficulty-Lift/carrying 5 kgs	Categ
2	R2LIFTA	r2lifta: w2 R Some difficulty-Lift/carrying 5 kgs	Categ
			_
3	R3LIFTA	r3lifta: w3 R Some difficulty-Lift/carrying 5 kgs	Categ
4	R4LIFTA	r4lifta: w4 R Some difficulty-Lift/carrying 5 kgs	Categ
			_
5	R5LIFTA	r5lifta: w5 R Some difficulty-Lift/carrying 5 kgs	Categ
1	S1LIFTA	sllifta: w1 S Some difficulty-Lift/carrying 5 kgs	Categ
2	S2LIFTA	s2lifta: w2 S Some difficulty-Lift/carrying 5 kgs	Categ
3	S3LIFTA	s3lifta: w3 S Some difficulty-Lift/carrying 5 kgs	Categ
4	S4LIFTA	s4lifta: w4 S Some difficulty-Lift/carrying 5 kgs	Categ
			_
5	S5LIFTA	s5lifta: w5 S Some difficulty-Lift/carrying 5 kgs	Categ
	D1DT1(==	1.11	~ .
	R1DIMEA	rldimea: w1 R Some difficulty-Picking up a coin	Categ
2	R2DIMEA	r2dimea: w2 R Some difficulty-Picking up a coin	Categ
			_
3	R3DIMEA	r3dimea: w3 R Some difficulty-Picking up a coin	Categ
4	R4DIMEA	r4dimea: w4 R Some difficulty-Picking up a coin	Categ
			_
5	R5DIMEA	r5dimea: w5 R Some difficulty-Picking up a coin	Categ
			_
1	S1DIMEA	sldimea: wl S Some difficulty-Picking up a coin	Categ
2	S2DIMEA	s2dimea: w2 S Some difficulty-Picking up a coin	Categ
			_
3	S3DIMEA	s3dimea: w3 S Some difficulty-Picking up a coin	Categ
4	S4DIMEA	s4dimea: w4 S Some difficulty-Picking up a coin	Categ
			_
5	S5DIMEA	s5dimea: w5 S Some difficulty-Picking up a coin	Categ
	R1ARMSA	rlarmsa: w1 R Some difficulty-Reach/extending arms up	Categ
2	R2ARMSA	r2armsa: w2 R Some difficulty-Reach/extending arms up	Categ
3			_
٥	R3ARMSA	r3armsa: w3 R Some difficulty-Reach/extending arms up	Categ

4 5	R4ARMSA R5ARMSA				difficulty-Reach/extending difficulty-Reach/extending	-	Categ Categ
1 2 3 4 5	S1ARMSA S2ARMSA S3ARMSA S4ARMSA S5ARMSA	<pre>s2armsa: s3armsa: s4armsa:</pre>	w2 s w3 s w4 s	S Some S Some S Some	difficulty-Reach/extending difficulty-Reach/extending difficulty-Reach/extending difficulty-Reach/extending difficulty-Reach/extending difficulty-Reach/extending	arms up arms up arms up	Categ Categ Categ Categ Categ
1 2 3 4 5	R1PUSHA R2PUSHA R3PUSHA R4PUSHA R5PUSHA	r2pusha: r3pusha: r4pusha:	w2 1 w3 1 w4 1	R Some R Some R Some	difficulty-Push/pulling lardifficulty-Push/pulling lardifficulty-Push/push/pulling lardifficulty-Push/push/push-push/push-push-push-push-push-push-push-push-	ge objects ge objects ge objects	Categ Categ Categ Categ Categ
1 2 3 4 5	S1PUSHA S2PUSHA S3PUSHA S4PUSHA S5PUSHA	s2pusha: s3pusha: s4pusha:	w2 s w3 s w4 s	S Some S Some S Some	difficulty-Push/pulling lardifficulty-Push/pulling lardifficulty-Push/push/pulling lardifficulty-Push/push/push/push/push/push/push/push/p	ge objects ge objects ge objects	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKSA	14016	0.24	0.43	0.00	1.00
R2WALKSA	12389	0.24	0.43	0.00	1.00
R3WALKSA	14374	0.27	0.44	0.00	1.00
R4WALKSA	13661	0.29	0.46	0.00	1.00
R5WALKSA	15695	0.26	0.44	0.00	1.00
S1WALKSA	9918	0.22	0.41	0.00	1.00
S2WALKSA	8680	0.22	0.41	0.00	1.00
S3WALKSA	9831	0.24	0.43	0.00	1.00
S4WALKSA	9101	0.26	0.44	0.00	1.00
S5WALKSA	7047	0.28	0.45	0.00	1.00
R1JOGA	11123	0.54	0.50	0.00	1.00
R2JOGA	9827	0.56	0.50	0.00	1.00
R3JOGA	12489	0.55	0.50	0.00	1.00
R4JOGA	11677	0.58	0.49	0.00	1.00
R5JOGA	14575	0.50	0.50	0.00	1.00
S1JOGA	7896	0.51	0.50	0.00	1.00
S2JOGA	6914	0.52	0.50	0.00	1.00
S3JOGA	8570	0.51	0.50	0.00	1.00
S4JOGA	7815	0.54	0.50	0.00	1.00
S5JOGA	6535	0.54	0.50	0.00	1.00
R1WALK1A	13922	0.10	0.31	0.00	1.00
R2WALK1A	12428	0.11	0.31	0.00	1.00
R3WALK1A	14407	0.13	0.33	0.00	1.00
R4WALK1A	13737	0.14	0.35	0.00	1.00
R5WALK1A	15724	0.13	0.34	0.00	1.00
S1WALK1A	9847	0.09	0.28	0.00	1.00
S2WALK1A	8703	0.09	0.28	0.00	1.00
S3WALK1A	9850	0.11	0.31	0.00	1.00
S4WALK1A	9138	0.12	0.32	0.00	1.00
S5WALK1A	7052	0.14	0.34	0.00	1.00
R1SITA	14045	0.18	0.38	0.00	1.00
R2SITA	12474	0.16	0.36	0.00	1.00
R3SITA	14395	0.19	0.40	0.00	1.00

R4SITA	13763	0.21	0.41	0.00	1.00	
R5SITA	15741	0.19	0.40	0.00	1.00	
S1SITA	9924	0.16	0.37	0.00	1.00	
S2SITA	8716	0.15	0.35	0.00	1.00	
S3SITA	9831	0.18	0.39	0.00	1.00	
S4SITA	9145	0.20	0.40	0.00	1.00	
S5SITA	7060	0.20	0.40	0.00	1.00	
0001111	7000	0.20	0.10	0.00	1.00	
R1CHAIRA	14069	0.27	0.44	0.00	1.00	
R2CHAIRA	12481	0.24	0.43	0.00	1.00	
R3CHAIRA	14428	0.30	0.46	0.00	1.00	
R4CHAIRA	13779	0.34	0.47	0.00	1.00	
R5CHAIRA	15740	0.32	0.47	0.00	1.00	
S1CHAIRA	9941	0.25	0.43	0.00	1.00	
S2CHAIRA	8724	0.22	0.41	0.00	1.00	
S3CHAIRA	9850	0.28	0.45	0.00	1.00	
S4CHAIRA	9157	0.33	0.47	0.00	1.00	
S5CHAIRA	7059	0.33	0.47	0.00	1.00	
R1CLIMSA	12488	0.43	0.49	0.00	1.00	
R2CLIMSA	10986	0.41	0.49	0.00	1.00	
R3CLIMSA	13259	0.44	0.50	0.00	1.00	
R4CLIMSA	12740	0.47	0.50	0.00	1.00	
R5CLIMSA	15188	0.42	0.49	0.00	1.00	
11002211011	10100	0.12	0.13	0.00	1.00	
	0.01.1	0 00	0 40	0.00	1 00	
S1CLIMSA	8811	0.39	0.49	0.00	1.00	
S2CLIMSA	7740	0.37	0.48	0.00	1.00	
S3CLIMSA	9091	0.40	0.49	0.00	1.00	
S4CLIMSA	8560	0.43	0.50	0.00	1.00	
S5CLIMSA	6795	0.44	0.50	0.00	1.00	
R1CLIM1A	13567	0.20	0.40	0.00	1.00	
R2CLIM1A	12082	0.20	0.40	0.00	1.00	
R3CLIM1A	13775	0.24	0.43	0.00	1.00	
R4CLIM1A	13260	0.26	0.44	0.00	1.00	
R5CLIM1A	15523	0.24	0.42	0.00	1.00	
KJCLIMIA	13323	0.24	0.42	0.00	1.00	
S1CLIM1A	9613	0.17	0.38	0.00	1.00	
S2CLIM1A	8479	0.17	0.37	0.00	1.00	
S3CLIM1A	9433	0.21	0.41	0.00	1.00	
S4CLIM1A	8878	0.22	0.42	0.00	1.00	
S5CLIM1A	6962	0.25	0.43	0.00	1.00	
R1STOOPA	14027	0.35	0.48	0.00	1.00	
R2STOOPA	12426	0.33	0.47	0.00	1.00	
R3STOOPA	14365	0.41	0.49	0.00	1.00	
R4STOOPA	13695	0.45	0.50	0.00	1.00	
	15681	0.41	0.49	0.00	1.00	
R5STOOPA	13001	0.41	0.49	0.00	1.00	
S1STOOPA	9917	0.32	0.47	0.00	1.00	
S2STOOPA	8694	0.31	0.46	0.00	1.00	
S3STOOPA	9825	0.38	0.48	0.00	1.00	
S4STOOPA	9122	0.42	0.49	0.00	1.00	
S5STOOPA	7034	0.44	0.50	0.00	1.00	
D1 T T T T T T T T T T T T T T T T T T T	1 2 0 4 2	0 10	0 20	0 00	1 00	
R1LIFTA	13943	0.19	0.39	0.00	1.00	
R2LIFTA	12343	0.18	0.39	0.00	1.00	
R3LIFTA	14230	0.24	0.43	0.00	1.00	
R4LIFTA	13474	0.27	0.44	0.00	1.00	
R5LIFTA	15611	0.25	0.43	0.00	1.00	
S1LIFTA	9887	0.15	0.36	0.00	1.00	
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S2LIFTA	8662	0.15	0.36	0.00	1.00	
S3LIFTA	9761	0.20	0.40	0.00	1.00	
S4LIFTA	9023	0.22	0.42	0.00	1.00	
S5LIFTA	7010	0.24	0.42	0.00	1.00	
SULTEIA	7010	0.24	0.43	0.00	1.00	
R1DIMEA	14074	0.05	0.22	0.00	1.00	
R2DIMEA	12489	0.06	0.23	0.00	1.00	
R3DIMEA	14437	0.07	0.26	0.00	1.00	
R4DIMEA	13787	0.07	0.26	0.00	1.00	
R5DIMEA	15745	0.08	0.27	0.00	1.00	
S1DIMEA	9951	0.04	0.21	0.00	1.00	
S2DIMEA	8730	0.04	0.21	0.00	1.00	
S3DIMEA	9860	0.06	0.24	0.00	1.00	
S4DIMEA	9156	0.06	0.24	0.00	1.00	
S5DIMEA	7061	0.09	0.28	0.00	1.00	
R1ARMSA	14076	0.11	0.31	0.00	1.00	
R2ARMSA	12494	0.10	0.30	0.00	1.00	
R3ARMSA	14441	0.14	0.34	0.00	1.00	
R4ARMSA	13794	0.15	0.36	0.00	1.00	
R5ARMSA	15746	0.14	0.34	0.00	1.00	
S1ARMSA	9951	0.10	0.30	0.00	1.00	
S2ARMSA	8735	0.09	0.29	0.00	1.00	
S3ARMSA	9863	0.12	0.33	0.00	1.00	
S4ARMSA	9163	0.13	0.34	0.00	1.00	
S5ARMSA	7059	0.14	0.35	0.00	1.00	
R1PUSHA	13870	0.20	0.40	0.00	1.00	
R2PUSHA	12287	0.19	0.39	0.00	1.00	
R3PUSHA	14150	0.25	0.43	0.00	1.00	
R4PUSHA	13473	0.27	0.44	0.00	1.00	
R5PUSHA	15568	0.24	0.43	0.00	1.00	
S1PUSHA	9844	0.17	0.38	0.00	1.00	
S2PUSHA	8621	0.16	0.36	0.00	1.00	
S3PUSHA	9709	0.21	0.41	0.00	1.00	
S4PUSHA	9009	0.23	0.42	0.00	1.00	
S5PUSHA	6986	0.25	0.43	0.00	1.00	

Categorical Variable Codes

Value	R1WALKSA	R2WALKSA	R3WALKSA	R4WALKSA	R5WALKSA
.d:DK	6	1	3	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	12		1	1	6
.x:Doesn't do	82	111	70	143	68
0.No	10634	9382	10487	9638	11576
1.Yes	3382	3007	3887	4023	4119
Value	S1WALKSA	S2WALKSA	S3WALKSA	S4WALKSA	S5WALKSA
.d:DK	5	1	1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	6				4
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	46	56	34	66	19
0.No	7769	6811	7446	6722	5068
1.Yes	2149	1869	2385	2379	1979
Value	R1JOGA	R2JOGA	R3JOGA	R4JOGA	R5JOGA
.d:DK	114	52	46	17	21
.m:Missing	38	25		40	17

.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	71	18	9	3	18
.x:Doesn't do	2808	2604	1904	2113	1155
0.No	5102	4358	5631	4881	7215
1.Yes	6021	5469	6858	6796	7360
Value	S1JOGA	S2JOGA	S3JOGA	S4JOGA	S5JOGA
.d:DK	85	35	34	10	11
.m:Missing	13	6	J 1	10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	45	13	4	2	12
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	1949	1775	1258	1345	512
0.No	3887	3340	4191	3588	2993
1.Yes	4009	3574	4379	4227	3542
1.100	1003	3371	1373	122 /	3312
Value	R1WALK1A	R2WALK1A	R3WALK1A	R4WALK1A	R5WALK1A
.d:DK	26		3	5	1
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	91	1	2	1	7
.x:Doesn't do	77	72	36	67	37
0.No	12476	11067	12559	11772	13695
1.Yes	1446	1361	1848	1965	2029
Value	S1WALK1A	S2WALK1A	S3WALK1A	S4WALK1A	S5WALK1A
.d:DK	16		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	65	1	1		5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	47	33	14	29	13
0.No	8972	7929	8791	8049	6090
1.Yes	875	774	1059	1089	962
V2120	р1стпл	ростпа	рзстпл	DACTEA	DSCTTA
Value	R1SITA	R2SITA	R3SITA	R4SITA	R5SITA
.d:DK	7		R3SITA 2	8	1
.d:DK .m:Missing	7 38	25	2	8 40	1 17
.d:DK	7 38 1032		2 1275	8 40 929	1 17 1328
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse	7 38 1032 15	25 1178	2 1275 1	8 40 929 1	1 17 1328 5
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do	7 38 1032 15 49	25 1178 27	2 1275 1 50	8 40 929 1 38	1 17 1328 5 22
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do	7 38 1032 15 49 11560	25 1178 27 10504	2 1275 1 50 11594	8 40 929 1 38 10856	1 17 1328 5 22 12677
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do	7 38 1032 15 49	25 1178 27	2 1275 1 50	8 40 929 1 38	1 17 1328 5 22
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do	7 38 1032 15 49 11560	25 1178 27 10504	2 1275 1 50 11594	8 40 929 1 38 10856	1 17 1328 5 22 12677
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes	7 38 1032 15 49 11560 2485	25 1178 27 10504 1970	2 1275 1 50 11594 2801	8 40 929 1 38 10856 2907	1 17 1328 5 22 12677 3064
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA	25 1178 27 10504 1970	2 1275 1 50 11594 2801 S3SITA	8 40 929 1 38 10856 2907	1 17 1328 5 22 12677 3064 S5SITA
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA	25 1178 27 10504 1970 S2SITA	2 1275 1 50 11594 2801 S3SITA	8 40 929 1 38 10856 2907 S4SITA 6	1 17 1328 5 22 12677 3064 S5SITA 1
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13	25 1178 27 10504 1970 S2SITA	2 1275 1 50 11594 2801 S3SITA 2	8 40 929 1 38 10856 2907 S4SITA 6 10	1 17 1328 5 22 12677 3064 S5SITA 1
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660	25 1178 27 10504 1970 S2SITA	2 1275 1 50 11594 2801 S3SITA 2	8 40 929 1 38 10856 2907 S4SITA 6 10	1 17 1328 5 22 12677 3064 S5SITA 1 5
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13	25 1178 27 10504 1970 S2SITA 6 821	2 1275 1 50 11594 2801 S3SITA 2	8 40 929 1 38 10856 2907 S4SITA 6 10 470	1 17 1328 5 22 12677 3064 S5SITA 1 5 563
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205	25 1178 27 10504 1970 S2SITA 6 821 4009	2 1275 1 50 11594 2801 S3SITA 2 726	8 40 929 1 38 10856 2907 S4SITA 6 10 470	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333	25 1178 27 10504 1970 S2SITA 6 821 4009 131	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349	8 40 929 1 38 10856 2907 S4SITA 6 10 470	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 6 5652 1408
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24 9058	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7 22
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24 9058	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7 22
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272 3797	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526 2955	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089 4339	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 1 24 9058 4721	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7 22 10747 4993
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272 3797 S1CHAIRA	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526 2955	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089 4339 S3CHAIRA	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 1 24 9058 4721 S4CHAIRA	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7 22 10747 4993
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272 3797 S1CHAIRA 5	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526 2955 S2CHAIRA 1	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089 4339 S3CHAIRA	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24 9058 4721 S4CHAIRA 5	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 66 5652 1408 R5CHAIRA 17 1328 7 22 10747 4993 S5CHAIRA
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272 3797 S1CHAIRA 5 13	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526 2955 S2CHAIRA 1 6	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089 4339 S3CHAIRA 1	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24 9058 4721 S4CHAIRA 5 10	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 66 5652 1408 R5CHAIRA 17 1328 7 22 10747 4993 S5CHAIRA 5
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272 3797 S1CHAIRA 5 13 660	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526 2955 S2CHAIRA 1 6	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089 4339 S3CHAIRA 1	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24 9058 4721 S4CHAIRA 5 10	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7 22 10747 4993 S5CHAIRA 5 563
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .x:Doesn't do 0.No 1.Yes Value	7 38 1032 15 49 11560 2485 S1SITA 4 13 660 13 4205 333 34 8318 1606 R1CHAIRA 7 38 1032 14 26 10272 3797 S1CHAIRA 5 13 660 11	25 1178 27 10504 1970 S2SITA 6 821 4009 131 21 7430 1286 R2CHAIRA 2 25 1178 18 9526 2955 S2CHAIRA 1 6 821	2 1275 1 50 11594 2801 S3SITA 2 726 4782 349 33 8036 1795 R3CHAIRA 1 1275 1 18 10089 4339 S3CHAIRA 1 726	8 40 929 1 38 10856 2907 S4SITA 6 10 470 4847 280 21 7289 1856 R4CHAIRA 6 40 929 1 24 9058 4721 S4CHAIRA 5 10 470	1 17 1328 5 22 12677 3064 S5SITA 1 5 563 3 5227 501 6 5652 1408 R5CHAIRA 17 1328 7 22 10747 4993 S5CHAIRA 5 563 5

		1.0	4-	1.0	
.x:Doesn't do 0.No	18 7459	12 6825	15 7089	10 6159	6 4756
1.Yes	1 2482	1899	2761	2998	2303
1.100	2102	1000	2701	2330	2303
Value	R1CLIMSA	R2CLIMSA	R3CLIMSA	R4CLIMSA	R5CLIMSA
.d:DK	115	61	30	15	33
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	86	3	2	1	40
.x:Doesn't do	1427	1451	1157	1054	508
0.No 1.Yes	7158 5330	6523 4463	7491 5768	6762 5978	8864 6324
1.165] 3330	4403	3700	3970	0324
Value	S1CLIMSA	S2CLIMSA	S3CLIMSA	S4CLIMSA	S5CLIMSA
.d:DK	85	36	20	13	16
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	62	3	1		25
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do 0.No	1017 5346	958 4842	754 5465	599 4875	234 3816
1.Yes	3465	2898	3626	3685	2979
1.103	3403	2000	3020	3003	2313
Value	R1CLIM1A	R2CLIM1A	R3CLIM1A	R4CLIM1A	R5CLIM1A
.d:DK	58	19	20	10	15
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	85	5	2	2	19
.x:Doesn't do	406	395	651	538	212
0.No 1.Yes	10848 2719	9710 2372	10474 3301	9831 3429	11871 3652
1.165	2/19	2312	3301	3429	3032
Value	S1CLIM1A	S2CLIM1A	S3CLIM1A	S4CLIM1A	S5CLIM1A
.d:DK	46	10	12	9	9
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	58	4	1		8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	258	244	420	285	91
0.No 1.Yes	7947 1666	7053 1426	7474 1959	6900 1978	5255 1707
1.163	1 1000	1420	1939	1370	1707
Value	R1STOOPA	R2STOOPA	R3STOOPA	R4STOOPA	R5STOOPA
.d:DK	9	4	2	5	1
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	12	1	1	2	8
.x:Doesn't do	68	70	80	108	79
0.No	9071	8292	8446	7504	9238
1.Yes	4956	4134	5919	6191	6443
Value	S1STOOPA	S2STOOPA	S3STOOPA	S4STOOPA	S5STOOPA
.d:DK	7	2	1	5	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	10	1			5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	41 6704	40	40	45 5264	30
0.No 1.Yes	3213	6039 2655	6114 3711	3858	3966 3068
1.163	7213	2000	3/11	3030	3000
Value	R1LIFTA	R2LIFTA	R3LIFTA	R4LIFTA	R5LIFTA
.d:DK	6	7	3	6	1
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	8		3	1	8
.x:Doesn't do	159	151	212	329	149
0.No	11355	10094	10837	9855	11772
1.Yes	2588	2249	3393	3619	3839

1	01.7.7777	007.7777	227 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.47.7.000	057.7003
Value	S1LIFTA	S2LIFTA	S3LIFTA	S4LIFTA	S5LIFTA
.d:DK	3	3	2	5	_
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	5				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	80	72	103	144	55
0.No	8378	7364	7803	7018	5295
1.Yes	1509	1298	1958	2005	1715
Value	R1DIMEA	R2DIMEA	R3DIMEA	R4DIMEA	R5DIMEA
.d:DK	9		2	7	
.m:Missing	38	25	_	40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	16	1170	1	1	10
.x:Doesn't do	17	12	8	15	14
0.No	13324	11785	13391	12796	14469
•					
1.Yes	750	704	1046	991	1276
Value	O1DIME?	CODIME	CODINE	CADIMER	GEDINER
	S1DIMEA	S2DIMEA	S3DIMEA	S4DIMEA	S5DIMEA
.d:DK	5		2	7	_
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	10				6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	9	7	4	9	3
0.No	9513	8341	9245	8579	6437
1.Yes	438	389	615	577	624
·					
Value	R1ARMSA	R2ARMSA	R3ARMSA	R4ARMSA	R5ARMSA
.d:DK	7	1,0111,1011	1	5	1.011111011
.m:Missing	38	25	_	40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	12	1	1275		
				1	8
.x:Doesn't do	21	6	5	10	15
0.No	12539	11238	12488	11721	13603
1.Yes	1537	1256	1953	2073	2143
Value		S2ARMSA	S3ARMSA	S4ARMSA	S5ARMSA
.d:DK	4		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	10	1			5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	10	1	2	4	6
0.No	8990	7946	8672	7942	6071
1.Yes	961	789	1191	1221	988
1.103	301	703	1171	1221	500
Value	R1PUSHA	R2PUSHA	R3PUSHA	R4PUSHA	R5PUSHA
.d:DK	7	2	2	5	2
•	38	25	۷	40	
.m:Missing			1075		17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	11		1	2	10
.x:Doesn't do	228	212	295	330	189
0.No	11096	10000	10663	9838	11790
1.Yes	2774	2287	3487	3635	3778
Value	S1PUSHA	S2PUSHA	S3PUSHA	S4PUSHA	S5PUSHA
.d:DK	4		1	5	1
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	8			1	6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	119	116	156	157	77
0.No	8175	7261	7641	6926	5231
1.Yes	1669	1360	2068	2083	1755
	1000	1000	2000	2000	1,00

How Constructed

These variables indicate difficulty with functional limitations other than ADLs and IADLs. The other functional limitations include walking several blocks (RwWALKSA), running and jogging one kilometer (RwJOGA), walking one block (RwWALK1A), sitting for about 2 hours (RwSITA), getting up from a chair after sitting for long periods (RwCHAIRA), climbing several flights of stairs without resting (RwCLIMSA), climbing one flight of stairs without resting (RwCLIM1A), stooping/ kneeling/or crouching (RwSTOOPA), reaching arms above shoulder level (RwARMSA), pushing or pulling large objects (RwPUSHA), lifting or carrying weights over 5 kilos (RwLIFTA), and picking up a small coin (one peso) from the table (RwDIMEA).

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 if they reported "can't do". When respondents indicated "don't know" or refused to answer, the RwWALKSA, RwJOGA, RwWALK1A, RwSITA, RwCHAIRA, RwCLIMSA, RwCLIMIA, RwSTOOPA, RwARMSA, RwPUSHA, RwLIFTA, and RwDIMEA variables are assigned special missing values .d or .r, respectively. Also, if the respondent reported "don't do" they are set to special missing value .x, missing answers are set to special missing .m, and they are set to plain missing (.) for respondents who did not respond to the current wave.

SwWALKSA, SwJOGA, SwWALK1A, SwSITA, SwCHAIRA, SwCLIMSA, SwCLIM1A, SwSTOOPA, SwARMSA, SwPUSHA, SwLIFTA, and SwDIMEA indicate whether the respondent's spouse reported any difficulty with such activities and are taken directly from the spouse's RwWALKSA, RwJOGA, RwWALK1A, RwSITA, RwCHAIRA, RwCLIMSA, RwCLIM1A, RwSTOOPA, RwARMSA, RwPUSHA, RwLIFTA, and RwDIMEA variables, respectively. In addition to the special missing codes used in the respondent variables, the spouse variables employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS introductory questions, respondents are asked whether they have difficulty jogging one mile. However, in the MHAS they ask if the respondent has any difficulty running or jogging one kilometer.

MHAS Variables Used

Wave 1:	
Н1	long walk
H10	pulling
H11	picking up
H12	picking up a coin
Н2	running
Н3	short walk
H4	sitting 2 hours
Н5	getting up
Н6	long climbing
Н7	short climbing
Н8	bending
Н9	extending arms
Wave 2:	
H1	health problems-trouble walking blocks
H10	health problems-trouble pushing or pulling
H11	health problems-trouble carrying objects
H12	health problems-trouble picking up a coin
Н2	health problems-trouble running
Н3	health problems-trouble walking a block
H4	health problems-trouble staying seated
Н5	health problems-trouble getting up from chair
Н6	health problems-trouble with flights of stairs
Н7	health problems-trouble with 1 flight of stairs
Н8	health problems-trouble sitting up
Н9	health problems-trouble lifting arms

Wave 3:	
H10 12	Because of health problem, difficulty pushing or pullin
H11 12	Because of health problem, difficulty carrying objects
H12 12	Because of health problem, difficulty picking up a coin
H1 12	Because of health problem, difficulty walking blocks
H2 ⁻ 12	Because of health problem, difficulty running
н3 12	Because of health problem, difficulty walking a block
H4 12	Because of health problem, difficulty staying seated
H5 ⁻ 12	Because of health problem, difficulty getting up from c
H6 12	Because of health problem, difficulty with flights of s
H7 12	Because of health problem, difficulty with 1 flight of
Н8 12	Because of health problem, difficulty sitting up
н9 12	Because of health problem, difficulty lifting arms
Wave 4:	
н10 15	Because of health problem, does respondent have difficu
H11 15	Because of health problem, does respondent have difficu
H12_15	Because of health problem, does respondent have difficu
н1 <u>Т</u> 5	Because of health problem, does respondent have difficu
H2 15	Because of health problem, does respondent have difficu
н3 15	Because of health problem, does respondent have difficu
н4 ¹ 5	Because of health problem, does respondent have difficu
н5 ⁻ 15	Because of health problem, does respondent have difficu
н6 [—] 15	Because of health problem, does respondent have difficu
н7 [—] 15	Because of health problem, does respondent have difficu
н8 [—] 15	Because of health problem, does respondent have difficu
н9 [—] 15	Because of health problem, does respondent have difficu
Wave 5:	
H10_18	Because of health problem, does R have difficulty pushi
H11 18	Due to health problem, difficult for R to lift/carry ob
H12_18	Due to health problem, does R have difficulty picking u
H1_18	Because of health problem, does R have difficulty walki
H2_18	Because of health problem, does R have difficulty runni
н3_18	Because of health problem, does R have difficulty walki
H4 <u>1</u> 8	Because of health problem, does R have difficulty sitti
Н5_18	Due to health problem, difficult for R to get up from c
H6 <u>1</u> 8	Due to health problem, hard for R to climb several flig
H7 <u>1</u> 8	Due to health problem, difficult for R to climb 1 fligh
н8_18	Due to health problem, does R have difficulty stooping,
н9_18	Due to health problem, difficult for R to reach/extend

ADL Summary: Sum ADLs Where Respondent Reports Any Difficulty

Wave	Variable	Label	Type
1	R1ADLTOT M	rladltot m: w1 R Some difficulty-Total ADLs 0-6	Cont
2	R2ADLTOT M	r2adltot m: w2 R Some difficulty-Total ADLs 0-6	Cont
3	R3ADLTOT_M	r3adltot_m: w3 R Some difficulty-Total ADLs 0-6	Cont
4	R4ADLTOT_M	r4adltot_m: w4 R Some difficulty-Total ADLs 0-6	Cont
5	R5ADLTOT_M	r5adltot_m: w5 R Some difficulty-Total ADLs 0-6	Cont
1	S1ADLTOT M	sladltot m: w1 S Some difficulty-Total ADLs 0-6	Cont
2	S2ADLTOT M	s2adltot m: w2 S Some difficulty-Total ADLs 0-6	Cont
3	S3ADLTOT_M	s3adltot_m: w3 S Some difficulty-Total ADLs 0-6	Cont
4	S4ADLTOT_M	s4adltot_m: w4 S Some difficulty-Total ADLs 0-6	Cont
5	S5ADLTOT_M	s5adltot_m: w5 S Some difficulty-Total ADLs 0-6	Cont
1	R1ADLTOTM_M	rladltotm_m: w1 R Some difficulty-Missings in Total ADLs 0-6	Cont
2	R2ADLTOTM_M	r2adltotm_m: w2 R Some difficulty-Missings in Total ADLs 0-6	Cont
3	R3ADLTOTM_M	r3adltotm_m: w3 R Some difficulty-Missings in Total ADLs 0-6	Cont
	R4ADLTOTM_M	r4adltotm_m: w4 R Some difficulty-Missings in Total ADLs 0-6	Cont
5	R5ADLTOTM_M	r5adltotm_m: w5 R Some difficulty-Missings in Total ADLs 0-6	Cont
1	S1ADLTOTM_M	sladltotm_m: w1 S Some difficulty-Missings in Total ADLs 0-6	Cont
	S2ADLTOTM_M	s2adltotm_m: w2 S Some difficulty-Missings in Total ADLs 0-6	Cont
3	S3ADLTOTM_M	s3adltotm_m: w3 S Some difficulty-Missings in Total ADLs 0-6	Cont
4	S4ADLTOTM_M	s4adltotm_m: w4 S Some difficulty-Missings in Total ADLs 0-6	Cont
5	S5ADLTOTM_M	s5adltotm_m: w5 S Some difficulty-Missings in Total ADLs 0-6	Cont
1	R1ADLTOTA_M	rladltota_m: w1 R Any difficulty ADLs 0-6	Categ
2	R2ADLTOTA_M	r2adltota_m: w2 R Any difficulty ADLs 0-6	Categ
	R3ADLTOTA_M	r3adltota_m: w3 R Any difficulty ADLs 0-6	Categ
4	R4ADLTOTA_M	r4adltota_m: w4 R Any difficulty ADLs 0-6	Categ
5	R5ADLTOTA_M	r5adltota_m: w5 R Any difficulty ADLs 0-6	Categ
1	S1ADLTOTA M	sladltota m: w1 S Any difficulty ADLs 0-6	Categ
2	S2ADLTOTA_M	s2adltota_m: w2 S Any difficulty ADLs 0-6	Categ
3	S3ADLTOTA_M	s3adltota_m: w3 S Any difficulty ADLs 0-6	Categ
4	S4ADLTOTA_M	s4adltota_m: w4 S Any difficulty ADLs 0-6	Categ
5	S5ADLTOTA_M	s5adltota_m: w5 S Any difficulty ADLs 0-6	Categ
1	R1ADLA	rladla: w1 R Some difficulty-ADLs 0-5	Cont
	R2ADLA	r2adla: w2 R Some difficulty-ADLs 0-5	Cont
	R3ADLA	r3adla: w3 R Some difficulty-ADLs 0-5	Cont
	R4ADLA	r4adla: w4 R Some difficulty-ADLs 0-5	Cont
5	R5ADLA	r5adla: w5 R Some difficulty-ADLs 0-5	Cont
1	S1ADLA	sladla: w1 S Some difficulty-ADLs 0-5	Cont
2	S2ADLA	s2adla: w2 S Some difficulty-ADLs 0-5	Cont
3	S3ADLA	s3adla: w3 S Some difficulty-ADLs 0-5	Cont
4	S4ADLA	s4adla: w4 S Some difficulty-ADLs 0-5	Cont
5	S5ADLA	s5adla: w5 S Some difficulty-ADLs 0-5	Cont
1	R1ADLAM	rladlam: w1 R Some difficulty-Missings in ADLs 0-5 Score	Cont
2	R2ADLAM	r2adlam: w2 R Some difficulty-Missings in ADLs 0-5 Score	Cont
3	R3ADLAM	r3adlam: w3 R Some difficulty-Missings in ADLs 0-5 Score	Cont
4	R4ADLAM	r4adlam: w4 R Some difficulty-Missings in ADLs 0-5 Score	Cont
5	R5ADLAM	r5adlam: w5 R Some difficulty-Missings in ADLs 0-5 Score	Cont
1	S1ADLAM	sladlam: w1 S Some difficulty-Missings in ADLs 0-5 Score	Cont
2	S2ADLAM	s2adlam: w2 S Some difficulty-Missings in ADLs 0-5 Score	Cont
3	S3ADLAM	s3adlam: w3 S Some difficulty-Missings in ADLs 0-5 Score	Cont
4 5	S4ADLAM S5ADLAM	s4adlam: w4 S Some difficulty-Missings in ADLs 0-5 Score s5adlam: w5 S Some difficulty-Missings in ADLs 0-5 Score	Cont Cont
5	SOADHAM	Socialis. Wo so some difficultly-ritssings in ADLS 0-3 score	COIIC

1	R1ADLAA	rladlaa: w1 R Any difficulty ADLs 0-5	Categ
2	R2ADLAA	r2adlaa: w2 R Any difficulty ADLs 0-5	Categ
			_
3	R3ADLAA	r3adlaa: w3 R Any difficulty ADLs 0-5	Categ
4	R4ADLAA	r4adlaa: w4 R Any difficulty ADLs 0-5	Categ
5	R5ADLAA	r5adlaa: w5 R Any difficulty ADLs 0-5	Categ
		1	2
1	C17D177	sladlaa: w1 S Any difficulty ADLs 0-5	Cator
1	S1ADLAA		Categ
2	S2ADLAA	s2adlaa: w2 S Any difficulty ADLs 0-5	Categ
3	S3ADLAA	s3adlaa: w3 S Any difficulty ADLs 0-5	Categ
4	S4ADLAA	s4adlaa: w4 S Any difficulty ADLs 0-5	Categ
5	S5ADLAA	s5adlaa: w5 S Any difficulty ADLs 0-5	Categ
5	SJADLAA	Soldiaa: wo s Any difficulty Abls 0-5	categ
1	R1ADLFIVE	rladlfive: w1 R Some difficulty-ADLs 0-5 Alternate	Cont
2	R2ADLFIVE	r2adlfive: w2 R Some difficulty-ADLs 0-5 Alternate	Cont
3	R3ADLFIVE	r3adlfive: w3 R Some difficulty-ADLs 0-5 Alternate	Cont
4	R4ADLFIVE	r4adlfive: w4 R Some difficulty-ADLs 0-5 Alternate	
			Cont
5	R5ADLFIVE	r5adlfive: w5 R Some difficulty-ADLs 0-5 Alternate	Cont
1	S1ADLFIVE	sladlfive: w1 S Some difficulty-ADLs 0-5 Alternate	Cont
2	S2ADLFIVE	s2adlfive: w2 S Some difficulty-ADLs 0-5 Alternate	Cont
3	S3ADLFIVE	s3adlfive: w3 S Some difficulty-ADLs 0-5 Alternate	Cont
4	S4ADLFIVE	s4adlfive: w4 S Some difficulty-ADLs 0-5 Alternate	Cont
5	S5ADLFIVE	s5adlfive: w5 S Some difficulty-ADLs 0-5 Alternate	Cont
1	R1ADLFIVEM	rladlfivem: w1 R Some difficulty-Missings in ADLs 0-5 Score	Cont
2	R2ADLFIVEM	r2adlfivem: w2 R Some difficulty-Missings in ADLs 0-5 Score	Cont
3	R3ADLFIVEM	r3adlfivem: w3 R Some difficulty-Missings in ADLs 0-5 Score	Cont
4	R4ADLFIVEM	r4adlfivem: w4 R Some difficulty-Missings in ADLs 0-5 Score	Cont
5	R5ADLFIVEM	r5adlfivem: w5 R Some difficulty-Missings in ADLs 0-5 Score	Cont
1	S1ADLFIVEM	sladlfivem: w1 S Some difficulty-Missings in ADLs 0-5 Score	Cont
2	S2ADLFIVEM	s2adlfivem: w2 S Some difficulty-Missings in ADLs 0-5 Score	Cont
3	S3ADLFIVEM	s3adlfivem: w3 S Some difficulty-Missings in ADLs 0-5 Score	Cont
4	S4ADLFIVEM	s4adlfivem: w4 S Some difficulty-Missings in ADLs 0-5 Score	Cont
5	S5ADLFIVEM	s5adlfivem: w5 S Some difficulty-Missings in ADLs 0-5 Score	Cont
1	R1ADLFIVEA	rladlfivea: w1 R Any difficulty ADLs 0-5 Alternate	Categ
2	R2ADLFIVEA	r2adlfivea: w2 R Any difficulty ADLs 0-5 Alternate	Categ
3	R3ADLFIVEA	r3adlfivea: w3 R Any difficulty ADLs 0-5 Alternate	Categ
			_
4	R4ADLFIVEA	r4adlfivea: w4 R Any difficulty ADLs 0-5 Alternate	Categ
5	R5ADLFIVEA	r5adlfivea: w5 R Any difficulty ADLs 0-5 Alternate	Categ
1	S1ADLFIVEA	sladlfivea: w1 S Any difficulty ADLs 0-5 Alternate	Categ
2	S2ADLFIVEA	s2adlfivea: w2 S Any difficulty ADLs 0-5 Alternate	Categ
3	S3ADLFIVEA	s3adlfivea: w3 S Any difficulty ADLs 0-5 Alternate	Categ
			_
4	S4ADLFIVEA	s4adlfivea: w4 S Any difficulty ADLs 0-5 Alternate	Categ
5	S5ADLFIVEA	s5adlfivea: w5 S Any difficulty ADLs 0-5 Alternate	Categ
1	R1ADLA_M	rladla_m: w1 R Some difficulty-ADLs 0-4	Cont
2	R2ADLA M	r2adla m: w2 R Some difficulty-ADLs 0-4	Cont
3	R3ADLA M	r3adla m: w3 R Some difficulty-ADLs 0-4	Cont
	_		
4	R4ADLA_M	r4adla_m: w4 R Some difficulty-ADLs 0-4	Cont
5	R5ADLA_M	r5adla_m: w5 R Some difficulty-ADLs 0-4	Cont
1	S1ADLA_M	sladla_m: w1 S Some difficulty-ADLs 0-4	Cont
2	S2ADLA M	s2adla m: w2 S Some difficulty-ADLs 0-4	Cont
3	S3ADLA M	s3adla m: w3 S Some difficulty-ADLs 0-4	Cont
4	S4ADLA M	s4adla m: w4 S Some difficulty-ADLs 0-4	Cont
	_		
5	S5ADLA_M	s5adla_m: w5 S Some difficulty-ADLs 0-4	Cont
-1	D13D133434		Q
1	R1ADLAM_M	rladlam_m: w1 R Some difficulty-Missings in ADLs 0-4 Score	Cont
2	R2ADLAM_M	r2adlam_m: w2 R Some difficulty-Missings in ADLs 0-4 Score	Cont
3	R3ADLAM_M	r3adlam_m: w3 R Some difficulty-Missings in ADLs 0-4 Score	Cont
	_		

4	R4ADLAM_M	r4adlam_m: w4 R Some difficulty-Missings in ADLs 0-4 Score	Cont
5	R5ADLAM_M	r5adlam_m: w5 R Some difficulty-Missings in ADLs 0-4 Score	Cont
1	C1ADTAM M	aladlam m	Cont
1	S1ADLAM_M	sladlam_m: w1 S Some difficulty-Missings in ADLs 0-4 Score	
2	S2ADLAM_M	s2adlam_m: w2 S Some difficulty-Missings in ADLs 0-4 Score	Cont
3	S3ADLAM_M	s3adlam_m: w3 S Some difficulty-Missings in ADLs 0-4 Score	Cont
4	S4ADLAM M	s4adlam m: w4 S Some difficulty-Missings in ADLs 0-4 Score	Cont
5	S5ADLAM M	s5adlam m: w5 S Some difficulty-Missings in ADLs 0-4 Score	Cont
	_		
1	R1ADLAA M	rladlaa m: w1 R Any difficulty ADLs 0-4	Categ
2	R2ADLAA M	r2adlaa m: w2 R Any difficulty ADLs 0-4	Categ
3	R3ADLAA M	r3adlaa m: w3 R Any difficulty ADLs 0-4	Categ
4	R4ADLAA M	r4adlaa m: w4 R Any difficulty ADLs 0-4	Categ
5	R5ADLAA M	r5adlaa m: w5 R Any difficulty ADLs 0-4	Categ
J	NJADUAA_M	IJadiaa_m. WJ K Amy difficulty ADES 0 4	categ
1	S1ADLAA M	sladlaa m: w1 S Any difficulty ADLs 0-4	Categ
2	S2ADLAA M	s2adlaa m: w2 S Any difficulty ADLs 0-4	Categ
3	S3ADLAA M	s3adlaa m: w3 S Any difficulty ADLs 0-4	Categ
	_		_
4	S4ADLAA_M	s4adlaa_m: w4 S Any difficulty ADLs 0-4	Categ
5	S5ADLAA_M	s5adlaa_m: w5 S Any difficulty ADLs 0-4	Categ
1	D 1 7 D T 1677	uladina. ul D Cama difficulto DDIa. Wallaca 0 2	0
1	R1ADLWA	rladlwa: w1 R Some difficulty-ADLs: Wallace 0-3	Cont
2	R2ADLWA	r2adlwa: w2 R Some difficulty-ADLs: Wallace 0-3	Cont
3	R3ADLWA	r3adlwa: w3 R Some difficulty-ADLs: Wallace 0-3	Cont
4	R4ADLWA	r4adlwa: w4 R Some difficulty-ADLs: Wallace 0-3	Cont
5	R5ADLWA	r5adlwa: w5 R Some difficulty-ADLs: Wallace 0-3	Cont
1	S1ADLWA	sladlwa: w1 S Some difficulty-ADLs: Wallace 0-3	Cont
2	S2ADLWA	s2adlwa: w2 S Some difficulty-ADLs: Wallace 0-3	Cont
3	S3ADLWA	s3adlwa: w3 S Some difficulty-ADLs: Wallace 0-3	Cont
4	S4ADLWA	s4adlwa: w4 S Some difficulty-ADLs: Wallace 0-3	Cont
5	S5ADLWA	s5adlwa: w5 S Some difficulty-ADLs: Wallace 0-3	Cont
1	R1ADLWAM	rladlwam: w1 R Some difficulty-Missings Wallace Score 0-3	Cont
2	R2ADLWAM	r2adlwam: w2 R Some difficulty-Missings Wallace Score 0-3	Cont
3	R3ADLWAM	r3adlwam: w3 R Some difficulty-Missings Wallace Score 0-3	Cont
4	R4ADLWAM	r4adlwam: w4 R Some difficulty-Missings Wallace Score 0-3	Cont
5	R5ADLWAM	r5adlwam: w5 R Some difficulty-Missings Wallace Score 0-3	Cont
		The second secon	
1	S1ADLWAM	sladlwam: w1 S Some difficulty-Missings Wallace Score 0-3	Cont
2	S2ADLWAM	s2adlwam: w2 S Some difficulty-Missings Wallace Score 0-3	Cont
3	S3ADLWAM	s3adlwam: w3 S Some difficulty-Missings Wallace Score 0-3	Cont
4	S4ADLWAM	s4adlwam: w4 S Some difficulty-Missings Wallace Score 0-3	Cont
5	S5ADLWAM	s5adlwam: w5 S Some difficulty-Missings Wallace Score 0-3	Cont
J	SUADLWAIT	Sadiwam. WS S Some difficulty Missings walface Score of S	COIIC
1	R1ADLWAA	rladlwaa: w1 R Any difficulty ADLs 0-3	Categ
2	R2ADLWAA	r2adlwaa: w2 R Any difficulty ADLs 0-3	Categ
3	R3ADLWAA	r3adlwaa: w3 R Any difficulty ADLs 0-3	Categ
4	R4ADLWAA		_
		r4adlwaa: w4 R Any difficulty ADLs 0-3	Categ
5	R5ADLWAA	r5adlwaa: w5 R Any difficulty ADLs 0-3	Categ
1	S1ADLWAA	cladlyga, w1 C Apy difficulty ADIC 0 2	Catas
	SIADLWAA S2ADLWAA	sladlwaa: w1 S Any difficulty ADLs 0-3	Categ
2	-	s2adlwaa: w2 S Any difficulty ADLs 0-3	Categ
3	S3ADLWAA	s3adlwaa: w3 S Any difficulty ADLs 0-3	Categ
4	S4ADLWAA	s4adlwaa: w4 S Any difficulty ADLs 0-3	Categ
5	S5ADLWAA	s5adlwaa: w5 S Any difficulty ADLs 0-3	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ADLTOT_M	14113	0.23	0.84	0.00	6.00
R2ADLTOT_M	12501	0.22	0.82	0.00	6.00
R3ADLTOT M	14446	0.32	0.90	0.00	6.00

R4ADLTOT M	13804	0.38	1.02	0.00	6.00
_					
R5ADLTOT_M	15762	0.33	0.96	0.00	6.00
S1ADLTOT M	9974	0.19	0.76	0.00	6.00
S2ADLTOT_M	8737	0.18	0.72	0.00	6.00
S3ADLTOT M	9865	0.27	0.81	0.00	6.00
S4ADLTOT M	9167	0.32	0.94	0.00	6.00
_					
S5ADLTOT_M	7065	0.33	0.96	0.00	6.00
R1ADLTOTM M	15186	0.15	0.66	0.00	6.00
_					
R2ADLTOTM_M	13704	0.11	0.44	0.00	6.00
R3ADLTOTM M	15723	0.10	0.37	0.00	6.00
R4ADLTOTM M	14779	0.09	0.42	0.00	6.00
_					
R5ADLTOTM_M	17114	0.11	0.53	0.00	6.00
S1ADLTOTM M	10648	0.13	0.60	0.00	6.00
_					
S2ADLTOTM_M	9564	0.10	0.39	0.00	6.00
S3ADLTOTM M	10592	0.09	0.36	0.00	6.00
S4ADLTOTM M	9652	0.06	0.33	0.00	6.00
_					
S5ADLTOTM_M	7638	0.12	0.59	0.00	6.00
R1ADLTOTA M	14113	0.10	0.30	0.00	1.00
_	12501	0.10			
R2ADLTOTA_M			0.30	0.00	1.00
R3ADLTOTA M	14446	0.16	0.37	0.00	1.00
R4ADLTOTA M	13804	0.18	0.39	0.00	1.00
R5ADLTOTA_M	15762	0.16	0.37	0.00	1.00
S1ADLTOTA M	9974	0.09	0.29	0.00	1.00
S2ADLTOTA M	8737	0.08	0.28	0.00	1.00
S3ADLTOTA_M	9865	0.14	0.35	0.00	1.00
S4ADLTOTA M	9167	0.16	0.36	0.00	1.00
	7065		0.36		
S5ADLTOTA_M	7063	0.16	0.36	0.00	1.00
R1ADLA	14113	0.20	0.72	0.00	5.00
R2ADLA	12501	0.19	0.70	0.00	5.00
R3ADLA	14446	0.27	0.77	0.00	5.00
R4ADLA	13804	0.33	0.89	0.00	5.00
R5ADLA	15762	0.28	0.82	0.00	5.00
ROADHA	13702	0.20	0.02	0.00	3.00
S1ADLA	9974	0.17	0.65	0.00	5.00
S2ADLA	8737	0.15	0.62	0.00	5.00
	9865	0.23	0.70	0.00	5.00
S3ADLA					
S4ADLA	9167	0.28	0.81	0.00	5.00
S5ADLA	7065	0.28	0.81	0.00	5.00
D 1 3 D T 3 3 4	15100	0 10	0 50	0.00	F 00
R1ADLAM	15186	0.13	0.56	0.00	5.00
R2ADLAM	13704	0.10	0.39	0.00	5.00
R3ADLAM	15723	0.09	0.34	0.00	5.00
R4ADLAM	14779	0.08	0.38	0.00	5.00
R5ADLAM	17114	0.11	0.47	0.00	5.00
C17DT7M	10640	0 12	0.50	0 00	5 00
S1ADLAM	10648	0.12	0.50	0.00	5.00
S2ADLAM	9564	0.10	0.36	0.00	5.00
S3ADLAM	10592	0.08	0.33	0.00	5.00
	9652	0.06	0.30	0.00	5.00
S4ADLAM					
S5ADLAM	7638	0.11	0.51	0.00	5.00
R1ADLAA	14113	0.10	0.30	0.00	1.00
R2ADLAA	12501	0.10	0.30	0.00	1.00
R3ADLAA	14446	0.15	0.36	0.00	1.00
R4ADLAA	13804	0.17	0.38	0.00	1.00
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	1 = 7 < 0	O 1 F	0 2 0		
R5ADLAA	15762	0.15	0.36	0.00	1.00
KJADLAA	15762	0.15	0.36	0.00	1.00
S1ADLAA	15762 9974	0.15	0.36	0.00	1.00

S2ADLAA	8737	0.08	0.27	0.00	1.00
S3ADLAA	9865	0.13	0.34	0.00	1.00
S4ADLAA	9167	0.15	0.36	0.00	1.00
S5ADLAA	7065	0.15	0.36	0.00	1.00
001122111	, 0 00	0.20	0.00	0.00	1.00
R1ADLFIVE	14113	0.18	0.69	0.00	5.00
R2ADLFIVE	12501	0.18	0.67	0.00	5.00
R3ADLFIVE	14446	0.26	0.75	0.00	5.00
R4ADLFIVE	13804	0.32	0.86	0.00	5.00
R5ADLFIVE	15762	0.27	0.80	0.00	5.00
01 A DI DII/D	9974	0 16	0 62	0 00	5.00
SIADLFIVE		0.16	0.63	0.00	
S2ADLFIVE	8737	0.14	0.60	0.00	5.00
S3ADLFIVE	9865	0.22	0.68	0.00	5.00
S4ADLFIVE	9167	0.27	0.79	0.00	5.00
S5ADLFIVE	7065	0.27	0.79	0.00	5.00
D 1 7 D T D T 7 T 7 T 7 T 7 T 7 T 7 T 7 T 7	15106	0 10	0 56	0.00	F 00
R1ADLFIVEM	15186	0.13	0.56	0.00	5.00
R2ADLFIVEM	13704	0.10	0.39	0.00	5.00
R3ADLFIVEM	15723	0.09	0.34	0.00	5.00
R4ADLFIVEM	14779	0.08	0.38	0.00	5.00
R5ADLFIVEM	17114	0.11	0.47	0.00	5.00
01301011111	10640	0 10	0 50	0.00	F 00
S1ADLFIVEM	10648	0.12	0.50	0.00	5.00
S2ADLFIVEM	9564	0.10	0.36	0.00	5.00
S3ADLFIVEM	10592	0.08	0.33	0.00	5.00
S4ADLFIVEM	9652	0.06	0.30	0.00	5.00
S5ADLFIVEM	7638	0.11	0.51	0.00	5.00
R1ADLFIVEA	14113	0.10	0.29	0.00	1.00
R2ADLFIVEA	12501	0.09	0.29	0.00	1.00
R3ADLFIVEA	14446	0.15	0.36	0.00	1.00
R4ADLFIVEA	13804	0.17	0.37	0.00	1.00
R5ADLFIVEA	15762	0.14	0.35	0.00	1.00
S1ADLFIVEA	9974	0.08	0.28	0.00	1.00
S2ADLFIVEA	8737	0.07	0.26	0.00	1.00
S3ADLFIVEA	9865	0.13	0.34	0.00	1.00
S4ADLFIVEA	9167	0.15	0.35	0.00	1.00
S5ADLFIVEA	7065	0.15	0.35	0.00	1.00
R1ADLA_M	14971	0.16	0.64	0.00	4.00
R2ADLA_M	13652	0.16	0.63	0.00	4.00
R3ADLA_M	15690	0.24	0.71	0.00	4.00
R4ADLA_M	14732	0.28	0.79	0.00	4.00
R5ADLA_M	17009	0.24	0.74	0.00	4.00
S1ADLA_M	10524	0.13	0.56	0.00	4.00
S2ADLA_M	9538	0.13	0.55	0.00	4.00
S3ADLA_M	10566	0.18	0.60	0.00	4.00
S4ADLA_M	9637	0.22	0.68	0.00	4.00
S5ADLA_M	7576	0.22	0.71	0.00	4.00
		_	_	_	
R1ADLAM_M	15186	0.06	0.47	0.00	4.00
R2ADLAM_M	13704	0.02	0.25	0.00	4.00
R3ADLAM_M	15723	0.01	0.19	0.00	4.00
R4ADLAM_M	14779	0.02	0.23	0.00	4.00
R5ADLAM_M	17114	0.03	0.32	0.00	4.00
		_	_	_	
S1ADLAM_M	10648	0.05	0.43	0.00	4.00
S2ADLAM_M	9564	0.01	0.21	0.00	4.00
S3ADLAM_M	10592	0.01	0.21	0.00	4.00
S4ADLAM_M	9652	0.01	0.16	0.00	4.00
S5ADLAM_M	7638	0.03	0.36	0.00	4.00
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R1ADLAA M	14971	0.08	0.27	0.00	1.00
R2ADLAA M	13652	0.08	0.28	0.00	1.00
R3ADLAA M	15690	0.13	0.34	0.00	1.00
R4ADLAA M	14732	0.15	0.36	0.00	1.00
R5ADLAA_M	17009	0.12	0.33	0.00	1.00
S1ADLAA M	10524	0.07	0.25	0.00	1.00
S2ADLAA M	9538	0.07	0.25	0.00	1.00
S3ADLAA M	10566	0.11	0.31	0.00	1.00
S4ADLAA M	9637	0.12	0.33	0.00	1.00
S5ADLAA M	7576	0.11	0.32	0.00	1.00
SUADLIAA_II	7370	0.11	0.52	0.00	1.00
R1ADLWA	14113	0.11	0.42	0.00	3.00
R2ADLWA	12501	0.10	0.42	0.00	3.00
R3ADLWA	14446	0.15	0.46	0.00	3.00
R4ADLWA	13804	0.18	0.53	0.00	3.00
R5ADLWA	15762	0.16	0.49	0.00	3.00
S1ADLWA	9974	0.09	0.38	0.00	3.00
S2ADLWA	8737	0.08	0.37	0.00	3.00
S3ADLWA	9865	0.12	0.41	0.00	3.00
S4ADLWA	9167	0.16	0.49	0.00	3.00
S5ADLWA	7065	0.16	0.48	0.00	3.00
JJADIWA	7005	0.10	0.40	0.00	3.00
R1ADLWAM	15186	0.10	0.37	0.00	3.00
R2ADLWAM	13704	0.10	0.32	0.00	3.00
R3ADLWAM	15723	0.09	0.29	0.00	3.00
R4ADLWAM	14779	0.07	0.30	0.00	3.00
R5ADLWAM	17114	0.09	0.35	0.00	3.00
S1ADLWAM	10648	0.09	0.34	0.00	3.00
S2ADLWAM	9564	0.09	0.30	0.00	3.00
S3ADLWAM	10592	0.08	0.28	0.00	3.00
S4ADLWAM	9652	0.06	0.25	0.00	3.00
S5ADLWAM	7638	0.09	0.36	0.00	3.00
COLIDANIAL	7 000	0.03	0.00	0.00	3.00
R1ADLWAA	14113	0.08	0.26	0.00	1.00
R2ADLWAA	12501	0.07	0.26	0.00	1.00
R3ADLWAA	14446	0.11	0.31	0.00	1.00
R4ADLWAA	13804	0.13	0.34	0.00	1.00
R5ADLWAA	15762	0.11	0.32	0.00	1.00
MANTIMAN	10/02	∪• ⊥ ⊥	0.32	0.00	1.00
S1ADLWAA	9974	0.07	0.25	0.00	1.00
S2ADLWAA	8737	0.06	0.24	0.00	1.00
S3ADLWAA	9865	0.10	0.30	0.00	1.00
S4ADLWAA	9167	0.11	0.32	0.00	1.00
S5ADLWAA	7065	0.12	0.32	0.00	1.00
COMPTINA	7005	0.12	0.52	0.00	1.00

Categorical Variable Codes

Value	R1ADLTOTA M	R2ADLTOTA M	R3ADLTOTA M	R4ADLTOTA M	R5ADLTOTA M
.d:DK	_1		_1	_5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	2		1	1	7
0.No	12659	11224	12096	11305	13265
1.Yes	1454	1277	2350	2499	2497
Value	S1ADLTOTA M	S2ADLTOTA M	S3ADLTOTA M	S4ADLTOTA M	S5ADLTOTA M
.d:DK	_	_	_1	_5	_
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	1				5
.u:Unmar	4205	4009	4782	4847	5227

.v:SP NR	333	131	349	280	501
0.No	9073	8007	8446	7722	5947
1.Yes	901	730	1419	1445	1118
Value		R2ADLAA	R3ADLAA	R4ADLAA	R5ADLAA
.d:DK	1		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	2		1	1	7
0.No	12723	11266	12275	11435	13427
1.Yes	1390	1235	2171	2369	2335
Value	S1ADLAA	S2ADLAA	S3ADLAA	S4ADLAA	S5ADLAA
.d:DK			1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	1				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9119	8026	8554	7805	6019
1.Yes	855	711	1311	1362	1046
Value	R1ADLFIVEA	R2ADLFIVEA	R3ADLFIVEA	R4ADLFIVEA	R5ADLFIVEA
.d:DK	1		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	2		1	1	7
0.No	12764	11370	12271	11493	13490
1.Yes	1349	1131	2175	2311	2272
Value	S1ADLFIVEA	S2ADLFIVEA	S3ADLFIVEA	S4ADLFIVEA	S5ADLFIVEA
.d:DK			1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	1				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9132	8082	8543	7821	6032
1.Yes	842	655	1322	1346	1033
Value	R1ADLAA_M	R2ADLAA_M	R3ADLAA_M	R4ADLAA_M	R5ADLAA_M
.d:DK	38		31	6	2
.m:Missing	40	47		40	18
.r:Refuse	137	5	2	1	85
0.No	13767	12520	13639	12492	14943
1.Yes	1204	1132	2051	2240	2066
Value	0120122	0020122	0020122	0430133.44	0530133 14
	_	S2ADLAA_M	S3ADLAA_M	S4ADLAA_M	S5ADLAA_M
.d:DK	22	2.2	25	5	_
.m:Missing	14	23	4	10	6
.r:Refuse	88	3	1	4047	56
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9838	8916	9452	8462	6727
1.Yes	686	622	1114	1175	849
Value	ה 1 א הייניא א	D 0 J D I 1-13 J	D 3 N T T T T N	D / ז ור ז ד. ד. ז	DENDIGI
		R2ADLWAA	R3ADLWAA 1	R4ADLWAA	R5ADLWAA
.d:DK	1 38	25	1	5 40	17
.m:Missing			1075		
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse 0.No	2 13043	11603	1 12853	1 12025	7 13963
1.Yes	1070	898	1593	1779	1799
Value	Q1 A DT MA A	221 DI WIN 1	C S V D I M V V	C V M TO V V S	951 DT W111
value .d:DK	S1ADLWAA	S2ADLWAA	S3ADLWAA 1	S4ADLWAA 5	S5ADLWAA
.m:Missing	13	6	1	10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	1	021	120	470	5
.r:keruse .u:Unmar	4205	4009	4782	4847	5 5227
.v:SP NR	333	131	349	280	501
0.No	9310	8213	8907	8141	6235
1.Yes	664	524	958	1026	830
1.100	004	J24	900	T070	0.50

How Constructed

Five activities of daily living (ADL) summaries are derived from the Rw[adl]A variables.

The first one (RwADLTOT_M) includes all available ADL measures: RwBATHA, RwDRESSA, RwEATA, RwBEDA, RwWALKRA, and RwTOILTA. The second one (RwADLA) includes the following five ADL measures: RwBATHA, RwDRESSA, RwEATA, RwBEDA, and RwWALKRA. The third one (RwADLFIVE) includes an alternative grouping of five ADL measures: RwBATHA, RwDRESSA, RwEATA, RwBEDA, and RwTOILTA. The fourth one (RwADLA_M) is an MHAS specific summary variable that includes the following four variables: RwBATHA, RwEATA, RwBEDA, and RwWALKRA. This variable was created excluding RwDRESSA since the difficulty with dressing variable was skipped for proxy interviews. The fifth summary measure uses the ADLs proposed by Wallace and Herzog in their paper (Wallace and Herzog, 1995) to define an ADL summary (RwADLWA): bathe, dress, and eat. In all waves the indicators of "some difficulty" are used to construct these summary measures. Each limitation adds one to the summary measures even if one or more measures have missing special values as long at least one of the ADL components was completed, that is:

RWADLTOT M = sum (RWBATHA, RWDRESSA, RWEATA, RWBEDA, RWWALKRA, RWTOILTA).

RWADLA = sum (RWBATHA, RWDRESSA, RWEATA, RWBEDA, RWWALKRA).

RWADLFIVE = sum (RWBATHA, RWDRESSA, RWEATA, RWBEDA, RWTOILTA).

RWADLA M = sum (RWBATHA, RWEATA, RWBEDA, RWWALKRA).

RwADLWA = sum (RwBATHA, RwDRESSA, RwEATA).

Each of these summary variables is calculated as long as at least one of its components is not missing. RWADLTOTM_M, RWADLAM, RWADLAM_M, and RWADLWAM count the number of missing components for each summary score. RWADLTOTA_M, RWADLAA, RWADLFIVEA, RWADLA_M, and RWADLWA indicate whether the respondent had difficulty with any item in the summary. They are coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item. RWADLTOT_M, RWADLA, RWADLFIVE, RWADLA_M, RWADLWA, RWADLWOA, RWADLTOTA_M, RWADLAA, RWADLFIVEA, RWADLA_M, and RWADLWA are assigned special missing .d, .r, .x, .p, .m, for don't know, refused, doesn't do, proxy, or otherwise missing responses, respectively. These variables are assigned a blank missing (.) for respondents who did not participate in the current wave.

SWADLTOT_M, SwADLA, SwADLFIVE, SwADLA_M, and SwADLWA are the respondent's spouse's ADL summaries and are taken directly from the spouse's RwADLTOT_M, RwADLA, RwADLFIVE, RwADLA_M, and RwADLWA, respectively. SwADLTOTM_M, SwADLAM, SwADLFIVEM, SwADLAM_M, and SwADLWAM are the respondent's spouse's counts of missing values in the corresponding ADL summaries and are taken directly from the spouse's RwADLTOTM_M, RwADLAM, RwADLFIVEM, RwADLAM_M, and RwADLWAM, respectively. SwADLTOTA_M, SwADLAA, SwADLFIVEA, SwADLA_M, and SwADLWA are the respondent's spouse's indicators of any difficulty in the ADL summaries and are taken directly from the spouse's RwADLTOTA_M, RwADLAA, RwADLFIVEA, RwADLA_M, and RwADLWA. In addition to the special missing codes used in the respondent variables, the spouse variables employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please see "Activities of Daily Living (ADLs): Some difficulty" for a description of how the individual 0/1 indicators (RwBATHA, RwDRESSA, RwEATA, RwBEDA, RwWALKRA, and RwTOILTA) are constructed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the activities of daily living (ADLs) recodes for comparison to Wallace and Herzog and the ADL summary that includes these variables, were not created in the MHAS. These variables code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper (Wallace and Herzog, 1995). In the HRS, respondents are asked if the activity is "a little difficult", "somewhat difficult" or "very difficult/can't do". The ADL variables are recoded to 1 for "any difficulty" if the respondent answered "a little difficult", "somewhat difficult" or "very

difficult/can't do" according to Wallace and Herzog. However, in the MHAS, respondents are only asked if they have "some difficulty" with the ADLs.

MHAS Variables Used

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Wave 1:
    Н1
                    long walk
    H10
                    pulling
    H11
                    picking up
    H12
                    picking up a coin
   H13
                    dressing
   H14
                    help dressing
   H15 1
                    difficult walking
   H15 3
                    spouse helps walking
                    other helps walking
   H15 4
                    difficult bathing
   H16 1
   Н16 3
                    spouse helps bathing
   H16 4
                    other helps bathing
   H17_1
                    difficult eating
   H17_3
                    spouse helps eating
   H17 4
                    other helps eating
   H18 1
                    difficult getting in an out of bed
   H18 3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
   H19<sup>-</sup>1
                    difficult using toilet
   Н19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
                    sitting 2 hours
   H4
                    getting up
                    long climbing
    Н7
                    short climbing
    Н8
                    bending
   Н9
                    extending arms
Wave 2:
                    health problems-trouble walking blocks
   Н1
    H10
                    health problems-trouble pushing or pulling
    H11
                    health problems-trouble carrying objects
    H12
                    health problems-trouble picking up a coin
    H13
                    health problems-trouble dressing self
    H14
                    someone help you to get dressed
                    health problem-trouble walking
    H15A
                    spouse helps
    H15E
    H15F
                    additional person helps
    H16A
                    health problem-have trouble bathing
    H16E
                    spouse helps
    H16F
                    additional person helps
   H17A
                    health problem-trouble eating or cutting
    H17E
                    spouse helps
                    additional person helps
    H17F
                    health problem-get in/out of bed
    H18A
    H18E
                    spouse helps
    H18F
                    additional person helps
   H19A
                    health problem-trouble going to bathroom
   H19E
                    spouse helps
                    additional person helps
   H19F
                    health problems-trouble staying seated
   H4
   Н5
                    health problems-trouble getting up from chair
                    health problems-trouble with flights of stairs
                    health problems-trouble with 1 flight of stairs
    Н8
                    health problems-trouble sitting up
   Н9
                    health problems-trouble lifting arms
Wave 3:
   H10 12
                    Because of health problem, difficulty pushing or pullin
    H11 12
                    Because of health problem, difficulty carrying objects
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H12_12	
	Because of health problem, difficulty picking up a coin
H13_12	Because of health problem, difficulty dressing self
H14 12	Someone help you to get dressed
H15A 12	Because of health problem, difficulty walking
H15D 12	Someone help you walk across room
H16A 12	Because of health problem, difficulty bathing
H16D 12	Someone help you to bathe or shower
H17A 12	Because of health problem, difficulty eating or cutting
H17D 12	Does someone help you eat your food
H18A 12	Because of health problem, difficulty get in/out of bed
H18D 12	Does someone help you get into or out of bed
H19A 12	Because of health problem, difficulty going to the bath
H19D 12	Does someone help you use toilet, get on off
H1 12	Because of health problem, difficulty walking blocks
H4 12	Because of health problem, difficulty staying seated
H5 12	Because of health problem, difficulty getting up from c
H6 12	Because of health problem, difficulty with flights of s
H7 12	Because of health problem, difficulty with 1 flight of
_	
H8_12	Because of health problem, difficulty sitting up
H9_12	Because of health problem, difficulty lifting arms
Wave 4:	December of health much law days are an electrical field.
H10_15	Because of health problem, does respondent have difficu
H11_15	Because of health problem, does respondent have difficu
H12_15	Because of health problem, does respondent have difficu
н13_15	Because of health problem, does respondent have difficu
н14_15	Does someone help respondent to get dressed
H15A_15	Because of health problem, does respondent have any dif
H15D_15	Does someone help respondent walking across a room
H16A_15	Because of health problem, does respondent have any dif
H16D_15	Does someone help respondent bathing or showering
H17A_15	Because of health problem, does respondent have any dif
H17D_15	Does someone help respondent eating
H18A_15	Because of health problem, does respondent have any dif
H18D_15	Does someone help respondent getting in or out of bed
H19A_15	Because of health problem, does respondent have any dif
H19D 15	Does someone help respondent using the toilet
H1 1 5	Because of health problem, does respondent have difficu
H4 15	Because of health problem, does respondent have difficu
н5 [—] 15	Because of health problem, does respondent have difficu
н6 [—] 15	Description of health muchles descriptions difficu
	Because of health problem, does respondent have difficu
H7 15	Because of health problem, does respondent have difficu
_	
H7_15	Because of health problem, does respondent have difficu
н7_15 н8_15	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu
H7_15 H8_15 H9_15	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu
H7_15 H8_15 H9_15 Wave 5:	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi
H7_15 H8_15 H9_15 Wave 5: H10_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H15D_18 H16A_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H15D_18 H16A_18 H16D_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H15D_18 H16A_18 H16D_18 H17A_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin
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H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H15D_18 H16A_18 H16D_18 H17A_18 H17A_18 H17D_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15D_18 H16A_18 H16D_18 H17A_18 H17D_18 H17A_18 H17D_18 H18A_18 H18D_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H15D_18 H16A_18 H16D_18 H17A_18 H17D_18 H17A_18 H17D_18 H17A_18 H17D_18 H18A_18 H18D_18 H19A_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed Because of health problem, does R have any difficulty u
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H15D_18 H16A_18 H17A_18 H17A_18 H17A_18 H17D_18 H17A_18 H17D_18 H18A_18 H18D_18 H19A_18 H19D_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed Because of health problem, does R have any difficulty u Does someone help R using the toilet
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15D_18 H16A_18 H16D_18 H17A_18 H17D_18 H17A_18 H17D_18 H18A_18 H18D_18 H19A_18 H19D_18 H19A_18 H19D_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed Because of health problem, does R have any difficulty u Does someone help R using the toilet Because of health problem, does R have difficulty walki
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H16A_18 H16A_18 H17A_18 H17A_18 H17A_18 H17A_18 H17A_18 H17D_18 H18A_18 H18D_18 H19A_18 H19A_18 H19A_18 H19B_18 H1_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed Because of health problem, does R have any difficulty u Does someone help R using the toilet Because of health problem, does R have difficulty walki Because of health problem, does R have difficulty sitti
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H16A_18 H16A_18 H17A_18 H17A_18 H17A_18 H17D_18 H17A_18 H17D_18 H17A_18 H17D_18 H18A_18 H19D_18 H19A_18 H19A_18 H19A_18 H19B_18 H19B_18 H19B_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed Because of health problem, does R have any difficulty u Does someone help R using the toilet Because of health problem, does R have difficulty walki Because of health problem, does R have difficulty sitti Due to health problem, difficult for R to get up from c
H7_15 H8_15 H9_15 Wave 5: H10_18 H11_18 H12_18 H13_18 H14_18 H15A_18 H15A_18 H16A_18 H16A_18 H17A_18 H17A_18 H17A_18 H17A_18 H17A_18 H17D_18 H18A_18 H18D_18 H19A_18 H19A_18 H19A_18 H19B_18 H1_18	Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does respondent have difficu Because of health problem, does R have difficulty pushi Due to health problem, difficult for R to lift/carry ob Due to health problem, does R have difficulty picking u Due to health problem, difficult for R to dress, includ Does someone help R to get dressed Because of health problem, does R have any difficulty w Does someone help R walking across a room Because of health problem, does R have any difficulty b Does someone help R bathing or showering Due to health problem, does R have any difficulty eatin Does someone help R eating Because of health problem, does R have any difficulty g Does someone help R getting in or out of bed Because of health problem, does R have any difficulty u Does someone help R using the toilet Because of health problem, does R have difficulty walki Because of health problem, does R have difficulty sitti

H8_18 Due to health problem, does R have difficulty stooping, H9_18 Due to health problem, difficult for R to reach/extend

IADL Summary: Sum IADLs Where Respondent Reports Any Difficulty

Wave	Variable	Label	Туре
2 3 4	R1IADLFOUR R2IADLFOUR R3IADLFOUR R4IADLFOUR R5IADLFOUR	rliadlfour: w1 R Some difficulty-IADLs 0-4 r2iadlfour: w2 R Some difficulty-IADLs 0-4 r3iadlfour: w3 R Some difficulty-IADLs 0-4 r4iadlfour: w4 R Some difficulty-IADLs 0-4 r5iadlfour: w5 R Some difficulty-IADLs 0-4	Cont Cont Cont Cont
3	S1IADLFOUR S2IADLFOUR S3IADLFOUR S4IADLFOUR S5IADLFOUR	sliadlfour: w1 S Some difficulty-IADLs 0-4 s2iadlfour: w2 S Some difficulty-IADLs 0-4 s3iadlfour: w3 S Some difficulty-IADLs 0-4 s4iadlfour: w4 S Some difficulty-IADLs 0-4 s5iadlfour: w5 S Some difficulty-IADLs 0-4	Cont Cont Cont Cont
2 3 4 5 1 2 3	R1IADLFOURM R2IADLFOURM R3IADLFOURM R4IADLFOURM R5IADLFOURM S1IADLFOURM S2IADLFOURM S3IADLFOURM S4IADLFOURM	rliadlfourm: w1 R Some difficulty-Missings in IADLs Score r2iadlfourm: w2 R Some difficulty-Missings in IADLs Score r3iadlfourm: w3 R Some difficulty-Missings in IADLs Score r4iadlfourm: w4 R Some difficulty-Missings in IADLs Score r5iadlfourm: w5 R Some difficulty-Missings in IADLs Score s1iadlfourm: w1 S Some difficulty-Missings in IADLs Score s2iadlfourm: w2 S Some difficulty-Missings in IADLs Score s3iadlfourm: w3 S Some difficulty-Missings in IADLs Score s4iadlfourm: w4 S Some difficulty-Missings in IADLs Score	Cont Cont Cont Cont Cont Cont Cont Cont
5 1 2 3 4	S51ADLFOURM R11ADLFOURA R21ADLFOURA R31ADLFOURA R41ADLFOURA R51ADLFOURA	stiadlfourm: w4 S Some difficulty-Missings in IADLs Score stiadlfoura: w5 S Some difficulty IADLs 0-4 r2iadlfoura: w2 R Any difficulty IADLs 0-4 r3iadlfoura: w3 R Any difficulty IADLs 0-4 r4iadlfoura: w4 R Any difficulty IADLs 0-4 r5iadlfoura: w5 R Any difficulty IADLs 0-4	Cont Categ Categ Categ Categ Categ Categ
2	S1IADLFOURA S2IADLFOURA S3IADLFOURA S4IADLFOURA S5IADLFOURA	sliadlfoura: w1 S Any difficulty IADLs 0-4 s2iadlfoura: w2 S Any difficulty IADLs 0-4 s3iadlfoura: w3 S Any difficulty IADLs 0-4 s4iadlfoura: w4 S Any difficulty IADLs 0-4 s5iadlfoura: w5 S Any difficulty IADLs 0-4	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IADLFOUR	14085	0.14	0.58	0.00	4.00
R2IADLFOUR	12494	0.15	0.60	0.00	4.00
R3IADLFOUR	14445	0.18	0.60	0.00	4.00
R4IADLFOUR	13803	0.22	0.67	0.00	4.00
R5IADLFOUR	15755	0.17	0.59	0.00	4.00
S1TADLFOUR	9952	0 11	0 40	0.00	4 00
		0.11	0.49		4.00
S2IADLFOUR	8732	0.11	0.50	0.00	4.00
S3IADLFOUR	9864	0.13	0.52	0.00	4.00
S4IADLFOUR	9167	0.16	0.57	0.00	4.00
S5IADLFOUR	7062	0.15	0.56	0.00	4.00
R1IADLFOURM	15186	0.37	1.08	0.00	4.00
R2IADLFOURM	13704	0.42	1.15	0.00	4.00
R3IADLFOURM	15723	0.40	1.11	0.00	4.00
R4IADLFOURM	14779	0.34	1.02	0.00	4.00
R5IADLFOURM	17114	0.36	1.09	0.00	4.00

S1IADLFOURM	10648	0.35	1.04	0.00	4.00	
S2IADLFOURM	9564	0.42	1.15	0.00	4.00	
S3IADLFOURM	10592	0.35	1.04	0.00	4.00	
S4IADLFOURM	9652	0.27	0.91	0.00	4.00	
S5IADLFOURM	7638	0.35	1.07	0.00	4.00	
R1IADLFOURA	14085	0.08	0.26	0.00	1.00	
R2IADLFOURA	12494	0.08	0.27	0.00	1.00	
R3IADLFOURA	14445	0.11	0.31	0.00	1.00	
R4IADLFOURA	13803	0.13	0.33	0.00	1.00	
R5IADLFOURA	15755	0.09	0.29	0.00	1.00	
S1IADLFOURA	9952	0.06	0.24	0.00	1.00	
S2IADLFOURA	8732	0.06	0.23	0.00	1.00	
S3IADLFOURA	9864	0.08	0.27	0.00	1.00	
S4IADLFOURA	9167	0.09	0.29	0.00	1.00	
S5IADLFOURA	7062	0.09	0.29	0.00	1.00	

Categorical Variable Codes

Value	R1IADLFOURA	R2IADLFOURA	R3IADLFOURA	R4IADLFOURA	R5IADLFOURA
.d:DK	13		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	10	1	1	1	12
.x:Doesn't do	8	6	1	1	2
0.No	13016	11504	12918	12040	14283
1.Yes	1069	990	1527	1763	1472
Value	S1IADLFOURA	S2IADLFOURA	S3IADLFOURA	S4IADLFOURA	S5IADLFOURA
.d:DK	11		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	7	1			7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	5	4	1		1
0.No	9355	8232	9068	8299	6432
1.Yes	597	500	796	868	630

How Constructed

One instrumental activities of daily living (IADL) summary variable was constructed. RwIADLFOUR summarizes the commonly used IADLs including managing money, taking medications, shopping for groceries, and preparing hot meals. In all waves the indicators of "some difficulty" are used to construct this summary measure. Each limitation adds one to the summary measures even if one or more measures have missing special values and if at least one of the IADL components was completed, that is:

RWIADLFOUR = sum (RwMoneya, RwMedsa, Rwshopa, Rwshopa, Rwmealsa). RwIadlfourm is the number of Iadl questions with missing values, ranging from 0 to 4. RwIadlfoura indicates whether the respondent had difficulty with any item in the summary. They are coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item. RwIadlfoura and RwIadlfoura are assigned special missing .d, .r, .x, .p, .m, for don't know, refused, doesn't do, proxy, or otherwise missing responses, respectively. RwIadlfoura, RwIadlfoura, and RwIadlfoura are assigned a blank missing (.) for respondents who did not participate in the current wave.

SwIADLFOUR, SwIADLFOURM, and SwIADLFOURA are the respondent's spouse's IADL summary, count of missing values in that summary, and indicator of any difficulty in that summary, and are taken directly from the spouse's RwIADLFOUR, RwIADLFOURM, and RwIADLFOURA, respectively. In addition to the special missing codes used in RwIADLFOUR, RwIADLFOURM, and RwIADLFOURA, SwIADLFOURM, and SwIADLFOURA employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please see "Instrumental Activities of Daily Living (IADLs): Some difficulty" for a description of how the individual 0/1 indicators (RwMONEYA, RwMEDSA, RwSHOPA, and RwMEALSA) are constructed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS does not include the instrumental activities of daily living (IADLs) regarding using the phone and using a map. An IADL summary variable was created including using managing money (RwMONEYA), taking medications (RwMEDSA), shopping for groceries (RwSHOPA), and preparing meals (RwMEALSA), for which a comparable summary variable is available in the Harmonized HRS.

MHAS Variables Used

Wave 1:	
H26 1	hot meal
H26_2	health prevents preparing hot meal
H27 1	shopping
H27 2	health prevents shopping
H28 1	taking medication
H28 2	health prevents taking medication
H29 1	managing money
H29 2	health prevents managing money
Wave 2:	
H26A	trouble preparing hot food
н26В	this is due to a health problem
H27A	trouble shopping
н27в	this is due to a health problem
H28A	trouble taking medicine
H28B	this is due to a health problem
H29A	trouble managing money
H29B	this is due to a health problem
Wave 3:	
H26A_12	Difficulty preparing hot food
H26B_12	Difficulty preparing hot food due to a health problem
H27A_12	Difficulty shopping
H27B_12	Difficulty shopping due to a health problem
H28A_12	Difficulty taking medications
H28B_12	Difficulty taking medications due to a health problem
H29A_12	Difficulty managing money
H29B_12	Difficulty managing money due to a health problem
Wave 4:	
H26A_15	Because of health problem, does respondent have any dif
H26B_15	Is this (difficulty preparing a hot meal) because of a
H27A_15	Because of health problem, does respondent have any dif
H27B_15	Is this (shopping for groceries) because of a health pr
H28A_15	Because of health problem, does respondent have any dif
H28B_15	Is this (taking medications) because of a health proble
H29A_15	Because of health problem, does respondent have any dif
H29B_15	Is this (managing his/her money) because of a health pr
Wave 5:	D
H26A_18	Because of health problem, does R have any difficulty p
H26B_18	Is this (difficulty preparing a hot meal) because of a
H27A_18 H27B 18	Because of health problem, does R have any difficulty s Is this (difficulty shopping for groceries) because of
H28A 18	Because of health problem, does R have any difficulty t
H28B 18	Is this (difficulty taking medications) because of a he
H29A 18	Because of health problem, does R have any difficulty m
H29A_10 H29B 18	Is this (difficulty managing his/her money) because of
112 70_10	10 chilo (difficulty managing hilo/her money) because of

Other Summary Indices: Mobility, Large Muscle, Gross, Fine Motor, Total, Upper, Lower Body Mobility, and NAGI Activities

Wave	Variable	Label	Туре
1	R1MOBILA	rlmobila: w1 R Some difficulty-Mobility 0-5	Cont
2	R2MOBILA	r2mobila: w2 R Some difficulty-Mobility 0-5	Cont
	R3MOBILA	r3mobila: w3 R Some difficulty-Mobility 0-5	Cont
4	R4MOBILA	r4mobila: w4 R Some difficulty-Mobility 0-5	Cont
5	R5MOBILA	r5mobila: w5 R Some difficulty-Mobility 0-5	Cont
J	TOTIODIDI	Tomobila. We it bome difficulty flobility to the	00110
1	S1MOBILA	s1mobila: w1 S Some difficulty-Mobility 0-5	Cont
2	S2MOBILA	s2mobila: w2 S Some difficulty-Mobility 0-5	Cont
3	S3MOBILA	s3mobila: w3 S Some difficulty-Mobility 0-5	Cont
4	S4MOBILA	s4mobila: w4 S Some difficulty-Mobility 0-5	Cont
5	S5MOBILA	s5mobila: w5 S Some difficulty-Mobility 0-5	Cont
		• • •	
1	R1MOBILAM	rlmobilam: w1 R Some difficulty-Missings in Mobility Score	Cont
2	R2MOBILAM	r2mobilam: w2 R Some difficulty-Missings in Mobility Score	Cont
3	R3MOBILAM	r3mobilam: w3 R Some difficulty-Missings in Mobility Score	Cont
4	R4MOBILAM	r4mobilam: w4 R Some difficulty-Missings in Mobility Score	Cont
5	R5MOBILAM	r5mobilam: w5 R Some difficulty-Missings in Mobility Score	Cont
1	S1MOBILAM	s1mobilam: w1 S Some difficulty-Missings in Mobility Score	Cont
2	S2MOBILAM	s2mobilam: w2 S Some difficulty-Missings in Mobility Score	Cont
3	S3MOBILAM	s3mobilam: w3 S Some difficulty-Missings in Mobility Score	Cont
4	S4MOBILAM	s4mobilam: w4 S Some difficulty-Missings in Mobility Score	Cont
5	S5MOBILAM	s5mobilam: w5 S Some difficulty-Missings in Mobility Score	Cont
1	R1MOBILAA	rlmobilaa: w1 R Any difficulty Mobility 0-5	Categ
2	R2MOBILAA	r2mobilaa: w2 R Any difficulty Mobility 0-5	Categ
3	R3MOBILAA	r3mobilaa: w3 R Any difficulty Mobility 0-5	Categ
4	R4MOBILAA	r4mobilaa: w4 R Any difficulty Mobility 0-5	Categ
5	R5MOBILAA	r5mobilaa: w5 R Any difficulty Mobility 0-5	Categ
1	S1MOBILAA	slmobilaa: w1 S Any difficulty Mobility 0-5	Categ
2	S2MOBILAA	s2mobilaa: w2 S Any difficulty Mobility 0-5	Categ
3	S3MOBILAA	s3mobilaa: w3 S Any difficulty Mobility 0-5	Categ
4	S4MOBILAA	s4mobilaa: w4 S Any difficulty Mobility 0-5	Categ
5	S5MOBILAA	s5mobilaa: w5 S Any difficulty Mobility 0-5	Categ
1	R1LGMUSA	rllgmusa: w1 R Some difficulty-Large Muscle 0-4	Cont
2	R2LGMUSA	r2lgmusa: w2 R Some difficulty-Large Muscle 0-4	Cont
3	R3LGMUSA	r3lgmusa: w3 R Some difficulty-Large Muscle 0-4	Cont
4	R4LGMUSA	r4lgmusa: w4 R Some difficulty-Large Muscle 0-4	Cont
5	R5LGMUSA	r5lgmusa: w5 R Some difficulty-Large Muscle 0-4	Cont
4	017 017707	11 1 0 0 11001 11 7 11 1 0 1	~ ·
1	S1LGMUSA	sligmusa: w1 S Some difficulty-Large Muscle 0-4	Cont
2	S2LGMUSA	s21gmusa: w2 S Some difficulty-Large Muscle 0-4	Cont
3	S3LGMUSA	s31gmusa: w3 S Some difficulty-Large Muscle 0-4	Cont
4	S4LGMUSA	s4lgmusa: w4 S Some difficulty-Large Muscle 0-4	Cont
5	S5LGMUSA	s5lgmusa: w5 S Some difficulty-Large Muscle 0-4	Cont
1	D1T CMIICAM	willemnoom, vil D Como difficulty Micrimes in Tours March Com	Cont
1	R1LGMUSAM	r11gmusam: w1 R Some difficulty-Missings in Large Muscle Sco	Cont
2	R2LGMUSAM	r2lgmusam: w2 R Some difficulty-Missings in Large Muscle Sco	Cont
3	R3LGMUSAM	r3lgmusam: w3 R Some difficulty-Missings in Large Muscle Sco	Cont
4	R4LGMUSAM	r4lgmusam: w4 R Some difficulty-Missings in Large Muscle Sco	Cont
5	R5LGMUSAM	r5lgmusam: w5 R Some difficulty-Missings in Large Muscle Sco	Cont
1	C1T CMIICAM	allemnoom, v1 C Como difficulty Micrimes in Tours March Com	Cont
1	S1LGMUSAM	sligmusam: w1 S Some difficulty-Missings in Large Muscle Sco	Cont
2	S2LGMUSAM	s21gmusam: w2 S Some difficulty-Missings in Large Muscle Sco	Cont
3	S3LGMUSAM	s31gmusam: w3 S Some difficulty-Missings in Large Muscle Sco	Cont

SILAMUSAM SIlgmusam: w5 & Some difficulty-Missings in Large Muscle Sco Cont	4	S4LGMUSAM	s4lgmusam: w4 S Some difficulty-Missings in Large Muscle Sco	Cont
2 RICAMUSAA r21gmusaa: w2 R Any difficulty Large Muscle 0-4 Categ R RICAMUSAA r11gmusaa: w4 R Any difficulty Large Muscle 0-4 Categ R51GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ R51GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ S71GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ R51GMUSAA r51gmusaa: w5 R Any difficulty Large Muscle 0-4 Categ R51GMUSAA r51gmusaa: w5 R Any difficulty-Gross Motor 0-5 Cont R71GROSSA r51grossa: w1 R Some difficulty-Gross Motor 0-5 Cont R71GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSA r51grossa: w5 R Some difficulty-Gross Motor 0-5 Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAM r51grossam: w5 R Some difficulty-Missings in Gross Motor Cont R51GROSSAA r51grossam: w5 R Some difficulty-Missings in Gross	5			Cont
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3 S3GROSSAA s3grossaa: w3 S Any difficulty Gross Motor 0-5 4 S4GROSSAA s4grossaa: w4 S Any difficulty Gross Motor 0-5 5 S5GROSSAA s5grossaa: w5 S Any difficulty Gross Motor 0-5 6 Categ 7 R1FINEA r1finea: w1 R Some difficulty-Fine Motor 0-3 7 R2FINEA r2finea: w2 R Some difficulty-Fine Motor 0-3 8 R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 8 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 8 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 8 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 8 Cont 9 S2FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 8 S3FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 8 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 8 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 8 S5FINEA S5finea: w5 S Some difficulty-Fine Motor 0-3 8 Cont 9 S5FINEA S5finea: w5 S Some difficulty-Fine Motor 0-3 8 Cont				_
4 S4GROSSAA s4grossaa: w4 S Any difficulty Gross Motor 0-5 S5GROSSAA s5grossaa: w5 S Any difficulty Gross Motor 0-5 Categ 1 R1FINEA r1finea: w1 R Some difficulty-Fine Motor 0-3 Cont R2 R2FINEA r2finea: w2 R Some difficulty-Fine Motor 0-3 Cont R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 Cont R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 Cont SFFINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont S5FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont S5FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont				_
S SSGROSSAA SSGROSSAA: w5 S Any difficulty Gross Motor 0-5 R1FINEA r1finea: w1 R Some difficulty-Fine Motor 0-3 R2FINEA r2finea: w2 R Some difficulty-Fine Motor 0-3 R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont S5FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont S5FINEA S4finea: w5 S Some difficulty-Fine Motor 0-3 Cont				_
1 R1FINEA r1finea: w1 R Some difficulty-Fine Motor 0-3 Cont 2 R2FINEA r2finea: w2 R Some difficulty-Fine Motor 0-3 Cont 3 R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 Cont 4 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 Cont 5 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont 1 S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont 2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA S5finea: w5 S Some difficulty-Fine Motor 0-3 Cont 5 Cont 6 Cont 7 Cont 7 Cont 8 Cont 8 Cont 9 Con				_
2 R2FINEA r2finea: w2 R Some difficulty-Fine Motor 0-3 Cont 3 R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 Cont 4 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 Cont 5 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont 1 S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont 2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont 6 Cont	5	S5GROSSAA	s5grossaa: w5 S Any difficulty Gross Motor 0-5	Categ
2 R2FINEA r2finea: w2 R Some difficulty-Fine Motor 0-3 Cont 3 R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 Cont 4 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 Cont 5 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont 1 S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont 2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont 6 Cont	1	R1FINEA	rlfinea: wl R Some difficulty-Fine Motor 0-3	Cont
3 R3FINEA r3finea: w3 R Some difficulty-Fine Motor 0-3 Cont 4 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 Cont 5 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont 1 S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont 2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont				
4 R4FINEA r4finea: w4 R Some difficulty-Fine Motor 0-3 Cont r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont s2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont s3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont s4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont s5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont s5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont s5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont s5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont s5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont s5FINEA S5FIN				
5 R5FINEA r5finea: w5 R Some difficulty-Fine Motor 0-3 Cont 1 S1FINEA s1finea: w1 S Some difficulty-Fine Motor 0-3 Cont 2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont				
1 S1FINEA slfinea: wl S Some difficulty-Fine Motor 0-3 Cont 2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont				
2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont	J	TOT TIATIT	Totalica. Wo it dome difficulty fille motor of o	COIIC
2 S2FINEA s2finea: w2 S Some difficulty-Fine Motor 0-3 Cont 3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont	1	S1FINEA	slfinea: w1 S Some difficulty-Fine Motor 0-3	Cont
3 S3FINEA s3finea: w3 S Some difficulty-Fine Motor 0-3 Cont 4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont				
4 S4FINEA s4finea: w4 S Some difficulty-Fine Motor 0-3 Cont 5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont				
5 S5FINEA s5finea: w5 S Some difficulty-Fine Motor 0-3 Cont				
1 R1FINEAM r1fineam: w1 R Some difficulty-Missings in Fine Motor Score Cont			*	
	1	R1FINEAM	rlfineam: w1 R Some difficulty-Missings in Fine Motor Score	Cont

2	R2FINEAM	r2fineam: w2 R Some difficulty-Missings in Fine Motor Score	Cont
3	R3FINEAM	r3fineam: w3 R Some difficulty-Missings in Fine Motor Score	Cont
4	R4FINEAM	r4fineam: w4 R Some difficulty-Missings in Fine Motor Score	Cont
5	R5FINEAM	r5fineam: w5 R Some difficulty-Missings in Fine Motor Score	Cont
Ŭ	1101 1112111	Totalloum. We in some difficulty historings in time house source	00110
1	S1FINEAM	slfineam: w1 S Some difficulty-Missings in Fine Motor Score	Cont
2	S2FINEAM	s2fineam: w2 S Some difficulty-Missings in Fine Motor Score	Cont
3	S3FINEAM	s3fineam: w3 S Some difficulty-Missings in Fine Motor Score	Cont
4	S4FINEAM	s4fineam: w4 S Some difficulty-Missings in Fine Motor Score	Cont
5	S5FINEAM	s5fineam: w5 S Some difficulty-Missings in Fine Motor Score	Cont
J	SSTINDAM	3311 Heam. wo 5 Some difficulty Missings in Time Motor Score	COIIC
1	R1FINEAA	rlfineaa: w1 R Any difficulty Fine Motor 0-3	Cateq
2	R2FINEAA	r2fineaa: w2 R Any difficulty Fine Motor 0-3	Categ
3	R3FINEAA	r3fineaa: w3 R Any difficulty Fine Motor 0-3	Categ
4	R4FINEAA	r4fineaa: w4 R Any difficulty Fine Motor 0-3	Categ
5	R5FINEAA	r5fineaa: w5 R Any difficulty Fine Motor 0-3	_
5	RJEINEAA	isitheaa: ws R Any difficulty Fine Motor 0-3	Categ
1	C1 ETNEAA	alfinance vil C Any difficulty Fine Motor 0 2	Catas
1	S1FINEAA	slfineaa: wl S Any difficulty Fine Motor 0-3	Categ
2	S2FINEAA	s2fineaa: w2 S Any difficulty Fine Motor 0-3	Categ
3	S3FINEAA	s3fineaa: w3 S Any difficulty Fine Motor 0-3	Categ
4	S4FINEAA	s4fineaa: w4 S Any difficulty Fine Motor 0-3	Categ
5	S5FINEAA	s5fineaa: w5 S Any difficulty Fine Motor 0-3	Categ
1	R1MOBILSEV	rlmobilsev: w1 R Some difficulty-7 item Mobility 0-7	Cont
2	R2MOBILSEV	r2mobilsev: w2 R Some difficulty-7 item Mobility 0-7	Cont
3	R3MOBILSEV	r3mobilsev: w3 R Some difficulty-7 item Mobility 0-7	Cont
4	R4MOBILSEV	r4mobilsev: w4 R Some difficulty-7 item Mobility 0-7	Cont
5	R5MOBILSEV	r5mobilsev: w5 R Some difficulty-7 item Mobility 0-7	Cont
1	S1MOBILSEV	slmobilsev: w1 S Some difficulty-7 item Mobility 0-7	Cont
2	S2MOBILSEV	s2mobilsev: w2 S Some difficulty-7 item Mobility 0-7	Cont
3	S3MOBILSEV	s3mobilsev: w3 S Some difficulty-7 item Mobility 0-7	Cont
4	S4MOBILSEV	s4mobilsev: w4 S Some difficulty-7 item Mobility 0-7	Cont
5	S5MOBILSEV	s5mobilsev: w5 S Some difficulty-7 item Mobility 0-7	Cont
1	R1MOBILSEVM	rlmobilsevm: w1 R Some difficulty-Missings in 7 item Mobilit	Cont
2	R2MOBILSEVM	r2mobilsevm: w2 R Some difficulty-Missings in 7 item Mobilit	Cont
3	R3MOBILSEVM	r3mobilsevm: w3 R Some difficulty-Missings in 7 item Mobilit	Cont
4	R4MOBILSEVM	r4mobilsevm: w4 R Some difficulty-Missings in 7 item Mobilit	Cont
5	R5MOBILSEVM	r5mobilsevm: w5 R Some difficulty-Missings in 7 item Mobilit	Cont
1	S1MOBILSEVM	slmobilsevm: w1 S Some difficulty-Missings in 7 item Mobilit	Cont
2	S2MOBILSEVM	s2mobilsevm: w2 S Some difficulty-Missings in 7 item Mobilit	Cont
3	S3MOBILSEVM	s3mobilsevm: w3 S Some difficulty-Missings in 7 item Mobilit	Cont
4	S4MOBILSEVM	s4mobilsevm: w4 S Some difficulty-Missings in 7 item Mobilit	Cont
5	S5MOBILSEVM	s5mobilsevm: w5 S Some difficulty-Missings in 7 item Mobilit	Cont
1	R1MOBILSEVA	rlmobilseva: w1 R Any difficulty Mobility 0-7	Categ
2	R2MOBILSEVA	r2mobilseva: w2 R Any difficulty Mobility 0-7	Categ
3	R3MOBILSEVA	r3mobilseva: w3 R Any difficulty Mobility 0-7	Categ
4	R4MOBILSEVA	r4mobilseva: w4 R Any difficulty Mobility 0-7	Categ
5	R5MOBILSEVA	r5mobilseva: w5 R Any difficulty Mobility 0-7	Categ
		4 4 4	- 2
1	S1MOBILSEVA	slmobilseva: w1 S Any difficulty Mobility 0-7	Categ
2	S2MOBILSEVA	s2mobilseva: w2 S Any difficulty Mobility 0-7	Categ
3	S3MOBILSEVA	s3mobilseva: w3 S Any difficulty Mobility 0-7	Categ
4	S4MOBILSEVA	s4mobilseva: w4 S Any difficulty Mobility 0-7	Categ
5	S5MOBILSEVA	s5mobilseva: w4 5 Any difficulty Mobility 0-7	Categ
J	- 0110 - 1 - 0 - 111	Times = 100 to 1	Jacog
1	R1UPPERMOB	rluppermob: w1 R Some difficulty-Upper Body Mobility 0-3	Cont
2	R2UPPERMOB	r2uppermob: w2 R Some difficulty-Upper Body Mobility 0-3	Cont
3	R3UPPERMOB	r3uppermob: w3 R Some difficulty-Upper Body Mobility 0-3	Cont
4	R4UPPERMOB	r4uppermob: w4 R Some difficulty-Upper Body Mobility 0-3	Cont
4		r5uppermob: w5 R Some difficulty-Upper Body Mobility 0-3	Cont
5	R5UPPERMOB		

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1 S1UPPERMOB
                   sluppermob: w1 S Some difficulty-Upper Body Mobility 0-3
                                                                                 Cont
2 S2UPPERMOB
                   s2uppermob: w2 S Some difficulty-Upper Body Mobility 0-3
                                                                                 Cont
                   s3uppermob: w3 S Some difficulty-Upper Body Mobility 0-3
  S3UPPERMOB
                                                                                 Cont
  S4UPPERMOB
                   s4uppermob: w4 S Some difficulty-Upper Body Mobility 0-3
                                                                                 Cont
  S5UPPERMOB
                   s5uppermob: w5 S Some difficulty-Upper Body Mobility 0-3
                                                                                 Cont
1
  R1UPPERMOBM
                   rluppermobm: w1 R Some difficulty-Missings in Upper Body Mob
                                                                                 Cont
  R2UPPERMOBM
                   r2uppermobm: w2 R Some difficulty-Missings in Upper Body Mob
                                                                                 Cont
  R3UPPERMOBM
                   r3uppermobm: w3 R Some difficulty-Missings in Upper Body Mob
                                                                                 Cont
                   r4uppermobm: w4 R Some difficulty-Missings in Upper Body Mob
  R4UPPERMOBM
                                                                                 Cont
  R5UPPERMOBM
                   r5uppermobm: w5 R Some difficulty-Missings in Upper Body Mob
                   sluppermobm: w1 S Some difficulty-Missings in Upper Body Mob
  S1UPPERMOBM
                                                                                 Cont
                   s2uppermobm: w2 S Some difficulty-Missings in Upper Body Mob
  S2UPPERMOBM
                                                                                 Cont
                   s3uppermobm: w3 S Some difficulty-Missings in Upper Body Mob
3
                                                                                 Cont
  S3UPPERMOBM
                   s4uppermobm: w4 S Some difficulty-Missings in Upper Body Mob
                                                                                 Cont
  S4UPPERMORM
  S5UPPERMOBM
                   s5uppermobm: w5 S Some difficulty-Missings in Upper Body Mob
                                                                                 Cont
1 R1UPPERMOBA
                   rluppermoba: w1 R Any difficulty Upper Body Mobility 0-3
                                                                                 Categ
  R2UPPERMOBA
                   r2uppermoba: w2 R Any difficulty Upper Body Mobility 0-3
                                                                                 Categ
                   r3uppermoba: w3 R Any difficulty Upper Body Mobility 0-3
3
  R3UPPERMOBA
                                                                                 Categ
4
  R4UPPERMOBA
                   r4uppermoba: w4 R Any difficulty Upper Body Mobility 0-3
                                                                                 Categ
  R5UPPERMOBA
                  r5uppermoba: w5 R Any difficulty Upper Body Mobility 0-3
                                                                                 Categ
                   sluppermoba: w1 S Any difficulty Upper Body Mobility 0-3
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  S1UPPERMOBA
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  S2UPPERMOBA
                   s2uppermoba: w2 S Any difficulty Upper Body Mobility 0-3
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                   s3uppermoba: w3 S Any difficulty Upper Body Mobility 0-3
  S3UPPERMOBA
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                   s4uppermoba: w4 S Any difficulty Upper Body Mobility 0-3
  S4UPPERMOBA
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                   s5uppermoba: w5 S Any difficulty Upper Body Mobility 0-3
  S5UPPERMOBA
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1
  R1LOWERMOB
                   rllowermob: w1 R Some difficulty-Lower Body Mobility 0-4
                                                                                 Cont
                   r2lowermob: w2 R Some difficulty-Lower Body Mobility 0-4
  R2LOWERMOB
                                                                                 Cont
  R3LOWERMOB
                   r3lowermob: w3 R Some difficulty-Lower Body Mobility 0-4
                                                                                 Cont
                   r4lowermob: w4 R Some difficulty-Lower Body Mobility 0-4
4 R4LOWERMOB
                                                                                 Cont
  R5LOWERMOB
                   r5lowermob: w5 R Some difficulty-Lower Body Mobility 0-4
                                                                                 Cont
                   sllowermob: w1 S Some difficulty-Lower Body Mobility 0-4
  S1LOWERMOB
                                                                                 Cont
1
  S2LOWERMOB
                   s2lowermob: w2 S Some difficulty-Lower Body Mobility 0-4
                                                                                 Cont
                   s3lowermob: w3 S Some difficulty-Lower Body Mobility 0-4
  S3LOWERMOB
                                                                                 Cont
  S4LOWERMOB
                   s4lowermob: w4 S Some difficulty-Lower Body Mobility 0-4
                                                                                 Cont
                   s5lowermob: w5 S Some difficulty-Lower Body Mobility 0-4
  S5LOWERMOB
                                                                                 Cont
                  rllowermobm: w1 R Some difficulty-Missings in Lower Body Mob
  R1LOWERMOBM
                                                                                 Cont
                  r2lowermobm: w2 R Some difficulty-Missings in Lower Body Mob
  R2LOWERMOBM
                                                                                 Cont
  R3LOWERMOBM
                  r3lowermobm: w3 R Some difficulty-Missings in Lower Body Mob
                                                                                 Cont
                   r4lowermobm: w4 R Some difficulty-Missings in Lower Body Mob
4 R4LOWERMOBM
                                                                                 Cont
5 R5LOWERMOBM
                  r5lowermobm: w5 R Some difficulty-Missings in Lower Body Mob
                                                                                 Cont
1
  S1LOWERMOBM
                   sllowermobm: w1 S Some difficulty-Missings in Lower Body Mob
                                                                                 Cont.
                   s2lowermobm: w2 S Some difficulty-Missings in Lower Body Mob
  S2LOWERMOBM
                                                                                 Cont
  S3LOWERMOBM
                   s3lowermobm: w3 S Some difficulty-Missings in Lower Body Mob
                                                                                 Cont
4
  S4LOWERMOBM
                   s4lowermobm: w4 S Some difficulty-Missings in Lower Body Mob
                                                                                 Cont
                   s5lowermobm: w5 S Some difficulty-Missings in Lower Body Mob
  S5LOWERMOBM
  R1LOWERMOBA
                   rllowermoba: w1 R Any difficulty Lower Body Mobility 0-4
                                                                                 Categ
  R2LOWERMOBA
                   r2lowermoba: w2 R Any difficulty Lower Body Mobility 0-4
                                                                                 Categ
                   r3lowermoba: w3 R Any difficulty Lower Body Mobility 0-4
  R3LOWERMOBA
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                   r4lowermoba: w4 R Any difficulty Lower Body Mobility 0-4
  R4LOWERMOBA
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                   r5lowermoba: w5 R Any difficulty Lower Body Mobility 0-4
5 R5LOWERMOBA
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                   sllowermoba: w1 S Any difficulty Lower Body Mobility 0-4
  S1LOWERMOBA
                                                                                 Cated
                   s2lowermoba: w2 S Any difficulty Lower Body Mobility 0-4
  S2LOWERMOBA
                                                                                 Categ
  S3LOWERMOBA
                   s3lowermoba: w3 S Any difficulty Lower Body Mobility 0-4
                                                                                 Categ
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4	S4LOWERMOBA	s4lowermoba: w4 S Any difficulty Lower Body Mobility 0-4	Categ
5	S5LOWERMOBA	s5lowermoba: w5 S Any difficulty Lower Body Mobility 0-4	Categ
J	SSHOWERGODA	3310Wellmoda. W3 5 Amy difficulty hower body Modelity 0 4	categ
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1	R1NAGI10	r1nagi10: w1 R Some difficulty-NAGI Score 0-10	Cont
2	R2NAGI10	r2nagi10: w2 R Some difficulty-NAGI Score 0-10	Cont
3	R3NAGI10	r3nagi10: w3 R Some difficulty-NAGI Score 0-10	Cont
4		-	
_	R4NAGI10	r4nagi10: w4 R Some difficulty-NAGI Score 0-10	Cont
5	R5NAGI10	r5nagi10: w5 R Some difficulty-NAGI Score 0-10	Cont
1	S1NAGI10	slnagil0: w1 S Some difficulty-NAGI Score 0-10	Cont
2	S2NAGI10	s2nagi10: w2 S Some difficulty-NAGI Score 0-10	Cont
3	S3NAGI10	s3nagi10: w3 S Some difficulty-NAGI Score 0-10	Cont
4	S4NAGI10	s4nagi10: w4 S Some difficulty-NAGI Score 0-10	Cont
5	S5NAGI10	s5nagi10: w5 S Some difficulty-NAGI Score 0-10	Cont
1	R1NAGI10M	rlnagi10m: w1 R Some difficulty-Missings in 10-item NAGI Sco	Cont
2	R2NAGI10M	r2nagi10m: w2 R Some difficulty-Missings in 10-item NAGI Sco	Cont
3	R3NAGI10M	r3nagi10m: w3 R Some difficulty-Missings in 10-item NAGI Sco	Cont
4	R4NAGI10M	r4nagi10m: w4 R Some difficulty-Missings in 10-item NAGI Sco	Cont
5	R5NAGI10M	r5nagi10m: w5 R Some difficulty-Missings in 10-item NAGI Sco	Cont
1	S1NAGI10M	slnagilom: w1 S Some difficulty-Missings in 10-item NAGI Sco	Cont
2			
	S2NAGI10M	s2nagi10m: w2 S Some difficulty-Missings in 10-item NAGI Sco	Cont
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2 3 4	S1NAG18A S2NAG18A S3NAG18A S4NAG18A S5NAG18A	s2nagi8a: s3nagi8a: s4nagi8a:	w2 w3 w4	S S S	Any Any Any	difficulty difficulty difficulty difficulty difficulty	NAGI NAGI NAGI	Score Score Score	0-8 0-8 0-8	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MOBILA	14113	0.95	1.37	0.00	5.00
R2MOBILA	12500	0.94	1.39	0.00	5.00
R3MOBILA	14446	1.08	1.46	0.00	5.00
R4MOBILA	13801	1.18	1.51	0.00	5.00
R5MOBILA	15766	1.08	1.50	0.00	5.00
TOPIODIEM	13700	1.00	1.00	0.00	3.00
S1MOBILA	9973	0.85	1.30	0.00	5.00
S2MOBILA	8737	0.83	1.29	0.00	5.00
S3MOBILA	9865	0.96	1.39	0.00	5.00
S4MOBILA	9166	1.05	1.43	0.00	5.00
S5MOBILA	7067	1.14	1.51	0.00	5.00
R1MOBILAM	15186	0.46	1.10	0.00	5.00
R2MOBILAM	13704	0.51	1.19	0.00	5.00
R3MOBILAM	15723	0.45	1.15	0.00	5.00
R4MOBILAM	14779	0.39	1.08	0.00	5.00
R5MOBILAM	17114	0.38	1.13	0.00	5.00
S1MOBILAM	10648	0.43	1.05	0.00	5.00
S2MOBILAM	9564	0.49	1.17	0.00	5.00
S3MOBILAM	10592	0.40	1.08	0.00	5.00
S4MOBILAM	9652	0.31	0.95	0.00	5.00
S5MOBILAM	7638	0.36	1.11	0.00	5.00
OSHODIEM	7030	0.30		0.00	3.00
R1MOBILAA	14113	0.43	0.50	0.00	1.00
R2MOBILAA	12500	0.42	0.49	0.00	1.00
R3MOBILAA	14446	0.46	0.50	0.00	1.00
R4MOBILAA	13801	0.50	0.50	0.00	1.00
R5MOBILAA	15766	0.45	0.50	0.00	1.00
S1MOBILAA	9973	0.40	0.49	0.00	1.00
S2MOBILAA	8737	0.39	0.49	0.00	1.00
S3MOBILAA	9865	0.42	0.49	0.00	1.00
S4MOBILAA	9166	0.46	0.50	0.00	1.00
S5MOBILAA	7067	0.47	0.50	0.00	1.00
R1LGMUSA	14109	0.99	1.32	0.00	4.00
R2LGMUSA	12501	0.91	1.28	0.00	4.00
R3LGMUSA	14446	1.15	1.35	0.00	4.00
R4LGMUSA	13804	1.26	1.38	0.00	4.00
R5LGMUSA	15764	1.16	1.37	0.00	4.00
KJLGMUSA	13704	1.10	1.57	0.00	4.00
S1LGMUSA	9970	0.90	1.27	0.00	4.00
S2LGMUSA	8737	0.82	1.23	0.00	4.00
S3LGMUSA	9865	1.05	1.31	0.00	4.00
S4LGMUSA	9167	1.18	1.35	0.00	4.00
S5LGMUSA	7066	1.21	1.38	0.00	4.00
R1LGMUSAM	15186	0.31	1.03	0.00	4.00

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R2LGMUSAM	13704	0.38	1.14	0.00	4.00
R3LGMUSAM	15723	0.35	1.10	0.00	4.00
R4LGMUSAM	14779	0.30	1.00	0.00	4.00
R5LGMUSAM	17114	0.33	1.08	0.00	4.00
KJEGMOJAM	1/114	0.33	1.00	0.00	4.00
S1LGMUSAM	10648	0.28	0.98	0.00	4.00
S2LGMUSAM	9564	0.37	1.13	0.00	4.00
S3LGMUSAM	10592	0.30	1.02	0.00	4.00
S4LGMUSAM	9652	0.23	0.88	0.00	4.00
S5LGMUSAM	7638	0.32	1.06	0.00	4.00
R1LGMUSAA	14109	0.45	0.50	0.00	1.00
R2LGMUSAA	12501	0.42	0.49	0.00	1.00
R3LGMUSAA	14446	0.52	0.50	0.00	1.00
R4LGMUSAA	13804	0.57	0.50	0.00	1.00
R5LGMUSAA	15764	0.51	0.50	0.00	1.00
S1LGMUSAA	9970	0.41	0.49	0.00	1.00
S2LGMUSAA	8737	0.39	0.49	0.00	1.00
S3LGMUSAA	9865	0.49	0.50	0.00	1.00
S4LGMUSAA	9167	0.54	0.50	0.00	1.00
S5LGMUSAA	7066	0.54	0.50	0.00	1.00
R1GROSSA	14113	0.41	0.94	0.00	5.00
R2GROSSA	12501	0.42	0.94	0.00	5.00
R3GROSSA					
	14446	0.51	1.00	0.00	5.00
R4GROSSA	13804	0.59	1.11	0.00	5.00
R5GROSSA	15766	0.52	1.05	0.00	5.00
S1GROSSA	9973	0.35	0.86	0.00	5.00
S2GROSSA	8737	0.34	0.84	0.00	5.00
S3GROSSA	9865	0.43	0.92	0.00	5.00
S4GROSSA	9167	0.50	1.02	0.00	5.00
S5GROSSA	7067	0.54	1.06	0.00	5.00
R1GROSSAM	15186	0.23	0.68	0.00	5.00
R2GROSSAM	13704	0.22	0.64	0.00	5.00
R3GROSSAM	15723	0.22	0.60	0.00	5.00
R4GROSSAM	14779	0.18	0.59	0.00	5.00
R5GROSSAM	17114	0.19	0.65	0.00	5.00
S1GROSSAM	10648	0.21	0.64	0.00	5.00
S2GROSSAM	9564	0.21	0.61	0.00	5.00
S3GROSSAM	10592	0.19	0.57	0.00	5.00
S4GROSSAM	9652	0.14	0.50	0.00	5.00
S5GROSSAM	7638	0.19	0.67	0.00	5.00
R1GROSSAA	14113	0.23	0.42	0.00	1.00
R2GROSSAA	12501	0.23	0.42	0.00	1.00
R3GROSSAA	14446	0.28	0.45	0.00	1.00
R4GROSSAA	13804	0.30	0.46	0.00	1.00
R5GROSSAA	15766	0.27	0.44	0.00	1.00
S1GROSSAA	9973	0.20	0.40	0.00	1.00
S2GROSSAA	8737	0.20	0.40	0.00	1.00
S3GROSSAA	9865	0.25	0.43	0.00	1.00
S4GROSSAA	9167	0.27	0.44	0.00	1.00
S5GROSSAA	7067	0.28	0.45	0.00	1.00
R1FINEA	14113	0.13	0.45	0.00	3.00
R2FINEA	12501	0.13	0.45	0.00	3.00
R3FINEA	14446	0.19	0.51	0.00	3.00
		0.21	0.54	0.00	3.00
R4FINEA	13804				
R5FINEA	15762	0.20	0.54	0.00	3.00

S1FINEA	9974	0.11	0.41	0.00	3.00
S2FINEA	8737	0.11	0.40	0.00	3.00
S3FINEA	9865	0.16	0.48	0.00	3.00
S4FINEA	9167	0.18	0.50	0.00	3.00
S5FINEA	7065	0.21	0.54	0.00	3.00
001111211	7000	0.21	0.01	0.00	3.00
R1FINEAM	15186	0.16	0.54	0.00	3.00
	13704	0.18	0.58	0.00	3.00
R2FINEAM					
R3FINEAM	15723	0.17	0.55	0.00	3.00
R4FINEAM	14779	0.14	0.51	0.00	3.00
R5FINEAM	17114	0.17	0.57	0.00	3.00
S1FINEAM	10648	0.15	0.51	0.00	3.00
S2FINEAM	9564	0.18	0.57	0.00	3.00
S3FINEAM	10592	0.14	0.51	0.00	3.00
S4FINEAM	9652	0.10	0.45	0.00	3.00
S5FINEAM	7638	0.16	0.56	0.00	3.00
SSFINEAM	7030	0.10	0.50	0.00	3.00
R1FINEAA	14113	0.10	0.29	0.00	1.00
R2FINEAA	12501	0.09	0.29	0.00	1.00
R3FINEAA	14446	0.14	0.35	0.00	1.00
R4FINEAA	13804	0.15	0.36	0.00	1.00
R5FINEAA	15762	0.14	0.35	0.00	1.00
S1FINEAA	9974	0.08	0.27	0.00	1.00
S2FINEAA	8737	0.08	0.27	0.00	1.00
S3FINEAA	9865	0.12	0.33	0.00	1.00
S4FINEAA	9167	0.14	0.34	0.00	1.00
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S5FINEAA	7065	0.15	0.36	0.00	1.00
D1MODII CEU	1 / 1 1 0	1 45	1 01	0 00	7 00
R1MOBILSEV	14110	1.45	1.81	0.00	7.00
R2MOBILSEV	12501	1.37	1.80	0.00	7.00
R3MOBILSEV	14446	1.68	1.89	0.00	7.00
R4MOBILSEV	13804	1.85	1.93	0.00	7.00
R5MOBILSEV	15764	1.72	1.98	0.00	7.00
S1MOBILSEV	9970	1.30	1.73	0.00	7.00
S2MOBILSEV	8737	1.22	1.69	0.00	7.00
S3MOBILSEV	9865	1.51	1.82	0.00	7.00
S4MOBILSEV	9167	1.68	1.85	0.00	7.00
S5MOBILSEV	7066	1.79	1.98	0.00	7.00
R1MOBILSEVM	15186	0.64	1.80	0.00	7.00
R2MOBILSEVM	13704	0.75	1.98	0.00	7.00
R3MOBILSEVM	15723	0.67	1.91	0.00	7.00
R4MOBILSEVM	14779	0.57	1.75	0.00	7.00
R5MOBILSEVM	17114	0.61	1.89	0.00	7.00
S1MOBILSEVM	10648	0.59	1.72	0.00	7.00
S2MOBILSEVM	9564	0.73	1.96	0.00	7.00
S3MOBILSEVM	10592	0.57	1.77	0.00	7.00
S4MOBILSEVM	9652	0.44	1.54	0.00	7.00
S5MOBILSEVM	7638	0.58	1.85	0.00	7.00
P1MORTI CEVIA	14110	0.53	0.50	0.00	1.00
R1MOBILSEVA					
R2MOBILSEVA	12501	0.50	0.50	0.00	1.00
R3MOBILSEVA	14446	0.59	0.49	0.00	1.00
R4MOBILSEVA	13804	0.63	0.48	0.00	1.00
R5MOBILSEVA	15764	0.57	0.50	0.00	1.00
S1MOBILSEVA	9970	0.49	0.50	0.00	1.00
S2MOBILSEVA	8737	0.47	0.50	0.00	1.00
S3MOBILSEVA	9865	0.55	0.50	0.00	1.00
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S4MOBILSEVA	9167	0.60	0.49	0.00	1.00
S5MOBILSEVA	7066	0.60	0.49	0.00	1.00
D1HDDEDMOD	1 4 1 0 5	0.25	0.70	0.00	2 00
R1UPPERMOB	14105	0.35	0.70	0.00	3.00
R2UPPERMOB	12501	0.34	0.70	0.00	3.00
R3UPPERMOB	14446	0.44	0.76	0.00	3.00
R4UPPERMOB	13803	0.48	0.78	0.00	3.00
R5UPPERMOB	15756	0.46	0.80	0.00	3.00
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S1UPPERMOB	9968	0.29	0.66	0.00	3.00
S2UPPERMOB	8737	0.28	0.65	0.00	3.00
SSUPPERMOB		0.38	0.72	0.00	
	9865				3.00
S4UPPERMOB	9166	0.41	0.73	0.00	3.00
S5UPPERMOB	7064	0.47	0.81	0.00	3.00
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R1UPPERMOBM	15186	0.23	0.78	0.00	3.00
R2UPPERMOBM	13704	0.28	0.85	0.00	3.00
R3UPPERMOBM	15723	0.26	0.82	0.00	3.00
R4UPPERMOBM	14779	0.22	0.76	0.00	3.00
R5UPPERMOBM	17114	0.25	0.81	0.00	3.00
10011 EIGIODH	1/111	0.29	0.01	0.00	3.00
S1UPPERMOBM	10648	0.20	0.74	0.00	3.00
S2UPPERMOBM	9564	0.27	0.85	0.00	3.00
S3UPPERMOBM	10592	0.22	0.76	0.00	3.00
S4UPPERMOBM	9652	0.17	0.67	0.00	3.00
S5UPPERMOBM	7638	0.23	0.79	0.00	3.00
SOUFFERMODM	7030	0.23	0.79	0.00	3.00
R1UPPERMOBA	14105	0.23	0.42	0.00	1.00
R2UPPERMOBA	12501	0.23	0.42	0.00	1.00
R3UPPERMOBA	14446	0.30	0.46	0.00	1.00
R4UPPERMOBA	13803	0.33	0.47	0.00	1.00
R5UPPERMOBA	15756	0.30	0.46	0.00	1.00
RJUPPERMOBA	13/36	0.30	0.46	0.00	1.00
S1UPPERMOBA	9968	0.20	0.40	0.00	1.00
S2UPPERMOBA	8737	0.20	0.40	0.00	1.00
S3UPPERMOBA	9865	0.26	0.44	0.00	1.00
S4UPPERMOBA	9166	0.29	0.45	0.00	1.00
S5UPPERMOBA	7064	0.31	0.46	0.00	1.00
SJUFFERMODA	7004	0.31	0.40	0.00	1.00
R1LOWERMOB	14110	1.10	1.30	0.00	4.00
R2LOWERMOB	12499	1.03	1.29	0.00	4.00
R3LOWERMOB	14446	1.24	1.34	0.00	4.00
R4LOWERMOB	13799	1.37	1.37	0.00	4.00
R5LOWERMOB	15761	1.26	1.39	0.00	4.00
TOTOMETMOD	TO / OT	1.20	1.09	0.00	J. UU
S1LOWERMOB	9970	1.01	1.26	0.00	4.00
S2LOWERMOB	8737	0.94	1.23	0.00	4.00
S3LOWERMOB	9865	1.13	1.31	0.00	4.00
S4LOWERMOB	9165	1.27	1.34	0.00	4.00
S5LOWERMOB	7066	1.32	1.39	0.00	4.00
SSHOWEIGHOD	7000	1.52	1.33	0.00	4.00
R1LOWERMOBM	15186	0.41	1.05	0.00	4.00
R2LOWERMOBM	13704	0.47	1.15	0.00	4.00
R3LOWERMOBM	15723	0.41	1.11	0.00	4.00
R4LOWERMOBM	14779	0.35	1.02	0.00	4.00
R5LOWERMOBM	17114	0.36	1.09	0.00	4.00
TOPOWEIGHORI	T / T T T	0.50	1.09	0.00	T. UU
S1LOWERMOBM	10648	0.38	1.00	0.00	4.00
S2LOWERMOBM	9564	0.46	1.14	0.00	4.00
S3LOWERMOBM	10592	0.35	1.03	0.00	4.00
S4LOWERMOBM	9652	0.27	0.90	0.00	4.00
S5LOWERMOBM	7638	0.34	1.06	0.00	4.00
SOHOMEVIACEM	1000	0.34	1.00	0.00	4.00
R1LOWERMOBA	14110	0.51	0.50	0.00	1.00
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R2LOWERMOBA	12499	0.49	0.50	0.00	1.00	
R3LOWERMOBA	14446	0.56	0.50	0.00	1.00	
R4LOWERMOBA	13799	0.60	0.49	0.00	1.00	
R5LOWERMOBA	15761	0.55	0.50	0.00	1.00	
KJLOWEKMODA	13701	0.55	0.30	0.00	1.00	
S1LOWERMOBA	9970	0.48	0.50	0.00	1.00	
S2LOWERMOBA	8737					
SZLOWERMOBA		0.46	0.50	0.00	1.00	
S3LOWERMOBA	9865	0.53	0.50	0.00	1.00	
S4LOWERMOBA	9165	0.57	0.49	0.00	1.00	
S5LOWERMOBA	7066	0.58	0.49	0.00	1.00	
R1NAGI10	14110	2.01	2.60	0.00	10.00	
R2NAGI10	12501	1.90	2.58	0.00	10.00	
R3NAGI10	14446	2.34	2.71	0.00	10.00	
R4NAGI10		2.57	2.78	0.00	10.00	
	13804					
R5NAGI10	15764	2.38	2.83	0.00	10.00	
C1NACT10	0.070	1 70	2.46	0 00	10.00	
S1NAGI10	9970	1.79	2.46	0.00	10.00	
S2NAGI10	8737	1.69	2.42	0.00	10.00	
S3NAGI10	9865	2.10	2.60	0.00	10.00	
S4NAGI10	9167	2.33	2.66	0.00	10.00	
S5NAGI10	7066	2.48	2.84	0.00	10.00	
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R1NAGI10M	15186	0.91	2.57	0.00	10.00	
R2NAGI10M	13704	1.06	2.82	0.00	10.00	
R3NAGI10M	15723	0.98	2.74	0.00	10.00	
R4NAGI10M	14779	0.83	2.50	0.00	10.00	
R5NAGI10M	17114	0.87	2.71	0.00	10.00	
KJNAGIIUM	1/114	0.07	2.71	0.00	10.00	
S1NAGI10M	10648	0.83	2.45	0.00	10.00	
S2NAGI10M	9564	1.03	2.80	0.00	10.00	
S3NAGI10M	10592	0.84	2.54	0.00	10.00	
S4NAGI10M	9652	0.64	2.21	0.00	10.00	
S5NAGI10M	7638	0.83	2.64	0.00	10.00	
R1NAGI10A	14110	0.54	0.50	0.00	1.00	
R2NAGI10A	12501	0.52	0.50	0.00	1.00	
R3NAGI10A	14446	0.61	0.49	0.00	1.00	
R4NAGI10A	13804	0.65	0.48	0.00	1.00	
R5NAGI10A	15764	0.58	0.49	0.00	1.00	
S1NAGI10A	9970	0.50	0.50	0.00	1.00	
S2NAGI10A	8737	0.49	0.50	0.00	1.00	
S3NAGI10A	9865	0.57	0.50	0.00	1.00	
S4NAGI10A	9167	0.62	0.49	0.00	1.00	
S5NAGI10A		0 67	$\Omega = \Lambda \Omega$		1.00	
	7066	0.61	0.49	0.00	1.00	
	7066	0.01	0.49	0.00	1.00	
D1NACTO						
R1NAGI8	14110	1.44	2.02	0.00	8.00	
R1NAGI8 R2NAGI8						
R2NAGI8	14110 12501	1.44 1.35	2.02 2.01	0.00	8.00 8.00	
R2NAGI8 R3NAGI8	14110 12501 14446	1.44 1.35 1.72	2.02 2.01 2.11	0.00 0.00 0.00	8.00 8.00 8.00	
R2NAGI8	14110 12501 14446 13804	1.44 1.35 1.72 1.89	2.02 2.01 2.11 2.16	0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8	14110 12501 14446	1.44 1.35 1.72	2.02 2.01 2.11 2.16	0.00 0.00 0.00	8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8	14110 12501 14446 13804	1.44 1.35 1.72 1.89	2.02 2.01 2.11	0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8	14110 12501 14446 13804 15764	1.44 1.35 1.72 1.89 1.75	2.02 2.01 2.11 2.16 2.20	0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8	14110 12501 14446 13804 15764	1.44 1.35 1.72 1.89 1.75	2.02 2.01 2.11 2.16 2.20	0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8	14110 12501 14446 13804 15764	1.44 1.35 1.72 1.89 1.75	2.02 2.01 2.11 2.16 2.20	0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8	14110 12501 14446 13804 15764 9970 8737	1.44 1.35 1.72 1.89 1.75	2.02 2.01 2.11 2.16 2.20 1.91 1.88	0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8	14110 12501 14446 13804 15764 9970 8737 9865	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8	14110 12501 14446 13804 15764 9970 8737	1.44 1.35 1.72 1.89 1.75	2.02 2.01 2.11 2.16 2.20 1.91 1.88	0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8	14110 12501 14446 13804 15764 9970 8737 9865 9167	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8	14110 12501 14446 13804 15764 9970 8737 9865	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8	14110 12501 14446 13804 15764 9970 8737 9865 9167	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8 S5NAGI8	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8 S5NAGI8	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8 S5NAGI8 R1NAGI8M R2NAGI8M R3NAGI8M	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066 15186 13704 15723	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20 2.06 2.27 2.19	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8 S5NAGI8	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20 2.06 2.27 2.19	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8 S5NAGI8 R1NAGI8M R2NAGI8M R3NAGI8M R4NAGI8M	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066 15186 13704 15723 14779	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81 0.62 0.75 0.70 0.59	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20 2.06 2.27 2.19 2.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	
R2NAGI8 R3NAGI8 R4NAGI8 R5NAGI8 S1NAGI8 S2NAGI8 S3NAGI8 S4NAGI8 S5NAGI8 R1NAGI8M R2NAGI8M R3NAGI8M	14110 12501 14446 13804 15764 9970 8737 9865 9167 7066 15186 13704 15723	1.44 1.35 1.72 1.89 1.75 1.28 1.20 1.54 1.71 1.81	2.02 2.01 2.11 2.16 2.20 1.91 1.88 2.02 2.07 2.20 2.06 2.27 2.19	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	

S1NAGI8M	10648	0.56	1.96	0.00	8.00
S2NAGI8M	9564	0.72	2.25	0.00	8.00
S3NAGI8M	10592	0.58	2.03	0.00	8.00
S4NAGI8M	9652	0.45	1.76	0.00	8.00
S5NAGI8M	7638	0.63	2.11	0.00	8.00
R1NAGI8A	14110	0.47	0.50	0.00	1.00
R2NAGI8A	12501	0.44	0.50	0.00	1.00
R3NAGI8A	14446	0.55	0.50	0.00	1.00
R4NAGI8A	13804	0.60	0.49	0.00	1.00
R5NAGI8A	15764	0.54	0.50	0.00	1.00
S1NAGI8A S2NAGI8A S3NAGI8A S4NAGI8A S5NAGI8A	9970 8737 9865 9167 7066	0.43 0.41 0.51 0.57 0.56	0.50 0.49 0.50 0.50 0.50	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00

Categorical Variable Codes

Value	R1MOBILAA	R2MOBILAA	R3MOBILAA	R4MOBILAA	R5MOBILAA
.d:DK	1		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	1		1	1	3
.x:Doesn't do	1	1		3	
0.No	8037	7259	7834	6946	8694
1.Yes	6076	5241	6612	6855	7072
Value	S1MOBILAA	S2MOBILAA	S3MOBILAA	S4MOBILAA	S5MOBILAA
.d:DK			1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	1				3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	1	101	0.10	1	001
0.No	5993	5320	5703	4966	3723
1.Yes	3980	3417	4162	4200	3344
1.103	3300	5417	4102	4200	3311
Value	R1LGMUSAA	R2LGMUSAA	R3LGMUSAA	R4LGMUSAA	R5LGMUSAA
.d:DK	3		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	4		1	1	4
.x:Doesn't do					1
0.No	7803	7297	6911	5980	7659
1.Yes	6306	5204	7535	7824	8105
1.100	0000	0201	,,,,,	,021	0100
Value	S1LGMUSAA	S2LGMUSAA	S3LGMUSAA	S4LGMUSAA	S5LGMUSAA
.d:DK	2		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	3				3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do					1
0.No	5836	5366	5071	4252	3262
1.Yes	4134	3371	4794	4915	3804
,					
Value	R1GROSSAA	R2GROSSAA	R3GROSSAA	R4GROSSAA	R5GROSSAA
.d:DK	1		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	1		1	1	3
.x:Doesn't do	1				
0.No	10892	9669	10402	9604	11492
1.Yes	3221	2832	4044	4200	4274

Value	S1GROSSAA	S2GROSSAA	S3GROSSAA	S4GROSSAA	S5GROSSAA
.d:DK	İ		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	1				3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do	1				
0.No	7937	7018	7437	6734	5075
1.Yes	2036	1719	2428	2433	1992
Value	R1FINEAA	R2FINEAA	R3FINEAA	R4FINEAA	R5FINEAA
.d:DK	1		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	2		1	1	7
0.No	12771	11326	12424	11686	13498
1.Yes	1342	1175	2022	2118	2264
Value	S1FINEAA	S2FINEAA	S3FINEAA	S4FINEAA	S5FINEAA
.d:DK			1	5	_
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	1				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9160	8059	8651	7912	5993
1.Yes	814	678	1214	1255	1072
Value	L D1MODIT 0007	D 0340D TT 0E513	DOMODET GETTA	D AMODIT GETTS	DEMODIT OFFI
		R2MOBILSEVA	R3MOBILSEVA	R4MOBILSEVA	R5MOBILSEVA
.d:DK	3	0.5	1	5	1.7
.m:Missing	38	25	1075	40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	3		1	1	4
.x:Doesn't do		CO10	F001	F0.00	1
0.No	6699	6219	5931	5062	6774
1.Yes	7411	6282	8515	8742	8990
Value	S1MOBILSEVA	S2MOBILSEVA	S3MOBILSEVA	S4MOBILSEVA	CEMODIT CEXA
.d:DK	I SIMOBILSEVA	SZMOBILSEVA	SOMOBILSEVA 1	54MOBILSEVA 5	S5MOBILSEVA
.m:Missing	13	6	1	10	5
.p:Proxy interview, not asked	1 660	821	726	470	563
.r:Refuse	1 3	021	720	470	3
.u:Unmar	1 4205	4009	4782	4847	5227
.v:SP NR	1 333	131	349	280	501
.x:Doesn't do	1 333	131	343	200	1
0.No	5079	4600	4424	3667	2835
1.Yes	4891	4137	5441	5500	4231
1.103	1001	1137	Jii	3300	1231
Value	R1UPPERMOBA	R2UPPERMOBA	R3UPPERMOBA	R4UPPERMOBA	R5UPPERMOBA
.d:DK] 3	1(201111110111	1	5	11001111110111
.m:Missing	38	25	_	40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	1 6		1	1	8
.x:Doesn't do	2			1	5
0.No	10805	9652	10081	9228	11024
1.Yes	3300	2849	4365	4575	4732
Value	S1UPPERMOBA	S2UPPERMOBA	S3UPPERMOBA	S4UPPERMOBA	S5UPPERMOBA
.d:DK	2		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	5				5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:Doesn't do				1	1
0.No	7979	7031	7260	6511	4903
1.Yes	1989	1706	2605	2655	2161
Value		R2LOWERMOBA	R3LOWERMOBA	R4LOWERMOBA	R5LOWERMOBA
.d:DK	3		1	5	
.m:Missing	38	25		40	17

Section B: Health					146
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	3		1	1	4
.x:Doesn't do		2		5	4
0.No	6918	6409	6331	5456	7159
1.Yes	7192	6090	8115	8343	8602
Value	S1LOWERMOBA	S2LOWERMOBA	S3LOWERMOBA	S4LOWERMOBA	S5LOWERMOBA
.d:DK	2		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	3		4500	4045	3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280 2	501 1
.x:Doesn't do 0.No	I 5214	4736	4681	3909	3002
1.Yes	1 4756	4001	5184	5256	4064
1.165	4750	4001	2104	3230	4004
Value	R1NAGI10A	R2NAGI10A	R3NAGI10A	R4NAGI10A	R5NAGI10A
.d:DK] 3		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	3		1	1	4
.x:Doesn't do		6050	5.000		1
0.No	6528	6053	5693	4849	6582
1.Yes	7582	6448	8753	8955	9182
Value		S2NAGI10A	S3NAGI10A	S4NAGI10A	S5NAGI10A
.d:DK	2		1	5	_
.m:Missing	13	6	706	10	5
<pre>.p:Proxy interview, not asked .r:Refuse</pre>	660 3	821	726	470	563 3
.u:Unmar	I 4205	4009	4782	4847	5227
.v:SP NR	1 333	131	349	280	501
.x:Doesn't do	1 222	131	349	200	1
0.No	1 4953	4480	4253	3522	2749
1.Yes	5017	4257	5612	5645	4317
	,				
Value		R2NAGI8A	R3NAGI8A	R4NAGI8A	R5NAGI8A
.d:DK	3		1	5	
.m:Missing	38	25		40	17
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	3		1	1	4
.x:Doesn't do					1
0.No	7514	7028	6457	5518	7269
1.Yes	6596	5473	7989	8286	8495
Value	S1NAGI8A	S2NAGI8A	S3NAGI8A	S4NAGI8A	S5NAGI8A
.d:DK	2		1	5	
.m:Missing	13	6		10	5
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	3				3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501

How Constructed

.x:Doesn't do

0.No

Several summary measures for functional limitations are created. These include mobility and large muscle indices, gross and fine motor summaries, as well as total body mobility, upper body mobility, and lower body mobility summaries.

The mobility index uses the walking several blocks (RwWALKSA), walking across a room (RwWALKRA), climbing several flights of stairs (RwCLIMSA), and climbing one flight of stairs without resting (RwCLIM1A) activities. The large muscle index uses the sitting for about 2 hours (RwSITA), getting up from a chair after sitting for long periods (RwCHAIRA), stooping/kneeling/or crouching (RwSTOOPA), and pushing or pulling large objects (RwPUSHA) activities. The gross motor index uses the walking several blocks (RwWALKSA), walking across a room (RwWALKRA), climbing one flight of stairs without resting (RwCLIM1A), getting in or out of bed (RwBEDA), and bathing (RwBATHA) activities. The fine motor index uses the

picking up a small coin (one peso) from the table (RwDIMEA), eating (RwEATA), and dressing activities (RwDRESSA).

The alternative total body mobility index uses the walking one block (RwWALK1A), climbing several flights of stairs (RwCLIMSA), getting up from a chair after sitting for long periods (RwCHAIRA), stooping/kneeling/or crouching (RwSTOOPA), reaching or extending arms above shoulder level (RwARMSA), lifting or carrying objects weighing over 5 kg (RwLIFTA), and picking up a 1 peso coin from the table (RwDIMEA) activities. The upper body mobility index uses the reaching or extending arms above shoulder level (RwARMSA), lifting or carrying objects weighing over 5 kg (RwLIFTA), and picking up a 1 peso coin from the table (RwDIMEA) activities. The lower body mobility index uses the walking one block (RwWALK1A), climbing several flights of stairs (RwCLIMSA), getting up from a chair after sitting for long periods (RwCHAIRA), and stooping/kneeling/or crouching (RwSTOOPA) activities.

The 10-item NAGI summary uses the items proposed by Nagi (1976) and includes the walking one block (RwWALK1A), sitting for about 2 hours (RwSITA), getting up from a chair after sitting for long periods (RwCHAIRA), climbing several flights of stairs (RwCLIMSA), climbing one flight of stairs without resting (RwCLIM1A), stooping/kneeling/or crouching (RwSTOOPA), reaching or extending arms above shoulder level (RwARMSA), pushing or pulling large objects (RwPUSHA), lifting or carrying objects weighing over 5 kg (RwLIFTA), and picking up a 1 peso coin from the table (RwDIMEA) activities. The 8-item NAGI summary removes the climbing several flights of stairs (RwCLIMSA) and climbing one flight of stairs without resting (RwCLIM1A) activities from the 10-item summary.

In all waves the indicators of "some difficulty" are used to construct these measures. Each limitation adds one to the summary measures even if one or more measures have missing special values and if at least one of the IADL components was completed, that is:

RwMOBILA= sum (RwWALKSA, RwWALKSA, RwWALKRA, RwCLIMSA, RwCLIMSA). RwMOBILAM is the number of mobility questions with missing values, ranging from 0 to 5. RwMOBILA is calculated for all respondents who answered at least one of the mobility component questions. RwMOBILAA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwLGMUSA= sum (RwSITA, RwCHAIRA, RwSTOOPA, RwPUSHA). RwLGMUSAM is the number of large muscle questions with missing values, ranging from 0 to 4. RwLGMUSA is calculated for all respondents who answered at least one of the large muscle component questions. RwLGMUSAA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwGROSSA= sum (RwWALK1A, RwWALKRA, RwCLIM1A, RwBEDA, RwBATHA). RwGROSSAM is the number of gross motor questions with missing values, ranging from 0 to 5. RwGROSSA is calculated for all respondents who answered at least one of the gross motor component questions. RwGROSSAA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RWFINEA= sum (RwDIMEA, RwEATA, RwDRESSA). RwFINEAM is the number of fine motor questions with missing values, ranging from 0 to 3. RwFINEA is calculated for all respondents who answered at least one of the fine motor component questions. RwFINEAA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwMOBILSEV= sum (RwWALK1A, RwCLIMSA, RwCHAIRA, RwSTOOPA, RwARMSA, RwLIFTA, RwDIMEA). RwMOBILSEVM is the number of alternative total body mobility questions with missing values, ranging from 0 to 7. RwMOBILSEV is calculated for all respondents who answered at least one of the alternative mobility component questions. RwMOBILSEVA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RWUPPERMOB= sum (RWARMSA, RWLIFTA, RWDIMEA). RWUPPERMOBM is the number of upper body mobility questions with missing values, ranging from 0 to 3. RWUPPERMOB is calculated for all respondents who answered at least one of the upper body mobility component questions. RWUPPERMOBA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwLOWERMOB= sum (RwWALK1A, RwCLIMSA, RwCHAIRA, RwSTOOPA). RwLOWERMOBM is the number of lower body mobility questions with missing values, ranging from 0 to 4. RwLOWERMOB is calculated for all respondents

who answered at least one of the lower body mobility component questions. RwLOWERMOBA indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwNAGI10= sum (RwWALK1A, RwSITA, RwCHAIRA, RwCLIMSA, RwCLIM1A, RwSTOOPA, RwARMSA, RwPUSHA, RwLIFTA, RwDIMEA). RwNAGI10M is the number of NAGI items with missing values, ranging from 0 to 10. RwNAGI10 is calculated for all respondents who answered at least one of the NAGI item component questions. RwNAGI10A indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwNAGI8= sum (RwWALK1A, RwSITA, RwCHAIRA, RwSTOOPA, RwARMSA, RwPUSHA, RwLIFTA, RwDIMEA). RwNAGI8M is the number of NAGI items with missing values, ranging from 0 to 8. RwNAGI8 is calculated for all respondents who answered at least one of the NAGI item component questions. RwNAGI8A indicates whether the respondent had difficulty with any item in the summary. It is coded as 0 if they had no difficulty and 1 if they had difficulty with at least one item.

RwMOBILA, RwLGMUSA, RwGROSSA, RwFINEA, RwMOBILSEV, RwUPPERMOB, RwLOWERMOB, RwNAGI10, RwNAGI8, RwMOBILAA, RwLGMUSAA, RwGROSSAA, RwFINEAA, RwMOBILSEVA, RwUPPERMOBA, RwLOWERMOBA, RwNAGI10A, and RwNAGI8A are assigned special missing .d, .r, .x, .p, .m, for don't know, refused, doesn't do, proxy, or otherwise missing responses, respectively. These variables are assigned a blank missing (.) for respondents who did not participate in the current wave.

Swmobila, Swlgmusa, Swgrossa, Swfinea, Swmobilsev, Swuppermob, Swlowermob, Swnagilo, and Swnagi8 are the respondent's spouse's indices and are taken directly from the spouse's Rwmobila, Rwlgmusa, Rwgrossa, Rwfinea, Rwmobilsev, Rwuppermob, Rwlowermob, Rwnagilo, and Rwnagi8 respectively. Swmobilam, Swlgmusam, Swgrossam, Swfineam, Swmobilsevm, Swuppermobm, Swlowermobm, Swnagilom, and Swnagi8m are taken directly from the spouse's values of Rwmobilbm, Rwlgmusam, Rwgrossam, Rwfineam, Rwmobilsevm, Rwuppermobm, Rwlowermobm, Rwnagi10m, and Rwnagi8m respectively. Swmobilaa, Swlgmusaa, Swgrossaa, Swfineaa, Swmobilseva, Swuppermoba, Swlowermoba, Swnagi10a, and Swnagi8a are taken directly from the spouse's values of Rwmobilba, Rwlgmusaa, Rwgrossaa, Rwfineaa, Rwmobilseva, Rwuppermoba, Rwlowermoba, Rwnagi10a, and Rwnagi8a respectively. In addition to the special missing codes used in the respondent variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used for the spouse variables. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used for the spouse variables.

Please see "Activities of Daily Living (ADLs): Some difficulty" for a description of how the individual 0/1 indicators (RwWALKRA, RwBEDA, RwBATHA, RwEATA, and RwDRESSA) are constructed. See "Other Functional Limitations: Some difficulty" for a description of how the individual 0/1 indicators (RwWALK1A, RwCLIMSA, RwCLIM1A, RwSITA, RwCHAIRA, RwSTOOPA, RwPUSHA, RwDIMEA, RwARMSA, and RwLIFTA) are constructed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS includes RwMOBILA, RwLGMUSA, RwGROSSA, and RwFINEA, which are comparable to those included in the Harmonized MHAS. The missing counts and any difficulty indicators available in the Harmonized MHAS (RwMOBILAM, RwLGMUSAM, RwLGMUSAM, RwGROSSAM, RwGROSSAM, RwFINEAM, and RwFINEAA) are not available in the RAND HRS, though comparable measures could be created.

The Harmonized HRS includes RwMOBILSEV, RwMOBILSEVM, RwMOBILSEVA, RwLOWERMOB, RwLOWERMOBM, RwLOWERMOBA, RwUPPERMOB, RwUPPERMOBM, and RwUPPERMOBA, which are comparable to those included in the Harmonized MHAS. The next version of the Harmonized HRS will also include RwNAGI10, RwNAGI10M, RwNAGI10A, RwNAGI8, RwNAGI8M, and RwNAGI8A, which will be comparable to those included in the Harmonized MHAS.

MHAS Variables Used

Wave 1:

H1 long walk

H10 pulling

H11 picking up

```
H12
                    picking up a coin
   H13
                    dressing
   H14
                    help dressing
   H15 1
                    difficult walking
                    spouse helps walking
   H15 4
                    other helps walking
   H16 1
                    difficult bathing
   Н16 З
                    spouse helps bathing
   H16 4
                    other helps bathing
   H17_1
                    difficult eating
   H17_3
                    spouse helps eating
   H17_4
                    other helps eating
   H18 1
                    difficult getting in an out of bed
   H18 3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
   Н2
                    running
   Н3
                    short walk
   H4
                    sitting 2 hours
   Н5
                    getting up
                    long climbing
   Н7
                    short climbing
   Н8
                    bending
   Н9
                    extending arms
Wave 2:
   н1
                    health problems-trouble walking blocks
   H10
                    health problems-trouble pushing or pulling
                    health problems-trouble carrying objects
   H11
   H12
                    health problems-trouble picking up a coin
   Н13
                    health problems-trouble dressing self
   H14
                    someone help you to get dressed
   H15A
                    health problem-trouble walking
   H15E
                    spouse helps
   H15F
                    additional person helps
   H16A
                    health problem-have trouble bathing
   H16E
                    spouse helps
   H16F
                    additional person helps
   H17A
                    health problem-trouble eating or cutting
   H17E
                    spouse helps
   H17F
                    additional person helps
   H18A
                    health problem-get in/out of bed
   H18E
                    spouse helps
   H18F
                    additional person helps
   Н2
                    health problems-trouble running
                    health problems-trouble walking a block
   НЗ
                    health problems-trouble staying seated
   H4
   Н5
                    health problems-trouble getting up from chair
   Н6
                    health problems-trouble with flights of stairs
   Н7
                    health problems-trouble with 1 flight of stairs
   Н8
                    health problems-trouble sitting up
   Н9
                    health problems-trouble lifting arms
Wave 3:
                    Because of health problem, difficulty pushing or pullin
   H10 12
   H11_12
                    Because of health problem, difficulty carrying objects
   \rm H12\_12
                    Because of health problem, difficulty picking up a coin
   H13 12
                    Because of health problem, difficulty dressing self
   H14 12
                    Someone help you to get dressed
   H15A 12
                    Because of health problem, difficulty walking
   H15D 12
                    Someone help you walk across room
   H16A 12
                    Because of health problem, difficulty bathing
   H16D 12
                    Someone help you to bathe or shower
   H17A 12
                    Because of health problem, difficulty eating or cutting
   H17D 12
                    Does someone help you eat your food
   H18A 12
                    Because of health problem, difficulty get in/out of bed
   H18D 12
                    Does someone help you get into or out of bed
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H19A 12	Because of health problem, difficulty going to the bath
H19D 12	Does someone help you use toilet, get on off
H1 12	Because of health problem, difficulty walking blocks
H2 12	Because of health problem, difficulty running
H3_12	Because of health problem, difficulty walking a block
H4_12	Because of health problem, difficulty staying seated
н5_12	Because of health problem, difficulty getting up from c
H6_12	Because of health problem, difficulty with flights of s
Н7 12	Because of health problem, difficulty with 1 flight of
H8 12	Because of health problem, difficulty sitting up
н9 ⁻ 12	Because of health problem, difficulty lifting arms
Wave 4:	, , , , , , , , , , , , , , , , , , ,
H10 15	Because of health problem, does respondent have difficu
H11 15	Because of health problem, does respondent have difficu
H12 15	Because of health problem, does respondent have difficu
_	
H13_15	Because of health problem, does respondent have difficu
H14_15	Does someone help respondent to get dressed
H15A_15	Because of health problem, does respondent have any dif
H15D_15	Does someone help respondent walking across a room
H16A 15	Because of health problem, does respondent have any dif
H16D 15	Does someone help respondent bathing or showering
H17A 15	Because of health problem, does respondent have any dif
H17D 15	Does someone help respondent eating
H18A 15	Because of health problem, does respondent have any dif
H18D 15	Does someone help respondent getting in or out of bed
H19A 15	Because of health problem, does respondent have any dif
_	
H19D_15	Does someone help respondent using the toilet
H1_15	Because of health problem, does respondent have difficu
н2_15	Because of health problem, does respondent have difficu
Н3_15	Because of health problem, does respondent have difficu
H4_15	Because of health problem, does respondent have difficu
H5_15	Because of health problem, does respondent have difficu
н6_15	Because of health problem, does respondent have difficu
H7 15	Because of health problem, does respondent have difficu
 Н8 15	Because of health problem, does respondent have difficu
н9 [—] 15	Because of health problem, does respondent have difficu
Wave 5:	* *
Н10 18	Because of health problem, does R have difficulty pushi
H11 18	Due to health problem, difficult for R to lift/carry ob
H12 18	Due to health problem, does R have difficulty picking u
H13 18	Due to health problem, difficult for R to dress, includ
_	
H14_18	Does someone help R to get dressed
H15A_18	Because of health problem, does R have any difficulty w
H15D_18	Does someone help R walking across a room
H16A_18	Because of health problem, does R have any difficulty b
H16D_18	Does someone help R bathing or showering
H17A_18	Due to health problem, does R have any difficulty eatin
H17D_18	Does someone help R eating
H18A_18	Because of health problem, does R have any difficulty g
H18D 18	Does someone help R getting in or out of bed
H19A 18	Because of health problem, does R have any difficulty u
H19D 18	Does someone help R using the toilet
н1 1 8	Because of health problem, does R have difficulty walki
H2 ¹ 8	Because of health problem, does R have difficulty runni
н3 18	Because of health problem, does R have difficulty walki
H4 18	Because of health problem, does R have difficulty sitti
H5 18	Due to health problem, difficult for R to get up from c
H6 18	Due to health problem, hard for R to climb several flig
_	
H7_18	Due to health problem, difficult for R to climb 1 fligh
H8_18	Due to health problem, does R have difficulty stooping,
H9_18	Due to health problem, difficult for R to reach/extend

Doctor Diagnosed Health Problems: Ever Have Condition

Wave	Variable	Label	Type
1	R1HIBPE	rlhibpe: w1 R Ever had high blood pressure	Categ
	R2HIBPE	r2hibpe: w2 R Ever had high blood pressure	Categ
	R3HIBPE	r3hibpe: w3 R Ever had high blood pressure	Categ
	R4HIBPE	r4hibpe: w4 R Ever had high blood pressure	Categ
5	R5HIBPE	r5hibpe: w5 R Ever had high blood pressure	Categ
J	KJIIIDEE	ionibpe. Wo k Ever had high brood pressure	categ
1	S1HIBPE	slhibpe: w1 S Ever had high blood pressure	Categ
2	S2HIBPE	s2hibpe: w2 S Ever had high blood pressure	Categ
3	S3HIBPE	s3hibpe: w3 S Ever had high blood pressure	Categ
4	S4HIBPE	s4hibpe: w4 S Ever had high blood pressure	Categ
5	S5HIBPE	s5hibpe: w5 S Ever had high blood pressure	Categ
	R1DIABE	rldiabe: w1 R Ever had diabetes	Categ
	R2DIABE	r2diabe: w2 R Ever had diabetes	Categ
	R3DIABE	r3diabe: w3 R Ever had diabetes	Categ
	R4DIABE	r4diabe: w4 R Ever had diabetes	Categ
5	R5DIABE	r5diabe: w5 R Ever had diabetes	Categ
1	S1DIABE	sldiabe: w1 S Ever had diabetes	Categ
	S2DIABE	s2diabe: w2 S Ever had diabetes	Categ
	S3DIABE	s3diabe: w3 S Ever had diabetes	Categ
	S4DIABE	s4diabe: w4 S Ever had diabetes	Categ
5	S5DIABE	s5diabe: w5 S Ever had diabetes	Categ
J	SULTABE	Sourabe. Wo S Ever had drabetes	categ
1	R1CANCRE	rlcancre: w1 R Ever had cancer	Categ
2	R2CANCRE	r2cancre: w2 R Ever had cancer	Categ
3	R3CANCRE	r3cancre: w3 R Ever had cancer	Categ
4	R4CANCRE	r4cancre: w4 R Ever had cancer	Categ
5	R5CANCRE	r5cancre: w5 R Ever had cancer	Categ
1	S1CANCRE	slcancre: w1 S Ever had cancer	Categ
	S2CANCRE	s2cancre: w2 S Ever had cancer	Categ
	S3CANCRE	s3cancre: w3 S Ever had cancer	Categ
	S4CANCRE	s4cancre: w4 S Ever had cancer	Categ
5	S5CANCRE	s5cancre: w5 S Ever had cancer	Categ
5	SSCANCILE	socancie, wo believed had cancel	categ
1	R1LUNGE M	rllunge m: w1 R Ever had lung disease	Categ
2	R2LUNGE M	r2lunge m: w2 R Ever had lung disease	Categ
3	R3LUNGE M	r3lunge m: w3 R Ever had lung disease	Categ
4	R4LUNGE M	r4lunge m: w4 R Ever had lung disease	Categ
5	R5LUNGE_M	r5lunge_m: w5 R Ever had lung disease	Categ
1	S1LUNGE M	sllunge m: w1 S Ever had lung disease	Categ
	S2LUNGE_M S2LUNGE M		_
	SZLUNGE_M S3LUNGE M	s2lunge_m: w2 S Ever had lung disease s3lunge m: w3 S Ever had lung disease	Categ Categ
	S4LUNGE M	s4lunge m: w4 S Ever had lung disease	_
5	S5LUNGE M	s5lunge m: w4 S Ever had lung disease	Categ Categ
J	22TONGE_M	solunge_m. wo server had rung disease	categ
1	R1HRTATTE	r1hrtatte: w1 R Ever had heart attack	Categ
2	R2HRTATTE	r2hrtatte: w2 R Ever had heart attack	Categ
3	R3HRTATTE	r3hrtatte: w3 R Ever had heart attack	Categ
4	R4HRTATTE	r4hrtatte: w4 R Ever had heart attack	Categ
5	R5HRTATTE	r5hrtatte: w5 R Ever had heart attack	Categ
1	C1 UDTATT	s1hrtatte: w1 S Ever had heart attack	Cator
	S1HRTATTE S2HRTATTE	sinrtatte: wi S Ever had heart attack s2hrtatte: w2 S Ever had heart attack	Categ
		s2nrtatte: w2 S Ever had heart attack s3hrtatte: w3 S Ever had heart attack	Categ
3 4	S3HRTATTE S4HRTATTE	signification: Wild S Ever had heart attack s4hrtatte: w4 S Ever had heart attack	Categ Categ
4 5		s4nrtatte: w4 S Ever had heart attack s5hrtatte: w5 S Ever had heart attack	_
5	S5HRTATTE	SUMPLIABLE: WO S EVER HAG HEARL ATTACK	Categ

4 5	R4HEARTE R5HEARTE						heart problems heart problems	Categ Categ
4 5	S4HEARTE S5HEARTE						heart problems heart problems	Categ Categ
1 2 3 4 5	R1STROKE R2STROKE R3STROKE R4STROKE R5STROKE	r1stroke: r2stroke: r3stroke: r4stroke: r5stroke:	w2 w3 w4	R R R	Ever Ever Ever	had had had	stroke stroke stroke	Categ Categ Categ Categ Categ
1 2 3 4 5	S1STROKE S2STROKE S3STROKE S4STROKE S5STROKE	s1stroke: s2stroke: s3stroke: s4stroke: s5stroke:	w2 w3 w4	S S S	Ever Ever Ever	had had had	stroke stroke stroke	Categ Categ Categ Categ Categ
1 2 3 4 5	R1ARTHRE R2ARTHRE R3ARTHRE R4ARTHRE R5ARTHRE	rlarthre: r2arthre: r3arthre: r4arthre: r5arthre:	w2 w3 w4	R R R	Ever Ever Ever	had had had	arthritis arthritis arthritis	Categ Categ Categ Categ Categ
1 2 3 4 5	S1ARTHRE S2ARTHRE S3ARTHRE S4ARTHRE S5ARTHRE	slarthre: s2arthre: s3arthre: s4arthre: s5arthre:	w2 w3 w4	S S S	Ever Ever Ever	had had had	arthritis arthritis arthritis	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIBPE	14704	0.38	0.48	0.00	1.00
R2HIBPE	13668	0.47	0.50	0.00	1.00
R3HIBPE	15687	0.51	0.50	0.00	1.00
R4HIBPE	14761	0.59	0.49	0.00	1.00
R5HIBPE	17099	0.54	0.50	0.00	1.00
S1HIBPE	10303	0.36	0.48	0.00	1.00
S2HIBPE	9538	0.46	0.50	0.00	1.00
S3HIBPE	10573	0.48	0.50	0.00	1.00
S4HIBPE	9643	0.56	0.50	0.00	1.00
S5HIBPE	7631	0.61	0.49	0.00	1.00
R1DIABE	14721	0.16	0.36	0.00	1.00
R2DIABE	13653	0.19	0.39	0.00	1.00
R3DIABE	15691	0.24	0.42	0.00	1.00
R4DIABE	14760	0.27	0.44	0.00	1.00
R5DIABE	17088	0.27	0.45	0.00	1.00
S1DIABE	10314	0.16	0.36	0.00	1.00
S2DIABE	9527	0.19	0.39	0.00	1.00
S3DIABE	10577	0.23	0.42	0.00	1.00
S4DIABE	9642	0.27	0.44	0.00	1.00
S5DIABE	7626	0.31	0.46	0.00	1.00
R1CANCRE	14733	0.02	0.14	0.00	1.00
R2CANCRE	13670	0.02	0.15	0.00	1.00
R3CANCRE	15696	0.03	0.17	0.00	1.00
R4CANCRE	14763	0.04	0.19	0.00	1.00
R5CANCRE	17099	0.04	0.20	0.00	1.00

S1CANCRE S2CANCRE S3CANCRE S4CANCRE S5CANCRE	10320 9537 10579 9643 7635	0.02 0.02 0.03 0.04 0.05	0.14 0.15 0.17 0.19 0.21	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
R1LUNGE_M R2LUNGE_M R3LUNGE_M R4LUNGE_M R5LUNGE_M	14742 13669 15697 14769 17102	0.06 0.08 0.09 0.11 0.11	0.24 0.28 0.28 0.32 0.31	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
S1LUNGE_M S2LUNGE_M S3LUNGE_M S4LUNGE_M S5LUNGE_M	10330 9540 10579 9647 7634	0.06 0.08 0.08 0.10 0.12	0.23 0.27 0.27 0.30 0.33	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
R1HRTATTE R2HRTATTE R3HRTATTE R4HRTATTE R5HRTATTE	14727 13683 15700 14767 17103	0.03 0.05 0.05 0.07 0.07	0.18 0.21 0.22 0.25 0.25	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
S1HRTATTE S2HRTATTE S3HRTATTE S4HRTATTE S5HRTATTE	10322 9550 10579 9646 7636	0.03 0.05 0.05 0.06 0.08	0.18 0.21 0.22 0.25 0.27	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
R4HEARTE R5HEARTE	14775 17106	0.09 0.12	0.29 0.33	0.00	1.00
S4HEARTE S5HEARTE	9650 7637	0.09 0.13	0.28 0.34	0.00	1.00
R1STROKE R2STROKE R3STROKE R4STROKE R5STROKE	14730 13695 15707 14765 17105	0.03 0.03 0.03 0.04 0.04	0.16 0.17 0.18 0.20 0.20	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
S1STROKE S2STROKE S3STROKE S4STROKE S5STROKE	10322 9558 10584 9645 7634	0.02 0.03 0.03 0.04 0.04	0.15 0.16 0.17 0.19 0.21	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
R1ARTHRE R2ARTHRE R3ARTHRE R4ARTHRE R5ARTHRE	14727 13688 15698 14760 17095	0.20 0.28 0.24 0.28 0.24	0.40 0.45 0.42 0.45 0.43	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
S1ARTHRE S2ARTHRE S3ARTHRE S4ARTHRE S5ARTHRE	10319 9553 10574 9641 7631	0.17 0.25 0.20 0.24 0.27	0.38 0.43 0.40 0.43 0.44	0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00

Categorical Variable Codes

Value	R1HIBPE	R2HIBPE	R3HIBPE	R4HIBPE	R5HIBPE
.d:DK	45	36	33	15	12
.m:Missing .r:Refuse	4 38		3	3	3
.s:Skip	395		3	3	3
0.no	9153	7194	7727	6119	7782
1.yes	5551	6474	7960	8642	9317
					- -
Value .d:DK	S1HIBPE 31	S2HIBPE 26	S3HIBPE 18	S4HIBPE 8	S5HIBPE 5
.m:Missing	3	20	10	0	J
.r:Refuse	28		1	1	2
.s:Skip	283				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333 6631	131 5196	349 5509	280 4274	501 2961
1.yes	3672	4342	5064	5369	4670
_					
Value		R2DIABE	R3DIABE	R4DIABE	R5DIABE
.d:DK	33	49	29	15	23
.m:Missing .r:Refuse	4 33	2	3	4	3
.s:Skip	395	Z	3	4	3
0.no	12437	11062	11989	10755	12437
1.yes	2284	2591	3702	4005	4651
	-4				*
Value	S1DIABE 23	S2DIABE 36	S3DIABE 13	S4DIABE 8	S5DIABE 11
.m:Missing	3	30	13	O	11
.r:Refuse	25	1	2	2	1
.s:Skip	283				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333 8713	131 7707	349 8099	280 7036	501 5297
1.yes	1601	1820	2478	2606	2329
Value		R2CANCRE	R3CANCRE	R4CANCRE	R5CANCRE
.d:DK	22	34	22	14	11
.m:Missing .r:Refuse	4 32		5	2	4
.s:Skip	395		J	2	-
0.no	14434	13354	15218	14185	16403
1.yes	299	316	478	578	696
Value	S1CANCRE	S2CANCRE	S3CANCRE	S4CANCRE	S5CANCRE
.d:DK	18	27	10	9	2
.m:Missing	3				
.r:Refuse	24		3		1
.s:Skip	283 4205	4009	4782	4847	5227
.u:Unmar v:SP NR	333	131	349	280	501
0.no	10112	9324	10272	9272	7283
1.yes	208	213	307	371	352
Value	D11 IINCE M	DOLLINGE M	DOLUMCE M	DALINGE M	DELINCE M
value	R1LUNGE_M 14	R2LUNGE_M 33	R3LUNGE_M 23	R4LUNGE_M 6	R5LUNGE_M 6
.m:Missing	4	33	23	0	0
.r:Refuse	31	2	3	4	6
.s:Skip	395				
0.no	13828	12510	14302	13115	15250
1.yes	914	1159	1395	1654	1852
Value	S1LUNGE M	S2LUNGE M	S3LUNGE M	S4LUNGE M	S5LUNGE M
.d:DK	_8	23	$\overline{1}$ 1	_2	_2
.m:Missing	3	_		_	_
r:Refuse	24 283	1	2	3	2
.s:Skip .u:Unmar	283 4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	9727	8791	9735	8676	6709
1.yes	603	749	844	971	925
Value	R1HRTATTE	R2HRTATTE	R3HRTATTE	R4HRTATTE	R5HRTATTE
	111111111111		1.0111.1111.11		1.0111111111

Section B: Health					155
d pw	2.4	1.0	1.0	0	
.d:DK	24 4	18	16	9 1	6
.m:Missing	36	3	7	2	5
.r:Refuse	395	3	/	2	5
.s:Skip 0.no	14239	13048	14886	13791	15952
	488	635	814	976	1151
1.yes	400	633	014	976	1131
Value	S1HRTATTE	S2HRTATTE	S3HRTATTE	S4HRTATTE	S5HRTATTE
.d:DK	15	11	7	4	2
.m:Missing	3	11	,	7	۷
.r:Refuse	25	3	6	2	
.s:Skip	283	J	· ·	_	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	9982	9106	10059	9024	7023
1.yes	340	444	520	622	613
Value				R4HEARTE	R5HEARTE
.d:DK				3	4
.m:Missing				1	
.r:Refuse					4
0.no				13442	15043
1.yes				1333	2063
-					
Value				S4HEARTE	S5HEARTE
.d:DK				2	1
.u:Unmar				4847	5227
.v:SP NR				280	501
0.no				8824	6616
1.yes				826	1021
Value	R1STROKE	R2STROKE	R3STROKE	R4STROKE	R5STROKE
.d:DK	18	8	12	9	5
.m:Missing	4			1	
.r:Refuse	39	1	4	4	4
.s:Skip	395				
0.no	14339	13265	15176	14150	16400
1.yes	391	430	531	615	705
Value	S1STROKE	S2STROKE	S3STROKE	S4STROKE	S5STROKE
.d:DK	13	5	5	5	2
.m:Missing	3				
.r:Refuse	27	1	3	2	2
.s:Skip	283		4500	4045	5005
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	10079	9292	10273	9298	7298
1.yes	243	266	311	347	336
Value	ם מנוחת ג' 1 מ	R2ARTHRE	מתווחת עכת	R4ARTHRE	R5ARTHRE
	R1ARTHRE		R3ARTHRE		
.d:DK	27 4	16	20	13 1	15
.m:Missing .r:Refuse	33		5	5	4
.s:Skip	395		J	J	4
0.no	11846	9907	11997	10675	13005
1.yes	2881	3781	3701	4085	4090
i.yes	2001	3/01	3/01	4000	4090
Value	S1ARTHRE	S2ARTHRE	S3ARTHRE	S4ARTHRE	S5ARTHRE
.d:DK	STARTHRE 20	SZARTHRE 11	SSARTHRE 14	S4ARTHRE 8	SSARTHRE 5
.m:Missing	3	11	14	ŏ	5
.m:missing	23		4	3	2
	283		4	3	۷
.s:Skip		4000	1700	1017	E227
.u:Unmar	4205	4009	4782	4847	5227 501
.v:SP NR	333	131	349	280	501
0.no 1.ves	8545 1774	7168 2385	8417 2157	7301 2340	5578 2053
1.450	1 / / 4	/20.1	7.1.17	/) 4 II	Z.U.13

How Constructed

1.yes

RWHIBPE, RWDIABE, RWCANCRE, RWLUNGE M, RWHRTATTE, RWHEARTE, RWSTROKE, and RWARTHRE indicate whether or not a doctor has ever told the respondent they had or currently have these conditions. A code of 0 indicates that the respondent does not report having been told by a doctor they have the condition. A

1774

2385

2157

2340

2053

code of 1 indicates that the respondent reports having been told by a doctor they have the condition. When respondents "don't know" or refuse to answer, RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE_M, RwHRTATTE, RwHEARTE, RwSTROKE, and RwARTHRE are assigned special missing values .d or .r, respectively. A special missing value .s is assigned in Wave 1 if the respondent was not asked whether they have been diagnosed with any conditions because they reported not ever having seen a medical doctor. These variables are set to plain missing (.) for respondents who did not respond to the current wave.

RwHIBPE indicates whether a doctor has told the respondent they had or currently have hypertension or high blood pressure. RwDIABE indicates whether a doctor has told the respondent they had or currently have diabetes or high blood sugar. RwCANCRE indicates whether a doctor has told the respondent they had or currently have cancer. RwLUNGE_M indicates whether a doctor has told the respondent they had or currently have a respiratory illness, such as asthma or emphysema. RwHRTATTE indicates whether a doctor has told the respondent they had a heart attack. RwHEARTE indicates whether a doctor has told the respondent they had a heart condition, such as heart failure/cardiac failure/congestive heart failure, arrhythmia, angina, or a heart attack. RwSTROKE indicates whether a doctor has told the respondent they had a stroke. RwARTHRE indicates whether a doctor has told the respondent they had or currently have arthritis or rheumatism.

SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE_M, SwHRTATTE, SwHEARTE, SwSTROKE, and SwARTHRE indicate whether the respondent's spouse reported ever being told by a doctor they had or currently have any of these conditions described above and are taken directly from the spouse's RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE_M, RwHRTATTE, RwHEARTE, RwSTROKE, and RwARTHRE, respectively. In addition to the special missing codes used in RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE_M, RwHRTATTE, RwHEARTE, RwSTROKE, and RwARTHRE; SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE_M, SwHRTATTE, SwHEARTE, SwSTROKE, and SwARTHRE employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Wave 1, respondents who reported never having seen a medical doctor, or who responded don't know or refuse to that question, were not asked whether they had ever been diagnosed with health conditions. Additionally, in Wave 1, for all the conditions, respondents were asked "Has a doctor or medical personnel ever told you that you have/have had [...]?".

In Wave 2, respondents were asked if "a doctor or medical personnel diagnosed him/her with" hypertension, cancer, diabetes, respiratory illness, or arthritis. They were also asked if "a doctor or medical personnel ever told them they have had" a heart attack or a stroke. In addition, while follow-up respondents were asked about the last two years, new respondents were asked if "a doctor or medical personnel ever diagnosed him/her (or told him/her that he/she had) [...]". To construct R2HIBPE, R2DIABE, R2CANCRE_M, R2LUNGE_M, R2HRTATTE, R2STROKE, and R2ARTHRE a code of 1 was also assigned if a respondent reported in the previous wave having the condition, that is Rw[condition] equal 1.

Starting in Wave 3, respondents were asked if a doctor or medical personnel ever diagnosed them or told them they have had a condition, disregarding the type of interview (follow-up or new sample). To construct RwHIBPE, RwDIABE, RwCANCRE_M, RwLUNGE_M, RwHRTATTE, RwSTROKE, and RwARTHRE a code of 1 was also assigned if a respondent reported in the previous waves having the condition, that is Rw[condition] equal 1

Also the definition of cancer changes across waves. Respondents were asked during the first and third waves if they were ever (or in the last two years) diagnosed with cancer. However, during the second wave, they were asked if they were told that they have (or had) cancer or a malignant tumor, excluding minor skin cancer.

Starting in Wave 3, respondents are also asked if a doctor or medical personnel ever told you that you have had heart problem such as heart failure, cardiac failure, congestive heart failure, arrhythmia, or angina. However, in Wave 3, this question is skipped if the respondent reported not having had a heart attack. RwHEARTE is only included starting in Wave 4 when this question is asked of all respondents.

Differences with the RAND HRS/Harmonized HRS

In follow-up interviews in the HRS, respondents are read a statement containing conditions they reported at prior waves. Respondents are able to dispute any incorrect reports. However, in the MHAS the timing of the health questions changed across waves. In Wave 2, during follow-up interviews, respondents were asked

if in the last two years they were diagnosed with a condition or if a doctor told them they had a condition. Also, during new interviews respondents were asked if they were ever diagnosed (or ever had) a condition. Thus, to construct the health condition variables for Wave 2, a code of 1 is assigned if follow-up respondents reported having the condition in the previous wave, that is Wave 1. Starting in Wave 3, all respondent with disregard of the type of interview (follow-up of new sample) were asked if they ever had or have the condition.

Also different to the MHAS is the definition of some of the health conditions. First, respondents were asked during the first and third waves if they were ever (or in the last two years) diagnosed with cancer. However, during the second wave, they were asked if they were told that they have (or had) cancer or a malignant tumor, excluding minor skin cancer. In the HRS, the cancer question consistently asks respondents to exclude minor skin cancer.

Second, respondents were asked if they were ever told they had/diagnosed with a respiratory illness, such as asthma or emphysema. In the HRS, the chronic lung disease definition includes chronic bronchitis or emphysema and excludes asthma. In this case, an MHAS specific variable (RwLUNGE_M) was created for all the waves.

Finally, to determine if the respondent had a heart problem, starting in Wave 3 respondents were asked if they ever had (or in the past two years) a heart problem including heart failure, cardiac failure, congestive heart failure, or arrhythmia. However in the HRS, the questions include myocardial infraction or coronary thrombosis, or any other heart problem, including congestive heart failure. As such, reports of heart attack have been incorporated into RwHEARTE in the Harmonized MHAS starting in Wave 4 to provide a comparable measure to RwHEARTE in the RAND HRS.

MHAS Variables Used

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Wave 1:
    C12
                    cancer or tumor
    C19
                    respiratory illness
    C22
                    heart attack
    C27
                    stroke
                    arthritis or rheumatism
    C34
    C.4
                    hypertension
    С6
                    diabetes
Wave 2:
    C12
                    doctor ever say you have cancer
    C19
                    doctor ever say you have a respiratory disease
    C22A
                    doctor ever say you had a heart attack
    C26
                    doctor ever say you had a stroke
    C32
                    doctor ever say you have arthritis
    C4
                    doctor ever say you have hypertension
    С6
                    doctor ever say you have diabetes
Wave 3:
    C12 12
                    Has a physician diagnosed respondent ... . cancer
    C19 12
                    Has a physician diagnosed respondent...respiratory illnes
    C22A 12
                    Has a physician ever told respondent...heart attack
    C26 12
                    Ever/last 2 years:Has a physician told respondent...stro
                    Has a physician diagnosed respondent with arthritis/rhe
    C32_12
    C4_12
                    Has a physician diagnosed...hypertension/high blood press
    C6 12
                    Has a physician diagnosed respondent...diabetes
Wave 4:
    C12 15
                    Has a doctor or medical personnel ever diagnosed respon
    C19<sup>-</sup>15
                    Has a doctor or medical personnel ever diagnosed respon
    C22A 15
                    Has a doctor or medical personnel ever told respondent
    C26 \overline{15}
                    Has a doctor or medical personnel ever told respondent
    C32 15
                    Has a doctor or medical personnel ever diagnosed respon
    C4 15
                    Has a doctor or medical personnel ever diagnosed respon
    C6 15
                    Has a doctor or medical personnel ever diagnosed respon
Wave 5:
    C12 18
                    Has a doctor or medical personnel ever diagnosed R with
    C19 18
                    Has a doctor or medical personnel ever diagnosed R with
    C22A 18
                    Has a doctor or medical personnel ever told R he/she ha
    C26\overline{1}8
                    Has a doctor or medical personnel ever told R he/she ha
```

C32_18	Has a	doctor or	medical personnel ever diagnosed R	R with
C4_18	Has I	R ever been	diagnosed with hypertension/high b	olood
C6_18	Has a	doctor or	medical personnel ever diagnosed R	R with

Doctor Diagnosed Diseases: Whether Receives Treatment or Medication for Disease

Wave	Variable	Label	Type
1	R1RXHIBP	rlrxhibp: w1 Whether R takes meds for high blood pressure	Categ
2	R2RXHIBP	r2rxhibp: w2 Whether R takes meds for high blood pressure	Categ
3	R3RXHIBP	r3rxhibp: w3 Whether R takes meds for high blood pressure	Categ
4	R4RXHIBP	r4rxhibp: w4 Whether R takes meds for high blood pressure	Categ
5	R5RXHIBP	r5rxhibp: w5 Whether R takes meds for high blood pressure	Categ
1	S1RXHIBP	slrxhibp: w1 Whether S takes meds for high blood pressure	Categ
2	S2RXHIBP	s2rxhibp: w2 Whether S takes meds for high blood pressure	Categ
	S3RXHIBP	s3rxhibp: w3 Whether S takes meds for high blood pressure	Categ
4	S4RXHIBP	s4rxhibp: w4 Whether S takes meds for high blood pressure	Categ
5	S5RXHIBP	s5rxhibp: w5 Whether S takes meds for high blood pressure	Categ
1	R1RXDIABO	r1rxdiabo: w1 Whether R takes oral meds for diabetes	Categ
2	R2RXDIABO	r2rxdiabo: w2 Whether R takes oral meds for diabetes	Categ
	R3RXDIABO	r3rxdiabo: w3 Whether R takes oral meds for diabetes	Categ
	R4RXDIABO	r4rxdiabo: w4 Whether R takes oral meds for diabetes	Categ
5	R5RXDIABO	r5rxdiabo: w5 Whether R takes oral meds for diabetes	Categ
J	KJKADIABO	idixulabo. Wo whether K takes ofar meds for diabetes	categ
1	S1RXDIABO	s1rxdiabo: w1 Whether S takes oral meds for diabetes	Categ
2	S2RXDIABO	s2rxdiabo: w2 Whether S takes oral meds for diabetes	Categ
3	S3RXDIABO	s3rxdiabo: w3 Whether S takes oral meds for diabetes	Categ
4	S4RXDIABO	s4rxdiabo: w4 Whether S takes oral meds for diabetes	Categ
5	S5RXDIABO	s5rxdiabo: w5 Whether S takes oral meds for diabetes	Categ
	R1RXDIABI	rlrxdiabi: wl Whether R takes insulin for diabetes	Categ
	R2RXDIABI	r2rxdiabi: w2 Whether R takes insulin for diabetes	Categ
	R3RXDIABI	r3rxdiabi: w3 Whether R takes insulin for diabetes	Categ
	R4RXDIABI	r4rxdiabi: w4 Whether R takes insulin for diabetes	Categ
5	R5RXDIABI	r5rxdiabi: w5 Whether R takes insulin for diabetes	Categ
1	S1RXDIABI	slrxdiabi: wl Whether S takes insulin for diabetes	Categ
2	S2RXDIABI	s2rxdiabi: w2 Whether S takes insulin for diabetes	Categ
3	S3RXDIABI	s3rxdiabi: w3 Whether S takes insulin for diabetes	Categ
4	S4RXDIABI	s4rxdiabi: w4 Whether S takes insulin for diabetes	Categ
5	S5RXDIABI	s5rxdiabi: w5 Whether S takes insulin for diabetes	Categ
1	R1RXDIAB	rlrxdiab: wl Whether R takes meds for diabetes (oral or insu	Categ
	R2RXDIAB	r2rxdiab: w2 Whether R takes meds for diabetes (oral or insu	Categ
	R3RXDIAB	r3rxdiab: w3 Whether R takes meds for diabetes (oral or insu	Categ
4	R4RXDIAB	r4rxdiab: w4 Whether R takes meds for diabetes (oral or insu	Categ
5	R5RXDIAB	r5rxdiab: w5 Whether R takes meds for diabetes (oral or insu	Categ
1	S1RXDIAB	slrxdiab: wl Whether S takes meds for diabetes (oral or inul	Categ
2	S2RXDIAB	s2rxdiab: w2 Whether S takes meds for diabetes (oral or inul	Categ
3	S3RXDIAB	s3rxdiab: w3 Whether S takes meds for diabetes (oral or inul	Categ
4	S4RXDIAB	s4rxdiab: w4 Whether S takes meds for diabetes (oral or inul	Categ
5	S5RXDIAB	s5rxdiab: w5 Whether S takes meds for diabetes (oral or inul	Categ
		, , , , , , , , , , , , , , , , , , ,	
1	R1CNCRCHEM	rlcncrchem: w1 R received treatment for cancer (chemotherapy	Categ
2	R2CNCRCHEM	r2cncrchem: w2 R received treatment for cancer (chemotherapy	Categ
3	R3CNCRCHEM	r3cncrchem: w3 R received treatment for cancer (chemotherapy	Categ
4	R4CNCRCHEM	r4cncrchem: w4 R received treatment for cancer (chemotherapy	Categ
5	R5CNCRCHEM	r5cncrchem: w5 R received treatment for cancer (chemotherapy	Categ
1	C1CNCDCHEM	elengrahom. W1 S received treatment for cancer (abomathaman)	Cator
2	S1CNCRCHEM S2CNCRCHEM	slcncrchem: wl S received treatment for cancer (chemotherapy s2cncrchem: w2 S received treatment for cancer (chemotherapy	Categ
3	S3CNCRCHEM S3CNCRCHEM		Categ
3 4	S4CNCRCHEM S4CNCRCHEM	s3cncrchem: w3 S received treatment for cancer (chemotherapy	Categ
4 5		s4cncrchem: w4 S received treatment for cancer (chemotherapy	Categ
5	S5CNCRCHEM	s5cncrchem: w5 S received treatment for cancer (chemotherapy	Categ

1	R1CNCRSURG	rlcncrsurg:								Categ
2	R2CNCRSURG	r2cncrsurg:								Categ
3	R3CNCRSURG	r3cncrsurg:								Categ
4	R4CNCRSURG	r4cncrsurg:	w4	R	received	treatment	for	cancer	(surgery)	Categ
5	R5CNCRSURG	r5cncrsurg:	w5	R	received	treatment	for	cancer	(surgery)	Categ
1	S1CNCRSURG	s1cncrsurg:	w1	S	received	treatment	for	cancer	(surgery)	Categ
2	S2CNCRSURG	s2cncrsurg:								Categ
3	S3CNCRSURG	s3cncrsurg:								Categ
4	S4CNCRSURG	s4cncrsurg:								Categ
5	S5CNCRSURG	s5cncrsurg:								Categ
0	DOCTOROUNG	boomerbarg.		٧	recerved	er ea emerre	101	carreer	(burgery)	caccg
1	R1CNCRRADN	rlanarradn.	_{7.7} 1	D	rocoiwod	troatmont	for	cancor	(radiation/xr	Categ
2	R2CNCRRADN								(radiation/xr	Categ
										_
3	R3CNCRRADN								(radiation/xr	Categ
4	R4CNCRRADN								(radiation/xr	Categ
5	R5CNCRRADN	r5cncrradn:	w5	R	received	treatment	for	cancer	(radiation/xr	Categ
1	S1CNCRRADN	s1cncrradn:	w1	S	received	treatment	for	cancer	(radiation/xr	Categ
2	S2CNCRRADN	s2cncrradn:	w2	S	received	treatment	for	cancer	(radiation/xr	Categ
3	S3CNCRRADN	s3cncrradn:	w3	S	received	t.reatment	for	cancer	(radiation/xr	Categ
4	S4CNCRRADN								(radiation/xr	Categ
5	S5CNCRRADN								(radiation/xr	Categ
5	SSCNCRRADN	socherraun:	WS	S	received	treatment	LOL	cancer	(radiation/xr	categ
1	D1 CNCDMEDC	1	1	Ţ.		h h h	c		/	0 - 1
1	R1CNCRMEDS								(meds for sym	Categ
2	R2CNCRMEDS								(meds for sym	Categ
3	R3CNCRMEDS								(meds for sym	Categ
4	R4CNCRMEDS	r4cncrmeds:	w4	R	received	treatment	for	cancer	(meds for sym	Categ
5	R5CNCRMEDS	r5cncrmeds:	w5	R	received	treatment	for	cancer	(meds for sym	Categ
									-	_
1	S1CNCRMEDS	s1cncrmeds:	w1	S	received	treatment	for	cancer	(meds for sym	Categ
2	S2CNCRMEDS								(meds for sym	Categ
3	S3CNCRMEDS								(meds for sym	Categ
4	S4CNCRMEDS								(meds for sym	Categ
										_
5	S5CNCRMEDS	sscncrmeas:	W5	S	received	treatment	ior	cancer	(meds for sym	Categ
	-1			_			_			~ .
1	R1CNCROTHR	rlcncrothr:							, ,	Categ
2	R2CNCROTHR	r2cncrothr:							, ,	Categ
3	R3CNCROTHR	r3cncrothr:								Categ
4	R4CNCROTHR	r4cncrothr:	w4	R	received	treatment	for	cancer	(other)	Categ
5	R5CNCROTHR	r5cncrothr:	w5	R	received	treatment	for	cancer	(other)	Categ
										-
1	S1CNCROTHR	slcncrothr:	w1	S	received	treatment	for	cancer	(meds for sym	Categ
2	S2CNCROTHR	s2cncrothr:	w2	S	received	t.reatment	for	cancer	(meds for sym	Categ
3	S3CNCROTHR								(meds for sym	Categ
4	S4CNCROTHR								(meds for sym	Categ
5									(meds for sym	_
5	S5CNCROTHR	SOCIETOLIII:	w J	S	received	treatment	101	Cancer	(meas for sym	Categ
1	D1DVIIING »«	w1 wrr 7	1	F-77	aa+b D '	- a lea a 1	£ ~	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20222	Ca+
1	R1RXLUNG_M	r1rxlung_m:								Categ
	R2RXLUNG_M	r2rxlung_m:								Categ
3	R3RXLUNG_M	r3rxlung_m:								Categ
4	R4RXLUNG_M	r4rxlung_m:	w4	Wł	nether R t	takes meds	for	lung di	sease	Categ
5	R5RXLUNG M	r5rxlung m:	w5	Wł	nether R t	takes meds	for	lung di	.sease	Categ
	_							_		_
1	S1RXLUNG M	s1rxlung m:	w1	Wł	nether S t	takes meds	for	lung di	sease	Categ
2	S2RXLUNG M	s2rxlung m:								Categ
3	S3RXLUNG M	s3rxlung m:								Categ
										_
4	S4RXLUNG_M	s4rxlung_m:								Categ
5	S5RXLUNG_M	s5rxlung_m:	w5	Wł	nether S t	cakes meds	ior	⊥ung di	.sease	Categ
							_			_
1	R1RXHRTAT	r1rxhrtat: v								Categ
2	R2RXHRTAT	r2rxhrtat: v	w2 V	√h∈	ether R ta	akes meds i	for h	neart at	tack	Categ
3	R3RXHRTAT	r3rxhrtat: v	w3 V	√h∈	ether R ta	akes meds i	for h	neart at	tack	Categ
										-

4	R4RXHRTAT	r4rxhrtat:	w4	Whether	R	takes	meds for h	neart	attack	Categ
5	R5RXHRTAT	r5rxhrtat:	w5	Whether	R	takes	meds for h	neart	attack	Categ
1	S1RXHRTAT	s1rxhrtat:	w1	Whether	S	takes	meds for h	neart	attack	Categ
2	S2RXHRTAT	s2rxhrtat:			_					Categ
3	S3RXHRTAT	s3rxhrtat:	wЗ	Whether	S	takes	meds for h	neart	attack	Categ
4	S4RXHRTAT	s4rxhrtat:	w4	Whether	S	takes	meds for h	neart	attack	Categ
5	S5RXHRTAT	s5rxhrtat:	w5	Whether	S	takes	meds for h	neart	attack	Categ
1	R1RXSTROK	r1rxstrok:								Categ
2	R2RXSTROK	r2rxstrok:	w2	Whether	R	takes	medication	n for	stroke	Categ
3	R3RXSTROK	r3rxstrok:								Categ
4	R4RXSTROK	r4rxstrok:								Categ
5	R5RXSTROK	r5rxstrok:	w5	Whether	R	takes	medication	n for	stroke	Categ
1	S1RXSTROK	s1rxstrok:			-					Categ
2	S2RXSTROK	s2rxstrok:			_					Categ
3	S3RXSTROK	s3rxstrok:			_					Categ
4	S4RXSTROK	s4rxstrok:			_					Categ
5	S5RXSTROK	s5rxstrok:	w5	Whether	S	takes	medication	n for	stroke	Categ
1	R1RXARTHR	r1rxarthr:								Categ
2	R2RXARTHR	r2rxarthr:								Categ
3	R3RXARTHR	r3rxarthr:								Categ
4	R4RXARTHR	r4rxarthr:								Categ
5	R5RXARTHR	r5rxarthr:	w5	Whether	R	takes	medication	n for	arthritis	Categ
1	S1RXARTHR	s1rxarthr:			_					Categ
2	S2RXARTHR	s2rxarthr:			_					Categ
3	S3RXARTHR	s3rxarthr:			-					Categ
4	S4RXARTHR	s4rxarthr:			_					Categ
5	S5RXARTHR	s5rxarthr:	w5	Whether	S	takes	medication	n for	arthritis	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RXHIBP	14678	0.27	0.44	0.00	1.00
R2RXHIBP	13651	0.28	0.45	0.00	1.00
R3RXHIBP	15682	0.37	0.48	0.00	1.00
R4RXHIBP	14754	0.41	0.49	0.00	1.00
R5RXHIBP	17090	0.38	0.49	0.00	1.00
S1RXHIBP	10284	0.25	0.43	0.00	1.00
S2RXHIBP	9528	0.27	0.44	0.00	1.00
S3RXHIBP	10569	0.35	0.48	0.00	1.00
S4RXHIBP	9640	0.38	0.49	0.00	1.00
S5RXHIBP	7628	0.41	0.49	0.00	1.00
R1RXDIABO	14713	0.13	0.34	0.00	1.00
R2RXDIABO	13649	0.14	0.35	0.00	1.00
R3RXDIABO	15688	0.20	0.40	0.00	1.00
R4RXDIABO	14758	0.22	0.42	0.00	1.00
R5RXDIABO	17083	0.22	0.41	0.00	1.00
S1RXDIABO	10309	0.13	0.34	0.00	1.00
S2RXDIABO	9524	0.14	0.35	0.00	1.00
S3RXDIABO	10577	0.20	0.40	0.00	1.00
S4RXDIABO	9642	0.22	0.42	0.00	1.00
S5RXDIABO	7624	0.24	0.43	0.00	1.00
R1RXDIABI	14709	0.02	0.13	0.00	1.00
R2RXDIABI	13646	0.02	0.14	0.00	1.00
R3RXDIABI	15687	0.04	0.19	0.00	1.00

R4RXDIABI	14758	0.05	0.22	0.00	1.00
R5RXDIABI	17080	0.06	0.24	0.00	1.00
S1RXDIABI	10306	0.01	0.12	0.00	1.00
S2RXDIABI	9521	0.02	0.14	0.00	1.00
s3rxdiabi	10576	0.04	0.19	0.00	1.00
S4RXDIABI	9642	0.05	0.22	0.00	1.00
S5RXDIABI	7624	0.07	0.25	0.00	1.00
R1RXDIAB	14713	0.13	0.34	0.00	1.00
R2RXDIAB	13649	0.14	0.35	0.00	1.00
R3RXDIAB	15688	0.21	0.40	0.00	1.00
R4RXDIAB	14758	0.23	0.42	0.00	1.00
R5RXDIAB	17082	0.23	0.42	0.00	1.00
S1RXDIAB	10309	0.13	0.34	0.00	1.00
S2RXDIAB	9524	0.14	0.35	0.00	1.00
S3RXDIAB	10577	0.21	0.40	0.00	1.00
S4RXDIAB	9642	0.23	0.42	0.00	1.00
S5RXDIAB	7624	0.25	0.43	0.00	1.00
SSIMDIAD	7024	0.25	0.43	0.00	1.00
R1CNCRCHEM	14724	0.00	0.07	0.00	1.00
R2CNCRCHEM	13669	0.00	0.06	0.00	1.00
R3CNCRCHEM	15696	0.01	0.08	0.00	1.00
R4CNCRCHEM	14763	0.01	0.08	0.00	1.00
R5CNCRCHEM	17098	0.01	0.08	0.00	1.00
21 21 22 21 21	10014	0.00	0 07	0.00	1 00
S1CNCRCHEM	10314	0.00	0.07	0.00	1.00
S2CNCRCHEM	9537	0.00	0.06	0.00	1.00
S3CNCRCHEM	10579	0.01	0.07	0.00	1.00
S4CNCRCHEM	9643	0.01	0.09	0.00	1.00
S5CNCRCHEM	7634	0.01	0.08	0.00	1.00
R1CNCRSURG	14724	0.01	0.09	0.00	1.00
R2CNCRSURG	13669	0.00	0.05	0.00	1.00
R3CNCRSURG	15696	0.01	0.07	0.00	1.00
R4CNCRSURG	14763	0.00	0.07	0.00	1.00
R5CNCRSURG	17098	0.01	0.08	0.00	1.00
RUCINCRBURG	17090	0.01	0.00	0.00	1.00
S1CNCRSURG	10314	0.01	0.09	0.00	1.00
S2CNCRSURG	9537	0.00	0.05	0.00	1.00
S3CNCRSURG	10579	0.01	0.07	0.00	1.00
S4CNCRSURG	9643	0.01	0.07	0.00	1.00
S5CNCRSURG	7634	0.01	0.09	0.00	1.00
D1 ONTODD T DIT	1 470 4	0 00	0.00	0 00	1 00
R1CNCRRADN	14724	0.00	0.06	0.00	1.00
R2CNCRRADN	13669	0.00	0.05	0.00	1.00
R3CNCRRADN	15696	0.00	0.05	0.00	1.00
R4CNCRRADN	14763	0.00	0.06	0.00	1.00
R5CNCRRADN	17098	0.00	0.06	0.00	1.00
S1CNCRRADN	10314	0.00	0.06	0.00	1.00
S2CNCRRADN	9537	0.00	0.05	0.00	1.00
S3CNCRRADN	10579	0.00	0.05	0.00	1.00
S4CNCRRADN	9643	0.00	0.06	0.00	1.00
S5CNCRRADN	7634	0.00	0.07	0.00	1.00
R1CNCRMEDS	14724	0.01	0.07	0.00	1.00
R2CNCRMEDS	13669	0.00	0.05	0.00	1.00
R3CNCRMEDS	15696	0.00	0.07	0.00	1.00
R4CNCRMEDS	14763	0.01	0.09	0.00	1.00
R5CNCRMEDS	17098	0.01	0.09	0.00	1.00
TOCINCIVIATION	1 1 U J U	0.01	0.09	0.00	1.00
S1CNCRMEDS	10314	0.01	0.07	0.00	1.00

G 0 G 1 G D 1 G D G	0.5.2.7	0.00	0.05	0.00	1 00
S2CNCRMEDS	9537	0.00	0.05	0.00	1.00
S3CNCRMEDS	10579	0.00	0.07	0.00	1.00
	9643	0.01		0.00	
S4CNCRMEDS			0.08		1.00
S5CNCRMEDS	7634	0.01	0.10	0.00	1.00
-10	1.450.4	0.00	0 04	0.00	1 00
R1CNCROTHR	14724	0.00	0.04	0.00	1.00
R2CNCROTHR	13669	0.00	0.02	0.00	1.00
R3CNCROTHR	15696	0.00	0.03	0.00	1.00
R4CNCROTHR	14763	0.00	0.04	0.00	1.00
R5CNCROTHR	17098	0.00	0.00	0.00	0.00
S1CNCROTHR	10314	0.00	0.04	0.00	1.00
S2CNCROTHR	9537	0.00	0.02	0.00	1.00
S3CNCROTHR	10579	0.00	0.03	0.00	1.00
S4CNCROTHR	9643	0.00	0.04	0.00	1.00
S5CNCROTHR	7634	0.00	0.00	0.00	0.00
-1	1.4505	0.00	0 15	0.00	1 00
R1RXLUNG_M	14735	0.03	0.17	0.00	1.00
R2RXLUNG M	13666	0.03	0.16	0.00	1.00
R3RXLUNG_M	15694	0.04	0.19	0.00	1.00
R4RXLUNG M	14767	0.04	0.19	0.00	1.00
		0.04	0.19	0.00	
R5RXLUNG_M	17101	0.04	0.19	0.00	1.00
S1RXLUNG M	10325	0.03	0.16	0.00	1.00
S2RXLUNG_M	9538	0.02	0.16	0.00	1.00
S3RXLUNG M	10579	0.03	0.18	0.00	1.00
S4RXLUNG_M	9646	0.03	0.18	0.00	1.00
S5RXLUNG_M	7633	0.04	0.19	0.00	1.00
_					
R1RXHRTAT	14727	0.02	0.15	0.00	1.00
R2RXHRTAT	13683	0.02	0.13	0.00	1.00
R3RXHRTAT	15698	0.03	0.16	0.00	1.00
R4RXHRTAT	14765	0.03	0.16	0.00	1.00
R5RXHRTAT	17101	0.03	0.16	0.00	1.00
NJIMIMIAI	1/101	0.03	0.10	0.00	1.00
S1RXHRTAT	10322	0.02	0.15	0.00	1.00
S2RXHRTAT	9550	0.02	0.13	0.00	1.00
S3RXHRTAT	10578	0.03	0.16	0.00	1.00
S4RXHRTAT	9645	0.03	0.16	0.00	1.00
S5RXHRTAT	7635	0.03	0.18	0.00	1.00
R1RXSTROK	14728	0.01	0.11	0.00	1.00
R2RXSTROK	13695	0.01	0.09	0.00	1.00
R3RXSTROK	15706	0.01	0.11	0.00	1.00
	14761			0.00	
R4RXSTROK		0.01	0.11		1.00
R5RXSTROK	17104	0.01	0.12	0.00	1.00
C1DVCEDOV	10222	0 01	0 11	0.00	1 00
S1RXSTROK	10322	0.01	0.11	0.00	1.00
S2RXSTROK	9558	0.01	0.09	0.00	1.00
S3RXSTROK	10584	0.01	0.11	0.00	1.00
S4RXSTROK	9643	0.01	0.10	0.00	1.00
S5RXSTROK	7634	0.01	0.12	0.00	1.00
831018111010	7031	0.01	0.12	0.00	1.00
R1RXARTHR	14712	0.11	0.32	0.00	1.00
R2RXARTHR	13681	0.11	0.32	0.00	1.00
R3RXARTHR	15690	0.08	0.28	0.00	1.00
R4RXARTHR	14755	0.09	0.29	0.00	1.00
R5RXARTHR	17087	0.07	0.26	0.00	1.00
S1RXARTHR	10308	0.10	0.30	0.00	1.00
S2RXARTHR	9550	0.10	0.30	0.00	1.00
S3RXARTHR	10571	0.07	0.26	0.00	1.00
S4RXARTHR	9637	0.08	0.27	0.00	1.00
S5RXARTHR	7628	0.07	0.26	0.00	1.00

Categorical Variable Codes

Value .d:DK	R1RXHIBP 57	R2RXHIBP 53	R3RXHIBP 37	R4RXHIBP 22	R5RXHIBP 18
.m:Missing	4	33	3,		
.r:Refuse	52		4	3	6
.s:Skip	395	0701	0015	8765	10577
0.no 1.yes	10751 3927	9791 3860	9915 5767	8765 5989	6513
1.yes	3921	3000	3707	3909	0313
Value	S1RXHIBP	S2RXHIBP	S3RXHIBP	S4RXHIBP	S5RXHIBP
.d:DK	39	36	21	11	8
.m:Missing .r:Refuse	3 39		2	1	2
.s:Skip	283		2	1	۷
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	7739	6967	6920	5967	4472
1.yes	2545	2561	3649	3673	3156
Value	R1RXDIABO	R2RXDIABO	R3RXDIABO	R4RXDIABO	R5RXDIABO
.d:DK	39	53	30	17	27
.m:Missing	4				
.r:Refuse	35	2	5	4	4
.s:Skip 0.no	395 12794	11729	12495	11474	13312
1.yes	1919	1920	3193	3284	3771
_					· · · -
Value	S1RXDIABO	S2RXDIABO	S3RXDIABO	S4RXDIABO	S5RXDIABO
.d:DK	28	39	13	8	13
.m:Missing .r:Refuse	3 25	1	2	2	1
.s:Skip	283	Τ	۷	۷	Τ
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	8960	8176	8435	7491	5774
1.yes	1349	1348	2142	2151	1850
Value	R1RXDIABI	R2RXDIABI	R3RXDIABI	R4RXDIABI	R5RXDIABI
.d:DK	41	55	30	17	28
.m:Missing	4				
.r:Refuse	37	3	6	4	6
.s:Skip 0.no	395 14475	13362	15102	13993	16023
1.yes	234	284	585	765	1057
_	201	201	000	, 00	100,
Value	S1RXDIABI	S2RXDIABI	S3RXDIABI	S4RXDIABI	S5RXDIABI
.d:DK	29 3	41	14	8	13
.m:Missing .r:Refuse	27	2	2	2	1
.s:Skip	283	2	۷	2	±.
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	10152	9330	10195	9144	7092
1.yes	154	191	381	498	532
Value	R1RXDIAB	R2RXDIAB	R3RXDIAB	R4RXDIAB	R5RXDIAB
.d:DK	39	53	30	17	27
.m:Missing	4	•	_		_
.r:Refuse .s:Skip	35 395	2	5	4	5
0.no	12768	11694	12445	11391	13212
1.yes	1945	1955	3243	3367	3870
_					
Value	S1RXDIAB	S2RXDIAB	S3RXDIAB	S4RXDIAB	S5RXDIAB
.d:DK .m:Missing	28 3	39	13	8	13
.r:Refuse	25	1	2	2	1
.s:Skip	283		-	_	_
.u:Unmar	4205	4009	4782	4847	5227

.v:SP NR 0.no 1.yes	333 8944 1365	131 8153 1371	349 8405 2172	280 7436 2206	501 5726 1898
Value .d:DK	R1CNCRCHEM 28	R2CNCRCHEM 35	R3CNCRCHEM 22	R4CNCRCHEM	R5CNCRCHEM
.m:Missing .r:Refuse	4 35		5	2	4
.s:Skip 0.no 1.yes	395 14657 67	13627 42	15598 98	14656 107	16991 107
Value .d:DK	S1CNCRCHEM 23	S2CNCRCHEM 27	S3CNCRCHEM	S4CNCRCHEM 9	S5CNCRCHEM
.m:Missing .r:Refuse	3 25	21	3	9	1
.s:Skip .u:Unmar	283 4205	4009	4782	4847	5227
.v:SP NR 0.no 1.yes	333 10267 47	131 9507 30	349 10521 58	280 9568 75	501 7580 54
Value .d:DK	R1CNCRSURG 28	R2CNCRSURG 35	R3CNCRSURG 22	R4CNCRSURG	R5CNCRSURG
.m:Missing .r:Refuse	4 35		5	2	4
.s:Skip 0.no 1.yes	395 14613 111	13637 32	15613 83	14691 72	16990 108
Value .d:DK	S1CNCRSURG 23	S2CNCRSURG 27	S3CNCRSURG	S4CNCRSURG 9	S5CNCRSURG
.m:Missing	3 25 283		3		1
.s:Skip .u:Unmar .v:SP NR	4205 333	4009 131	4782 349	4847 280	5227 501
0.no 1.yes	10231 83	9513 24	10526 53	9592 51	7578 56
Value .d:DK	R1CNCRRADN 28	R2CNCRRADN 35	R3CNCRRADN 22	R4CNCRRADN 14	R5CNCRRADN 12
<pre>.m:Missing</pre>	4 35 395		5	2	4
0.no 1.yes	14663 61	13635 34	15652 44	14709 54	17034 64
Value .d:DK	S1CNCRRADN 23	S2CNCRRADN 27	S3CNCRRADN 10	S4CNCRRADN 9	S5CNCRRADN 3
.m:Missing	3 25		3		1
.s:Skip .u:Unmar .v:SP NR	283 4205 333	4009 131	4782 349	4847 280	5227 501
0.no 1.yes	10271 43	9514 23	10552 27	9603 40	7601 33
Value .d:DK	R1CNCRMEDS 28	R2CNCRMEDS 35	R3CNCRMEDS 22	R4CNCRMEDS	R5CNCRMEDS
.m:Missing .r:Refuse	4 35 395		5	2	4
.s:Skip 0.no 1.yes	14646 78	13630 39	15624 72	14653 110	16943 155
Value .d:DK	S1CNCRMEDS 23	S2CNCRMEDS 27	S3CNCRMEDS	S4CNCRMEDS	S5CNCRMEDS
.m:Missing r:Refuse	3 25		3		1
.s:Skip .u:Unmar .v:SP NR	283 4205 333	4009 131	4782 349	4847 280	5227 501

0.no	10257	9513	10530	9573	7553
1.yes	57	24	49	70	81
Value	R1CNCROTHR	R2CNCROTHR	R3CNCROTHR	R4CNCROTHR	R5CNCROTHR
.d:DK	Z8	35	22	14	12
.m:Missing	4	33	22	± 1	12
r:Refuse	35		5	2	4
.s:Skip	395		•	_	_
0.no	14703	13663	15677	14741	17098
1.yes	21	6	19	22	
-					
Value	S1CNCROTHR	S2CNCROTHR	S3CNCROTHR	S4CNCROTHR	S5CNCROTHR
.d:DK	23	27	10	9	3
.m:Missing	3				
.r:Refuse	25		3		1
.s:Skip	283	4000	4700	4047	E007
.u:Unmar v:SP NR	4205 333	4009 131	4782 349	4847 280	5227 501
0.no	10299	9533	10569	9628	7634
1.yes	15	4	10	15	7034
1.100	10	-			
Value	R1RXLUNG M	R2RXLUNG M	R3RXLUNG M	R4RXLUNG M	R5RXLUNG M
.d:DK	<u>1</u> 6	3 ₅	$\overline{2}$ 5	_8	_7
.m:Missing	4				
.r:Refuse	36	3	4	4	6
.s:Skip	395				
0.no	14310	13285	15130	14234	16466
1.yes	425	381	564	533	635
Value	S1RXLUNG M	S2RXLUNG M	S3RXLUNG M	S4RXLUNG M	S5RXLUNG M
.d:DK	10	25	11	3	3
.m:Missing	3	25	± ±	J	J
r:Refuse	27	1	2	3	2
.s:Skip	283				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	10048	9302	10232	9327	7331
1.yes	277	236	347	319	302
77-1	D1DVIID###	D (DVIIDMA M	D 3 D WIID M Y M	D 4 D WIID M 3 M	DEDVIIDMAM
Value .d:DK	R1RXHRTAT 24	R2RXHRTAT 18	R3RXHRTAT 18	R4RXHRTAT 11	R5RXHRTAT 7
.m:Missing	4	10	10	1	/
.r:Refuse	36	3	7	2	6
.s:Skip	395	9	,	_	0
0.no	14391	13437	15285	14382	16641
1.yes	336	246	413	383	460
Value	SIRXHRTAT	S2RXHRTAT	S3RXHRTAT	S4RXHRTAT	S5RXHRTAT
.d:DK	15	11	8	5	3
.m:Missing	3	2		2	
<pre>.r:Refuse .s:Skip </pre>	25 283	3	6	2	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	10078	9378	10298	9384	7389
1.yes	244	172	280	261	246
Value	R1RXSTROK	R2RXSTROK	R3RXSTROK	R4RXSTROK	R5RXSTROK
.d:DK	20	8	13	13	5
.m:Missing	4	_		1	_
.r:Refuse	39	1	4	4	5
.s:Skip	395	10555	15506	1 4 5 0 4	1.00.05
0.no	14534 194	13577 118	15506 200	14594 167	16865 239
1.yes	194	118	200	107	239
Value	S1RXSTROK	S2RXSTROK	S3RXSTROK	S4RXSTROK	S5RXSTROK
.d:DK	13	5	5	7	2
.m:Missing	3	J.	9	,	_
.r:Refuse	27	1	3	2	2
.s:Skip	283				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	10189	9485	10452	9541	7526

1.yes	133	73	132	102	108
Value	R1RXARTHR	R2RXARTHR	R3RXARTHR	R4RXARTHR	R5RXARTHR
.d:DK	37	23	28	17	20
.m:Missing	4			1	
.r:Refuse	38		5	6	7
.s:Skip	395				
0.no	13047	12122	14362	13410	15834
1.yes	1665	1559	1328	1345	1253
Value	S1RXARTHR	S2RXARTHR	S3RXARTHR	S4RXARTHR	S5RXARTHR
.d:DK	28	14	17	11	6
.m:Missing	3				
.r:Refuse	26		4	4	4
.s:Skip	283				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
• • • • • • • • • • • • • • • • • • • •					
0.no	9315	8592	9802	8890	7074

How Constructed

RWRXDIABO, RWRXDIABI, RWRXDIABI, RWCNCRCHEM, RWCNCRSURG, RWCNCRRADN, RWCNCRMEDS, RWCNCROTHR, RWRXLUNG_M, RWRXHRTAT, RWRXSTROK, and RWRXARTHR indicate whether the respondent takes medication or receives treatment for a condition. These variables are coded as 1.Yes if the respondent takes medication for the condition, and 0.No if the respondent doesn't take said medication or if the respondent did not report having the condition. When respondents "don't know" or refuse to answer, RWRXHIBP, RWRXDIABO, RWRXDIABI, RWRXDIAB, RWCNCRCHEM, RWCNCRSURG, RWCNCRRADN, RWCNCRMEDS, RWCNCROTHR, RWRXLUNG_M, RWRXHRTAT, RWRXSTROK, and RWRXARTHR are assigned special missing values .d or .r, respectively. Other missing responses are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not respond to the current wave.

RWRXHIBP indicates whether the respondent takes medication for hypertension or high blood pressure, and is coded as 0.No if the respondent did not report taking medication for or does not have high blood pressure or hypertension. The respondent is asked about taking medication to lower blood pressure after reporting a hypertension or high blood pressure diagnosis.

RWRXDIABO indicates whether the respondent takes oral medication for diabetes, RwRXDIABI indicates whether the respondent uses insulin shots for diabetes, and RwRXDIAB indicates whether the respondent uses any medication (oral medication or insulin shots) for diabetes. They are coded as 0.No if the respondent did not report taking medication for or does not have diabetes. The respondent is asked about taking medication for diabetes after reporting a diabetes diagnosis.

If the respondent has been diagnosed with cancer, the respondent is presented with a list of cancer treatments and asked which treatment(s) they have received. RwCNCRCHEM indicates whether the respondent receives chemotherapy or medication for the treatment of cancer. RwCNCRSURG indicates whether the respondent had surgery or biopsy for the treatment of cancer. RwCNCRRADN indicates whether the respondent had radiation or x-ray for the treatment of cancer. RwCNCRMEDS indicates whether the respondent receives medications or treatment for symptoms (pain, nausea, rashes) for the treatment of cancer. RwCNCROTHR indicates whether the respondent had another unspecified type of treatment for cancer. If the respondent has been diagnosed with cancer but has not been treated for cancer, RwCNCRCHEM, RwCNCRSURG, RwCNCRRADN, RwCNCRMEDS, and RwCNCROTHR are set to 0. RwCNCRCHEM, RwCNCRSURG, RwCNCRRADN, RwCNCRMEDS, and RwCNCROTHR are set to 0. RwCNCRCHEM, RwCNCRSURG, RwCNCRRADN, RwCNCRMEDS, and RwCNCROTHR are coded as 0.No if the respondent has never been diagnosed with cancer.

RWRXLUNG_M indicates whether the respondent takes medication for a respiratory illness, such as asthma or emphysema, and is coded as 0.No if the respondent did not report taking medication for or does not have chronic respiratory illness. The respondent is asked about taking medication for lung disease after reporting a respiratory illness, such as asthma or emphysema.

RWRXHRTAT indicates whether the respondent takes medication for a heart attack, and is coded as 0.No if the respondent did not report taking medication for or has not had a heart attack. The respondent is asked about taking medication for a heart attack after reporting having had a heart attack.

RWRXSTROK indicates whether the respondent takes medication for stroke, and is coded as 0.No if the respondent did not report taking medication for or has not had a stroke. The respondent is asked about taking medication for stroke after reporting a stroke.

RWRXARTHR indicates whether the respondent takes medication for arthritis, and is coded as 0.No if the respondent did not report taking medication for or does not have arthritis or rheumatism. The respondent is asked about taking medication after reporting a diagnosis of arthritis or rheumatism.

SWRXHIBP, SWRXDIABO, SWRXDIABI, SWRXDIAB, SWCNCRCHEM, SWCNCRSURG, SWCNCRRADN, SWCNCRMEDS, SWCNCROTHR, SWRXLUNG_M, SWRXHRTAT, SWRXSTROK, and SWRXARTHR indicate whether the respondent's current wave's spouse takes medication or receives treatment for the specified condition, and are taken from corresponding respondent variables. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

MHAS Variables Used

Wave 1:	
C12	cancer or tumor
C16A	chemotherapy
C16B	surgery or biopsy
C16C	radiation
C16D	medication for cancer
C16E	other treatment for cancer
C19	respiratory illness
C20	medication for respiratory illness
C22	heart attack
C24	medication for heart attack
C27	stroke
C30	medication for stroke
C34	arthritis or rheumatism
C37	medication for arthritis
C4	hypertension
C5	medication for blood pressure
C6	diabetes
C7	medication for diabetes
C8	insulin use
Wave 2:	
C12	doctor ever say you have cancer
C16_1	cancer treatments received since 2001
C16_2	cancer treatments received since 2001
C16_3	cancer treatments received since 2001
C16_4	cancer treatments received since 2001
C16_5	cancer treatments received since 2001
C19	doctor ever say you have a respiratory disease
C20	taking medicine to control respiratory disease
C22A	doctor ever say you had a heart attack
C23 C26	taking medicine to control heart disease
C28	doctor ever say you had a stroke
	taking medicine due to stroke
C32 C34	doctor ever say you have arthritis
C4	taking medication/treatments
C5	doctor ever say you have hypertension take medicine to lower blood pressure
C6	doctor ever say you have diabetes
C6 C7	taking oral medicine to control diabetes
C 7	taking oral medicine to control diabetes taking injections or using an insulin pump
Co	carring injections of using an insulin pump

Wave 3:	
C12_12	Has a physician diagnosed respondentcancer
C16_1_12	Last 2 years: Type of cancer treatment respondent receiv
C16_2_12	Last 2 years: Type of cancer treatment respondent receiv
C16 3 12	Last 2 years: Type of cancer treatment respondent receiv
C16 4 12	Last 2 years: Type of cancer treatment respondent receiv
C16 5 12	Last 2 years: Type of cancer treatment respondent receiv
C16 ⁻⁷ 12	Last 2 years: Type of cancer treatment respondent receiv
C19 12	Has a physician diagnosed respondentrespiratory illnes
C20A 12	Does respondent take medication/treatment for respirato
C22A 12	Has a physician ever told respondent…heart attack
$C23 \ \overline{1}2$	Respondent takes medication for heart condition
C26 ⁻ 12	Ever/last 2 years: Has a physician told respondentstro
C28 12	Respondent takes medication for stroke
C32 ⁻ 12	Has a physician diagnosed respondent with arthritis/rhe
C34 12	Respondent takes medication for arthritis/rheumatism
$C4 \overline{1}2$	Has a physician diagnosedhypertension/high blood press
C5 12	Does respondent take medication to lower his/her blood
C6 12	Has a physician diagnosed respondentdiabetes
C7 12	Does respondent take medication to control his/her diab
C8 12	Does the respondent use insulin
Wave 4:	
C12 15	Has a doctor or medical personnel ever diagnosed respon
C16 1 15	Last 2 years, type of cancer treatment received: Chemot
C16 2 15	Last 2 years, type of cancer treatment received: Surger
C16 3 15	Last 2 years, type of cancer treatment received: Radiat
C16 4 15	Last 2 years, type of cancer treatment received: Medica
C16 5 15	Last 2 years, type of cancer treatment received: None
C16 7 15	Last 2 years, type of cancer treatment received: Other
C19 15	Has a doctor or medical personnel ever diagnosed respon
C20A 15	Does respondent take medication/treatment for his/her r
C22A 15	Has a doctor or medical personnel ever told respondent
C23 15	Does respondent take medication for his/her heart condi
C26 15	Has a doctor or medical personnel ever told respondent
C28 15	Does respondent take medication for stroke
C32 ⁻ 15	Has a doctor or medical personnel ever diagnosed respon
C34 ⁻ 15	Does respondent take medication for arthritis/rheumatis
C4 $\overline{1}5$	Has a doctor or medical personnel ever diagnosed respon
C5 ⁻ 15	Does respondent take medication to lower his/her blood
C6 ⁻ 15	Has a doctor or medical personnel ever diagnosed respon
c7 ⁻ 15	Does respondent take medication to control his/her diab
C8 15	Does respondent use insulin shots
Wave 5:	•
C19 18	Has a doctor or medical personnel ever diagnosed R with
C20A 18	Does R take medication/treatment for his/her respirator
C22A 18	Has a doctor or medical personnel ever told R he/she ha
C23 18	Does R take medication for his/her heart condition
C26 18	Has a doctor or medical personnel ever told R he/she ha
C28 18	Does R take medication for stroke
C32 ¹ 8	Has a doctor or medical personnel ever diagnosed R with
C34 ¹ 8	Does R take medication for arthritis/rheumatism
C4 $\frac{1}{1}$ 8	Has R ever been diagnosed with hypertension/high blood
C5 18	Does R take medication to lower his/her blood pressure
C6 18	Has a doctor or medical personnel ever diagnosed R with
C7 18	Does R take medication to control his/her diabetes
C8_18	Does R use insulin shots
_	

Doctor Diagnosed Diseases: Whether Disease Limits Activity

Wave	Variable	Label	Type
1	R1LUNGLMT M	rllunglmt m: w1 Whether lung problems limits R's daily activ	Categ
2	R2LUNGLMT_M	r2lunglmt_m: w2 Whether lung problems limits R's daily activ	Categ
3	R3LUNGLMT_M	r3lunglmt_m: w3 Whether lung problems limits R's daily activ	Categ
4	R4LUNGLMT M	r4lunglmt m: w4 Whether lung problems limits R's daily activ	Categ
5	R5LUNGLMT_M	r5lunglmt_m: w5 Whether lung problems limits R's daily activ	Categ
1	S1LUNGLMT M	sllunglmt m: w1 Whether lung problems limits S's daily activ	Categ
2	S2LUNGLMT M	s2lunglmt m: w2 Whether lung problems limits S's daily activ	Categ
3	S3LUNGLMT_M	s3lunglmt_m: w3 Whether lung problems limits S's daily activ	Categ
4	S4LUNGLMT_M	s4lunglmt_m: w4 Whether lung problems limits S's daily activ	Categ
5	S5LUNGLMT_M	s5lunglmt_m: w5 Whether lung problems limits S's daily activ	Categ
1	R1HRTATLMT	r1hrtatlmt: w1 Whether heart attack limits R's daily activit	Categ
2	R2HRTATLMT	r2hrtatlmt: w2 Whether heart attack limits R's daily activit	Categ
3	R3HRTATLMT	r3hrtatlmt: w3 Whether heart attack limits R's daily activit	Categ
4	R4HRTATLMT	r4hrtatlmt: w4 Whether heart attack limits R's daily activit	Categ
5	R5HRTATLMT	r5hrtatlmt: w5 Whether heart attack limits R's daily activit	Categ
1	S1HRTATLMT	s1hrtatlmt: w1 Whether heart attack limits S's daily activit	Categ
2	S2HRTATLMT	s2hrtatlmt: w2 Whether heart attack limits S's daily activit	Categ
3	S3HRTATLMT	s3hrtatlmt: w3 Whether heart attack limits S's daily activit	Categ
4	S4HRTATLMT	s4hrtatlmt: w4 Whether heart attack limits S's daily activit	Categ
5	S5HRTATLMT	s5hrtatlmt: w5 Whether heart attack limits S's daily activit	Categ
1	R1STROKLMT	rlstroklmt: wl Whether stroke limits R's daily activities	Categ
2	R2STROKLMT	r2stroklmt: w2 Whether stroke limits R's daily activities	Categ
3	R3STROKLMT	r3stroklmt: w3 Whether stroke limits R's daily activities	Categ
4	R4STROKLMT	r4stroklmt: w4 Whether stroke limits R's daily activities	Categ
5	R5STROKLMT	r5stroklmt: w5 Whether stroke limits R's daily activities	Categ
1	S1STROKLMT	s1stroklmt: w1 Whether stroke limits S's daily activities	Categ
2	S2STROKLMT	s2stroklmt: w2 Whether stroke limits S's daily activities	Categ
3	S3STROKLMT	s3stroklmt: w3 Whether stroke limits S's daily activities	Categ
4	S4STROKLMT	s4stroklmt: w4 Whether stroke limits S's daily activities	Categ
5	S5STROKLMT	s5stroklmt: w5 Whether stroke limits S's daily activities	Categ
1	R1ARTHLMT	rlarthlmt: w1 Whether arthritis limits R's daily activities	Categ
2	R2ARTHLMT	r2arthlmt: w2 Whether arthritis limits R's daily activities	Categ
3	R3ARTHLMT	r3arthlmt: w3 Whether arthritis limits R's daily activities	Categ
	R4ARTHLMT	r4arthlmt: w4 Whether arthritis limits R's daily activities	Categ
5	R5ARTHLMT	r5arthlmt: w5 Whether arthritis limits R's daily activities	Categ
1	S1ARTHLMT	slarthlmt: w1 Whether arthritis limits S's daily activities	Categ
	S2ARTHLMT	s2arthlmt: w2 Whether arthritis limits S's daily activities	Categ
3	S3ARTHLMT	s3arthlmt: w3 Whether arthritis limits S's daily activities	Categ
4	S4ARTHLMT	s4arthlmt: w4 Whether arthritis limits S's daily activities	Categ
5	S5ARTHLMT	s5arthlmt: w5 Whether arthritis limits S's daily activities	Categ
		4 111 111	

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LUNGLMT M	830	0.44	0.50	0.00	1.00
R2LUNGLMT M	551	0.59	0.49	0.00	1.00
R3LUNGLMT M	842	0.41	0.49	0.00	1.00
R4LUNGLMT M	847	0.37	0.48	0.00	1.00
R5LUNGLMT M	889	0.38	0.48	0.00	1.00

S1LUNGLMT M	558	0.44	0.50	0.00	1.00	
S2LUNGLMT M	351	0.58	0.49	0.00	1.00	
S3LUNGLMT M	545	0.41	0.49	0.00	1.00	
S4LUNGLMT M	532	0.37	0.48	0.00	1.00	
S5LUNGLMT_M	414	0.41	0.49	0.00	1.00	
SOLONGLIMI_M	414	0.41	0.49	0.00	1.00	
R1HRTATLMT	439	0.55	0.50	0.00	1.00	
R2HRTATLMT	274	0.57	0.50	0.00	1.00	
R3HRTATLMT	503	0.44	0.50	0.00	1.00	
R4HRTATLMT	519	0.41	0.49	0.00	1.00	
R5HRTATLMT	603	0.40	0.49	0.00	1.00	
			****	****		
S1HRTATLMT	314	0.60	0.49	0.00	1.00	
S2HRTATLMT	195	0.58	0.49	0.00	1.00	
S3HRTATLMT	351	0.44	0.50	0.00	1.00	
S4HRTATLMT	361	0.42	0.49	0.00	1.00	
S5HRTATLMT	308	0.42	0.49	0.00	1.00	
R1STROKLMT	324	0.52	0.50	0.00	1.00	
R2STROKLMT	125	0.66	0.47	0.00	1.00	
R3STROKLMT	283	0.53	0.50	0.00	1.00	
R4STROKLMT	270	0.46	0.50	0.00	1.00	
R5STROKLMT	317	0.51	0.50	0.00	1.00	
S1STROKLMT	211	0.54	0.50	0.00	1.00	
S2STROKLMT	80	0.69	0.47	0.00	1.00	
S3STROKLMT	192	0.55	0.50	0.00	1.00	
S4STROKLMT	168	0.48	0.50	0.00	1.00	
S5STROKLMT	149	0.50	0.50	0.00	1.00	
R1ARTHLMT	2685	0.50	0.50	0.00	1.00	
R2ARTHLMT	2237	0.53	0.50	0.00	1.00	
R3ARTHLMT	1945	0.52	0.50	0.00	1.00	
R4ARTHLMT	2067	0.51	0.50	0.00	1.00	
R5ARTHLMT	1875	0.53	0.50	0.00	1.00	
S1ARTHLMT	1676	0.48	0.50	0.00	1.00	
S2ARTHLMT	1412	0.52	0.50	0.00	1.00	
S3ARTHLMT	1189	0.52	0.50	0.00	1.00	
S4ARTHLMT	1233	0.51	0.50	0.00	1.00	
S5ARTHLMT	863	0.50	0.50	0.00	1.00	

Categorical Variable Codes

Value	R1LUNGLMT M	R2LUNGLMT M	R3LUNGLMT M	R4LUNGLMT M	R5LUNGLMT M
.d:DK	1 7	32	23	_2	7
.m:Missing	4				
.p:Proxy interview, not asked	119	69	80	86	116
.r:Refuse	34	2	4	4	6
.s:Skip	354				
.x:does not have condition	13828	13050	14774	13840	16096
0.no	464	227	496	531	554
1.yes	366	324	346	316	335
Value	S1LUNGLMT M	S2LUNGLMT M	S3LUNGLMT M	S4LUNGLMT M	S5LUNGLMT M
.d:DK	$\overline{1}$ 0	22	$\overline{1}1$	_2	_3
.m:Missing	3				
.p:Proxy interview, not asked	72	46	36	35	35
.r:Refuse	24	1	3	3	2
.s:Skip	254				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:does not have condition	9727	9144	9997	9080	7184
0.no	310	148	319	335	246
1.yes	248	203	226	197	168

Value .d:DK	R1HRTATLMT 16	R2HRTATLMT	R3HRTATLMT	R4HRTATLMT	R5HRTATLMT 5
.m:Missing	4			1	
.p:Proxy interview, not asked	105	36	71	65	74
.r:Refuse	29 354	2	7	2	4
<pre>.s:Skip .x:does not have condition</pre>	14239	13378	15128	14188	16428
0.no	196	117	282	306	364
1.yes	243	157	221	213	239
Value	S1HRTATLMT	S2HRTATLMT	S3HRTATLMT	S4HRTATLMT	S5HRTATLMT
.d:DK	13	9	7	3	1
.m:Missing	3	0.5			0.0
.p:Proxy interview, not asked	61	25	40	29	30
.r:Refuse .s:Skip	21 254	2	6	2	1
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:does not have condition	9982	9333	10188	9257	7298
0.no	126	82	196	209	179
1.yes	188	113	155	152	129
Value	D 1 OFF OUT ME	DOGEDOUT ME	D 2 CERD OTAT ME	D 4 CERDOLLI ME	D E CIIID OTAT MIII
Value .d:DK	R1STROKLMT 18	R2STROKLMT 6	R3STROKLMT 12	R4STROKLMT 8	R5STROKLMT 5
.m:Missing	4	0	12	1	5
.p:Proxy interview, not asked	111	49	87	88	120
r:Refuse	36	1	4	4	4
.s:Skip	354				
.x:does not have condition	14339	13523	15337	14408	16668
0.no	156	42	132	146	155
1.yes	168	83	151	124	162
Value	S1STROKLMT	S2STROKLMT	S3STROKLMT	S4STROKLMT	S5STROKLMT
.d:DK	13	4	5	5	2
.m:Missing	3				
.p:Proxy interview, not asked	63	31	36	35	42
.r:Refuse	25	1	3	2	1
.s:Skip	254	4000	4700	4047	F007
.u:Unmar .v:SP NR	4205 333	4009 131	4782 349	4847 280	5227 501
.x:does not have condition	10079	9448	10356	9442	7444
0.no	97	25	87	87	75
1.yes	114	55	105	81	74
-					
Value	R1ARTHLMT	R2ARTHLMT	R3ARTHLMT	R4ARTHLMT	R5ARTHLMT
.d:DK	34	21	26	12	13
.m:Missing	4	106	100	1	1.60
<pre>.p:Proxy interview, not asked .r:Refuse</pre>	225 38	186	183 4	168 6	163 5
.s:Skip	354		4	О	J
.x:does not have condition	11846	11260	13565	12525	15058
0.no	1355	1056	931	1006	890
1.yes	1330	1181	1014	1061	985
Value	SIARTHLMT	S2ARTHLMT	S3ARTHLMT	S4ARTHLMT	S5ARTHLMT
.d:DK	26 3	13	16	10	5
<pre>.m:Missing</pre>	117	107	72	59	65
.r:Refuse	27	107	4	4	2
.s:Skip	254		•	-	_
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:does not have condition	8545	8032	9311	8346	6703
0.no	867	677	572	610	428
1.yes	809	735	617	623	435

How Constructed

RwLUNGLMT_M, RwHRTATLMT, RwSTROKLMT, and RwARTHLMT indicate whether a specified health condition limits the daily activity (such as household chores or job) of the respondent. RwLUNGLMT_M indicates whether a respiratory illness, such as asthma or emphysema, limits the daily activities of the respondent.

RWHRTATLMT indicates whether a heart attack limits the daily activities of the respondent. RwSTROKLMT indicates whether a stroke limits the daily activities of the respondent. RwARHTLMT indicates whether arthritis limits the daily activities of the respondent.

RWLUNGLMT_M, RWHRTATLMT, RWSTROKLMT, and RWARTHLMT are coded as 0 "No" and 1 "Yes". Respondents who have never been diagnosed with the specified condition are not asked these questions and these variables are assigned a special missing code .x. RwLUNGLMT_M, RwHRTATLMT, RwSTROKLMT, and RwARTHLMT are assigned special missing .d, .r, .p, .m, for don't know, refused, proxy, or otherwise missing responses, respectively. These variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwLUNGLMT_M, SwHRTATLMT, SwSTROKLMT, and SwARTHLMT indicate whether the respondent's spouse reported that a specified health condition limits their daily activity and are taken directly from the spouse's RwLUNGLMT_M, RwHRTATLMT, RwSTROKLMT, and RwARTHLMT, respectively. In addition to the special missing codes used in RwLUNGLMT_M, RwHRTATLMT, RwSTROKLMT, and RwARTHLMT; SwLUNGLMT_M, SwHRTATLMT, SwSTROKLMT, and SwARTHLMT employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The HRS asks whether lung disease, angina, and arthritis limit the respondent's usual activities, such as household chores or work. The MHAS asks whether lung disease, heart attack, stroke, and arthritis limit the respondent's daily activities, such as household chores or their job.

MHAS Variables Used

Wave 1:	
C19	respiratory illness
C21	respiratory treatment limits activities
C22	heart attack
C26	heart problems limits activities
C27	stroke
C33	stroke limits activities
C34	arthritis or rheumatism
C38	arthritis limits activities
Wave 2:	
C19	doctor ever say you have a respiratory disease
C21	condition limits normal activities
C22A	doctor ever say you had a heart attack
C25	heart condition limits normal activities
C26	doctor ever say you had a stroke
C31	condition limits your normal activities
C32	doctor ever say you have arthritis
C35	condition limits your normal activities
Wave 3:	
C19_12	Has a physician diagnosed respondentrespiratory illnes
C21_12	Respondent's health condition limits daily activities
C22A_12	Has a physician ever told respondent…heart attack
C25A_12	Respondent's heart condition limits daily activities
C26_12	Ever/last 2 years: Has a physician told respondentstro
C31_12	Stroke limits respondent's daily activities
C32_12	Has a physician diagnosed respondent with arthritis/rhe
C35_12	Arthritis limits respondent's daily activities
Wave 4:	
C19_15	Has a doctor or medical personnel ever diagnosed respon
C21_15	Does respondent's health condition limits his/her daily
C22A_15	Has a doctor or medical personnel ever told respondent
C25A_15	Does respondent's heart condition limits daily activiti

C26_15 C31_15 C32_15 C35_15	Has a doctor or medical personnel ever told respondent Stroke limits respondent's daily activities Has a doctor or medical personnel ever diagnosed respon Does arthritis limit respondent's daily activities
Wave 5:	
C19_18	Has a doctor or medical personnel ever diagnosed R with
C21_18	Does R's health condition limits his/her daily activiti
C22A_18	Has a doctor or medical personnel ever told R he/she ha
C25A_18	Does R's heart condition limits daily activities
$C26_{\overline{1}8}$	Has a doctor or medical personnel ever told R he/she ha
C31_18	Stroke limits R's daily activities
C32 18	Has a doctor or medical personnel ever diagnosed R with
C35_18	Does arthritis limit R's daily activities

Doctor Diagnosed Diseases: Age of Diagnosis

Wave	Variable	Label	Туре
1	R1RECCANCR	rlreccancr: w1 R Age most recent cancer diagnosis	Cont
2	R2RECCANCR	r2reccancr: w2 R Age most recent cancer diagnosis	Cont
3	R3RECCANCR	r3reccancr: w3 R Age most recent cancer diagnosis	Cont
4	R4RECCANCR	r4reccancr: w4 R Age most recent cancer diagnosis	Cont
5	R5RECCANCR	r5reccancr: w5 R Age most recent cancer diagnosis	Cont
1	S1RECCANCR	slreccancr: w1 S Age most recent cancer diagnosis	Cont
2	S2RECCANCR	s2reccancr: w2 S Age most recent cancer diagnosis	Cont
3	S3RECCANCR	s3reccancr: w3 S Age most recent cancer diagnosis	Cont
4	S4RECCANCR	s4reccancr: w4 S Age most recent cancer diagnosis	Cont
5	S5RECCANCR	s5reccancr: w5 S Age most recent cancer diagnosis	Cont
1	R1RECHRTATT	rlrechrtatt: w1 R Age most recent heart attack	Cont
2	R2RECHRTATT	r2rechrtatt: w2 R Age most recent heart attack	Cont
3	R3RECHRTATT	r3rechrtatt: w3 R Age most recent heart attack	Cont
4	R4RECHRTATT	r4rechrtatt: w4 R Age most recent heart attack	Cont
5	R5RECHRTATT	r5rechrtatt: w5 R Age most recent heart attack	Cont
1	S1RECHRTATT	slrechrtatt: w1 S Age most recent heart attack	Cont
2	S2RECHRTATT	s2rechrtatt: w2 S Age most recent heart attack	Cont
3	S3RECHRTATT	s3rechrtatt: w3 S Age most recent heart attack	Cont
4	S4RECHRTATT	s4rechrtatt: w4 S Age most recent heart attack	Cont
5	S5RECHRTATT	s5rechrtatt: w5 S Age most recent heart attack	Cont
	R1RECSTROK	r1recstrok: w1 R Age most recent stroke	Cont
2	R2RECSTROK	r2recstrok: w2 R Age most recent stroke	Cont
	R3RECSTROK	r3recstrok: w3 R Age most recent stroke	Cont
	R4RECSTROK	r4recstrok: w4 R Age most recent stroke	Cont
5	R5RECSTROK	r5recstrok: w5 R Age most recent stroke	Cont
1	S1RECSTROK	s1recstrok: w1 S Age most recent stroke	Cont
	S2RECSTROK	s2recstrok: w2 S Age most recent stroke	Cont
3	S3RECSTROK	s3recstrok: w3 S Age most recent stroke	Cont
4	S4RECSTROK	s4recstrok: w4 S Age most recent stroke	Cont
5	S5RECSTROK	s5recstrok: w5 S Age most recent stroke	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RECCANCR	287	52.12	13.67	6.00	90.00
R2RECCANCR	303	53.67	14.23	6.00	89.00
R3RECCANCR	467	54.85	14.63	2.00	93.00
R4RECCANCR	570	55.88	14.90	2.00	89.00
R5RECCANCR	689	56.07	15.08	2.00	99.00
01000000	100	40 71	10.00	6.00	0.4.00
S1RECCANCR	199	49.71	12.88	6.00	84.00
S2RECCANCR	203	52.04	13.67	9.00	89.00
S3RECCANCR	298	54.37	13.87	9.00	88.00
S4RECCANCR	365	55.04	14.51	5.00	88.00
S5RECCANCR	345	56.66	14.07	9.00	88.00
R1RECHRTATT	468	56.51	15.21	3.00	106.00
R2RECHRTATT	607	58.56	14.23	5.00	92.00
R3RECHRTATT	790	59.00	13.60	1.00	98.00
R4RECHRTATT	953	59.65	14.10	1.00	93.00
R5RECHRTATT	1126	59.36	14.50	1.00	98.00

S1RECHRTATT	328	54.70	14.03	3.00	87.00	
S2RECHRTATT	427	57.26	13.54	5.00	92.00	
S3RECHRTATT	505	57.62	12.89	1.00	88.00	
S4RECHRTATT	607	58.09	13.26	1.00	93.00	
S5RECHRTATT	597	59.80	12.79	1.00	94.00	
R1RECSTROK	382	58.31	14.44	5.00	98.00	
R2RECSTROK	420	59.75	14.28	5.00	95.00	
R3RECSTROK	518	59.73	14.24	0.00	94.00	
R4RECSTROK	606	60.51	14.90	0.00	105.00	
R5RECSTROK	683	59.69	15.73	0.00	93.00	
S1RECSTROK	239	56.26	13.18	6.00	87.00	
S2RECSTROK	260	57.41	13.63	6.00	87.00	
S3RECSTROK	305	58.02	13.33	19.00	94.00	
S4RECSTROK	343	57.54	14.13	11.00	89.00	
S5RECSTROK	329	58.78	13.65	11.00	85.00	

How Constructed

RWRECCANCR indicates the most recent age at which the respondent was diagnosed with cancer. In Waves 1 and 2, respondents are asked the year or age in which they were diagnosed, and these responses are converted to the year of diagnosis in the MHAS data. Starting in Wave 3, both year and/or age responses are recorded in the MHAS data. RwRECCANCR is then constructed using the reported year or age reported. Previous responses are carried forward if the respondent does not report a new cancer diagnosis. Respondents who have never been diagnosed with cancer are not asked this question and are assigned a special missing code .x. RwRECCANCR is also assigned a special missing value .i if the year reported was invalid. Don't know, refused, or other missing responses of RwRECCANCR are assigned special missing codes .d, .r, and .m, respectively. RwRECCANCR is set to plain missing (.) for respondents who did not participate in the current wave.

SwRECCANCR indicates the most recent age at which the respondent's current wave's spouse was diagnosed with cancer, and is taken from RwRECCANCR. In addition to the special missing codes employed by RwRECCANCR, SwRECCANCR employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWRECHRTATT indicates the most recent age at which the respondent had a heart attack. In Waves 1 and 2, respondents are asked the year or age in which they were diagnosed, and these responses are converted to the year of diagnosis in the MHAS data. Starting in Wave 3, both year and/or age responses are recorded in the MHAS data. RWRECHRTATT is then constructed using first the reported year or age reported. Previous responses are carried forward if the respondent did not report a new heart attack. Respondents who have never had a heart attack are not asked this question and are assigned a special missing code .x. RWRECHRTATT is also assigned a special missing value .i if the year reported was invalid. Don't know, refused, or other missing responses of RWRECHRTATT are assigned special missing codes .d, .r, and .m, respectively. RWRECHRTATT is set to plain missing (.) for respondents who did not participate in the current wave.

SwRECHRTATT indicates the most recent age at which the respondent's current wave's spouse had a heart attack, and is taken from RwRECHRTATT. In addition to the special missing codes employed by RwRECHRTATT, SwRECHRTATT employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWRECSTROK indicates the most recent age at which the respondent had a stroke. In Waves 1 and 2, respondents are asked the year or age in which they were diagnosed, and these responses are converted to the year at diagnosis in the MHAS data. Starting in Wave 3, both year and/or age responses are recorded in the MHAS data. RwRECSTROK is then constructed using the first reported year or age reported. Previous responses are carried forward if the respondent did not report a new heart attack. Respondents who have never had a heart attack are not asked this question and are assigned a special missing code .x.
RwRECSTROK is also assigned a special missing value .i if the year reported was invalid. Don't know, refused, or other missing responses of RwRECSTROK are assigned special missing codes .d, .r, and .m, respectively. RwRECSTROK is set to plain missing (.) for respondents who did not participate in the current wave.

SWRECSTROK indicates the most recent age at which the respondent's current wave's spouse had a heart attack, and is taken from RwRECSTROK. In addition to the special missing codes employed by RwRECSTROK, SWRECSTROK employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

For each diagnosed condition (heart attack, cancer, and stroke), respondents are asked the year or age in which they were diagnosed. In Waves 1 and 2, these responses are converted to the year of diagnosis in the MHAS data. Starting in Wave 3, both year and/or age responses are recorded in the MHAS data. RwRECCANCR, RwRECHRTATT, and RwRECSTROK are then constructed using first the reported year or age. Previous responses are carried forward if the respondent does not report a new diagnosis.

Differences with the RAND HRS/Harmonized HRS

Different to the HRS, starting in Wave 3, the MHAS recorded both year and/or age of diagnosis while the HRS only recorded the year of diagnosis.

The HRS also asks the age at which the respondent was first diagnosed with several conditions, which are not asked in the MHAS.

MHAS Variables Used

Wave 1:	
C12	cancer or tumor
C18	year of cancer
C22	heart attack
C23	year of heart attack
C27	stroke
C32	year of stroke
Wave 2:	•
C12	doctor ever say you have cancer
C18	when was most recent cancer diagnosed
C22A	doctor ever say you had a heart attack
C22B	when have last heart attack
C26	doctor ever say you had a stroke
C30	when did you have your last stroke
Wave 3:	
C18_1_12	Respondent's year of most recent cancer diagnosis
C18_2_12	Respondent's age of most recent cancer diagnosis
C22B1_12	Respondent's year of most recent heart attack
C22B2_12	Respondent's age of most recent heart attack
C30_1_12	Respondent's year of recent stroke
C30_2_12	Respondent's age of recent stroke
Wave 4:	
C18_1_15	Respondent's year when most recent cancer diagnosed
C18_2_15	Respondent's age when most recent cancer diagnosed
C22B1_15	Respondent's year of (most) recent heart attack
C22B2_15	Respondent's age of (most) recent heart attack
C30_1_15	Year respondent had (most) recent stroke
C30_2_15	Respondent's age of (most) recent stroke
Wave 5:	
C18_1_18	R's year when most recent cancer diagnosed
C18_2_18	R's age when most recent cancer diagnosed
C22B1_18	R's year of (most) recent heart attack
C22B2_18	R's age of (most) recent heart attack
C30_1_18	Year R had (most) recent stroke
C30_2_18	R's age of (most) recent stroke

Vision

Wave	Variable	Label	Type
1	R1SIGHT	rlsight: w1 R Self-rated eyesight	Categ
2	R2SIGHT	r2sight: w2 R Self-rated eyesight	Categ
3	R3SIGHT	r3sight: w3 R Self-rated eyesight	Categ
4	R4SIGHT	r4sight: w4 R Self-rated eyesight	Categ
5	R5SIGHT	r5sight: w5 R Self-rated eyesight	Categ
1	S1SIGHT	s1sight: w1 S Self-rated eyesight	Categ
2	S2SIGHT	s2sight: w2 S Self-rated eyesight	Categ
3	S3SIGHT	s3sight: w3 S Self-rated eyesight	Categ
4	S4SIGHT	s4sight: w4 S Self-rated eyesight	Categ
5	S5SIGHT	s5sight: w5 S Self-rated eyesight	Categ
1	R1GLASSES	rlglasses: w1 R Wears glasses	Categ
2	R2GLASSES	r2glasses: w2 R Wears glasses	Categ
3	R3GLASSES	r3glasses: w3 R Wears glasses	Categ
4	R4GLASSES	r4glasses: w4 R Wears glasses	Categ
5	R5GLASSES	r5glasses: w5 R Wears glasses	Categ
1	S1GLASSES	slglasses: w1 S Wears glasses	Categ
2	S2GLASSES	s2glasses: w2 S Wears glasses	Categ
3	S3GLASSES	s3glasses: w3 S Wears glasses	Categ
4	S4GLASSES	s4glasses: w4 S Wears glasses	Categ
5	S5GLASSES	s5glasses: w5 S Wears glasses	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
D1 GTGUE	1 4 0 4 0	2 20	0.00	1 00	6.00
R1SIGHT	14049	3.38	0.90	1.00	6.00
R2SIGHT	12446	3.40	0.90	1.00	6.00
R3SIGHT	14101	3.34	0.90	1.00	6.00
R4SIGHT	13837	3.40	0.89	1.00	6.00
R5SIGHT	15748	3.36	0.95	1.00	6.00
S1SIGHT	9909	3.36	0.90	1.00	6.00
S2SIGHT	8693	3.38	0.88	1.00	6.00
S3SIGHT	9639	3.33	0.90	1.00	6.00
S4SIGHT	9177	3.38	0.88	1.00	6.00
S5SIGHT	7060	3.41	0.92	1.00	6.00
R1GLASSES	15162	0.40	0.49	0.00	1.00
R2GLASSES	13700	0.43	0.50	0.00	1.00
R3GLASSES	15721	0.50	0.50	0.00	1.00
R4GLASSES	14772	0.53	0.50	0.00	1.00
R5GLASSES	17110	0.56	0.50	0.00	1.00
S1GLASSES	10629	0.39	0.49	0.00	1.00
S2GLASSES	9562	0.43	0.49	0.00	1.00
S3GLASSES	10590	0.49	0.50	0.00	1.00
S4GLASSES	9649	0.52	0.50	0.00	1.00
S5GLASSES	7636	0.57	0.50	0.00	1.00

Categorical Variable Codes

Value		RISIGHT	R2SIGHT	R3SIGHT	R4SIGHT	R5SIGHT
.d:DK	1	43	72	271	11	25
.m:Missing		4			2	
.p:Proxy interview, not asked	1	1032	1178	1275	929	1328

Section B: Health					179
					<u> </u>
.r:Refuse	58	8	76		13
1.Excellent	427	443	604	580	910
2.Very good	1363	893	1168	909	1366
3.Good	6029	5577	6203	5815	5879
4.Fair	4891	4309	5071	5507	6447
5.Poor	1295	1171	1014	979	1097
6.Legally Blind	44	53	41	47	49
Value	S1SIGHT	S2SIGHT	S3SIGHT	S4SIGHT	S5SIGHT
.d:DK	34	46	180	5	8
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	42	4	47		7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Excellent	322	306	427	398	333
2.Very good	988	626	820	601	588
3.Good	4254	3990	4258	3902	2545
4.Fair	3482	3009	3479	3662	3068
5.Poor	843	735	631	590	500
6.Legally Blind	20	27	24	24	26
Value	R1GLASSES	R2GLASSES	R3GLASSES	R4GLASSES	R5GLASSES
.d:DK	6	3			1
.m:Missing	4			2	
.p:Proxy interview, not asked	2			1	1
r:Refuse	12	1	2	4	2
0.no	9092	7768	7829	7009	7555
1.yes	6070	5932	7892	7763	9555
Value	S1GLASSES	S2GLASSES	S3GLASSES	S4GLASSES	S5GLASSES
.d:DK	5	2			1
.m:Missing	3	_			-
.p:Proxy interview, not asked	1				1
r:Refuse	10		2	3	=
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	6521	5487	5377	4608	3281
1.yes	4108	4075	5213	5041	4355
1	1100	10.0	0210	0011	1000

How Constructed

RwSIGHT indicates the respondent's self-rated vision (while wearing glasses if they normally do). RwSIGHT is coded as follows: 1.Excellent, 2.Very good, 3.Good, 4.Fair, 5.Poor, and 6.Legally blind. Please note that "legally blind" is not a specified option, but rather a voluntary response from the respondent. When respondents don't know or refuse to answer, RwSIGHT is assigned special missing values .d or .r, respectively. RwSIGHT is set to the special missing value .p if the current interview was completed by proxy. Other missing responses are assigned special missing .m. RwSIGHT is assigned plain missing (.) if the respondent did not participate in the current wave.

RwGLASSES indicates whether the respondent usually wears glasses and is coded as 1 "Yes" and 0 "No". When respondents don't know or refuse to answer, RwGLASSES is assigned special missing values .d or .r, respectively. RwGLASSES is set to the special missing value .p if the current interview was completed by proxy. Other missing responses are assigned special missing .m. RwGLASSES is assigned plain missing (.) if the respondent did not participate in the current wave.

SwSIGHT and SwGLASSES variables are taken from the Wave 'w' spouse's self-reported RwSIGHT and RwGLASSES variables. In addition to the special missing codes used in RwSIGHT and RwGLASSES, SwSIGHT and SwGLASSES employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the MHAS, the HRS does not ask whether the respondent wears glasses or contact lenses.

Wave 1:	
C44	glasses
C45	vision
Wave 2:	
C41	use glasses
C42	status of vision (with glasses)
Wave 3:	
C41_12	Respondent wears glasses
C42_12	Respondent's vision with glasses
Wave 4:	
C41_15	Does respondent usually wears glasses
C42_15	Respondent's vision (with glasses)
Wave 5:	
C41_18	Does R usually wears glasses
C42 18	R's vision (with glasses)

Hearing

Wave	Variable	Label	Type
1	R1HEARING	rlhearing: w1 R Self-rated hearing	Categ
2	R2HEARING	r2hearing: w2 R Self-rated hearing	Categ
3	R3HEARING	r3hearing: w3 R Self-rated hearing	Categ
4	R4HEARING	r4hearing: w4 R Self-rated hearing	Categ
5	R5HEARING	r5hearing: w5 R Self-rated hearing	Categ
1	S1HEARING	slhearing: w1 S Self-rated hearing	Categ
2	S2HEARING	s2hearing: w2 S Self-rated hearing	Categ
3	S3HEARING	s3hearing: w3 S Self-rated hearing	Categ
4	S4HEARING	s4hearing: w4 S Self-rated hearing	Categ
5	S5HEARING	s5hearing: w5 S Self-rated hearing	Categ
1	R1HEARAID	rlhearaid: wl R Wears hearing aid	Categ
2	R2HEARAID	r2hearaid: w2 R Wears hearing aid	Categ
3	R3HEARAID	r3hearaid: w3 R Wears hearing aid	Categ
4	R4HEARAID	r4hearaid: w4 R Wears hearing aid	Categ
5	R5HEARAID	r5hearaid: w5 R Wears hearing aid	Categ
1	S1HEARAID	slhearaid: wl S Wears hearing aid	Categ
2	S2HEARAID	s2hearaid: w2 S Wears hearing aid	Categ
3	S3HEARAID	s3hearaid: w3 S Wears hearing aid	Categ
4	S4HEARAID	s4hearaid: w4 S Wears hearing aid	Categ
5	S5HEARAID	s5hearaid: w5 S Wears hearing aid	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HEARING	13940	3.04	0.87	1.00	6.00
R2HEARING	12359	3.11	0.85	1.00	6.00
R3HEARING	164	3.43	1.03	1.00	6.00
R4HEARING	13805	3.19	0.85	1.00	6.00
R5HEARING	15767	3.11	0.94	1.00	6.00
S1HEARING	9824	3.01	0.87	1.00	6.00
S2HEARING	8626	3.09	0.85	1.00	6.00
S3HEARING	97	3.42	1.04	1.00	6.00
S4HEARING	9161	3.17	0.84	1.00	6.00
S5HEARING	7069	3.18	0.90	1.00	6.00
R1HEARAID	15160	0.01	0.12	0.00	1.00
R2HEARAID	13700	0.02	0.13	0.00	1.00
R3HEARAID	15719	0.01	0.12	0.00	1.00
R4HEARAID	14775	0.02	0.14	0.00	1.00
R5HEARAID	17108	0.02	0.15	0.00	1.00
S1HEARAID	10627	0.01	0.12	0.00	1.00
S2HEARAID	9560	0.02	0.13	0.00	1.00
S3HEARAID	10589	0.01	0.11	0.00	1.00
S4HEARAID	9652	0.02	0.13	0.00	1.00
S5HEARAID	7637	0.03	0.16	0.00	1.00

Value		R1HEARING	R2HEARING	R3HEARING	R4HEARING	R5HEARING
.d:DK	1	70	116	1	34	7
.m:Missing	1	4			2	
n. Provi interview not asked	1	1032	1170	1275	929	1320

Section B: Health						182
.r:Refuse	T	140	51	2	9	12
.x:no hearing aid				14281		
1.Excellent		802	589	7	673	1215
2.Very good		1961	1435	23	1331	1861
3.Good		7747	7052	47	7101	7310
4.Fair	1	2774	2631	67	4121	4757

I.EXCEITEIL	002	309	/	0/3	1213
2.Very good	1961	1435	23	1331	1861
3.Good	7747	7052	47	7101	7310
4.Fair	2774	2631	67	4121	4757
5.Poor	643	637	19	576	619
6.Legally Deaf	13	15	1	3	5
Value	S1HEARING	S2HEARING	S3HEARING	S4HEARING	S5HEARING
.d:DK	52	80		17	2
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	109	37	1	4	4
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no hearing aid			9768		
1.Excellent	610	427	3	461	430
2.Very good	1405	1028	17	894	747
3.Good	5503	4965	26	4777	3285
4.Fair	1883	1788	39	2698	2316
5.Poor	416	405	11	329	290
6.Legally Deaf	7	13	1	2	1
Value	R1HEARAID	R2HEARAID	R3HEARAID	R4HEARAID	R5HEARAID
.d:DK	8	3	1	1	1
.m:Missing	4			2	
.r:Refuse	14	1	3	1	5
0.no	14945	13455	15504	14487	16724
1.yes	215	245	215	288	384
Value	S1HEARAID	S2HEARAID	S3HEARAID	S4HEARAID	S5HEARAID
.d:DK	8	3	1		
.m:Missing	3				
.r:Refuse	10	1	2		1
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	10480	9408	10467	9485	7435
1.yes	147	152	122	167	202

How Constructed

RWHEARING indicates the respondent's self-rated hearing (while wearing hearing aid if they normally do). RWHEARING is coded as follows: 1.Excellent, 2.Very good, 3.Good, 4.Fair, 5.Poor, and 6.Legally deaf. Please note that "legally deaf" is not a specified option, but rather a voluntary response from the respondent. When respondents don't know or refuse to answer, RWHEARING is assigned special missing values .d or .r, respectively. RWHEARING is set to the special missing value .p if the current interview was completed by proxy. Other missing responses are assigned special missing .m. In Wave 3, respondents are not asked to rate their hearing if they reported not using a hearing aid or answered don't know or refused to the hearing aid question, in which case RWHEARING is assigned special missing .x. RWHEARING is assigned plain missing (.) if the respondent did not participate in the current wave.

RWHEARAID indicates whether the respondent usually wears a hearing aid and is coded as 1 "Yes" and 0 "No". When respondents don't know or refuse to answer, RwHEARAID is assigned special missing values .d or .r, respectively. RwHEARAID is set to the special missing value .p if the current interview was completed by proxy. Other missing responses are assigned special missing .m. RwHEARAID is assigned plain missing (.) if the respondent did not participate in the current wave.

SwHEARAID variables are taken from the Wave 'w' spouse's self-reported RwHEARING and RwHEARAID variables. In addition to the special missing codes used in RwHEARING and RwHEARAID, SwHEARING and SwHEARAID employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Different from all other waves, in Wave 3 the self-reported hearing question is skipped if the respondent reports not using a hearing aid, or if they answer don't know or refused to the hearing aid question.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:	
C46	hearing aid
C47	hearing range
Wave 2:	
C43	use hearing aid
C44	status of hearing (with hearing aid)
Wave 3:	
C43_12	Respondent uses hearing/auditory device
C44_12	Respondent's hearing range with hearing/auditory device
Wave 4:	
C43 15	Does respondent use hearing aid/auditory device
C44 ¹⁵	Respondent's hearing range with hearing aid/auditory de
Wave 5:	
C43_18	Does R use hearing aid/auditory device
C44 <u>1</u> 8	R's hearing range with hearing aid/auditory device

Falls

Wave	Variable	Label	Туре
1	R1FALL	rlfall: w1 R Fallen down last 2 years	Categ
	R2FALL	r2fall: w2 R Fallen down last 2 years	Categ
			_
	R3FALL	r3fall: w3 R Fallen down last 2 years	Categ
	R4FALL	r4fall: w4 R Fallen down last 2 years	Categ
5	R5FALL	r5fall: w5 R Fallen down last 2 years	Categ
	S1FALL	s1fall: w1 S Fallen down last 2 years	Categ
	S2FALL	s2fall: w2 S Fallen down last 2 years	Categ
3	S3FALL	s3fall: w3 S Fallen down last 2 years	Categ
4	S4FALL	s4fall: w4 S Fallen down last 2 years	Categ
5	S5FALL	s5fall: w5 S Fallen down last 2 years	Categ
1	R1FALLNUM	rlfallnum: w1 R Number of falls	Cont
2	R2FALLNUM	r2fallnum: w2 R Number of falls	Cont
3	R3FALLNUM	r3fallnum: w3 R Number of falls	Cont
4	R4FALLNUM	r4fallnum: w4 R Number of falls	Cont
	R5FALLNUM	r5fallnum: w5 R Number of falls	Cont
J	KJFALLNOM	IJIAIIIIUM. WJ K NUMBEI OI IAIIS	COIIC
1	S1FALLNUM	slfallnum: w1 S Number of falls	Cont
2	S2FALLNUM	s2fallnum: w2 S Number of falls	Cont
3	S3FALLNUM	s3fallnum: w3 S Number of falls	Cont
	S4FALLNUM	s4fallnum: w4 S Number of falls	Cont
	S5FALLNUM	s5fallnum: w5 S Number of falls	Cont
J	COTTLEDIVOTT		COIIC
1	R1FALLINJ	rlfallinj: w1 R Injured from fall	Categ
2	R2FALLINJ	r2fallinj: w2 R Injured from fall	Categ
3	R3FALLINJ	r3fallinj: w3 R Injured from fall	Categ
4	R4FALLINJ	r4fallinj: w4 R Injured from fall	Categ
	R5FALLINJ	r5fallinj: w5 R Injured from fall	Categ
			caccy
1	S1FALLINJ	slfallinj: w1 S Injured from fall	Categ
2	S2FALLINJ	s2fallinj: w2 S Injured from fall	Categ
3	S3FALLINJ	s3fallinj: w3 S Injured from fall	Categ
4	S4FALLINJ	s4fallinj: w4 S Injured from fall	Categ
5	S5FALLINJ	s5fallinj: w5 S Injured from fall	Categ
	R1HIPE_M	rlhipe_m: w1 R Ever fractured a bone (including hip)	Categ
	R2HIPE_M	r2hipe_m: w2 R Ever fractured a bone (including hip)	Categ
3	R3HIPE_M	r3hipe_m: w3 R Ever fractured a bone (including hip)	Categ
4	R4HIPE_M	r4hipe_m: w4 R Ever fractured a bone (including hip)	Categ
1	S1HIPE_M	slhipe_m: w1 S Ever fractured a bone (including hip)	Categ
2	S2HIPE M	s2hipe m: w2 S Ever fractured a bone (including hip)	Categ
3	S3HIPE M	s3hipe m: w3 S Ever fractured a bone (including hip)	Categ
4	S4HIPE_M	s4hipe_m: w4 S Ever fractured a bone (including hip)	Categ
3	R3HIP M	r3hip m: w3 R Fractured a bone (including hip) in the last 2	Categ
4	R4HIP M	r4hip m: w4 R Fractured a bone (including hip) in the last 2	Categ
5	R5HIP M	r5hip m: w5 R Fractured a bone (including hip) in the last 2	Categ
J	VOITTE _L1	ISHIP_M. WS K Fractured a Done (Including http) in the last 2	careg
3	S3HIP M	s3hip m: w3 S Fractured a bone (including hip) in the last 2	Categ
4	S4HIP M	s4hip m: w4 S Fractured a bone (including hip) in the last 2	Categ
5	S5HIP M	s5hip m: w5 S Fractured a bone (including hip) in the last 2	Categ
	_	· · · · · · · · · · · · · · · · · · ·	- 5
5	R5HIP	r5hip: w5 R Fractured hip in the last 2 yrs	Categ
5	S5HIP	s5hip: w5 R Fractured hip in the last 2 yrs	Categ
			_

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1FALL	15159	0.35	0.48	0.00	1.00
R2FALL	13683	0.36	0.48	0.00	1.00
R3FALL	15715	0.39	0.49	0.00	1.00
R4FALL	14766	0.44	0.50	0.00	1.00
R5FALL	17104	0.41	0.49	0.00	1.00
S1FALL	10625	0.32	0.47	0.00	1.00
S2FALL	9554	0.33	0.47	0.00	1.00
S3FALL	10585	0.36	0.48	0.00	1.00
S4FALL	9647	0.41	0.49	0.00	1.00
S5FALL	7632	0.40	0.49	0.00	1.00
R1FALLNUM	15038	0.99	2.42	0.00	50.00
R2FALLNUM	13590	1.00	2.46	0.00	50.00
R3FALLNUM	15676	1.14	2.94	0.00	98.00
R4FALLNUM	14728	1.29	3.11	0.00	98.00
R5FALLNUM	17048	1.14	2.75	0.00	98.00
KJFALLNUM	17040	1.14	2.75	0.00	90.00
S1FALLNUM	10549	0.86	2.23	0.00	50.00
S2FALLNUM	9494	0.88	2.31	0.00	50.00
S3FALLNUM	10567	1.00	2.56	0.00	98.00
S4FALLNUM	9625	1.14	2.71	0.00	80.00
S5FALLNUM	7604	1.10	2.74	0.00	98.00
R1FALLINJ	11845	0.17	0.38	0.00	1.00
R2FALLINJ	10740	0.17	0.39	0.00	1.00
	11792	0.19	0.39	0.00	1.00
R3FALLINJ					
R4FALLINJ	10602	0.23	0.42	0.00	1.00
R5FALLINJ	12818	0.21	0.41	0.00	1.00
S1FALLINJ	8488	0.15	0.35	0.00	1.00
S2FALLINJ	7624	0.16	0.37	0.00	1.00
S3FALLINJ	8083	0.16	0.37	0.00	1.00
S4FALLINJ	7042	0.20	0.40	0.00	1.00
S5FALLINJ	5724	0.20	0.40	0.00	1.00
R1HIPE M	13416	0.13	0.34	0.00	1.00
R2HIPE M	5528	0.19	0.39	0.00	1.00
R3HIPE M	15289	0.17	0.38	0.00	1.00
R4HIPE M	14620	0.23	0.42	0.00	1.00
K4IIIEE_H	14020	0.23	0.42	0.00	1.00
S1HIPE_M	9014	0.11	0.32	0.00	1.00
S2HIPE_M	3553	0.17	0.37	0.00	1.00
S3HIPE_M	10193	0.15	0.35	0.00	1.00
S4HIPE_M	9510	0.20	0.40	0.00	1.00
R3HIP M	15286	0.05	0.22	0.00	1.00
R4HIP M	14614	0.05	0.22	0.00	1.00
R5HIP M	17104	0.09	0.28	0.00	1.00
101111_11	1,101	J. 0 J	3.20	3.00	1.00
S3HIP M	10192	0.04	0.20	0.00	1.00
S4HIP_M	9509	0.05	0.21	0.00	1.00
S5HIP_M	7631	0.08	0.28	0.00	1.00
_					
R5HIP	17104	0.03	0.18	0.00	1.00
S5HIP	7631	0.03	0.17	0.00	1.00
	-				· · ·

Value	R1FALL	R2FALL	R3FALL	R4FALL	R5FALL
.d:DK	19	19	5	9	9
.m:Missing	4			2	
.r:Refuse	4	2	3	2	1
0.no	9781	8711	9552	8209	10110
·					
1.yes	5378	4972	6163	6557	6994
Value	S1FALL	S2FALL	S3FALL	S4FALL	S5FALL
.d:DK	16	9	4	4	6
.m:Missing	3				
.r:Refuse	4	1	3	1	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	7233	6387	6762	5649	4579
1.yes	3392	3167	3823	3998	3053
1.100	3372	3107	3023	3330	3000
Value	R1FALLINJ	R2FALLINJ	R3FALLINJ	R4FALLINJ	R5FALLINJ
.d:DK	28	21	7	9	9
.m:Missing	4			2	
_		2	_		4
.r:Refuse	23	2	6	2	4
.x:does not have condition	3286	2941	3918	4164	4283
0.no	9781	8711	9552	8209	10110
·	2064	2029	2240	2393	2708
1.yes	2004	2029	2240	2393	2708
Value	S1FALLINJ	S2FALLINJ	S3FALLINJ	S4FALLINJ	S5FALLINJ
.d:DK	20	11	4	4	6
· · · ·		Τ.Τ.	4	4	O
.m:Missing	3				
.r:Refuse	17	1	5	1	2
.u:Unmar	4205	4009	4782	4847	5227
			349		
.v:SP NR	333	131		280	501
.x:does not have condition	2120	1928	2500	2605	1906
0.no	7233	6387	6762	5649	4579
·	1255	1237	1321	1393	1145
1.yes	1233	1237	1321	1393	1143
Value	R1HIPE M	R2HIPE M	R3HIPE M	R4HIPE M	
.a:age lt 50	$14\overline{1}3$	205	430	42	
.d:DK	89	16	2	114	
		10	2		
.m:Missing	31			2	
.r:Refuse	237	2	2	1	
.s:Skip		7953			
<u> </u>	11667		10600	11212	
0.no	11667	4500	12629	11313	
1.yes	1749	1028	2660	3307	
Value	S1HIPE M	S2HIPE M	S3HIPE M	S4HIPE M	
	1356	190	396	-	
.a:age lt 50				41	
.d:DK	68	8	1	100	
.m:Missing	19				
·		1	2	1	
.r:Refuse	191	1	2	1	
.s:Skip		5812			
.u:Unmar	4205	4009	4782	4847	
.v:SP NR	333	131	349	280	
0.no	7979	2952	8698	7652	
1.yes	1035	601	1495	1858	
Value			R3HIP M	R4HIP M	R5HIP M
			-	-	1/21111 - M
.a:age lt 50			430	42	
.d:DK			4	120	4
.m:Missing				2	
			2		-
.r:Refuse			3	1	6
0.no			14528	13845	15621
1.yes			758	769	1483
- '					
Value			S3HIP M	S4HIP M	CEUTD M
					S5HIP_M
.a:age lt 50			396	41	
.d:DK			1	101	3
r:Refuse			3	1	4
.u:Unmar			4782	4847	5227
.v:SP NR			349	280	501
0.no			9767	9069	6984
1.yes			425	440	647
-					
Value					R5HIP

.d:DK	1	4
.r:Refuse		6
0.no		16563
1.yes	I	541
Value	-	S5HIP
.d:DK	1	3
.r:Refuse	1	4
.u:Unmar	T	5227
.v:SP NR	1	501
0.no	1	7390
1.yes	1	241

How Constructed

RwFALL indicates whether the respondent has fallen down in the last 2 years. RwFALL is coded as 0.No and 1.Yes. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. RwFALL is set to plain missing (.) for respondents who did not participate in the current wave.

RWFALLNUM indicates the number of times the respondent has fallen down (in the last 2 years). RWFALLNUM is coded as 0 if the respondent has not fallen down in the last 2 years. RWFALLINJ indicates whether the respondent has ever been injured seriously enough from a fall to need medical treatment. RWFALLINJ is coded as 0.No and 1.Yes. RWFALLINJ is assigned special missing .x if the respondent did not experience a fall in the previous two years. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. RWFALLNUM and RWFALLINJ are set to plain missing (.) for respondents who did not participate in the current wave.

RWHIPE_M indicates whether the respondent has ever had a fractured a bone, including the hip, since their fiftieth birthday. RwHIP_M indicates whether the respondent has fractured a bone, including the hip, in the past two years, and is available starting in Wave 3. RwHIP indicates whether the respondent has fractured their hip in the past two years and is available starting in Wave 5. RwHIPE_M, RwHIP_M, and RwHIP are coded as 0.No and 1.Yes. Respondents younger than age 50 are not asked about a broken hip in Waves 1 through 4 and RwHIPE_M and RwHIPE_M are assigned special missing .a. In Wave 2, RwHIPE_M is assigned special missing .s if the respondent had not fallen down in the last two years and the question about hip fracture was skipped. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. RwHIPE_M, RwHIPE_M, and RwHIP are set to plain missing (.) for respondents who did not participate in the current wave.

SwFALL, SwFALLNUM, SwFALLINJ, SwHIPE_M, SwHIP_M, and SwHIP variables are taken from the Wave 'w' spouse's self-reported RwFALL, RwFALLNUM, RwFALLINJ, RwHIPE_M, RwHIP_M, and RwHIP variables. In addition to the special missing codes used in RwFALL, RwFALLNUM, RwFALLINJ, RwHIPE_M, RwHIP_M, and RwHIP; SwFALL, SwFALLNUM, SwFALLINJ, SwHIPE_M, SwHIP_M, and SwHIP employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Wave 1, all respondents age 50 and older are asked if they have fractured any bone including their hip since their fiftieth birthday. In Wave 2, respondents age 50 and older who have fallen in the last two years are asked if they have fractured any bone including their hip since their fiftieth birthday. In Waves 3 and 4, follow-up respondents age 50 and older are asked if they have fractured any bones including their hip in the last 10 years, while new respondents age 50 and older are asked if they have fractured any bones including their hip since their fiftieth birthday. If follow-up or new respondents report a fracture, they are then asked if the fracture occurred in the last two years. Starting in Wave 5, all respondents are asked if they have fractured any bones including their hip in the last two years, and are given the option of answering: 1.no, none, 2.yes, the hip, 3.yes, the hip and other bones, 4.yes, other bones.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are asked whether they have fractured the hip, whereas in most waves the MHAS respondent are asked if they fractured any bone, including the hip. As such, the Harmonized HRS includes RWHIPE, indicating whether the respondent has ever broken their hip, while the Harmonized MHAS includes RWHIPE M and RWHIP M, indicating whether the respondent has broken a bone including their hip since their

fiftieth birthday or in the last two years, respectively. Starting in Wave 5, the Harmonized MHAS also includes RwHIP, indicating whether the respondent has broken their hip in the last two years.

```
Wave 1:
    C40
                    fallen down
    C41
                    number of falls
    C42
                    treatment for falls
    C43
                    bone fracture
Wave 2:
   C37
                   fell in last two years
    C38
                   number of falls
    C39
                    needed to see doctor after fall
    C40
                   broken bones since age 50
Wave 3:
   C37 12
                   Last 2 years: Has respondent fallen down
   C38 12
                   Last 2 years: Respondent's number of falls
   C39 12
                    Last 2 years:Respondent's treatment for falls
   C40A_12
                    Since age 50:Has respondent fractured bone(s)
   C40B_12
                    Last 10 years: Has respondent fractured bone(s)
                    Last 2 years:Did respondent fracture bone(s)
    C40C_12
Wave 4:
   C37 15
                    In the last 2 years: Has respondent fall down
    C38 15
                    In the last 2 years: Respondent's number of falls
    C39 15
                    In the last 2 years: Respondent needed treatment for fa
    C40A 15
                    Since age 50: Has respondent fractured any bone(s)
   C40B 15
                    Last 10 years: Has respondent fractured any bone(s)
Wave 5:
    C37 18
                    In the last 2 years: Has R fall down
    C38 18
                    In the last 2 years: R's number of falls
                    In the last 2 years: R needed treatment for falls
    C39 18
    C40B 18
                    Last 2 years: Did R fracture any bone(s)
```

Urinary Incontinence

Wave	Variable	Label	Туре
	R1URINA2Y R2URINA2Y	rlurina2y: w1 R Any urinary incontinence (last 2 yrs) r2urina2y: w2 R Any urinary incontinence (last 2 yrs)	Categ Categ
	S1URINA2Y S2URINA2Y	slurina2y: w1 S Any urinary incontinence (last 2 yrs) s2urina2y: w2 S Any urinary incontinence (last 2 yrs)	Categ Categ
4	R3URINURG2Y R4URINURG2Y R5URINURG2Y	r3urinurg2y: w3 R Urge to urinate (last 2 yrs) r4urinurg2y: w4 R Urge to urinate (last 2 yrs) r5urinurg2y: w5 R Urge to urinate (last 2 yrs)	Categ Categ Categ
4	S3URINURG2Y S4URINURG2Y S5URINURG2Y	s3urinurg2y: w3 S Urge to urinate (last 2 yrs) s4urinurg2y: w4 S Urge to urinate (last 2 yrs) s5urinurg2y: w5 S Urge to urinate (last 2 yrs)	Categ Categ Categ
	R3URINCGH2Y R4URINCGH2Y R5URINCGH2Y	r3urincgh2y: w3 R Leaks urine when coughing (last 2 yrs) r4urincgh2y: w4 R Leaks urine when coughing (last 2 yrs) r5urincgh2y: w5 R Leaks urine when coughing (last 2 yrs)	Categ Categ Categ
3 4 5	S3URINCGH2Y S4URINCGH2Y S5URINCGH2Y	s3urincgh2y: w3 S Leaks urine when coughing (last 2 yrs) s4urincgh2y: w4 S Leaks urine when coughing (last 2 yrs) s5urincgh2y: w5 S Leaks urine when coughing (last 2 yrs)	Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1URINA2Y	14121	0.08	0.27	0.00	1.00
R2URINA2Y	12517	0.09	0.28	0.00	1.00
S1URINA2Y	9966	0.07	0.26	0.00	1.00
S2URINA2Y	8738	0.08	0.28	0.00	1.00
R3URINURG2Y	14432	0.15	0.35	0.00	1.00
R4URINURG2Y	13837	0.20	0.40	0.00	1.00
R5URINURG2Y	15770	0.16	0.37	0.00	1.00
S3URINURG2Y	9856	0.13	0.34	0.00	1.00
S4URINURG2Y	9178	0.18	0.39	0.00	1.00
S5URINURG2Y	7067	0.16	0.37	0.00	1.00
R3URINCGH2Y	14437	0.15	0.36	0.00	1.00
R4URINCGH2Y	13837	0.19	0.39	0.00	1.00
R5URINCGH2Y	15770	0.17	0.38	0.00	1.00
S3URINCGH2Y	9859	0.14	0.35	0.00	1.00
S4URINCGH2Y	9178	0.17	0.38	0.00	1.00
S5URINCGH2Y	7067	0.16	0.37	0.00	1.00

Value		R1URINA2Y	R2URINA2Y
.d:DK		13	8
.m:Missing		4	
.p:Proxy interview, not asked		1032	1178
.r:Refuse		16	1
0.no		13023	11408
1.ves	1	1098	1109

Value	S1URINA2Y	S2URINA2Y			
.d:DK	8	4			
.m:Missing	3				
.p:Proxy interview, not asked	660	821			
r:Refuse	11	1			
.u:Unmar	4205	4009			
.v:SP NR	333	131			
0.no	9242	8004			
1.yes	724	734			
Value			R3URINURG2Y	R4URINURG2Y	R5URINURG2Y
.d:DK			4	1	5
.m:Missing			-	9	9
.p:Proxy interview, not asked			1275	929	1328
.r:Refuse			12	3	11
0.no			12328	11034	13169
1.yes			2104	2803	2601
1.yes			2104	2003	2001
Value			S3URINURG2Y		S5URINURG2Y
.d:DK			2	1	4
.m:Missing				1	
.p:Proxy interview, not asked			726	470	563
.r:Refuse			8	2	4
.u:Unmar			4782	4847	5227
.v:SP NR			349	280	501
0.no			8531	7487	5911
1.yes			1325	1691	1156
Value			R3URINCGH2Y	R4URINCGH2Y	R5URINCGH2Y
.d:DK			3	2	5
.m:Missing			9	9	9
.p:Proxy interview, not asked			1275	929	1328
.r:Refuse			8	2	11
0.no			12203	11204	13088
1.yes			2234	2633	2682
1. yes			2234	2033	2002
Value			S3URINCGH2Y	S4URINCGH2Y	S5URINCGH2Y
.d:DK			2	1	4
.m:Missing				1	
.p:Proxy interview, not asked			726	470	563
.r:Refuse			5	2	4
.u:Unmar			4782	4847	5227
.v:SP NR			349	280	501
0.no			8460	7579	5941
1.yes			1399	1599	1126

How Constructed

RWURINA2Y indicates whether the respondent has experienced any urinary incontinence in the last 2 yrs. RWURINA2Y is only available in Waves 1 and 2. RWURINA2Y is coded as 0.No and 1.Yes. RWURINA2Y is set to the special missing value .p if the current interview was completed by proxy. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. RWURINA2Y is set to plain missing (.) for respondents who did not participate in the current wave.

RwURINCGH2Y indicates whether in the last 2 years, the respondent has experienced any incontinence when coughing, sneezing, picking something up, or exercising. RwURINURG2Y indicates whether the respondent has experienced any incontinence when they had the urge to urinate, but couldn't reach the bathroom in time. RwURINCGH2Y and Rw4URINURG2Y are available starting in Wave 3. RwURINCGH2Y and Rw4URINURG2Y are coded as 0.No and 1.Yes. RwURINCGH2Y and Rw4URINURG2Y are set to the special missing value .p if the current interview was completed by proxy. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. RwURINCGH2Y and Rw4URINURG2Y are set to plain missing (.) for respondents who did not participate in the current wave.

SwURINA2Y, SwURINCGH2Y, and SwURINURG2Y variables are taken from the Wave 'w' spouse's self-reported RwURINA2Y, RwURINCGH2Y, and RwURINURG2Y variables. In addition to the special missing codes used in RwURINA2Y, RwURINCGH2Y, and RwURINURG2Y; SwURINA2Y, SwURINCGH2Y, and SwURINURG2Y employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The series of questions on urinary incontinence in the MHAS are part of the symptoms battery in the Health section. These questions have been modified across waves. In the first two waves, respondents were only asked if they had experienced any urinary incontinence. However, starting in Wave 3, respondents were instead asked, in two separate questions, if they had experienced any incontinence when coughing, sneezing, picking something up, or exercising, and if they had experienced any incontinence when they had the urge to urinate, but couldn't reach the bathroom in time.

Differences with the RAND HRS/Harmonized HRS

Different to the HRS, in the MHAS respondents are asked whether they have experienced any of these symptoms in the past 2 years instead of the past 12 months. As such, the Harmonized HRS includes RwURINA, RwURINCGH, and RwURINURG, while the Harmonized MHAS includes RwURINA2Y, RwURINCGH2Y, and RwURINURG2Y due to the different time frames.

Wave 1:	
C73I	urine loss
Wave 2:	
C68I	involuntary bladder movements
Wave 3:	
C68G 12	Last 2 years: frequent incontinence while performing tas
C68H 12	Last 2 years: Frequent incontinence with urge to urinate
Wave 4:	
C68G_15	During the last 2 years: Respondent had frequent incont
C68H_15	During the last 2 years: Respondent had frequent incont
Wave 5:	
C68G_18	During the last 2 years: R had frequent incontinence
C68H_18	During the last 2 years: R had frequent incontinence wh

Persistent Health Problems

Wave	Variable	Label	Туре
1	R1SWELL	rlswell: w1 R Persistent swelling in feet/ankles	Categ
2	R2SWELL	r2swell: w2 R Persistent swelling in feet/ankles	Categ
3	R3SWELL	r3swell: w3 R Persistent swelling in feet/ankles	Categ
4	R4SWELL	r4swell: w4 R Persistent swelling in feet/ankles	Categ
5	R5SWELL	r5swell: w5 R Persistent swelling in feet/ankles	Categ
1	S1SWELL	s1swell: w1 S Persistent swelling in feet/ankles	Categ
2	S2SWELL	s2swell: w2 S Persistent swelling in feet/ankles	Categ
3	S3SWELL	s3swell: w3 S Persistent swelling in feet/ankles	Categ
4	S4SWELL	s4swell: w4 S Persistent swelling in feet/ankles	Categ
5	S5SWELL	s5swell: w5 S Persistent swelling in feet/ankles	Categ
	R1BREATH_M	r1breath_m: w1 R Difficulty breathing while lying down	Categ
	R2BREATH_M	r2breath_m: w2 R Difficulty breathing while lying down	Categ
	R3BREATH_M	r3breath_m: w3 R Difficulty breathing or coughing	Categ
	R4BREATH_M	r4breath_m: w4 R Difficulty breathing or coughing	Categ
5	R5BREATH_M	r5breath_m: w5 R Difficulty breathing or coughing	Categ
1	S1BREATH_M	slbreath_m: w1 S Difficulty breathing while lying down	Categ
2	S2BREATH_M	s2breath_m: w2 S Difficulty breathing while lying down	Categ
	S3BREATH_M	s3breath_m: w3 S Difficulty breathing or coughing	Categ
4	S4BREATH_M	s4breath_m: w4 S Difficulty breathing or coughing	Categ
5	S5BREATH_M	s5breath_m: w5 S Difficulty breathing or coughing	Categ
1	R1WHEEZE	rlwheeze: w1 R Persistent wheezing	Categ
2	R2WHEEZE	r2wheeze: w2 R Persistent wheezing	Categ
1	S1WHEEZE	s1wheeze: w1 S Persistent wheezing	Categ
2	S2WHEEZE	s2wheeze: w2 S Persistent wheezing	Categ
	R1FATIGUE	rlfatigue: wl R Severe fatigue	Categ
	R2FATIGUE	r2fatigue: w2 R Severe fatigue	Categ
3	R3FATIGUE	r3fatigue: w3 R Severe fatigue	Categ
	R4FATIGUE	r4fatigue: w4 R Severe fatigue	Categ
5	R5FATIGUE	r5fatigue: w5 R Severe fatigue	Categ
	S1FATIGUE	s1fatigue: w1 S Severe fatigue	Categ
	S2FATIGUE	s2fatigue: w2 S Severe fatigue	Categ
	S3FATIGUE	s3fatigue: w3 S Severe fatigue	Categ
	S4FATIGUE	s4fatigue: w4 S Severe fatigue	Categ
5	S5FATIGUE	s5fatigue: w5 S Severe fatigue	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SWELL	14128	0.28	0.45	0.00	1.00
R2SWELL	12518	0.26	0.44	0.00	1.00
R3SWELL	14442	0.26	0.44	0.00	1.00
R4SWELL	13839	0.26	0.44	0.00	1.00
R5SWELL	15778	0.23	0.42	0.00	1.00
S1SWELL	9970	0.27	0.44	0.00	1.00
S2SWELL	8737	0.24	0.43	0.00	1.00
S3SWELL	9862	0.24	0.43	0.00	1.00
S4SWELL	9177	0.24	0.43	0.00	1.00
S5SWELL	7072	0.23	0.42	0.00	1.00

R1BREATH M	14127	0.14	0.35	0.00	1.00	
R2BREATH M	12521	0.14	0.35	0.00	1.00	
R3BREATH M	14443	0.18	0.38	0.00	1.00	
R4BREATH M	13841	0.19	0.40	0.00	1.00	
R5BREATH M	15778	0.18	0.38	0.00	1.00	
_						
S1BREATH M	9969	0.14	0.35	0.00	1.00	
S2BREATH M	8739	0.14	0.35	0.00	1.00	
S3BREATH M	9862	0.17	0.38	0.00	1.00	
S4BREATH M	9179	0.19	0.39	0.00	1.00	
S5BREATH M	7072	0.17	0.38	0.00	1.00	
_						
R1WHEEZE	14120	0.18	0.38	0.00	1.00	
R2WHEEZE	12524	0.17	0.38	0.00	1.00	
S1WHEEZE	9964	0.17	0.37	0.00	1.00	
S2WHEEZE	8741	0.16	0.37	0.00	1.00	
R1FATIGUE	14118	0.27	0.44	0.00	1.00	
R2FATIGUE	12523	0.26	0.44	0.00	1.00	
R3FATIGUE	14440	0.22	0.41	0.00	1.00	
R4FATIGUE	13838	0.21	0.41	0.00	1.00	
R5FATIGUE	15773	0.19	0.39	0.00	1.00	
S1FATIGUE	9960	0.26	0.44	0.00	1.00	
S2FATIGUE	8740	0.25	0.43	0.00	1.00	
S3FATIGUE	9859	0.21	0.41	0.00	1.00	
S4FATIGUE	9178	0.20	0.40	0.00	1.00	
S5FATIGUE	7069	0.18	0.39	0.00	1.00	

Value	R1SWELL	R2SWELL	R3SWELL	R4SWELL	R5SWELL
.d:DK	RISWELL 10	RZSWELL 7	RSSWELL 2	K45WELL 3	KJSWELL 2
.m:Missing	1 4	1	۷	7	۷
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	1032	1 1	1273	1	1320
0.no	10169	9252	10754	10308	12089
1.yes	3959	3266	3688	3531	3689
1. yes	3,33,3	3200	3000	3331	3003
Value	S1SWELL	S2SWELL	S3SWELL	S4SWELL	S5SWELL
.d:DK	7	6	1	3	1
.m:Missing	i 3			1	
.p:Proxy interview, not asked	660	821	726	470	563
r:Refuse	I 8		3	1	2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	7282	6610	7497	6957	5462
1.yes	2688	2127	2365	2220	1610
-					
Value	R1BREATH M	R2BREATH M	R3BREATH M	R4BREATH M	R5BREATH M
.d:DK	$\overline{1}$ 0	_3	_	_1	_2
.m:Missing	4			7	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	13	2	5	1	6
0.no	12101	10737	11855	11160	13007
1.yes	2026	1784	2588	2681	2771
Value	S1BREATH_M	S2BREATH_M	S3BREATH_M	S4BREATH_M	S5BREATH_M
.d:DK	8	2		1	1
.m:Missing	3			1	
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	8	2	4	1	2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	8554	7523	8143	7467	5860
1.yes	1415	1216	1719	1712	1212

Value	R1WHEEZE	R2WHEEZE			
.d:DK	13	2			
.m:Missing	4	_			
.p:Proxy interview, not asked	1032	1178			
.r:Refuse	17				
0.no	11625	10345			
1.yes	2495	2179			
-					
Value	S1WHEEZE	S2WHEEZE			
.d:DK	9	2			
.m:Missing	3				
.p:Proxy interview, not asked	660	821			
.r:Refuse	12				
.u:Unmar	4205	4009			
.v:SP NR	333	131			
0.no	8310	7322			
1.yes	1654	1419			
Value	R1FATIGUE	R2FATIGUE	R3FATIGUE	R4FATIGUE	R5FATIGUE
.d:DK	RIFATIGUE 14		RSFATIGUE 2	R4FATIGUE 1	
.m:Missing	4	2	۷	7	3
.m:missing p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	1032	1 1	1275	929	10
0.no	10315	9294	11282	=	12777
1.yes	3803	3229	3158	2910	2996
1.yes	3003	3229	3130	2910	2990
Value	S1FATIGUE	S2FATIGUE	S3FATIGUE	S4FATIGUE	S5FATIGUE
.d:DK	11	2	2	1	2
.m:Missing	3			1	
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	14	1	5	2	4
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
	333	101	515		
0.no	7351 2609	6576 2164	7784 2075	7331 1847	5774 1295

How Constructed

RwSWELL, RwBREATH_M, RwWHEEZE, and RwFATIGUE indicate whether the respondent has experienced any persistent health problems in the last 2 years. These variables are coded as 0.no, and 1.yes. RwSWELL, RwBREATH_M, RwWHEEZE, and RwFATIGUE are set to the special missing value .p if the current interview was completed by proxy. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwSWELL indicates whether the respondent has experienced persistent swelling in their feet or ankles. In Waves 1 and 2, RwBREATH_M indicates whether the respondent has experienced difficulty breathing while lying down. Starting in Wave 3, RwBREATH_M indicates whether the respondent has experienced difficulting breathing, panting or coughing, or phlegm. In Waves 1 and 2, RwWHEEZE indicates whether the respondent has experienced persistent wheezing or cough, or bringing up phlegm. RwFATIGUE indicates whether the respondent has experienced severe fatigue or exhaustion.

SwSWELL, SwBREATH_M, SwWHEEZE, and SwFATIGUE variables are taken from the Wave 'w' spouse's self-reported RwSWELL, RwBREATH_M, RwWHEEZE, and RwFATIGUE variables. In addition to the special missing codes used in RwSWELL, RwBREATH_M, RwWHEEZE, and RwFATIGUE; SwSWELL, SwBREATH_M, SwWHEEZE, and SwFATIGUE employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2, the respondent is asked whether they had difficulty breathing while lying down and whether they had wheezing or cough, or bring up phlegm, as separate questions. Starting in Wave 3, the respondent is asked a single question asking whether they had difficulty breathing, panting or coughing, or phlegm.

Differences with the RAND HRS/Harmonized HRS

RWBREATH_M is a Harmonized MHAS specific variable to reflect the difference between the HRS and the MHAS. In the MHAS, respondents are asked whether they had difficulty breathing while lying down in Waves 1 and 2, and whether they have experienced difficulty breathing, pantings or coughing, or phlegm starting in Wave 3, while in the HRS they are asked whether they have experienced shortness of breath while awake.

Wave 1:	
C73A	swelling feet
C73B	breathing difficulty
C73E	severe fatique
C73F	wheezing
Wave 2:	
C68A	pain in feet/knees
C68B	difficulty in breathing
C68E	severe fatique
C68F	
	cough
Wave 3:	
C68A_12	Last 2 years: Respondent had frequent swelling feet/ankl
C68B_12	Last 2 years: Respondent had frequent difficulty breathi
C68E 12	Last 2 years: Respondent experienced frequent fatigue/ex
Wave 4:	
C68A 15	During the last 2 years: Respondent had frequent swelli
C68B 15	During the last 2 years: Respondent had frequent diffic
C68E 15	During the last 2 years: Respondent had frequent severe
Wave 5:	
C68A 18	During the last 2 years: R had frequent swelling in fee
C68B 18	During the last 2 years: R had frequent difficulty brea
C68E 18	During the last 2 years: R had frequent difficulty blea
C00E_10	butting the tast 2 years. It had frequent severe ratifue,

Sleep

Wave	Variable	Label	Туре
_	R4FALLSLP R5FALLSLP	r4fallslp: w4 R Trouble falling asleep r5fallslp: w5 R Trouble falling asleep	Categ Categ
4	S4FALLSLP	s4fallslp: w4 S Trouble falling asleep	Categ
5	S5FALLSLP	s5fallslp: w5 S Trouble falling asleep	Categ
_	R4WAKENT R5WAKENT	r4wakent: w4 R Wakes up during night r5wakent: w5 R Wakes up during night	Categ Categ
4	S4WAKENT	s4wakent: w4 S Wakes up during night s5wakent: w5 S Wakes up during night	Categ
5	S5WAKENT		Categ
4	R4WAKEUP	r4wakeup: w4 R Wakes up too early r5wakeup: w5 R Wakes up too early	Categ
5	R5WAKEUP		Categ
4	S4WAKEUP	s4wakeup: w4 S Wakes up too early s5wakeup: w5 S Wakes up too early	Categ
5	S5WAKEUP		Categ
-	R3RESTED R4RESTED R5RESTED	r3rested: w3 R Feels rested when wakes up r4rested: w4 R Feels rested when wakes up	Categ Categ
3	S3RESTED	r5rested: w5 R Feels rested when wakes up s3rested: w3 S Feels rested when wakes up	Categ
4	S4RESTED	s4rested: w4 S Feels rested when wakes up	Categ
5	S5RESTED	s5rested: w5 S Feels rested when wakes up	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R4FALLSLP	13837	2.45	0.71	1.00	3.00
R5FALLSLP	15782	2.46	0.71		3.00
S4FALLSLP	9180	2.47	0.70	1.00	3.00
S5FALLSLP	7075	2.46	0.72		3.00
R4WAKENT	13834	2.18	0.71	1.00	3.00
R5WAKENT	15781	2.22	0.71		3.00
S4WAKENT	9177	2.20	0.71	1.00	3.00
S5WAKENT	7075	2.19	0.71		3.00
R4WAKEUP	13830	2.33	0.76	1.00	3.00
R5WAKEUP	15775	2.30	0.78		3.00
S4WAKEUP	9175	2.35	0.75	1.00	3.00
S5WAKEUP	7070	2.30	0.79		3.00
R3RESTED	14441	1.50	0.68	1.00	3.00
R4RESTED	13829	1.53	0.71	1.00	3.00
R5RESTED	15772	1.59	0.74	1.00	3.00
S3RESTED	9861	1.49	0.68	1.00	3.00
S4RESTED	9177	1.52	0.71	1.00	3.00
S5RESTED	7072	1.57	0.74	1.00	3.00

Value	I	R4FALLSLP	R5FALLSLP
.d:DK		1	1
<pre>.m:Missing .p:Proxy interview, not asked</pre>		11 929	1328
.r:Refuse	! 	1	3
1.Most of the time		1750	2013
2.Sometimes 3.Rarely or never	 	4073 8014	4424 9345
-	'	0011	3010
Valued:DK		S4FALLSLP 1	S5FALLSLP
.m:Missing	 	1	
.p:Proxy interview, not asked	<u> </u>	470	563
.u:Unmar .v:SP NR	 	4847 280	5227 501
1.Most of the time		1107	930
2.Sometimes 3.Rarely or never		2609 5464	1953 4192
J. Nately of Nevel	ı	3404	4132
Value		R4WAKENT	R5WAKENT
.d:DK .m:Missing	 	2 11	2
.p:Proxy interview, not asked	I	929	1328
<pre>.r:Refuse 1.Most of the time</pre>		3 2454	3 2638
2.Sometimes	· 	6455	7090
3.Rarely or never	I	4925	6053
Value	I	S4WAKENT	S5WAKENT
.d:DK	i I	2	
<pre>.m:Missing .p:Proxy interview, not asked</pre>		1 470	563
.r:Refuse	! 	2	303
.u:Unmar		4847	5227
.v:SP NR 1.Most of the time	 	280 1566	501 1247
2.Sometimes	I	4237	3214
3.Rarely or never		3374	2614
Value		R4WAKEUP	R5WAKEUP
.d:DK .m:Missing		2 11	6
.p:Proxy interview, not asked		929	1328
.r:Refuse		7	5
1.Most of the time 2.Sometimes	 	2451 4406	3200 4650
3.Rarely or never	i I	6973	7925
Value	I	S4WAKEUP	S5WAKEUP
.d:DK		2	4
<pre>.m:Missing .p:Proxy interview, not asked</pre>		1 470	563
.r:Refuse	 	4 / 0	1
.u:Unmar		4847	5227
.v:SP NR 1.Most of the time	 	280 1574	501 1448
2.Sometimes	i I	2852	2050
3.Rarely or never		4749	3572
Value	R3RESTED	R4RESTED	R5RESTED
.d:DK	4	6	10
<pre>.m:Missing .p:Proxy interview, not asked</pre>	1275 	12 929	1328
.r:Refuse	3	3	4
1.Most of the time 2.Sometimes	8847 4034	8248 3862	8876 4434
3.Rarely or never	1560	1719	2462
Value	CODECEED	d d in in our in o	¢5DE¢MED
.d:DK	S3RESTED	S4RESTED 4	S5RESTED 3
.m:Missing	726	1	5.00
.p:Proxy interview, not asked	I	470	563

.r:Refuse	I	2		
.u:Unmar		4782	4847	5227
.v:SP NR		349	280	501
1.Most of the time		6084	5508	4092
2.Sometimes		2712	2528	1916
3.Rarely or never	I	1065	1141	1064

How Constructed

RWFALLSLP, RwWAKENT, RwWAKEUP, and RwRESTED indicate the frequency with which the respondent experiences sleep issues. RwFALLSLP indicates how often the respondent has trouble falling asleep. RwWAKENT indicates how often the respondent wakes up too early and is unable to go back to sleep. RwRESTED indicates how often the respondent feels rested when they wake up. These variables are coded as 1.Most of the time, 2.Sometimes, 3.Rarely or never. RwRESTED is available starting in Wave 3, while RwFALLSLP, RwWAKENT, and RwWAKEUP are available starting in Wave 4. RwFALLSLP, RwWAKENT, RwWAKEUP, and RwRESTED are set to the special missing value .p if the current interview was completed by proxy. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SWFALLSLP, SWWAKENT, SWWAKEUP, and SWRESTED variables are taken from the Wave 'w' spouse's self-reported RWFALLSLP, RWWAKENT, RWWAKEUP, and RWRESTED variables. In addition to the special missing codes used in RWFALLSLP, RWWAKENT, RWWAKEUP, and RWRESTED; SWFALLSLP, SWWAKENT, SWWAKEUP, and SWRESTED employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are asked about feeling rested when they wake up starting in Wave 3. Respondents are asked about trouble falling asleep, waking up during the night, and waking up too early starting in Wave 4.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 3:	
C74_12	Respondent's frequency of feeling well rested in the mo
Wave 4:	
C74A_15	Respondent's frequency having trouble falling asleep
C74B_15	Respondent's frequency having trouble with waking up du
C74C_15	Respondent's frequency having trouble with waking up to
C74D_15	Respondent's frequency feeling really rested when he/sh
Wave 5:	
C74A_18	R's frequency having trouble falling asleep
C74B_18	R's frequency having trouble with waking up during the
C74C_18	R's frequency having trouble with waking up early, unab
C74D_18	R's frequency feeling really rested when he/she wakes u

Pain

Wave	Variable	Label	Type
1	R1PAINFR	rlpainfr: w1 R Frequent problems with pain	Categ
2	R2PAINFR	r2painfr: w2 R Frequent problems with pain	Categ
3	R3PAINFR	r3painfr: w3 R Frequent problems with pain	Categ
4	R4PAINFR	r4painfr: w4 R Frequent problems with pain	Categ
5	R5PAINFR	r5painfr: w5 R Frequent problems with pain	Categ
1	S1PAINFR	slpainfr: w1 S Frequent problems with pain	Categ
	S2PAINFR	s2painfr: w2 S Frequent problems with pain	Categ
	S3PAINFR	s3painfr: w3 S Frequent problems with pain	Categ
	S4PAINFR	s4painfr: w4 S Frequent problems with pain	Categ
5	S5PAINFR	s5painfr: w5 S Frequent problems with pain	Categ
1	R1PAINLV	rlpainlv: w1 R Usual level of pain	Categ
2	R2PAINLV	r2painlv: w2 R Usual level of pain	Categ
3	R3PAINLV	r3painlv: w3 R Usual level of pain	Categ
4	R4PAINLV	r4painlv: w4 R Usual level of pain	Categ
5	R5PAINLV	r5painlv: w5 R Usual level of pain	Categ
1	S1PAINLV	slpainlv: w1 S Usual level of pain	Categ
2	S2PAINLV	s2painlv: w2 S Usual level of pain	Categ
3	S3PAINLV	s3painlv: w3 S Usual level of pain	Categ
4	S4PAINLV	s4painlv: w4 S Usual level of pain	Categ
5	S5PAINLV	s5painlv: w5 S Usual level of pain	Categ
1	R1PAINA	rlpaina: w1 R Pain interferes with normal activities	Categ
2	R2PAINA	r2paina: w2 R Pain interferes with normal activities	Categ
3	R3PAINA	r3paina: w3 R Pain interferes with normal activities	Categ
4	R4PAINA	r4paina: w4 R Pain interferes with normal activities	Categ
5	R5PAINA	r5paina: w5 R Pain interferes with normal activities	Categ
	S1PAINA	slpaina: w1 S Pain interferes with normal activities	Categ
	S2PAINA	s2paina: w2 S Pain interferes with normal activities	Categ
	S3PAINA	s3paina: w3 S Pain interferes with normal activities	Categ
4	S4PAINA	s4paina: w4 S Pain interferes with normal activities	Categ
5	S5PAINA	s5paina: w5 S Pain interferes with normal activities	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PAINFR	14136	0.41	0.49	0.00	1.00
R2PAINFR	12523	0.39	0.49	0.00	1.00
R3PAINFR	14443	0.38	0.49	0.00	1.00
R4PAINFR	13846	0.38	0.49	0.00	1.00
R5PAINFR	15779	0.39	0.49	0.00	1.00
S1PAINFR	9973	0.40	0.49	0.00	1.00
S2PAINFR	8740	0.38	0.49	0.00	1.00
S3PAINFR	9861	0.37	0.48	0.00	1.00
S4PAINFR	9180	0.38	0.48	0.00	1.00
S5PAINFR	7072	0.39	0.49	0.00	1.00
R1PAINLV	14124	0.80	1.07	0.00	3.00
R2PAINLV	12522	0.77	1.07	0.00	3.00
R3PAINLV	14441	0.73	1.04	0.00	3.00
R4PAINLV	13846	0.74	1.04	0.00	3.00
R5PAINLV	15779	0.75	1.04	0.00	3.00

S1PAINLV	9964	0.78	1.07	0.00	3.00	
S2PAINLV	8739	0.74	1.06	0.00	3.00	
S3PAINLV	9859	0.70	1.02	0.00	3.00	
S4PAINLV	9180	0.71	1.02	0.00	3.00	
S5PAINLV	7072	0.74	1.03	0.00	3.00	
R1PAINA	5819	0.47	0.50	0.00	1.00	
R2PAINA	4926	0.50	0.50	0.00	1.00	
R3PAINA	5504	0.48	0.50	0.00	1.00	
R4PAINA	5313	0.48	0.50	0.00	1.00	
R5PAINA	6217	0.47	0.50	0.00	1.00	
S1PAINA	3994	0.47	0.50	0.00	1.00	
S2PAINA	3331	0.49	0.50	0.00	1.00	
S3PAINA	3675	0.46	0.50	0.00	1.00	
S4PAINA	3445	0.47	0.50	0.00	1.00	
S5PAINA	2779	0.46	0.50	0.00	1.00	

dipK	Value	R1PAINFR	R2PAINFR	R3PAINFR	R4PAINFR	R5PAINFR
Deptroxy interview, not asked 1032	.d:DK	7	3	1		1
TrimeFuse	· · · · · · · · · · · · · · · · · · ·	4				
Description	.p:Proxy interview, not asked	1032	1178	1275	929	1328
1.yes	.r:Refuse	7		4	1	6
Value	0.no	8298	7594	8935	8532	9561
SIPAINFR 1.yes	5838	4929	5508	5314	6218	
Description	<u>-</u>					
### Missing 3 p.Pfroxy interview, not asked 660 821 726 470 563 r.Refuse 660 821 726 470 563 r.Refuse 7.v.SP NR 333 131 349 280 501 0.no 5966 5406 6182 5735 4293 1.yes 4007 3334 3679 3445 2779 **Value	Value	S1PAINFR		S3PAINFR	S4PAINFR	S5PAINFR
.p:Proxy interview, not asked 660 821 726 470 563 .r:Refuse 6 4 4 1 3 3 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 0.no 5966 5406 6182 5735 4293 1.yes 4007 3334 3679 3445 2779 Value	.d:DK		3	1	1	
1	.m:Missing	3				
u:Unmar 4205 4009 4782 4847 5227 v:SP NR 3333 131 349 280 501 0.no 5966 5406 6182 5735 4293 1.yes 4007 3334 3679 3445 2779 Value	.p:Proxy interview, not asked	660	821	726	470	563
No. .r:Refuse	6		4	1	3	
0.no	.u:Unmar	4205	4009	4782	4847	5227
1.yes	.v:SP NR	333	131	349	280	501
Value R1PAINLV R2PAINLV R3PAINLV R4PAINLV R5PAINLV .d:DK 133 3 2 1 1 .m:Missing 4 2 2 1 1 .p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 13 1 5 1 6 0.No pain 8298 7594 8935 8532 9561 1.Mid 1910 1656 1837 1731 2101 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value 1545 1413 1329 1286 1441 141 3 2 1 1441 141 13 1329 1286 1441 141 1329 1286 1441 141 1329 1286 1441 141 141 141 141 141 141 141 141 141 141 <td>0.no</td> <td>5966</td> <td>5406</td> <td>6182</td> <td>5735</td> <td>4293</td>	0.no	5966	5406	6182	5735	4293
Value	1.ves	4007	3334	3679	3445	2779
.d.DK 13 3 2 1 1 .m:Missing 4 2 2 1 .p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 13 1 5 1 6 0 0.No pain 8298 7594 8935 8532 9561 1 6 0 0.No pain 18298 7594 8935 8532 9561 1 6 0 0.No pain 18298 7594 8935 8532 9561 1 6 0 0 0 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 141 141 141 11 13 129 1286 1441 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141	-					
.m:Missing 4 2 .p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 13 1 5 1 6 0.No pain 8298 7594 8935 8532 9561 1.Mild 1910 1656 1837 1731 201 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value	Value	R1PAINLV	R2PAINLV	R3PAINLV	R4PAINLV	R5PAINLV
.p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 13 1 5 1 6 0.No pain 8298 7594 8935 8532 9561 1.Mild 1910 1656 1837 1731 2101 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value		13	3	2	1	1
.p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 13 1 5 1 6 0.No pain 8298 7594 8935 8532 9561 1.Mild 1910 1656 1837 1731 2101 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value	.m:Missing	4			2	
r.r.Refuse 13 1 5 1 6 0.No pain 8298 7594 8935 8532 9561 1.Mild 1910 1656 1837 1731 2101 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value	· · · · · · · · · · · · · · · · · · ·	1032	1178	1275	929	1328
0.No pain 8298 7594 8935 8532 9561 1.Mild 1910 1656 1837 1731 2101 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value						
1.Mild 1910 1656 1837 1731 2101 2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 Value	•					
2.Moderate 2371 1859 2340 2297 2676 3.Severe 1545 1413 1329 1286 1441 1414 1546 1415 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416 1416						
3.Severe 1545 1413 1329 1286 1441 Value	The state of the s					
Value	•					
.d:DK 111 3 2 1 .m:Missing 3 3 3 .p:Proxy interview, not asked 660 821 726 470 563 .r:Refuse 10 1 5 1 3 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	2.Devele	1343	1413	1323	1200	1441
.m:Missing .p:Proxy interview, not asked 660 821 726 470 563 .r:Refuse 10 1 5 1 3 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	Value	S1PAINLV	S2PAINLV	S3PAINLV	S4PAINLV	S5PAINLV
.p:Proxy interview, not asked 660 821 726 470 563 .r:Refuse 10 1 5 1 3 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	.d:DK	11	3	2	1	
.r:Refuse 10 1 5 1 3 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	.m:Missing	3				
.r:Refuse 10 1 5 1 3 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	.p:Proxy interview, not asked	660	821	726	470	563
.v:SP NR 333 131 349 280 501 0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value		10	1	5	1	3
0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	.u:Unmar	4205	4009	4782	4847	5227
0.No pain 5966 5406 6182 5735 4293 1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	.v:SP NR	333	131	349	280	501
1.Mild 1320 1126 1281 1164 936 2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value	•					
2.Moderate 1611 1277 1537 1496 1217 3.Severe 1067 930 859 785 626 Value		1320			1164	936
3.Severe 1067 930 859 785 626 Value						
Value	•					
.d:DK 16 5 3 1 1 .m:Missing 4 2 .p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 17 1 6 2 7 .x:does not have condition 8298 7594 8935 8532 9561 0.no 3071 2474 2875 2765 3322	0.001010	2007	300	003	, 00	020
.m:Missing 4 2 .p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 17 1 6 2 7 .x:does not have condition 8298 7594 8935 8532 9561 0.no 3071 2474 2875 2765 3322	Value	R1PAINA	R2PAINA	R3PAINA	R4PAINA	R5PAINA
.p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 17 1 6 2 7 .x:does not have condition 8298 7594 8935 8532 9561 0.no 3071 2474 2875 2765 3322	.d:DK	16	5	3	1	1
.p:Proxy interview, not asked 1032 1178 1275 929 1328 .r:Refuse 17 1 6 2 7 .x:does not have condition 8298 7594 8935 8532 9561 0.no 3071 2474 2875 2765 3322	.m:Missing	4			2	
.r:Refuse 17 1 6 2 7 .x:does not have condition 8298 7594 8935 8532 9561 0.no 3071 2474 2875 2765 3322	· · · · · · · · · · · · · · · · · · ·	1032	1178	1275	929	1328
.x:does not have condition 8298 7594 8935 8532 9561 0.no 3071 2474 2875 2765 3322			1	6	2	7
0.no 3071 2474 2875 2765 3322			7594		8532	9561
	•					
	1.yes	2748	2452	2629		2895

Value	S1PAINA	S2PAINA	S3PAINA	S4PAINA	S5PAINA
.d:DK	12	5	3	1	
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	13	1	6	1	3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:does not have condition	5966	5406	6182	5735	4293
0.no	2119	1703	1977	1833	1495
1.yes	1875	1628	1698	1612	1284

How Constructed

RWPAINFR indicates whether the respondent suffers from pain. RwPAINFR is coded as 0.No, and 1.Yes. RwPAINLV indicates the respondent's pain level the majority of the time. RwPAINLV is coded as 0.No pain, 1.Mild, 2.Moderate, 3.Severe. If the respondent does not suffer from pain, then RwPAINLV is assigned a value of 0. RwPAINA indicates whether the respondent's pain interferes with usual activities such as household chores or their job. RwPAINA is coded as 0.No and 1.Yes, and is assigned special missing .x if the respondent does not experience pain. RwPAINFR, RwPAINLV, and RwPAINA are set to the special missing value .p if the current interview was completed by proxy. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwPAINER, SwPAINLV, and SwPAINA variables are taken from the Wave 'w' spouse's self-reported RwPAINER, RwPAINLV, and RwPAINA variables. In addition to the special missing codes used in RwPAINER, RwPAINLV, and RwPAINA; SwPAINER, SwPAINLV, and SwPAINA employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Please note that the HRS asks whether the respondent is "often troubled with pain", while the MHAS asks whether the respondent "suffers from pain". Despite these differences in question wording, these variables have been constructed to be as comparable as possible.

Wave 1:	
C48	pain
C49	pain type
C50	pain limits activities
Wave 2:	
C45	often suffer from physical pain
C46	suffer pain a majority of the time
C47	condition limits your normal activities
Wave 3:	
C45_12	Respondent suffers from pain
C46_12	Report respondent's pain level
C47_12	Pain limits respondent's daily activities
Wave 4:	
C45_15	Does respondent suffer from pain
C46_15	Respondent's pain level
C47_15	Does pain limits respondent's daily activities
Wave 5:	
C45_18	Does R suffer from pain
C46_18	R's pain level
C47 <u>1</u> 8	Does pain limits R's daily activities

Menopause

Wave	Variable	Label	Type
4	R4HYSTERE	r4hystere: w4 R Ever had hysterectomy r5hystere: w5 R Ever had hysterectomy	Categ
5	R5HYSTERE		Categ
_	S4HYSTERE	s4hystere: w4 S Ever had hysterectomy	Categ
	S5HYSTERE	s5hystere: w5 S Ever had hysterectomy	Categ
	R4LSTMNSPD R5LSTMNSPD	r41stmnspd: w4 R Age last menstrual period r51stmnspd: w5 R Age last menstrual period	Cont Cont
4	S4LSTMNSPD	s41stmnspd: w4 S Age last menstrual period s51stmnspd: w5 S Age last menstrual period	Cont
5	S5LSTMNSPD		Cont
4	R4FLSTMNSPD	r4flstmnspd: w4 R Flag age last menstrual period r5flstmnspd: w5 R Flag age last menstrual period	Categ
5	R5FLSTMNSPD		Categ
4	S4FLSTMNSPD	s4flstmnspd: w4 S Flag age last menstrual period s5flstmnspd: w5 S Flag age last menstrual period	Categ
5	S5FLSTMNSPD		Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R4HYSTERE	8106	0.21	0.40	0.00	1.00
R5HYSTERE	9189	0.19	0.39	0.00	1.00
S4HYSTERE	4623	0.21	0.41	0.00	1.00
S5HYSTERE	3590	0.21	0.41	0.00	1.00
R4LSTMNSPD	7434	46.88	6.69	4.00	99.00
R5LSTMNSPD	8620	46.86	6.89	4.00	99.00
S4LSTMNSPD	4120	46.85	6.64	4.00	99.00
S5LSTMNSPD	3545	46.93	6.95	4.00	99.00
R4FLSTMNSPD	7434	0.01	0.12	0.00	1.00
R5FLSTMNSPD	8620	0.03	0.17	0.00	1.00
S4FLSTMNSPD	4120	0.01	0.09	0.00	1.00
S5FLSTMNSPD	3545	0.02	0.15	0.00	1.00

Value	R4HYSTERE	R5HYSTERE
.d:DK	11	24
.g:not asked-gender	11790	11790
.m:Missing	2	
.p:Proxy interview, not asked	515	686
.r:Refuse	3	17
0.no	6439	7422
1.yes	1667	1767
Value	S4HYSTERE	S5HYSTERE
Value .d:DK	S4HYSTERE 8	S5HYSTERE 13
·		
.d:DK	8	13
.d:DK .g:not asked-gender	8 4944	13 4356
.d:DK	8 4944	13 4356 223
.d:DK	8 4944 193 2	13 4356 223 8

1.yes	972	759
Value	R4FLSTMNSPD	R5FLSTMNSPD
.d:DK	40	17
.g:not asked-gender	11790	11790
.m:Missing	2	
.o:older than 55	21	6
.p:Proxy interview, not asked	515	288
.r:Refuse	13	14
.x:still menstruating	527	925
.y:younger than 45	85	46
O.Reported value	7329	8378
1.Estimated value	105	242
Value	S4FLSTMNSPD	S5FLSTMNSPD
Value .d:DK	S4FLSTMNSPD 15	S5FLSTMNSPD 2
		S5FLSTMNSPD 2 4356
.d:DK	15	2
.d:DK .g:not asked-gender	15 4944	2
.d:DK g:not asked-gender .o:older than 55	15 4944 6	2 4356 1
.d:DK g:not asked-gender co:older than 55 cp:Proxy interview, not asked	15 4944 6 193	2 4356 1
.d:DK .g:not asked-gender .o:older than 55 .p:Proxy interview, not asked .r:Refuse	15 4944 6 193 8	2 4356 1 80 2
.d:DK .g:not asked-gender .o:older than 55 .p:Proxy interview, not asked .r:Refuse .u:Unmar	15 4944 6 193 8 4845	2 4356 1 80 2 5226
.d:DK .g:not asked-gender .o:older than 55 .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR	15 4944 6 193 8 4845 164	2 4356 1 80 2 5226 379
.d:DK .g:not asked-gender .o:older than 55 .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR .x:still menstruating	15 4944 6 193 8 4845 164 451	2 4356 1 80 2 5226 379 194

How Constructed

RwHYSTERE indicates whether the respondent has ever had a hysterectomy. RwHYSTERE is coded as 0.No, and 1.Yes. RwHYSTERE is available starting in Wave 4. In RwHYSTERE, respondents who are men are assigned special missing .g. Proxy respondents are not asked about a hysterectomy and are assigned special missing .p. Don't know, refused, or other missing responses of this variable is assigned special missing codes .d, .r, and .m, respectively. RwHYSTERE is set to plain missing (.) for respondents who did not participate in the current wave.

RWLSTMNSPD indicates the respondent's age at their last menstrual period. Respondents who are women are asked how old they were when they stopped menstruating, and if they answer don't know or refuse, are then asked if they were less than 45 years old, about 50 years old, or more than 55 years old. RwLSTMNSPD takes the value reported by the respondent if available, and is assigned a value of 50, if they did not answer the first question and respond to the second question that they were about 50 years old. RWFLSTMNSPD is a flag variable indicating whether the value of RwLSTMNSPD was reported, in which case RWFLSTMNSPD is assigned a value of 0, or if RWLSTMNSPD was set to 50 because the respondent reported being about 50 years old in the second question, in which case RwFLSTMNSPD is assigned a value of 1. If the respondent reported that they were less than 45 years old, then RwLSTMNSPD and RwFLSTMNSPD are assigned special missing .y. If the respondent reported that they were older than 55 years old, then RWLSTMNSPD and RWFLSTMNSPD are assigned special missing .o. If the respondent voluntarily reports she still menstruates, RwLSTMNSPD amd RwFLSTMNSPD are set to special missing value .x. RwLSTMNSPD and RWFLSTMNSPD are available starting in Wave 4. Values of RwLSTMNSPD and RwFLSTMNSPD are carried forward in future waves. In RwLSTMNSPD and RwFLSTMNSPD, respondents who are men are assigned special missing .g. Proxy respondents are not asked about the age at their last menstrual period and are assigned special missing .p. Don't know, refused, or other missing responses of these variables are assigned special missing codes .d, .r, and .m, respectively. RwLSTMNSPD and RwFLSTMNSPD are set to plain missing (.) for respondents who did not participate in the current wave.

SwHYSTERE, SwLSTMNSPD, and SwFLSTMNSPD are variables are taken from the Wave 'w' spouse's RwHYSTERE, RwLSTMNSPD, and RwFLSTMNSPD variables. In addition to the special missing codes used in RwHYSTERE, RwLSTMNSPD, and RwFLSTMNSPD; SwHYSTERE, SwLSTMNSPD, and SwFLSTMNSPD employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents who are women are asked whether they have had a hysterectomy and their age when they stopped menstruating starting in Wave 4.

Differences with the RAND HRS/Harmonized HRS

The HRS asks whether the respondent had a hysterectomy and the age of their last period starting in Wave 9, while the MHAS asks the same questions starting in Wave 4. Additionally, the HRS asks what stage of menopause the respondent thinks they are in, recorded in RwMENOPE in the Harmonized HRS.

Wave 4:	
C48I_15	In the last 2 years: Respondent had a mammogram/x-ray
C48K1 15	Was respondent
C48K 15	Respondent's age when she stopped menstruating
Wave 5:	
C48I 18	In the last 2 years: R had a mammogram/x-ray
C48K1 18	Was R
C48K 18	R's age when she stopped menstruating

BMI

Wave	e Variable	Label	Type
1	R1BMI	rlbmi: w1 R Body Mass Index=kg/m2	Cont
2	R2BMI	r2bmi: w2 R Body Mass Index=kg/m2	Cont
3	R3BMI	r3bmi: w3 R Body Mass Index=kg/m2	Cont
4	R4BMI	r4bmi: w4 R Body Mass Index=kg/m2	Cont
5	R5BMI	r5bmi: w5 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
3	S3BMI	s3bmi: w3 S Body Mass Index=kg/m2	Cont
4	S4BMI	s4bmi: w4 S Body Mass Index=kg/m2	Cont
5	S5BMI	s5bmi: w5 S Body Mass Index=kg/m2	Cont
1	R1WEIGHT	rlweight: w1 R Weight in kilograms	Cont
2	R2WEIGHT	r2weight: w2 R Weight in kilograms	Cont
3	R3WEIGHT	r3weight: w3 R Weight in kilograms	Cont
4	R4WEIGHT	r4weight: w4 R Weight in kilograms	Cont
5	R5WEIGHT	r5weight: w5 R Weight in kilograms	Cont
1	S1WEIGHT	slweight: w1 S Weight in kilograms	Cont
2	S2WEIGHT	s2weight: w2 S Weight in kilograms	Cont
3	S3WEIGHT	s3weight: w3 S Weight in kilograms	Cont
4	S4WEIGHT	s4weight: w4 S Weight in kilograms	Cont
5	S5WEIGHT	s5weight: w5 S Weight in kilograms	Cont
1	R1HEIGHT	rlheight: w1 R Height in meters	Cont
2	R2HEIGHT	r2height: w2 R Height in meters	Cont
3	R3HEIGHT	r3height: w3 R Height in meters	Cont
4	R4HEIGHT	r4height: w4 R Height in meters	Cont
5	R5HEIGHT	r5height: w5 R Height in meters	Cont
1	S1HEIGHT	slheight: w1 S Height in meters	Cont
2	S2HEIGHT	s2height: w2 S Height in meters	Cont
3	S3HEIGHT	s3height: w3 S Height in meters	Cont
4	S4HEIGHT	s4height: w4 S Height in meters	Cont
5	S5HEIGHT	s5height: w5 S Height in meters	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BMI	11361	27.27	5.15	10.49	99.00
R2BMI	9431	27.51	5.42	10.12	109.28
R3BMI	13831	27.49	5.01	12.49	70.25
R4BMI	12813	27.57	5.10	11.20	73.87
R5BMI	15215	27.79	5.18	8.33	75.02
S1BMI	8174	27.45	5.14	10.49	99.00
S2BMI	6813	27.67	5.36	10.12	109.28
S3BMI	9505	27.71	4.89	12.49	70.25
S4BMI	8569	27.81	4.95	11.20	73.87
S5BMI	6822	27.72	5.04	8.33	71.07
R1WEIGHT	13566	69.84	14.07	30.00	180.00
R2WEIGHT	12134	69.72	14.16	20.00	176.00
R3WEIGHT	14998	69.90	14.01	30.00	190.00
R4WEIGHT	14078	69.69	14.25	30.00	187.00
R5WEIGHT	16361	70.60	14.30	30.00	175.00

Section B: Health						206
S1WEIGHT	9646	71.28	13.96	30.00	180.00	
S2WEIGHT	8608	71.08	13.94	20.00	176.00	
S3WEIGHT	10207	71.47	13.79	30.00	190.00	
S4WEIGHT	9321	71.34	13.93	30.00	187.00	
S5WEIGHT	7341	70.89	13.72	30.00	156.00	
R1HEIGHT	11736	1.61	0.10	1.00	2.00	
R2HEIGHT	9712	1.61	0.10	1.00	2.00	
R3HEIGHT	14084	1.60	0.10	1.00	2.00	
R4HEIGHT	13064	1.60	0.10	1.00	1.99	
R5HEIGHT	15561	1.60	0.10	1.00	2.00	
S1HEIGHT	8411	1.62	0.10	1.00	2.00	
S2HEIGHT	7004	1.62	0.10	1.00	2.00	
S3HEIGHT	9639	1.61	0.10	1.07	2.00	
S4HEIGHT	8703	1.61	0.10	1.00	1.99	
S5HEIGHT	6966	1.60	0.10	1.00	2.00	

How Constructed

RwHEIGHT, RwWEIGHT, and RwBMI are the respondent's self-reported height, weight, and body mass index, respectively.

Height is given in meters, weight in kilograms, and BMI is weight divided by the square of height. A special missing code .i is used for RwHEIGHT when the respondent reports a height less than 90cm or if an invalid code is selected (either 9, 915, 949, 990, or 992). Don't know, refused, or otherwise missing responses are assigned special missing values .d, .r, .m, respectively. RwHEIGHT, RwWEIGHT, and RwBMI are assigned plain missing (.) if the respondent did not participate in the current wave.

SwHEIGHT, SwWEIGHT, and SwBMI are the measures of the respondent's spouse and are taken directly from the spouse's RwHEIGHT, RwWEIGHT, and RwBMI, respectively. In addition to the special missing values employed by RwHEIGHT, RwWEIGHT, and RwBMI, SwHEIGHT, SwWEIGHT, and SwBMI employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

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Wave 1:
    C71
                    weight
    C72
                    height
Wave 2:
    C66
                    weight
    C67
                    height without shoes
Wave 3:
    C66 12
                    Respondent's current weight in kilos
    C67_1_12
C67_2_12
                    Respondent's height without shoes Meters
                    Respondent's height without shoes_Centimeters
Wave 4:
    C66 15
                    Respondent's current weight in kilos
    C67 1 15
                    Respondent's height without shoes: Meters
    C67 2 15
                    Respondent's height without shoes: Centimeters
Wave 5:
    C66 18
                    R's current weight in kilos
                    R's height without shoes: Meters
    C67_1_18
                    R's height without shoes: Centimeters
    C67 2 18
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Health Behaviors: Physical Activity or Exercise

Wave	Variable	Label	Type
1	R1VIGACT	rlvigact: w1 R Wtr vigorus phys act 3+/wk	Categ
2	R2VIGACT	r2vigact: w2 R Wtr vigorus phys act 3+/wk	Categ
3	R3VIGACT	r3vigact: w3 R Wtr vigorus phys act 3+/wk	Categ
4	R4VIGACT	r4vigact: w4 R Wtr vigorus phys act 3+/wk	Categ
5	R5VIGACT	r5vigact: w5 R Wtr vigorus phys act 3+/wk	Categ
1	S1VIGACT	slvigact: wl S Wtr vigorus phys act 3+/wk	Categ
2	S2VIGACT	s2vigact: w2 S Wtr vigorus phys act 3+/wk	Categ
3	S3VIGACT	s3vigact: w3 S Wtr vigorus phys act 3+/wk	Categ
4	S4VIGACT	s4vigact: w4 S Wtr vigorus phys act 3+/wk	Categ
5	S5VIGACT	s5vigact: w5 S Wtr vigorus phys act 3+/wk	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1VIGACT	14036	0.34	0.47	0.00	1.00
R2VIGACT	12520	0.36	0.48	0.00	1.00
R3VIGACT	14442	0.39	0.49	0.00	1.00
R4VIGACT	13842	0.38	0.49	0.00	1.00
R5VIGACT	15772	0.35	0.48	0.00	1.00
S1VIGACT	9889	0.36	0.48	0.00	1.00
S2VIGACT	8737	0.38	0.49	0.00	1.00
S3VIGACT	9862	0.42	0.49	0.00	1.00
S4VIGACT	9180	0.41	0.49	0.00	1.00
S5VIGACT	7069	0.33	0.47	0.00	1.00

Categorical Variable Codes

Value	R1VIGACT	R2VIGACT	R3VIGACT	R4VIGACT	R5VIGACT
.d:DK	42	4	3	1	6
.m:Missing	4			6	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	72	2	3	1	8
0.No	9268	7989	8767	8526	10268
1.Yes	4768	4531	5675	5316	5504
Value	S1VIGACT	S2VIGACT	S3VIGACT	S4VIGACT	S5VIGACT
.d:DK	39	4	1	1	3
.m:Missing	3			1	
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	57	2	3		3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	6281	5380	5724	5397	4711
1.Yes	3608	3357	4138	3783	2358

How Constructed

RwVIGACT indicates whether the respondent has participated in hard physical work on average during the last two years, three or more times a week; including various activities such as sports, heavy household chores, or other physical work. A code of 1 indicates that the respondent did participate in vigorous activity three or more times a week. A code of 0 indicates that the respondent did not participate in vigorous activity three or more times a week. When respondents "don't know", refuse to answer, or answers are missing, RwVIGACT is assigned special missing values .d, .r, .m, respectively. Variables are set to special missing value .p for proxy interviews and to plain missing (.) for respondents who did not respond to the current wave.

SwVIGACT indicates whether the respondent's spouse has participated in hard physical work on average during the last two years three or more times a week and is taken directly from the spouse's RwVIGACT. In addition to the special missing codes employed by RwVIGACT, SwVIGACT employs the special missing value .u, if the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The MHAS only asks one question regarding vigorous physical activity. In the HRS, from Wave 3 (1996) to Wave 6 (2002), the HRS only asks about vigorous exercise, but does not collect information about moderate or light physical activities. Starting from Wave 7 (2004), the HRS questionnaire features a series of three questions, one concerning vigorous, one concerning moderate, and one concerning mild/light physical activity.

MHAS Variables Used

Marra 1 .

wave 1.	
C53	done hard physical work
Wave 2:	
C50	does physical work regularly
Wave 3:	
C50B_12	Last 2 years: Respondent exercise or hard physical wor
Wave 4:	
C50B_15	In the last 2 years: Respondent exercised or did hard p
Wave 5:	
C50B 18	Last 2 years: R exercised or did hard physical work 3+

Health Behaviors: Drinking

Wave	Variable	Label	Туре
1	R1DRINK	rldrink: w1 R Ever drinks any alcohol	Categ
	R2DRINK	r2drink: w2 R Ever drinks any alcohol	Categ
	R3DRINK	r3drink: w3 R Ever drinks any alcohol	Categ
			_
	R4DRINK	r4drink: w4 R Ever drinks any alcohol	Categ
5	R5DRINK	r5drink: w5 R Ever drinks any alcohol	Categ
1		sldrink: w1 S Ever drinks any alcohol	Categ
2	S2DRINK	s2drink: w2 S Ever drinks any alcohol	Categ
3	S3DRINK	s3drink: w3 S Ever drinks any alcohol	Categ
4	S4DRINK	s4drink: w4 S Ever drinks any alcohol	Categ
5	S5DRINK	s5drink: w5 S Ever drinks any alcohol	Categ
1	R1DRINKD	rldrinkd: w1 R Number of days/week drinks	Cont
2	R2DRINKD	r2drinkd: w2 R Number of days/week drinks	Cont
3	R3DRINKD	r3drinkd: w3 R Number of days/week drinks	Cont
4	R4DRINKD	r4drinkd: w4 R Number of days/week drinks	Cont
5	R5DRINKD	r5drinkd: w5 R Number of days/week drinks	Cont
1	S1DRINKD	sldrinkd: w1 S Number of days/week drinks	Cont
	S2DRINKD	s2drinkd: w2 S Number of days/week drinks	Cont
	S3DRINKD	s3drinkd: w3 S Number of days/week drinks	Cont
	S4DRINKD	s4drinkd: w4 S Number of days/week drinks	Cont
5	S5DRINKD	s5drinkd: w5 S Number of days/week drinks	Cont
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2	R2DRINKN	r2drinkn: w2 R Number of drinks/day when drinks	Cont
3	R3DRINKN	r3drinkn: w3 R Number of drinks/day when drinks	Cont
4	R4DRINKN	r4drinkn: w4 R Number of drinks/day when drinks	Cont
5	R5DRINKN	r5drinkn: w5 R Number of drinks/day when drinks	Cont
1	S1DRINKN	sldrinkn: w1 S Number of drinks/day when drinks	Cont
2	S2DRINKN	s2drinkn: w2 S Number of drinks/day when drinks	Cont
3	S3DRINKN	s3drinkn: w3 S Number of drinks/day when drinks	Cont
4	S4DRINKN	s4drinkn: w4 S Number of drinks/day when drinks	Cont
5	S5DRINKN	s5drinkn: w5 S Number of drinks/day when drinks	Cont
1	R1DRINKB	rldrinkb: wl R Ever binge drinks	Categ
2	R2DRINKB	r2drinkb: w2 R Ever binge drinks	Categ
3	R3DRINKB	r3drinkb: w3 R Ever binge drinks	Categ
4	R4DRINKB	r4drinkb: w4 R Ever binge drinks	Categ
5	R5DRINKB	r5drinkb: w5 R Ever binge drinks	Categ
1	S1DRINKB	sldrinkb: w1 S Ever binge drinks	Categ
2	S2DRINKB	s2drinkb: w2 S Ever binge drinks	Categ
3	S3DRINKB	s3drinkb: w3 S Ever binge drinks	Categ
4	S4DRINKB	s4drinkb: w4 S Ever binge drinks	Categ
5	S5DRINKB	s5drinkb: w5 S Ever binge drinks	Categ
1	R1BINGED	rlbinged: w1 R Number of days binge drinks	Cont
2	R2BINGED	r2binged: w2 R Number of days binge drinks	Cont
3	R3BINGED	r3binged: w3 R Number of days binge drinks	Cont
4	R4BINGED	r4binged: w4 R Number of days binge drinks	Cont
5	R5BINGED	r5binged: w5 R Number of days binge drinks	Cont
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Descriptive Statistics

R1DRINK	15175	0.31	0.46	0.00	1.00
R2DRINK	13700	0.26	0.44	0.00	1.00
R3DRINK	15719	0.23	0.42	0.00	1.00
R4DRINK	14770	0.23	0.42	0.00	1.00
R5DRINK	17105	0.27	0.45	0.00	1.00
S1DRINK	10641	0.34	0.47	0.00	1.00
S2DRINK	9561	0.28	0.45	0.00	1.00
S3DRINK	10588	0.26	0.44	0.00	1.00
S4DRINK	9650	0.25	0.44	0.00	1.00
S5DRINK	7635	0.27	0.44	0.00	1.00
SSDICTIVIC	7033	0.27	0.44	0.00	1.00
-1	15100	0.05	4 4 5	0.00	E 00
R1DRINKD	15102	0.35	1.17	0.00	7.00
R2DRINKD	13657	0.34	1.13	0.00	7.00
R3DRINKD	15648	0.35	1.09	0.00	7.00
R4DRINKD	14713	0.33	1.05	0.00	7.00
R5DRINKD	17021	0.41	1.12	0.00	7.00
S1DRINKD	10584	0.40	1.24	0.00	7.00
S2DRINKD	9533	0.38	1.17	0.00	7.00
S3DRINKD	10533	0.39	1.14	0.00	7.00
S4DRINKD	9607	0.38	1.10	0.00	7.00
S5DRINKD	7599	0.41	1.15	0.00	7.00
R1DRINKN	15060	0.67	2.50	0.00	70.00
R2DRINKN	13615	0.65	2.28	0.00	30.00
R3DRINKN	15663	0.65	2.56	0.00	70.00
R4DRINKN	14749	0.63	2.38	0.00	72.00
R5DRINKN	17028	0.85	3.16	0.00	82.00
S1DRINKN	10549	0.78	2.71	0.00	70.00
S2DRINKN	9501	0.74	2.42	0.00	30.00
S3DRINKN	10543	0.75	2.79	0.00	70.00
S4DRINKN	9638	0.74	2.55	0.00	72.00
S5DRINKN	7609	0.81	3.02	0.00	82.00
00011111111	, 003	0.01	0.02	0.00	02.00
R1DRINKB	15079	0.08	0.28	0.00	1.00
R2DRINKB	13638	0.08	0.27	0.00	1.00
R3DRINKB	15690	0.08	0.28	0.00	1.00
R4DRINKB	14761	0.08	0.27	0.00	1.00
R5DRINKB	17064	0.11	0.32	0.00	1.00
11021111112	1,001	0.11	0.02	0.00	1.00
S1DRINKB	10564	0.09	0.29	0.00	1.00
S2DRINKB	9511	0.09	0.29	0.00	1.00
S3DRINKB	10563	0.10	0.29	0.00	1.00
S4DRINKB	9644	0.09	0.29	0.00	1.00
S5DRINKB	7615	0.11	0.31	0.00	1.00
SSERTING	7015	0.11	0.51	0.00	1.00
D1DTNGED	1 . 0 . 7 . 0	0 01	C 40	0 00	07.00
R1BINGED	15079	0.91	6.43	0.00	87.00
R2BINGED	13638	0.71	5.09	0.00	87.00
R3BINGED	15690	0.48	3.65	0.00	87.00
R4BINGED	14761	0.49	3.82	0.00	87.00
R5BINGED	17064	0.63	4.34	0.00	87.00
			a		
S1BINGED	10564	0.99	6.47	0.00	87.00
S2BINGED	9511	0.77	5.10	0.00	87.00
S3BINGED	10563	0.54	3.90	0.00	87.00
	9644	0.55	3.81	0.00	87.00
S4BINGED					
S5BINGED	7615	0.55	3.81	0.00	87.00
R1DRINKCUT	6087	0.37	0.48	0.00	1.00
R2DRINKCUT	2300	0.44	0.50	0.00	1.00
R3DRINKCUT	3113	0.46	0.50	0.00	1.00

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R4DRINKCUT	3131	0.46	0.50	0.00	1.00
21	4510	0.00	0 40	0.00	1 00
S1DRINKCUT	4510	0.38	0.48	0.00	1.00
S2DRINKCUT	1740	0.44	0.50	0.00	1.00
S3DRINKCUT	2362	0.48	0.50	0.00	1.00
S4DRINKCUT	2283	0.48	0.50	0.00	1.00
R1DRINKCR	6085	0.24	0.42	0.00	1.00
R2DRINKCR	2294	0.21	0.41	0.00	1.00
R3DRINKCR	3112	0.20	0.40	0.00	1.00
R4DRINKCR	3132	0.21	0.41	0.00	1.00
KADKINKCK	3132	0.21	0.41	0.00	1.00
S1DRINKCR	4508	0.25	0.43	0.00	1.00
S2DRINKCR	1735	0.21	0.41	0.00	1.00
	2360				
S3DRINKCR		0.21	0.41	0.00	1.00
S4DRINKCR	2283	0.22	0.41	0.00	1.00
R1DRINKBD	6084	0.26	0.44	0.00	1.00
R2DRINKBD	2297	0.25	0.43	0.00	1.00
R3DRINKBD	3115	0.23	0.42	0.00	1.00
R4DRINKBD	3133	0.25	0.43	0.00	1.00
01 DD TITTED	4507	0.06	0 44	0.00	1 00
S1DRINKBD	4507	0.26	0.44	0.00	1.00
S2DRINKBD	1737	0.25	0.43	0.00	1.00
S3DRINKBD	2362	0.25	0.43	0.00	1.00
S4DRINKBD	2285	0.27	0.44	0.00	1.00
R1DRINKNR	6083	0.18	0.39	0.00	1.00
R2DRINKNR	2301	0.15	0.36	0.00	1.00
R3DRINKNR	3116	0.12	0.33	0.00	1.00
R4DRINKNR	3134	0.12	0.33	0.00	1.00
11111111111	0101	****	0.00	0.00	1.00
S1DRINKNR	4506	0.19	0.39	0.00	1.00
S2DRINKNR	1741	0.15	0.36	0.00	1.00
S3DRINKNR	2363	0.13	0.33	0.00	1.00
S4DRINKNR	2284	0.13	0.33	0.00	1.00
SADIVINIVIN	2204	0.13	0.33	0.00	1.00
R1CAGE	6100	1.04	1.31	0.00	4.00
R2CAGE	2304	1.04	1.19	0.00	4.00
R3CAGE	3118	1.01	1.16	0.00	4.00
R4CAGE	3135	1.04	1.18	0.00	4.00
NACAGE	3133	1.04	1.10	0.00	4.00
S1CAGE	4519	1.07	1.33	0.00	4.00
	1744	1.05	1.18	0.00	
S2CAGE					4.00
S3CAGE	2364	1.06	1.17	0.00	4.00
S4CAGE	2285	1.09	1.20	0.00	4.00
D1030714	1 = 1 0 0	0 40	1 06	0.00	4 00
R1CAGEM	15186	2.40	1.96	0.00	4.00
R2CAGEM	13704	3.33	1.49	0.00	4.00
R3CAGEM	15723	3.21	1.59	0.00	4.00
R4CAGEM	14779	3.15	1.63	0.00	4.00
			4 0 0		4 00
S1CAGEM	10648	2.31	1.97	0.00	4.00
S2CAGEM	9564	3.27	1.54	0.00	4.00
S3CAGEM	10592	3.11	1.66	0.00	4.00
S4CAGEM	9652	3.05	1.70	0.00	4.00
Categorical Variable Codes					

Value	RIDRINK	RZDRINK	R3DRINK	R4DR1NK	RSDRINK
.d:DK	3	3	2	2	3
.m:Missing	4			6	
.r:Refuse	4	1	2	1	6
0.no	10441	10159	12147	11382	12414

1.yes	4734	3541	3572	3388	4691
Value	S1DRINK	S2DRINK	S3DRINK	S4DRINK	S5DRINK
.d:DK	2	3	2	1	1
.m:Missing	3			1	
.r:Refuse	2		2		2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	7032	6863	7887	7197	5578
1.yes	3609	2698	2701	2453	2057
		- 0	- 0		
Value		R2DRINKB	R3DRINKB	R4DRINKB	R5DRINKB
.d:DK	73	58	28	9	31
.m:Missing	4 30	8	5	3	19
.r:Refuse 0.no	13824	12518	14378	13551	15150
1.yes	1255	1120	1312	1210	1914
1.469	1233	1120	1312	1210	1914
Value	S1DRINKB	S2DRINKB	S3DRINKB	S4DRINKB	S5DRINKB
.d:DK	58	47	25	5	11
.m:Missing	3			1	
.r:Refuse	23	6	4	2	12
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.no	9567	8620	9556	8729	6795
1.yes	997	891	1007	915	820
Value	R1DRINKCUT	R2DRINKCUT	R3DRINKCUT	R4DRINKCUT	
.d:DK	55	7	4	4	
.m:Missing	4	1	-	6	
.n:does not drink	8455	10378	11506	10831	
.p:Proxy interview, not asked	523	1015	1092	804	
r:Refuse	62	3	8	3	
0.no	3841	1288	1678	1685	
1.yes	2246	1012	1435	1446	
Value	01 DD TNIKOUE	CODDINICIE	0.300 THEOLEM	O A DD TAWOUM	
.d:DK		S2DRINKCUT 7	S3DRINKCUT 2	S4DRINKCUT 3	
.m:Missing	44	1	۷	3 1	
.n:does not drink	5678	7102	7588	6944	
.p:Proxy interview, not asked	365	712	636	420	
r:Refuse	48	2	4	1	
.u:Unmar	4205	4009	4782	4847	
.v:SP NR	333	131	349	280	
0.no	2806	969	1217	1179	
1.yes	1704	771	1145	1104	
77.1	D1DDTNIKAD	DODDINKOD	DODTHIOD	D ADD THEOD	
Value .d:DK	R1DRINKCR 57	R2DRINKCR 9	R3DRINKCR 4	R4DRINKCR	
.m:Missing		2	4	5 6	
.n:does not drink	4 8455	10378	11506	10831	
.p:Proxy interview, not asked	523	1015	1092	804	
.r:Refuse	62	6	9	3	
0.no	4650	1817	2494	2481	
1.yes	1435	477	618	651	
1	A = = = = = = = = = = = = = = = = = = =	00	00	0.4========	
Value		S2DRINKCR	S3DRINKCR	S4DRINKCR	
.d:DK .m:Missing	48	9	2	3 1	
.n:does not drink	5678	7102	7588	6944	
.p:Proxy interview, not asked	365	712	636	420	
.r:Refuse	46	4	6	1	
.u:Unmar	4205	4009	4782	4847	
.v:SP NR	333	131	349	280	
0.no	3401	1371	1871	1788	
1.yes	1107	364	489	495	
		- 0	-0		
Value		R2DRINKBD	R3DRINKBD	R4DRINKBD	
.d:DK	58	6	2	1	
.m:Missing	4	10270	11500	10021	
.n:does not drink	8455	10378	11506	10831	
<pre>.p:Proxy interview, not asked .r:Refuse</pre>	523 62	1015 6	1092 8	804 4	
* T * T/CT M9C	02	Ö	0	4	

0.no	4521	1724	2409	2364
1.yes	1563	573	706	769
Value	S1DRINKBD	S2DRINKBD	S3DRINKBD	S4DRINKBD
.d:DK	1 48	6	2	1
.m:Missing	1 3	2	_	1
.n:does not drink	5678	7102	7588	6944
.p:Proxy interview, not asked	365	712	636	420
.r:Refuse	1 47	5	4	1
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
0.no	3325	1302	1780	1679
1.yes	1182	435	582	606
Value	R1DRINKNR	R2DRINKNR	R3DRINKNR	R4DRINKNF
.d:DK	55	4	1	1
.m:Missing	4	2		6
.n:does not drink	8455	10378	11506	10831
.p:Proxy interview, not asked	523	1015	1092	804
.r:Refuse	66	4	8	3
0.no	4974	1957	2738	2750
1.yes	1109	344	378	384
Value	S1DRINKNR	S2DRINKNR	S3DRINKNR	S4DRINKNE
.d:DK	45	4	1	1
.m:Missing	1 3	2		1
.n:does not drink	5678	7102	7588	6944
.p:Proxy interview, not asked	365	712	636	420
.r:Refuse	51	3	4	2
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
0.no	3644	1483	2063	1992
1.yes	862	258	300	292

How Constructed

RwDRINK is a yes/no indicator for whether the respondent ever drinks alcoholic beverages, such as beer, wine, liquor, or pulque. A code of 0 indicates that the respondent does not ever have an alcoholic drink. A code of 1 indicates that the respondent does ever have an alcoholic drink. When respondents don't know, refuse to answer, or answers are missing, RwDRINK is assigned special missing values .d, .r, .m, respectively. RwDRINK is set to plain missing (.) for respondents who did not respond to the current wave.

RwDRINKD indicates the number of days per week the respondent drinks. RwDRINKN indicates the number of drinks the respondent has when they drink. A code of 0 was assigned if the respondent reported they never have an alcoholic drink (this is if RwDRINK is 0). When respondents don't know, refuse to answer, or answers are missing, RwDRINKD and RwDRINKN are assigned special missing values .d, .r, .m, respectively. RwDRINKD and RwDRINKN are set to plain missing (.) for respondents who did not respond to the current wave.

RwDRINKB indicates whether the respondent ever binge drinks. RwBINGED indicates the number of days the respondent reports binge drinking in the last 3 months. Binge drinking is determined by the question: "In the last three months, on how many days have you had four or more drinks on one occasion?". If the respondent reports an answer of "no" to this question, reports never drinking, or reports drinking 0 days per week in the last 3 months, then RwDRINKB is coded as 0.No, and RwBINGED is coded as 0. If the respondent reports a number of 1 or greater to this question, then RwDRINKB is coded as 1.Yes and RwBINGED takes the numerical value. If RwBINGED is coded as 87, it indicates that the respondent "drinks 87 days or more". Don't know, refused, or other missing responses of RwDRINKB and RwBINGED are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwDRINKCUT, RwDRINKCR, RwDRINKBD, and RwDRINKNR indicate the respondent's feelings about their drinking habits. RwDRINKCUT indicates whether the respondent has ever felt that they should cut down on their drinking. RwDRINKCR indicates whether people have ever annoyed the respondent by criticizing their drinking. RwDRINKBD indicates whether the respondent has ever felt bad or guilty about drinking. RwDRINKNR indicates whether the respondent has ever taken a drink first thing in the morning to steady their nerves or get rid of a hangover. These variables are coded as 0.No and 1.Yes. RwCAGE is a summary variable for the respondent's feelings about their drinking habits. RwCAGE is equal to RwDRINKCUT +

RwDRINKCR + RwDRINKBD + RwDRINKNR. RwCAGEM indicates the number of variables missing in the calculation of RwCAGE. RwCAGE is calculated as long as at least one of the component variables is not missing. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwdRINK, SwdRINKD, SwdRINKN, SwdRINKB, SwBINGED, SwdRINKCUT, SwdRINKCR, SwdRINKBD, SwdRINKNR, SwCAGE, and SwCAGEM record the respondent's spouse's drinking behavior and are taken directly from the spouse's RwdRINK, RwdRINKD, RwdRINKB, RwbRINKB, RwbRINKCUT, RwdRINKCR, RwdRINKCR, RwdRINKNR, RwCAGE, and RwCAGEM variables. In addition to the special missing codes used in the respondent variables, the spouse variables employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the RAND HRS, the variable RwDRINK is constructed using the original HRS question "Do you ever drink any alcoholic beverages, such as beer, wine, or liquor?" It is worth mentioning that in the MHAS they also ask about pulque (alcohol made from fermented cactus sap). Also different to the HRS, when respondents are asked about how many days have they had four or more drinks on one occasion, the maximum allowed is 87 in the MHAS instead of 92 in the HRS.

Wave 1:	
C60	drink now
C61	how often drink
C62	how much drink
Wave 2:	
C59A	currently drink alcohol
C59B	days per week drank alcohol in last three months
C59C	number of drinks a day
Wave 3:	
C59A_12	Respondent currently drinks alcohol
C59B_12	Last 3 months: Number of days per week he/she drank alc
C59C_12	Last 3 months: Number of alcoholic beverages per day
C59D_12	Last 3 months: Number of days with >= 4 drinks in one o
C59E_12	Last 2 years: Respondent drank alcohol
C60_12	Did/Has respondent consider(ed) drinking less
C61_12	Respondent annoyed by criticism about drinking alcohol
C62_12	Has respondent felt bad because h/she drank
C63_12	Does respondent drink alcohol in the morning to calm ne
Wave 4:	
C59A_15	Does respondent currently drinks alcohol
C59B_15	In the last 3 months: Number of days per week he/she dr
C59C_15	In the last 3 months: Number of alcoholic beverages per
C59D_15	In the last 3 months: Number of days with 4 or more dri
C59E_15	In the last 2 years: Did respondent had any alcohol
C60_15	Has respondent considered drinking less
C61_15	Has respondent ever been annoyed by criticism about dri
C62_15	Has respondent feel bad because h/she drank
C63_15	Does respondent drink alcohol in the morning to calm ne
Wave 5:	
C59A_18	Does R currently drinks alcohol
C59B_18	In the last 3 months: Number of days per week he/she dr
C59C_18	In the last 3 months: Number of alcoholic beverages per
C59D_18	In the last 3 months: Number of days with 4 or more dri

Health Behaviors: Smoking (Cigarettes)

Wave	Variable	Label	Туре
1	R1SMOKEV	rlsmokev: wl R Ever smoked	Categ
	R2SMOKEV	r2smokev: w2 R Ever smoked	Categ
	R3SMOKEV	r3smokev: w3 R Ever smoked	Categ
4	R4SMOKEV	r4smokev: w4 R Ever smoked	Categ
5		r5smokev: w5 R Ever smoked	_
5	R5SMOKEV	rosmokev: wo k Ever smoked	Categ
1	S1SMOKEV	s1smokev: w1 S Ever smoked	Categ
2	S2SMOKEV	s2smokev: w2 S Ever smoked	Categ
3	S3SMOKEV	s3smokev: w3 S Ever smoked	Categ
4	S4SMOKEV	s4smokev: w4 S Ever smoked	Categ
5	S5SMOKEV	s5smokev: w5 S Ever smoked	Categ
1	R1SMOKEN	r1smoken: w1 R Smokes now	Catas
2	R2SMOKEN	r2smoken: w2 R Smokes now	Categ
			Categ
3	R3SMOKEN	r3smoken: w3 R Smokes now	Categ
4	R4SMOKEN	r4smoken: w4 R Smokes now	Categ
5	R5SMOKEN	r5smoken: w5 R Smokes now	Categ
1	S1SMOKEN	slsmoken: w1 S Smokes now	Categ
2	S2SMOKEN	s2smoken: w2 S Smokes now	Categ
3	S3SMOKEN	s3smoken: w3 S Smokes now	Categ
4	S4SMOKEN	s4smoken: w4 S Smokes now	Categ
5	S5SMOKEN	s5smoken: w5 S Smokes now	Categ
1	R1SMOKEF	rlsmokef: wl R Number of cigarettes/day	Cont
2	R2SMOKEF	r2smokef: w2 R Number of cigarettes/day	Cont
3	R3SMOKEF	r3smokef: w3 R Number of cigarettes/day	Cont
4	R4SMOKEF	r4smokef: w4 R Number of cigarettes/day	Cont
5	R5SMOKEF	r5smokef: w5 R Number of cigarettes/day	Cont
9	RODFIOREI	100moker. wo k Number of Ergaretees, day	COIIC
1	S1SMOKEF	slsmokef: wl S Number of cigarettes/day	Cont
2	S2SMOKEF	s2smokef: w2 S Number of cigarettes/day	Cont
3	S3SMOKEF	s3smokef: w3 S Number of cigarettes/day	Cont
4	S4SMOKEF	s4smokef: w4 S Number of cigarettes/day	Cont
5	S5SMOKEF	s5smokef: w5 S Number of cigarettes/day	Cont
1	D1 CEDECMOR	wlatutamaka wil D Bas atautad amaking	Comb
1	R1STRTSMOK	rlstrtsmok: wl R Age started smoking	Cont
2	R2STRTSMOK	r2strtsmok: w2 R Age started smoking	Cont
3	R3STRTSMOK	r3strtsmok: w3 R Age started smoking	Cont
4	R4STRTSMOK	r4strtsmok: w4 R Age started smoking	Cont
5	R5STRTSMOK	r5strtsmok: w5 R Age started smoking	Cont
1	S1STRTSMOK	s1strtsmok: w1 S Age started smoking	Cont
2	S2STRTSMOK	s2strtsmok: w2 S Age started smoking	Cont
3	S3STRTSMOK	s3strtsmok: w3 S Age started smoking	Cont
4	S4STRTSMOK	s4strtsmok: w4 S Age started smoking	Cont
5	S5STRTSMOK	s5strtsmok: w5 S Age started smoking	Cont
1	R1QUITSMOK	rlquitsmok: wl R Age quit smoking	Cont
	R2QUITSMOK	r2quitsmok: w2 R Age quit smoking	Cont
3	R3QUITSMOK	r3quitsmok: w3 R Age quit smoking	Cont
4	R4QUITSMOK	r4quitsmok: w4 R Age quit smoking	Cont
5	R5QUITSMOK	r5quitsmok: w5 R Age quit smoking	Cont
	_		
1	S1QUITSMOK	slquitsmok: w1 S Age quit smoking	Cont
2	S2QUITSMOK	s2quitsmok: w2 S Age quit smoking	Cont
3	S3QUITSMOK	s3quitsmok: w3 S Age quit smoking	Cont
4	S4QUITSMOK	s4quitsmok: w4 S Age quit smoking	Cont
5	S5QUITSMOK	s5quitsmok: w5 S Age quit smoking	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SMOKEV	15173	0.43	0.50	0.00	1.00
R2SMOKEV	13695	0.41	0.49	0.00	1.00
R3SMOKEV	15718	0.37	0.48	0.00	1.00
R4SMOKEV	14759	0.40	0.49	0.00	1.00
R5SMOKEV	17100	0.40	0.49	0.00	1.00
KJSMOKEV	1/100	0.37	0.40	0.00	1.00
S1SMOKEV	10640	0.44	0.50	0.00	1.00
S2SMOKEV	9558	0.43	0.50	0.00	1.00
S3SMOKEV	10589	0.39	0.49	0.00	1.00
S4SMOKEV	9645	0.42	0.49	0.00	1.00
S5SMOKEV	7631	0.39	0.49	0.00	1.00
-10	15160	0.45	0.00	0.00	1 00
R1SMOKEN	15169	0.17	0.38	0.00	1.00
R2SMOKEN	13693	0.16	0.37	0.00	1.00
R3SMOKEN	15717	0.12	0.32	0.00	1.00
R4SMOKEN	14759	0.12	0.32	0.00	1.00
R5SMOKEN	17096	0.11	0.32	0.00	1.00
S1SMOKEN	10636	0.18	0.39	0.00	1.00
S2SMOKEN	9556	0.17	0.38	0.00	1.00
S3SMOKEN	10588	0.13	0.33	0.00	1.00
S4SMOKEN	9645	0.13	0.33	0.00	1.00
S5SMOKEN	7629	0.12	0.33	0.00	1.00
SSMOKEN	1029	0.11	0.31	0.00	1.00
R1SMOKEF	15169	1.57	6.13	0.00	99.00
R2SMOKEF	13693	1.09	4.64	0.00	99.00
R3SMOKEF	15706	0.72	3.38	0.00	100.00
R4SMOKEF	14755	0.65	3.00	0.00	60.00
R5SMOKEF	17093	0.59	2.92	0.00	87.00
S1SMOKEF	10636	1.63	6.02	0.00	99.00
S2SMOKEF S2SMOKEF	9556	1.21	5.05	0.00	99.00
	10581	0.75	3.47	0.00	100.00
S3SMOKEF	9642	0.75	3.03	0.00	60.00
S4SMOKEF					
S5SMOKEF	7628	0.60	3.18	0.00	87.00
R1STRTSMOK	5888	20.58	9.75	9.00	85.00
R2STRTSMOK	6461	20.71	9.75	8.00	85.00
R3STRTSMOK	6890	20.18	8.86	1.00	75.00
R4STRTSMOK	7125	20.32	8.89	1.00	84.00
R5STRTSMOK	7730	20.14	8.55	1.00	84.00
01 OED E 21/21	4004	10.00	0.00	0.00	77 00
S1STRTSMOK	4284	19.88	8.80	9.00	77.00
S2STRTSMOK	4728	20.04	8.91	8.00	77.00
S3STRTSMOK	4789	19.40	8.09	1.00	75.00
S4STRTSMOK	4886	19.65	8.20	1.00	75.00
S5STRTSMOK	3937	19.71	8.16	1.00	76.00
R1QUITSMOK	3310	18.12	13.59	1.00	75.00
R2QUITSMOK	4117	18.21	13.47	1.00	76.00
R3OUITSMOK	4769	23.96	16.58	1.00	84.00
R4QUITSMOK	5360	37.69	18.49	1.00	99.00
R5QUITSMOK	5824	39.65	17.20	1.00	99.00
~					-
S1QUITSMOK	2378	17.74	13.36	1.00	70.00
S2QUITSMOK	2985	17.81	13.24	1.00	76.00
S3QUITSMOK	3281	24.14	16.36	1.00	81.00
S4QUITSMOK	3661	37.26	17.71	1.00	99.00
S5QUITSMOK	3143	39.95	17.34	1.00	99.00

Categorical Variable Codes

Value	R1SMOKEV	R2SMOKEV	R3SMOKEV	R4SMOKEV	R5SMOKEV
.d:DK	8	7	4	9	9
.m:Missing	4			6	
.r:Refuse	1	2	1	5	5
0.No	8652	8047	9957	8911	10800
1.Yes	6521	5648	5761	5848	6300
Value	S1SMOKEV	S2SMOKEV	S3SMOKEV	S4SMOKEV	S5SMOKEV
.d:DK	4	5	2	3	5
.m:Missing	3			1	
.r:Refuse	1	1	1	3	2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	5906	5427	6482	5628	4666
1.Yes	4734	4131	4107	4017	2965
Value	R1SMOKEN	R2SMOKEN	R3SMOKEN	R4SMOKEN	R5SMOKEN
.d:DK	11	9	4	9	11
.m:Missing	4			6	
.r:Refuse	2	2	2	5	7
0.No	12522	11493	13841	13053	15136
1.Yes	2647	2200	1876	1706	1960
Value	S1SMOKEN	S2SMOKEN	S3SMOKEN	S4SMOKEN	S5SMOKEN
.d:DK	7	7	2	3	7
.m:Missing	3			1	
.r:Refuse	2	1	2	3	2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	8679	7914	9248	8461	6827
1.Yes	1957	1642	1340	1184	802

How Constructed

RwSMOKEV indicates whether the respondent ever smoked cigarettes. A code of 0 indicates that the respondent has never smoked. A code of 1 indicates that the respondent has ever smoked. When respondents don't know, refuse to answer, or answers are missing, RwSMOKEV is assigned special missing values .d, .r, .m, respectively. RwSMOKEV is set to plain missing (.) for respondents who did not respond to the current wave.

RwSMOKEN indicates whether the respondent reports currently smoking. This question is only asked if the respondent reports having ever smoked. If the respondent reports they have never smoked, RwSMOKEN is assigned a code of 0. A code of 0 indicates that the respondent does not currently smoke. A code of 1 indicates that the respondent currently smokes. When respondents don't know, refuse to answer, or answers are missing, RwSMOKEN is assigned special missing values .d, .r, .m, respectively. RwSMOKEN is set to plain missing (.) for respondents who did not respond to the current wave.

RwSMOKEF indicates the number of cigarettes the respondent usually smokes in a day. In Waves 1 and 2, respondents can report the number of cigarettes or the number of packs, and these responses are then converted to the number of cigarettes in the MHAS data. Starting in Wave 3, respondents can report the number of cigarettes or the number of packs which is converted to cigarettes for RwSMOKEF by multiplying the number of packs by 20. This question is only asked if the respondent reports having ever smoked and currently smoking. If the respondent reports they have never smoked or do not currently smoke, RwSMOKEF is assigned a code of 0. When respondents don't know, refuse to answer, or answers are missing RwSMOKEF is assigned special missing values .d, .r, .m, respectively. RwSMOKEF is set to plain missing (.) for respondents who did not respond to the current wave.

RWSTRTSMOK indicates the age at which the respondent started smoking. In Waves 1 and 2, respondents are asked the year or age they started smoking, and these responses are then converted to the age in the MHAS data. In Wave 3, respondents can report the age at which they started smoking, or the year in which they started smoking. Starting in Wave 4, respondents can report the age at which they started smoking, the number of years ago they started smoking, or the year in which they started smoking. If the respondent reports the number of years ago they started smoking, this value is subtracted from the respondent's age at the time of interview. If the respondent reports the year in which they started smoking, the

respondent's birth year is subtracted from this value to obtain the age at which the respondent started smoking. If the calculated age started smoking takes a value of less than 1, or if the reported age is higher than the respondent's age at the current wave, then RwSTRTSMOK is assigned special missing value i. If the respondent reports multiple ages that they started smoking across waves, the first reported value is used. RwSTRTSMOK is assigned special missing .n if the respondent reports never smoking. Don't know, refused, or other missing responses of RwSTRTSMOK are assigned special missing codes .d, .r, and .m, respectively. RwSTRTSMOK is set to plain missing (.) for respondents who did not participate in the current wave.

RwQUITSMOK indicates the age at which the respondent quit smoking. In Waves 1 and 2, respondents are asked the year or age they quit smoking, and these responses are then converted to the age in the MHAS data. In Wave 3, respondents can report the age at which they quit smoking, or the year in which they quit smoking. Starting in Wave 4, respondents can report the age at which they quit smoking, the number of years ago they quit smoking, or the year in which they quit smoking. If the respondent reports the number of years ago they quit smoking, this value is subtracted from the respondent's age at the time of interview. If the respondent reports the year in which they quit smoking, the respondent's birth year is subtracted from this value to obtain the age at which the respondent quit smoking. If the calculated age quit smoking takes a value of less than 1, or if the reported age is higher than the respondent's age at the current wave, then RwQUITSMOK is assigned special missing value .i. RwQUITSMOK is assigned special missing .n if the respondent reports never smoking. RwQUITSMOK is assigned special missing codes .d, .r, and .m, respectively. RwQUITSMOK is set to plain missing (.) for respondents who did not participate in the current wave.

SwSMOKEV, SwSMOKEN, SwSMOKEF, SwSTRTSMOK, and SwQUITSMOK record the respondent's spouse's smoking behavior and are taken directly from the spouse's RwSMOKEV, RwSMOKEN, RwSMOKEF, RwSTRTSMOK, and RwQUITSMOK variables. In addition to the special missing codes used in RwSMOKEV, RwSMOKEN, RwSMOKEF, RwSTRTSMOK, and RwQUITSMOK; SwSMOKEV, SwSMOKEN, SwSMOKEF, SwSTRTSMOK, and SwQUITSMOK employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In all waves the respondent can report the amount smoked per day by reporting the number of cigarettes or number of packs, but the number of packs is converted to the number of cigarettes in the original MHAS data in Waves 1 and 2.

In all waves the respondent can report the year or age they started smoking, but the year the respondent started smoking is converted to the age in the original MHAS data in Waves 1 and 2. Starting in Wave 4, respondent can also report the number of years ago they started smoking.

In all waves the respondent can report the year or age they quit smoking, but the year the respondent quit smoking is converted to the age in the original MHAS data in Waves 1 and 2. Starting in Wave 4, respondent can also report the number of years ago they quit smoking.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:	
C54	ever smoked
C55	smoke now
C56	how much smoke
C57	age first smoke
C59	years not smoking
Wave 2:	
C51	ever smoked cigarettes
C52	how old when started smoking
C53	smoked cigarettes since 2001
C54	smoke cigarettes now

C56 C58	how many cigarettes/packs a day how many years smoked
Wave 3:	
C51_12	Has respondent ever smoked cigarettes
C52_1_12	Age respondent started smoking
C52_2_12	Year respondent started smoking
C53_12	Last 2 years: Respondent smoked cigarettes
C54_12	Does respondent currently smoke cigarettes
C56_1_12	Respondent's number of cigarettes smoked daily
C56_2_12	Respondent number of cigarette pack(s) smoked daily
C58_1_12	How many years ago did respondent stop smoking, Or
C58_2_12	Year when respondent stopped smoking
Wave 4:	
C51_15	Has respondent ever smoked cigarettes
C52_1_15	Respondent age when he/she started smoking
C52_2_15	Year respondent started smoking
C53_15	In the last 2 years: Did respondent smoked cigarettes
C54_15	Does respondent currently smoke cigarettes
C56_15	Respondent's number of cigarettes smoked daily
C58_1_15	Total number of years since the respondent stoped smoki
C58_2_15	Year when respondent stopped smoking
Wave 5:	
C51_18	Has R ever smoked cigarettes
C52 1 18	R age when he/she started smoking
C52 2 18	Year R started smoking
C52 3 18	Total number of years R has smoked
C53 18	In the last 2 years: Did R smoked cigarettes
C54 18	Does R currently smoke cigarettes
C56 18	R's number of cigarettes smoked daily
C58 1 18	Total number of years since the R stoped smoking
C58 2 18	Year when R stopped smoking
C58_3_18	R's age when he/she stopped smoking

Health Behaviors: Preventive Care

Wave	Variable	Label	Туре
1	R1CHOLST	rlcholst: w1 R Prev Care: Cholesterol	Categ
	R2CHOLST	r2cholst: w2 R Prev Care: Cholesterol	Categ
	R3CHOLST	r3cholst: w3 R Prev Care: Cholesterol	Categ
	R4CHOLST	r4cholst: w4 R Prev Care: Cholesterol	Categ
5	R5CHOLST	r5cholst: w5 R Prev Care: Cholesterol	Categ
J	NJCHOLD1	ischoist. WS K flev Cale. Cholesteloi	categ
1	S1CHOLST	slcholst: w1 S Prev Care: Cholesterol	Categ
2	S2CHOLST	s2cholst: w2 S Prev Care: Cholesterol	Categ
3	S3CHOLST	s3cholst: w3 S Prev Care: Cholesterol	Categ
4	S4CHOLST	s4cholst: w4 S Prev Care: Cholesterol	Categ
5	S5CHOLST	s5cholst: w5 S Prev Care: Cholesterol	Categ
	R3FLUSHT	r3flusht: w3 R Prev Care: Flu shot	Categ
	R4FLUSHT	r4flusht: w4 R Prev Care: Flu shot	Categ
5	R5FLUSHT	r5flusht: w5 R Prev Care: Flu shot	Categ
3	S3FLUSHT	s3flusht: w3 S Prev Care: Flu shot	Categ
4	S4FLUSHT	s4flusht: w4 S Prev Care: Flu shot	Categ
5	S5FLUSHT	s5flusht: w5 S Prev Care: Flu shot	Categ
	R1BREAST	rlbreast: wl R Prev Care: Breast Check	Categ
	R2BREAST	r2breast: w2 R Prev Care: Breast Check	Categ
	R3BREAST	r3breast: w3 R Prev Care: Breast Check	Categ
	R4BREAST	r4breast: w4 R Prev Care: Breast Check	Categ
5	R5BREAST	r5breast: w5 R Prev Care: Breast Check	Categ
1	S1BREAST	slbreast: w1 S Prev Care: Breast Check	Categ
2	S2BREAST	s2breast: w2 S Prev Care: Breast Check	Categ
3	S3BREAST	s3breast: w3 S Prev Care: Breast Check	Categ
4	S4BREAST	s4breast: w4 S Prev Care: Breast Check	Categ
5	S5BREAST	s5breast: w5 S Prev Care: Breast Check	Categ
1	R1MAMMOG	rlmammog: wl R Prev Care: Mammogram	Categ
2	R2MAMMOG	r2mammog: w2 R Prev Care: Mammogram	Categ
3	R3MAMMOG	r3mammog: w3 R Prev Care: Mammogram	Categ
4	R4MAMMOG	r4mammog: w4 R Prev Care: Mammogram	Categ
5	R5MAMMOG	r5mammog: w5 R Prev Care: Mammogram	Categ
1	S1MAMMOG	s1mammog: w1 S Prev Care: Mammogram	Cateq
2	S2MAMMOG	s2mammog: w2 S Prev Care: Mammogram	Categ
3	S3MAMMOG	s3mammog: w3 S Prev Care: Mammogram	Categ
4	S4MAMMOG	s4mammog: w4 S Prev Care: Mammogram	Categ
5	S5MAMMOG	s5mammog: w5 S Prev Care: Mammogram	Categ
1	R1PAPSM	rlpapsm: wl R Prev Care: Pap Smear	Categ
	R2PAPSM	r2papsm: w2 R Prev Care: Pap Smear	Categ
	R3PAPSM	r3papsm: w3 R Prev Care: Pap Smear	Categ
	R4PAPSM	r4papsm: w4 R Prev Care: Pap Smear	Categ
5	R5PAPSM	r5papsm: w5 R Prev Care: Pap Smear	Categ
1	G1 D7 DGM	alasa and all G. David Garage David	0-1
1	S1PAPSM	slpapsm: w1 S Prev Care: Pap Smear	Categ
	S2PAPSM	s2papsm: w2 S Prev Care: Pap Smear	Categ
	S3PAPSM	s3papsm: w3 S Prev Care: Pap Smear	Categ
	S4PAPSM	s4papsm: w4 S Prev Care: Pap Smear	Categ
5	S5PAPSM	s5papsm: w5 S Prev Care: Pap Smear	Categ
1	R1PROST	rlprost: w1 R Prev Care: Prostate	Categ
2	R2PROST	r2prost: w2 R Prev Care: Prostate	Categ
3	R3PROST	r3prost: w3 R Prev Care: Prostate	Categ

	R4PROST R5PROST	r4prost: w4 R Prev Car5prost: w5 R Prev Ca		Categ Categ
1	S1PROST	slprost: w1 S Prev Ca	are: Prostate	Categ
2	S2PROST	s2prost: w2 S Prev Ca	are: Prostate	Categ
3	S3PROST	s3prost: w3 S Prev Ca	are: Prostate	Categ
4	S4PROST	s4prost: w4 S Prev Ca	are: Prostate	Categ
5	S5PROST	s5prost: w5 S Prev Ca	are: Prostate	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1CHOLST	14076	0.52	0.50	0.00	1.00
R2CHOLST	12474	0.54	0.50	0.00	1.00
R3CHOLST					
	14413	0.69	0.46	0.00	1.00
R4CHOLST	14749	0.70	0.46	0.00	1.00
R5CHOLST	17069	0.66	0.47	0.00	1.00
S1CHOLST	9937	0.51	0.50	0.00	1.00
S2CHOLST	8707	0.54	0.50	0.00	1.00
S3CHOLST	9846	0.69	0.46	0.00	1.00
S4CHOLST	9636	0.69	0.46	0.00	1.00
S5CHOLST	7620	0.67	0.47	0.00	1.00
R3FLUSHT	14386	0.60	0.49	0.00	1.00
R4FLUSHT	14703	0.60	0.49	0.00	1.00
R5FLUSHT	17050	0.54	0.50	0.00	1.00
KJFLOJIII	17030	0.54	0.50	0.00	1.00
S3FLUSHT	9830	0.60	0.49	0.00	1.00
S4FLUSHT	9618	0.60	0.49	0.00	1.00
S5FLUSHT	7613	0.57	0.50	0.00	1.00
R1BREAST	8163	0.39	0.49	0.00	1.00
R2BREAST	7341	0.43	0.49	0.00	1.00
R3BREAST	8461	0.61	0.49	0.00	1.00
R4BREAST	8103	0.59	0.49	0.00	1.00
R5BREAST	9195	0.62	0.49	0.00	1.00
S1BREAST	5094	0.41	0.49	0.00	1.00
S2BREAST	4502	0.46	0.49	0.00	1.00
S3BREAST	5024	0.65	0.48	0.00	1.00
S4BREAST	4624	0.63			
-			0.48	0.00	1.00
S5BREAST	3592	0.63	0.48	0.00	1.00
R1MAMMOG	8152	0.21	0.41	0.00	1.00
R2MAMMOG	7340	0.24	0.42	0.00	1.00
R3MAMMOG	8460	0.52	0.50	0.00	1.00
R4MAMMOG	8101	0.54	0.50	0.00	1.00
R5MAMMOG	9198	0.54	0.50	0.00	1.00
S1MAMMOG	5093	0.23	0.42	0.00	1.00
S2MAMMOG S2MAMMOG	4503	0.24	0.43	0.00	1.00
S3MAMMOG S3MAMMOG	5023	0.55	0.50	0.00	1.00
	4622	0.59		0.00	
S4MAMMOG			0.49		1.00
S5MAMMOG	3595	0.56	0.50	0.00	1.00
R1PAPSM	8083	0.65	0.48	0.00	1.00
R2PAPSM	7310	0.63	0.48	0.00	1.00
R3PAPSM	8349	0.70	0.46	0.00	1.00
R4PAPSM	7958	0.65	0.48	0.00	1.00
R5PAPSM	9185	0.58	0.49	0.00	1.00
C1 D3 DCM	5047	0 60	0.46	0.00	1 00
S1PAPSM	5047	0.68	0.46	0.00	1.00

S2PAPSM	4485	0.68	0.47	0.00	1.00	
S3PAPSM	4968	0.76	0.43	0.00	1.00	
S4PAPSM	4553	0.72	0.45	0.00	1.00	
S5PAPSM	3591	0.60	0.49	0.00	1.00	
R1PROST	5756	0.17	0.38	0.00	1.00	
R2PROST	4988	0.21	0.41	0.00	1.00	
R3PROST	5886	0.31	0.46	0.00	1.00	
R4PROST	5620	0.31	0.46	0.00	1.00	
R5PROST	6402	0.29	0.45	0.00	1.00	
S1PROST	4718	0.17	0.38	0.00	1.00	
S2PROST	4099	0.22	0.41	0.00	1.00	
S3PROST	4777	0.32	0.47	0.00	1.00	
S4PROST	4469	0.32	0.47	0.00	1.00	
S5PROST	3370	0.32	0.47	0.00	1.00	

Categorical Variable Codes

Value .d:DK	R1CHOLST 58	R2CHOLST 50	R3CHOLST 32	R4CHOLST 15	R5CHOLST 16
.m:Missing	4			2	
.p:Proxy interview, not asked	1032	1178	1275	11	18
.r:Refuse	16	2	3	2	11
0.No	6714	5779	4463	4490	5800
1.Yes	7362	6695	9950	10259	11269
Value	S1CHOLST	S2CHOLST	S3CHOLST	S4CHOLST	S5CHOLST
.d:DK	35	35	19	8	8
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	6	9
.r:Refuse	13	1	1	2	1
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR 0.No	333 4831	131 4023	349 3036	280 2940	501 2496
1.Yes	5106	4684	6810	6696	5124
1.les	3106	4004	9010	0090	3124
Value			R3FLUSHT	R4FLUSHT	R5FLUSHT
.d:DK			58	35	21
.m:Missing				2	
.p:Proxy interview, not asked			1275	37	36
.r:Refuse			4	2	7
0.No			5751	5881	7758
1.Yes			8635	8822	9292
Value			S3FLUSHT	S4FLUSHT	S5FLUSHT
.d:DK			33	18	10
.p:Proxy interview, not asked			726	16	13
.r:Refuse			3		2
.u:Unmar			4782	4847	5227
.v:SP NR			349	280	501
0.No			3957	3866	3287
1.Yes			5873	5752	4326
Value	R1BREAST	R2BREAST	R3BREAST	R4BREAST	R5BREAST
.d:DK	12	4	5	8	18
.m:Missing	72	15	5	1	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	24	9	10	2	17
.x:does not have (organ)	5883	5157	5967	5736	6556
0.No	4993	4218	3260	3353	3537
1.Yes	3170	3123	5201	4750	5658
Value	S1BREAST	S2BREAST	S3BREAST	S4BREAST	S5BREAST
.d:DK	8	2	1	3	11
.m:Missing	46	9	4		_ 4 -
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	15	7	5	1	8
.u:Unmar	4205	4009	4782	4847	5227

Section B: Health					224
.v:SP NR	333	131	349	280	501
.x:does not have (organ)	4825	4223	4832	4554	3464
0.No	3009	2430	1740	1699	1347
1.Yes	2085	2072	3284	2925	2245
Value	R1MAMMOG	R2MAMMOG	R3MAMMOG	R4MAMMOG	R5MAMMOG
.d:DK	18	10	5	7	16
.m:Missing	72	15	5	1	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	31	5	10	2	16
.x:does not have (organ)	5881	5156	5968	5739	6556
0.No	6412	5614	4091	3753	4240
1.Yes	1740	1726	4369	4348	4958
Value	S1MAMMOG	S2MAMMOG	S3MAMMOG	S4MAMMOG	S5MAMMOG
.d:DK	8	4	2	3	11
.m:Missing	46	9	4	470	5.60
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse .u:Unmar	18 4205	4 4 0 0 9	4 4782	2 4847	5 5227
.v:SP NR	333	131	349	280	501
.x:does not have (organ)	4823	4223	4833	4555	3464
0.No	3945	3412	2275	1905	1579
1.Yes	1148	1091	2748	2717	2016
Value	R1PAPSM	R2PAPSM	R3PAPSM	R4PAPSM	R5PAPSM
.d:DK	14	7	4	11	19
.m:Missing	72	15	5	2	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	29	4	11	1	26
.x:does not have (organ)	5956	5190	6079	5878	6556
0.No	2855	2707	2504	2793	3826
1.Yes	5228	4603	5845	5165	5359
Value	S1PAPSM	S2PAPSM	S3PAPSM	S4PAPSM	S5PAPSM
.d:DK	7	3	2	3	11
.m:Missing	46	9	4		
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	16	3	4	1	9
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333 4872	131	349	280 4625	501
.x:does not have (organ) 0.No	1591	4243 1418	4888 1179	1285	3464 1430
1.Yes	3456	3067	3789	3268	2161
Value	R1PROST	R2PROST	R3PROST	R4PROST	R5PROST
.d:DK	17	23	14	14	14
.m:Missing	62	21	11	2	11
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	16	3	3	2	11
.x:does not have (organ)	8303	7491	8545	8212	9359
0.No	4773	3931	4040	3861	4548
1.Yes	983	1057	1846	1759	1854
Value	S1PROST	S2PROST	S3PROST	S4PROST	S5PROST
.d:DK	13	15	13	10	5
.m:Missing	48	13		1	
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	14	3	3	1	6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:does not have (organ)	5195	4613	5073	4701	3694
0.No	3894	3199	3260	3051	2283
1.Yes	824	900	1517	1418	1087

How Constructed

RwCHOLST, RwFLUSHT, RwBREAST, RwMAMMOG, RwPAPSM, and RwPROST indicate whether the respondent reports preventative health tests and procedures in the last two years. The tests and procedures are: blood test for cholesterol, a flu vaccine (flu shot), monthly self-checks for breast lumps, mammogram or x-ray to

check for breast cancer, pap smear to check for uterine cancer, and rectal exam or blood test to screen for prostate cancer, respectively. RwFLUSHT is only available starting in Wave 3.

RwCHOLST, RwFLUSHT, RwBREAST, RwMAMMOG, RwPAPSM, and RwPROST are assigned a value of 0 if the respondent has not had the preventative test or procedure in the last two years, and are assigned a value of 1 if the respondent has had the preventative test or procedure in the last two years. RwBREAST, RwMAMMOG and RwPROST are also assigned .x if the respondent reports "does not have (the organ)". RwBREAST and RwMAMMOG are assigned .x to indicate that these questions were skipped for respondents who are men or reported not having the organ. RwPROST is assinged .x to indicate that this question was skipped for respondents who are women or reported not having the organ. RwCHOLST, RwFLUSHT, RwBREAST, RwMAMMOG, RwPAPSM, and RwPROST are assigned special missing values .d, .r, .m, if the respondent answer don't know, refused, or answers are missing, respectively. These variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwCHOLST, SwFLUSHT, SwBREAST, SwMAMMOG, SwPAPSM, and SwPROST are these measures for the respondent's spouse and are taken directly from the spouse's RwCHOLST, RwFLUSHT, RwBREAST, RwMAMMOG, RwPAPSM, and RwPROST variables. In addition to the special missing codes used in RwCHOLST, RwFLUSHT, RwBREAST, RwMAMMOG, RwPAPSM, and RwPROST; SwCHOLST, SwFLUSHT, SwBREAST, SwMAMMOG, SwPAPSM, and SwPROST also use the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Questions about flu shots are asked starting in Wave 3.

Differences with the RAND HRS/Harmonized HRS

No differences known.

```
Wave 1:
   C51B
                    blood test
   C51F
                   breasts test
    C51G
                    mammogram
                   pap smear
   C51H
   C51T
                    prostate exam
Wave 2:
   C48B
                    cholesterol test
                    examine breasts for lumps
   C48F
    C48G
                    mammogram
   C48H
                    pap smear
   C48I
                    tested for prostate cancer since 2001
Wave 3:
   C48B 12
                   Last 2 years: Respondent had cholesterol blood test
   C48F 12
                   Last 2 years: Respondent had flu vaccine
   C48H 12
                   Last 2 years: Respondent performed self-breast exam
                    Last 2 years: Respondent had a mammogram/X-ray
   C48I 12
   C48J 12
                    Last 2 years: Respondent had a pap smear
   C48K 12
                    Last 2 years: Respondent had prostate cancer screening
Wave 4:
   C48B 15
                    In the last 2 years: Respondent had a cholesterol blood
   C48F_15
                    In the last 2 years: Respondent had a flu vaccine
   C48H 15
                    In the last 2 years: Respondent did a self-breast exam
    C48J 15
                    In the last 2 years: Respondent had a pap smear
   C48M 15
                    In the last 2 years: Respondent had a prostate cancer s
Wave 5:
   C48B 18
                    In the last 2 years: R had a cholesterol blood test
   C48F 18
                    In the last 2 years: R had a flu vaccine
   C48H 18
                    In the last 2 years: R did a self-breast exam
   C48J 18
                   In the last 2 years: R had a pap smear
   C48L 18
                   Has R had a hysterectomy
```

C48M_18

In the last 2 years: R had a prostate cancer screening



Section C: Health Care Utilization and Insurance

Medical Care Utilization: Hospital

Wave	Variable	Label	Type
1 2	R1HOSP1Y R2HOSP1Y	rlhosply: wl R Hospital stay, previous 12 months r2hosply: w2 R Hospital stay, previous 12 months	Categ Categ
3	R3HOSP1Y	r3hosply: w3 R Hospital stay, previous 12 months	Categ
4	R4HOSP1Y	r4hosply: w4 R Hospital stay, previous 12 months	Categ
5	R5HOSP1Y	r5hosply: w5 R Hospital stay, previous 12 months	Categ
1	S1HOSP1Y	slhosply: w1 S Hospital stay, previous 12 months	Categ
2	S2HOSP1Y	s2hosp1y: w2 S Hospital stay, previous 12 months	Categ
3	S3HOSP1Y	s3hosp1y: w3 S Hospital stay, previous 12 months	Categ
4	S4HOSP1Y	s4hosp1y: w4 S Hospital stay, previous 12 months	Categ
5	S5HOSP1Y	s5hosply: w5 S Hospital stay, previous 12 months	Categ
1	R1HSPNIT1Y	rlhspnitly: w1 R Hospital nights, previous 12 months	Cont
2	R2HSPNIT1Y	r2hspnit1y: w2 R Hospital nights, previous 12 months	Cont
3	R3HSPNIT1Y	r3hspnit1y: w3 R Hospital nights, previous 12 months	Cont
4	R4HSPNIT1Y	r4hspnit1y: w4 R Hospital nights, previous 12 months	Cont
5	R5HSPNIT1Y	r5hspnit1y: w5 R Hospital nights, previous 12 months	Cont
1	S1HSPNIT1Y	slhspnitly: w1 S Hospital nights, previous 12 months	Cont
2	S2HSPNIT1Y	s2hspnit1y: w2 S Hospital nights, previous 12 months	Cont
3	S3HSPNIT1Y	s3hspnit1y: w3 S Hospital nights, previous 12 months	Cont
4	S4HSPNIT1Y	s4hspnit1y: w4 S Hospital nights, previous 12 months	Cont
5	S5HSPNIT1Y	s5hspnit1y: w5 S Hospital nights, previous 12 months	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HOSP1Y	15150	0.10	0.30	0.00	1.00
R2HOSP1Y	13695	0.11	0.32	0.00	1.00
R3HOSP1Y	15709	0.11	0.32	0.00	1.00
R4HOSP1Y	14753	0.14	0.35	0.00	1.00
R5HOSP1Y	17046	0.14	0.34	0.00	1.00
S1HOSP1Y	10624	0.09	0.29	0.00	1.00
S2HOSP1Y	9560	0.11	0.31	0.00	1.00
S3HOSP1Y	10584	0.11	0.31	0.00	1.00
S4HOSP1Y	9644	0.13	0.34	0.00	1.00
S5HOSP1Y	7598	0.14	0.35	0.00	1.00
R1HSPNIT1Y	15150	0.78	5.41	0.00	246.00
R2HSPNIT1Y	13695	0.94	6.89	0.00	365.00
R3HSPNIT1Y	15709	0.83	5.59	0.00	240.00
R4HSPNIT1Y	14753	0.98	5.57	0.00	240.00
R5HSPNIT1Y	17046	0.97	5.51	0.00	200.00
S1HSPNIT1Y	10624	0.71	4.89	0.00	150.00
S2HSPNIT1Y	9560	0.89	6.25	0.00	365.00
S3HSPNIT1Y	10584	0.78	5.56	0.00	240.00
S4HSPNIT1Y	9644	0.93	5.64	0.00	240.00
S5HSPNIT1Y	7598	0.99	5.03	0.00	120.00

Categorical Variable Codes

Value		R1HOSP1Y	R2HOSP1Y	R3HOSP1Y	R4HOSP1Y	R5HOSP1Y
.d:DK	į	14	6	13	10	18
.m:Missing	į	10	3		16	
r. Dofuso	i	1.2		1		5.0

0.No 1.Yes	13681 1469	12147 1548	13920 1789	12698 2055	14714 2332
Value	S1HOSP1Y	S2HOSP1Y	S3HOSP1Y	S4HOSP1Y	S5HOSP1Y
.d:DK	8	2	8	6	7
.m:Missing	5	2		2	
.r:Refuse	11				33
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9664	8548	9462	8383	6505
1.Yes	960	1012	1122	1261	1093

How Constructed

RwHOSP1Y indicates whether the respondent reports at least one overnight hospital stay in the last 12 months. RwHOSP1Y is coded as 0 if the respondent had no overnight hospital stays, and is coded as 1 if the respondent had at least one overnight hospital stay. If the respondent reports any overnight hospital stay, RwHSPNIT1Y is the reported total number of nights over all hospital stays, in the last 12 months. RwHSPNIT1Y is set to 0 if the respondent reports no overnight hospital stays in the past 12 months. RwHOSP1Y and RwHSPNIT1Y are assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwHOSP1Y and SwHSPNIT1Y are taken from the Wave 'w' spouse's value for RwHOSP1Y and RwHSPNIT1Y. In addition to the special missing codes used in RwHOSP1Y and RwHSPNIT1Y, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the reference period changes across waves from "12 months", to "the last interview", or "the last 2 years" for new interviewees. However, in the MHAS the reference period, "the past year", is used consistently across waves.

Wave 1:	
D4	nights in hospital
Wave 2:	
D11	how many nights spent hospitalized
Wave 3:	
D4_12	Past year: Number of overnight stays in hospital
Wave 4:	
D4_15	Past year: Number of overnight stays in hospital
Wave 5:	
D4 18	Past year: Number of overnight stays in hospital

Medical Care Utilization: Doctor

Wave	Variable	Label			•	Type
1	R1DOCTOR1Y	rldoctorly:	w1	R	Doctor visits, previous 12 months	Categ
	R2DOCTOR1Y	r2doctor1y:	w2	R	Doctor visits, previous 12 months	Categ
3	R3DOCTOR1Y	r3doctor1y:	wЗ	R	Doctor visits, previous 12 months	Categ
4	R4DOCTOR1Y	r4doctor1y:	w4	R	Doctor visits, previous 12 months	Categ
5	R5DOCTOR1Y	r5doctor1y:	w5	R	Doctor visits, previous 12 months	Categ
1	S1DOCTOR1Y	_				Categ
_	S2DOCTOR1Y	_				Categ
3	S3DOCTOR1Y	_				Categ
	S4DOCTOR1Y	s4doctor1y:	w4	S	Doctor visits, previous 12 months	Categ
5	S5DOCTOR1Y	s5doctor1y:	w5	S	Doctor visits, previous 12 months	Categ
1	R1DOCTIM1Y				"	Cont
	R2DOCTIM1Y	r2doctim1y:	w2	R	# Doctor visits, previous 12 months	Cont
3	R3DOCTIM1Y	r3doctim1y:	wЗ	R	# Doctor visits, previous 12 months	Cont
4	R4DOCTIM1Y	r4doctim1y:	w4	R	# Doctor visits, previous 12 months	Cont
5	R5DOCTIM1Y	r5doctim1y:	w5	R	# Doctor visits, previous 12 months	Cont
1	S1DOCTIM1Y	sldoctimly:	w1	S	# Doctor visits, previous 12 months	Cont
2	S2DOCTIM1Y	s2doctim1y:	w2	S	# Doctor visits, previous 12 months	Cont
3	S3DOCTIM1Y	s3doctim1y:	wЗ	S	# Doctor visits, previous 12 months	Cont
	S4DOCTIM1Y	s4doctim1y:	w4	S	# Doctor visits, previous 12 months	Cont
5	S5DOCTIM1Y	s5doctim1y:	w5	S	# Doctor visits, previous 12 months	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DOCTOR1Y	15119	0.64	0.48	0.00	1.00
R2DOCTOR1Y	13655	0.66	0.47	0.00	1.00
R3DOCTOR1Y	15693	0.73	0.44	0.00	1.00
R4DOCTOR1Y	14750	0.80	0.40	0.00	1.00
R5DOCTOR1Y	17031	0.72	0.45	0.00	1.00
S1DOCTOR1Y	10604	0.63	0.48	0.00	1.00
S2DOCTOR1Y	9540	0.66	0.47	0.00	1.00
S3DOCTOR1Y	10574	0.72	0.45	0.00	1.00
S4DOCTOR1Y	9646	0.79	0.41	0.00	1.00
S5DOCTOR1Y	7592	0.74	0.44	0.00	1.00
R1DOCTIM1Y	15119	4.21	7.99	0.00	365.00
R2DOCTIM1Y	13655	4.58	7.05	0.00	210.00
R3DOCTIM1Y	15693	5.45	6.84	0.00	199.00
R4DOCTIM1Y	14750	6.26	8.24	0.00	240.00
R5DOCTIM1Y	17031	5.42	8.52	0.00	365.00
S1DOCTIM1Y	10604	4.06	8.05	0.00	365.00
S2DOCTIM1Y	9540	4.47	6.92	0.00	120.00
S3DOCTIM1Y	10574	5.21	6.39	0.00	144.00
S4DOCTIM1Y	9646	6.10	8.44	0.00	200.00
S5DOCTIM1Y	7592	5.72	7.19	0.00	250.00

Categorical Variable Codes

Value	 R1DOCTOR1Y	R2DOCTOR1Y	R3DOCTOR1Y	R4DOCTOR1Y	R5DOCTOR1Y
.d:DK	46	46	29	13	26
.m:Missing	10	3		16	
.r:Refuse	11		1		57

0.No 1.Yes	5415 9704	4592 9063	4237 11456	2998 11752	4744 12287
Value	S1DOCTOR1Y	S2DOCTOR1Y	S3DOCTOR1Y	S4DOCTOR1Y	S5DOCTOR1Y
.d:DK	32	22	17	4	11
.m:Missing	5	2		2	
.r:Refuse	7		1		35
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	3911	3277	2948	2021	1987
1.Yes	6693	6263	7626	7625	5605

How Constructed

RwDOCTOR1Y indicates whether the respondent reports at least one doctor visit in the last 12 months. RwDOCTOR1Y is coded as 0 if the respondent had no doctor visits, and is coded as 1 if the respondent had one or more doctor visits. If the respondent reports any doctor visits, RwDOCTIM1Y is the reported number of visits in the last 12 months. RwDOCTIM1Y is set to 0 if the respondent reports no doctor visits in the past 12 months. RwDOCTOR1Y and RwDOCTIM1Y are assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwDOCTOR1Y and SwDOCTIM1Y are taken from the Wave 'w' spouse's values for RwDOCTOR1Y and RwDOCTIM1Y. In addition to the special missing codes used in RwDOCTOR and RwDOCTIM, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the reference period changes across waves from "12 months", to "the last interview", or "the last 2 years" for new interviewees. However, in the MHAS the reference period "the past year", is used consistently across waves.

Wave 1:	
D8 5	medical visits
Wave 2:	
D15_4	in the last year, how many times saw a doctor or medica
Wave 3:	
D8_4_12	Last year:respondent's frequency of consulting a physic
Wave 4:	
D8_4_15	Last year: Respondent's number of visits to a doctor or
Wave 5:	
D8_3_18	Last year: R's number of visits to a doctor or medical

Medical Care Utilization: Other Medical Care Utilization

Wave	Variable	Label	Туре
1	R1OUTPT1Y	rloutptly: w1 R Outpatient surgery, previous 12 months	Categ
2	R2OUTPT1Y	r2outpt1y: w2 R Outpatient surgery, previous 12 months	Categ
3	R3OUTPT1Y	r3outpt1y: w3 R Outpatient surgery, previous 12 months	Categ
4	R4OUTPT1Y	r4outpt1y: w4 R Outpatient surgery, previous 12 months	Categ
5	R5OUTPT1Y	r5outpt1y: w5 R Outpatient surgery, previous 12 months	Categ
1	S10UTPT1Y	sloutptly: w1 S Outpatient surgery, previous 12 months	Categ
2	S2OUTPT1Y	s2outpt1y: w2 S Outpatient surgery, previous 12 months	Categ
	S30UTPT1Y	s3outpt1y: w3 S Outpatient surgery, previous 12 months	Categ
	S4OUTPT1Y	s4outpt1y: w4 S Outpatient surgery, previous 12 months	Categ
5	S50UTPT1Y	s5outpt1y: w5 S Outpatient surgery, previous 12 months	Categ
1	R1DENTST1Y	rldentstly: w1 R Dental visits, previous 12 months	Categ
2	R2DENTST1Y	r2dentst1y: w2 R Dental visits, previous 12 months	Categ
3	R3DENTST1Y	r3dentst1y: w3 R Dental visits, previous 12 months	Categ
4	R4DENTST1Y	r4dentstly: w4 R Dental visits, previous 12 months	Categ
5	R5DENTST1Y	r5dentstly: w5 R Dental visits, previous 12 months	Categ
1	S1DENTST1Y	sldentstly: w1 S Dental visits, previous 12 months	Categ
2	S2DENTST1Y	s2dentst1y: w2 S Dental visits, previous 12 months	Categ
3	S3DENTST1Y	s3dentst1y: w3 S Dental visits, previous 12 months	Categ
4	S4DENTST1Y	s4dentst1y: w4 S Dental visits, previous 12 months	Categ
5	S5DENTST1Y	s5dentstly: w5 S Dental visits, previous 12 months	Categ
1	R1DENTIM1Y	rldentimly: w1 R # Dental visits, previous 12 months	Cont
2	R2DENTIM1Y	r2dentim1y: w2 R # Dental visits, previous 12 months	Cont
3	R3DENTIM1Y	r3dentim1y: w3 R # Dental visits, previous 12 months	Cont
4	R4DENTIM1Y	r4dentim1y: w4 R # Dental visits, previous 12 months	Cont
5	R5DENTIM1Y	r5dentim1y: w5 R # Dental visits, previous 12 months	Cont
1	S1DENTIM1Y	sldentimly: w1 S # Dental visits, previous 12 months	Cont
2	S2DENTIM1Y	s2dentim1y: w2 S # Dental visits, previous 12 months	Cont
3	S3DENTIM1Y	s3dentim1y: w3 S # Dental visits, previous 12 months	Cont
4	S4DENTIM1Y	s4dentim1y: w4 S # Dental visits, previous 12 months	Cont
5	S5DENTIM1Y	s5dentim1y: w5 S # Dental visits, previous 12 months	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OUTPT1Y	15160	0.02	0.14	0.00	1.00
R2OUTPT1Y	13698	0.03	0.16	0.00	1.00
R3OUTPT1Y	15715	0.03	0.18	0.00	1.00
R4OUTPT1Y	14760	0.04	0.21	0.00	1.00
R5OUTPT1Y	17054	0.04	0.21	0.00	1.00
S1OUTPT1Y	10633	0.02	0.14	0.00	1.00
S2OUTPT1Y	9561	0.03	0.16	0.00	1.00
S3OUTPT1Y	10585	0.03	0.18	0.00	1.00
S4OUTPT1Y	9649	0.05	0.21	0.00	1.00
S50UTPT1Y	7599	0.04	0.21	0.00	1.00
R1DENTST1Y	15160	0.25	0.43	0.00	1.00
R2DENTST1Y	13689	0.26	0.43	0.00	1.00
R3DENTST1Y	15705	0.32	0.46	0.00	1.00
R4DENTST1Y	14752	0.36	0.48	0.00	1.00
R5DENTST1Y	17038	0.39	0.49	0.00	1.00

S1DENTST1Y	10632	0.25	0.43	0.00	1.00
S2DENTST1Y	9555	0.27	0.44	0.00	1.00
S3DENTST1Y	10581	0.32	0.47	0.00	1.00
S4DENTST1Y	9646	0.37	0.48	0.00	1.00
S5DENTST1Y	7594	0.38	0.49	0.00	1.00
R1DENTIM1Y	15160	0.75	3.50	0.00	330.00
R2DENTIM1Y	13689	0.75	2.45	0.00	100.00
R3DENTIM1Y	15705	0.90	3.00	0.00	200.00
R4DENTIM1Y	14752	1.01	3.55	0.00	300.00
R5DENTIM1Y	17038	1.14	3.11	0.00	200.00
S1DENTIM1Y	10632	0.77	3.90	0.00	330.00
S2DENTIM1Y	9555	0.75	2.49	0.00	100.00
S3DENTIM1Y	10581	0.90	2.57	0.00	99.00
S4DENTIM1Y	9646	1.03	3.79	0.00	300.00
S5DENTIM1Y	7594	1.10	3.47	0.00	200.00

Categorical Variable Codes

Value	R1OUTPT1Y	R2OUTPT1Y	R3OUTPT1Y	R4OUTPT1Y	R50UTPT1Y
.d:DK	7	3	7	3	8
.m:Missing	10	3		16	
.r:Refuse	9		1		52
0.No	14864	13328	15184	14103	16302
1.Yes	296	370	531	657	752
Value	S1OUTPT1Y	S2OUTPT1Y	S3OUTPT1Y	S4OUTPT1Y	S5OUTPT1Y
.d:DK	6	1	6	1	4
.m:Missing	5	2		2	
.r:Refuse	4		1		35
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	10435	9315	10234	9208	7263
1.Yes	198	246	351	441	336
Value	R1DENTST1Y	R2DENTST1Y	R3DENTST1Y	R4DENTST1Y	R5DENTST1Y
.d:DK	11	12	17	11	26
.m:Missing	10	3		16	
.r:Refuse	5		1		50
0.No	11442	10111	10745	9458	10357
1.Yes	3718	3578	4960	5294	6681
Value	S1DENTST1Y	S2DENTST1Y	S3DENTST1Y	S4DENTST1Y	S5DENTST1Y
.d:DK	8	7	11	4	11
.m:Missing	5	2		2	
.r:Refuse	3				33
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	7944	7010	7171	6090	4677
1.Yes	2688	2545	3410	3556	2917

How Constructed

RWOUTPT1Y and RwDENTST1Y indicate whether the respondent reports at least one outpatient surgery and dental visits in the last 12 months, respectively. RwOUTPT1Y and RwDENTST1Y are coded as 0 if the respondent had no outpatient surgeries or dental visits, respectively. They are coded as 1 if the respondent had at least one outpatient surgery and dental visit, respectively. If the respondent reports any dental visits, RwDENTIM1Y is the reported total number of dental visits in the last 12 months. RwDENTIM1Y is set to 0 if the respondent reports no dental visits in the past 12 months. RwOUTPT1Y, RwDENTST1Y, and RwDENTIM1Y are assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SWOUTPT1Y, SwDENTST1Y, and SwDENTIM1Y are taken from the Wave 'w' spouse's value for RwOUTPT1Y, RwDENTST1Y, and RwDENTIM1Y. In addition to the special missing codes used in RwOUTPT1Y, RwDENTST1Y, and RwDENTIM1Y, if the respondent is not designated as coupled in the current wave and assumed to be single,

a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the reference period changes across waves from "12 months", to "the last interview", or "the last 2 years" for new interviewees. However, in the MHAS the reference period "the past year", is used consistently across waves.

Wave 1:	
D8_3	dentist
D8_4	outpatient procedures
Wave 2:	
D15_2	in the last year, how many times saw a dentist
D15_3	in the last year, how many times had surgical procedure
Wave 3:	
D8_2_12	Last year:respondent's number of dentist visit(s)
D8_3_12	Last year:respondent's number of outpatient procedures
Wave 4:	
D8_2_15	Last year: Respondent's number of visits to a dentist
D8_3_15	Last year: Respondent's number of outpatient procedures
Wave 5:	
D8_1_18	Last year: R's number of visits to a dentist
D8_2_18	Last year: R's number of outpatient procedures

Medical Expenditures: Out of Pocket and Total

Wave	Variable	Label	Туре
1	R100PHOS1Y	rloophosly: w1 R Out of pocket hospital exp, previous 12 mon	Cont
2	R200PHOS1Y	r2oophos1y: w2 R Out of pocket hospital exp, previous 12 mon	Cont
3	R300PHOS1Y	r3oophos1y: w3 R Out of pocket hospital exp, previous 12 mon	Cont
4	R400PHOS1Y	r4oophos1y: w4 R Out of pocket hospital exp, previous 12 mon	Cont
5	R500PHOS1Y	r5oophos1y: w5 R Out of pocket hospital exp, previous 12 mon	Cont
1	S100PHOS1Y	sloophosly: w1 S Out of pocket med hospital, previous 12 mon	Cont
2	S200PHOS1Y	s2oophos1y: w2 S Out of pocket med hospital, previous 12 mon	Cont
3	S300PHOS1Y	s3oophos1y: w3 S Out of pocket med hospital, previous 12 mon	Cont
4	S400PHOS1Y	s4oophos1y: w4 S Out of pocket med hospital, previous 12 mon	Cont
5	S500PHOS1Y	s5oophos1y: w5 S Out of pocket med hospital, previous 12 mon	Cont
1	R100PHOSF1Y	rloophosfly: w1 R Out of pocket hospital exp imputed flag	Categ
2	R200PHOSF1Y	r2oophosfly: w2 R Out of pocket hospital exp imputed flag	Categ
3	R300PHOSF1Y	r3oophosfly: w3 R Out of pocket hospital exp imputed flag	Categ
	R400PHOSF1Y	r4oophosfly: w4 R Out of pocket hospital exp imputed flag	Categ
5	R500PHOSF1Y	r5oophosfly: w5 R Out of pocket hospital exp imputed flag	Categ
1	S100PHOSF1Y	sloophosfly: w1 S Out of pocket hospital exp imputed flag	Categ
2	S200PHOSF1Y	s2oophosfly: w2 S Out of pocket hospital exp imputed flag	Categ
3	S300PHOSF1Y	s3oophosfly: w3 S Out of pocket hospital exp imputed flag	Categ
4	S400PHOSF1Y	s4oophosfly: w4 S Out of pocket hospital exp imputed flag	Categ
5	S500PHOSF1Y	s5oophosfly: w5 S Out of pocket hospital exp imputed flag	Categ
1	R100PFHH01Y	rloopfhholy: w1 R Out of pocket folk healer/homeopath exp, p	Cont
2	R200PFHH01Y	r2oopfhho1y: w2 R Out of pocket folk healer/homeopath exp, p	Cont
3	R300PFHH01Y	r3oopfhho1y: w3 R Out of pocket folk healer/homeopath exp, p	Cont
4	R4OOPFHHO1Y	r4oopfhholy: w4 R Out of pocket folk healer/homeopath exp, p	Cont
1	S100PFHH01Y	sloopfhholy: w1 S Out of pocket folk healer/homeopath, previ	Cont
2	S200PFHH01Y	s2oopfhholy: w2 S Out of pocket folk healer/homeopath, previ	Cont
3	S300PFHH01Y	s3oopfhho1y: w3 S Out of pocket folk healer/homeopath, previ	Cont
4	S400PFHH01Y	s4oopfhholy: w4 S Out of pocket folk healer/homeopath, previ	Cont
1	R100PFHH0F1Y	rloopfhhofly: w1 R Out of pocket folk healer/homeopath exp i	Categ
2	R2OOPFHHOF1Y	r2oopfhhof1y: w2 R Out of pocket folk healer/homeopath exp i	Categ
3	R300PFHH0F1Y	r3oopfhhofly: w3 R Out of pocket folk healer/homeopath exp i	Categ
4	R4OOPFHHOF1Y	r4oopfhhofly: w4 R Out of pocket folk healer/homeopath exp i	Categ
1	S100PFHH0F1Y	sloopfhhofly: w1 S Out of pocket folk healer/homeopath exp i	Categ
2	S2OOPFHHOF1Y	s2oopfhhofly: w2 S Out of pocket folk healer/homeopath exp i	Categ
3	S300PFHHOF1Y	s3oopfhhofly: w3 S Out of pocket folk healer/homeopath exp i	Categ
4	S400PFHHOF1Y	s4oopfhhofly: w4 S Out of pocket folk healer/homeopath exp i	Categ
1	R100PDEN1Y	rloopdenly: w1 R Out of pocket dentist exp, previous 12 mont	Cont
2	R200PDEN1Y	r2oopden1y: w2 R Out of pocket dentist exp, previous 12 mont	Cont
3	R300PDEN1Y	r3oopden1y: w3 R Out of pocket dentist exp, previous 12 mont	Cont
4	R400PDEN1Y	r4oopden1y: w4 R Out of pocket dentist exp, previous 12 mont	Cont
5	R500PDEN1Y	r5oopdenly: w5 R Out of pocket dentist exp, previous 12 mont	Cont
1	S100PDEN1Y	sloopdenly: w1 S Out of pocket dentist exp, previous 12 mont	Cont
2	S200PDEN1Y	s2oopden1y: w2 S Out of pocket dentist exp, previous 12 mont	Cont
3	S300PDEN1Y	s3oopden1y: w3 S Out of pocket dentist exp, previous 12 mont	Cont
4	S400PDEN1Y	s4oopdenly: w4 S Out of pocket dentist exp, previous 12 mont	Cont
5	S500PDEN1Y	s5oopden1y: w5 S Out of pocket dentist exp, previous 12 mont	Cont
1	R100PDENF1Y	rloopdenfly: w1 R Out of pocket dentist exp imputed flag	Categ
2	R200PDENF1Y	r2oopdenf1y: w2 R Out of pocket dentist exp imputed flag	Categ
3	R300PDENF1Y	r3oopdenfly: w3 R Out of pocket dentist exp imputed flag	Categ
			_

4 R400PDENF1Y 5 R500PDENF1Y	r4oopdenfly: w4 R Out of pocket dentist exp imputed flag r5oopdenfly: w5 R Out of pocket dentist exp imputed flag	Categ Categ
1 S100PDENF1Y	sloopdenfly: w1 S Out of pocket dentist exp imputed flag	Cateq
2 S2OOPDENF1Y	s2oopdenf1y: w2 S Out of pocket dentist exp imputed flag	Categ
3 S300PDENF1Y	s3oopdenf1y: w3 S Out of pocket dentist exp imputed flag	Categ
4 S400PDENF1Y	s4oopdenf1y: w4 S Out of pocket dentist exp imputed flag	Categ
5 S500PDENF1Y	s5oopdenf1y: w5 S Out of pocket dentist exp imputed flag	Categ
1 R100POSRG1Y	rlooposrgly: w1 R Out of pocket outpatient surgery exp, prev	Cont
2 R200POSRG1Y	r2ooposrg1y: w2 R Out of pocket outpatient surgery exp, prev	Cont
3 R300POSRG1Y	r3ooposrg1y: w3 R Out of pocket outpatient surgery exp, prev	Cont
4 R400POSRG1Y	r4ooposrgly: w4 R Out of pocket outpatient surgery exp, prev	Cont
5 R500POSRG1Y	r5ooposrg1y: w5 R Out of pocket outpatient surgery exp, prev	Cont
1 S100POSRG1Y	slooposrgly: w1 S Out of pocket outpatient surgery exp, prev	Cont
2 S200POSRG1Y	s2ooposrg1y: w2 S Out of pocket outpatient surgery exp, prev	Cont
3 S300POSRG1Y	s3ooposrg1y: w3 S Out of pocket outpatient surgery exp, prev	Cont
4 S400POSRG1Y	s4ooposrgly: w4 S Out of pocket outpatient surgery exp, prev	Cont
5 S500POSRG1Y	s5ooposrgly: w5 S Out of pocket outpatient surgery exp, prev	Cont
1 010000000000	11	Q - t
1 R100POSRGF1Y	rlooposrgfly: w1 R Out of pocket outpatient surgery exp impu	Categ
2 R200POSRGF1Y	r2ooposrgfly: w2 R Out of pocket outpatient surgery exp impu	Categ
3 R300POSRGF1Y	r3ooposrgfly: w3 R Out of pocket outpatient surgery exp impu	Categ
4 R400POSRGF1Y	r4ooposrgfly: w4 R Out of pocket outpatient surgery exp impu	Categ
5 R500POSRGF1Y	r5ooposrgfly: w5 R Out of pocket outpatient surgery exp impu	Categ
1 S100POSRGF1Y	slooposrgfly: w1 S Out of pocket outpatient surgery exp impu	Categ
2 S200POSRGF1Y	s2ooposrgf1y: w2 S Out of pocket outpatient surgery exp impu	Categ
3 S300POSRGF1Y	s3ooposrgf1y: w3 S Out of pocket outpatient surgery exp impu	Categ
4 S400POSRGF1Y	s4ooposrgfly: w4 S Out of pocket outpatient surgery exp impu	Categ
5 S500POSRGF1Y	s5ooposrgf1y: w5 S Out of pocket outpatient surgery exp impu	Categ
1 R100PDOC1Y	rloopdocly: w1 R Out of pocket doctor exp, previous 12 month	Cont
2 R2OOPDOC1Y	r2oopdoc1y: w2 R Out of pocket doctor exp, previous 12 month	Cont
3 R3OOPDOC1Y	r3oopdoc1y: w3 R Out of pocket doctor exp, previous 12 month	Cont
4 R4OOPDOC1Y	r4oopdocly: w4 R Out of pocket doctor exp, previous 12 month	Cont
5 R500PD0C1Y	r5oopdoc1y: w5 R Out of pocket doctor exp, previous 12 month	Cont
1 S100PDOC1Y	sloopdocly: w1 S Out of pocket doctor exp, previous 12 month	Cont
2 S2OOPDOC1Y	s2oopdoc1y: w2 S Out of pocket doctor exp, previous 12 month	Cont
3 S300PD0C1Y	s3oopdocly: w3 S Out of pocket doctor exp, previous 12 month	Cont
4 S4OOPDOC1Y	s4oopdocly: w4 S Out of pocket doctor exp, previous 12 month	Cont
5 S500PDOC1Y	s5oopdocly: w5 S Out of pocket doctor exp, previous 12 month	Cont
1 R100PDOCF1Y	rloopdocfly, wil R Out of pocket doctor own imputed flow	Cateq
2 R2OOPDOCF1Y	rloopdocfly: w1 R Out of pocket doctor exp imputed flag r2oopdocfly: w2 R Out of pocket doctor exp imputed flag	Categ
3 R300PD0CF1Y	r3oopdocfly: w2 R Out of pocket doctor exp imputed flag	Categ
4 R4OOPDOCF1Y	r4oopdocfly: w4 R Out of pocket doctor exp imputed flag	Categ
5 R500PD0CF1Y	r5oopdocfly: w5 R Out of pocket doctor exp imputed flag	Categ
3 ROOPDOCFII	roopdocity: wo k out of pocket doctor exp imputed frag	categ
1 S100PD0CF1Y	sloopdocfly: w1 S Out of pocket doctor exp imputed flag	Categ
2 S2OOPDOCF1Y	s2oopdocfly: w2 S Out of pocket doctor exp imputed flag	Categ
3 S300PD0CF1Y	s3oopdocf1y: w3 S Out of pocket doctor exp imputed flag	Categ
4 S400PDOCF1Y	s4oopdocfly: w4 S Out of pocket doctor exp imputed flag	Categ
5 S500PDOCF1Y	s5oopdocf1y: w5 S Out of pocket doctor exp imputed flag	Categ
1 R100PMD1Y	rloopmdly: w1 R Out of pocket med exp, previous 12 months	Cont
2 R2OOPMD1Y	r2oopmd1y: w2 R Out of pocket med exp, previous 12 months	Cont
3 R3OOPMD1Y	r3oopmdly: w3 R Out of pocket med exp, previous 12 months	Cont
4 R4OOPMD1Y	r4oopmdly: w4 R Out of pocket med exp, previous 12 months	Cont
5 R500PMD1Y	r5oopmdly: w5 R Out of pocket med exp, previous 12 months	Cont
1 S100PMD1Y	sloopmdly: w1 S Out of pocket med exp, previous 12 months	Cont

3 4	S200PMD1Y S300PMD1Y S400PMD1Y S500PMD1Y	s2oopmd1y: s3oopmd1y: s4oopmd1y: s5oopmd1y: s5oopmd1y: s	w3 5	Out Out	of of	pocket pocket	med med	exp,	previous previous	s 12 months s 12 months	Cont Cont Cont
1	R100PMDF1Y	rloopmdfly:	w1	R Out	of	pocket	med	exp	imputed	flag	Categ
2	R200PMDF1Y	r2oopmdf1y:	w2	R Out	of	pocket	med	exp	imputed	flag	Categ
3	R300PMDF1Y	r3oopmdf1y:	wЗ	R Out	of	pocket	med	exp	imputed	flag	Categ
4	R400PMDF1Y	r4oopmdf1y:	w4	R Out	of	pocket	med	exp	imputed	flag	Categ
5	R500PMDF1Y	r5oopmdfly:	w5	R Out	cof	pocket	. med	exp	imputed	flag	Categ
1	S100PMDF1Y	sloopmdfly:	w1	S Out	c of	pocket	med	exp	imputed	flag	Categ
2	S200PMDF1Y	s2oopmdf1y:	w2	S Out	of	pocket	med	exp	imputed	flag	Categ
3	S300PMDF1Y	s3oopmdf1y:	wЗ	S Out	of	pocket	med	exp	imputed	flag	Categ
4	S400PMDF1Y	s4oopmdfly:	w4	S Out	c of	pocket	med	exp	imputed	flag	Categ
5	S500PMDF1Y	s5oopmdf1y:	w5	S Out	c of	pocket	. med	exp	imputed	flag	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R100PHOS1Y	15176	445.00	7045.10	0.00	500000.00
R200PHOS1Y	13701	561.78	7227.74	0.00	500000.00
R300PHOS1Y	15723	670.77	7042.17	0.00	300000.00
R400PHOS1Y	14763	1301.86	12628.88	0.00	500000.00
R500PHOS1Y	17114	1601.04	12876.59	0.00	350000.00
S100PHOS1Y	10643	437.79	7992.32	0.00	500000.00
S200PHOS1Y	9562	621.79	8216.53	0.00	500000.00
S300PHOS1Y	10592	640.67	7167.39	0.00	300000.00
S400PHOS1Y	9650	1173.81	12229.27	0.00	500000.00
S500PHOS1Y	7638	1880.15	14304.68	0.00	350000.00
R100PHOSF1Y	15176	0.01	0.09	0.00	1.00
R200PHOSF1Y	13701	0.01	0.09	0.00	1.00
R300PHOSF1Y	15723	0.01	0.08	0.00	1.00
R400PHOSF1Y	14763	0.01	0.08	0.00	1.00
R500PHOSF1Y	17114	0.01	0.11	0.00	1.00
S100PHOSF1Y	10643	0.01	0.08	0.00	1.00
S200PHOSF1Y	9562	0.01	0.08	0.00	1.00
S300PHOSF1Y	10592	0.00	0.07	0.00	1.00
S400PHOSF1Y	9650	0.01	0.08	0.00	1.00
S500PHOSF1Y	7638	0.01	0.11	0.00	1.00
R100PFHH01Y	15176	53.25	703.94	0.00	60000.00
R200PFHH01Y	13701	49.84	447.76	0.00	25000.00
R300PFHH01Y	15723	53.48	472.74	0.00	24000.00
R400PFHH01Y	14763	66.01	656.87	0.00	40000.00
S100PFHH01Y	10643	53.90	758.10	0.00	60000.00
S200PFHH01Y	9562	52.23	489.68	0.00	25000.00
S300PFHH01Y	10592	50.93	466.17	0.00	24000.00
S400PFHH01Y	9650	69.88	739.53	0.00	40000.00
R100PFHH0F1Y	15176	0.00	0.06	0.00	1.00
R200PFHH0F1Y	13701	0.00	0.05	0.00	1.00
R300PFHH0F1Y	15723	0.00	0.04	0.00	1.00
R400PFHH0F1Y	14763	0.00	0.04	0.00	1.00
S100PFHH0F1Y	10643	0.00	0.06	0.00	1.00
S200PFHHOF1Y	9562	0.00	0.04	0.00	1.00
S300PFHHOF1Y	10592	0.00	0.04	0.00	1.00
S400PFHH0F1Y	9650	0.00	0.04	0.00	1.00

R100PDEN1Y	15176	283.50	1313.00	0.00	60000.00
R200PDEN1Y	13701	324.90	1662.56	0.00	100000.00
R300PDEN1Y	15723	708.37	6132.31	0.00	600000.00
R400PDEN1Y	14763	780.45	3084.68	0.00	100000.00
R500PDEN1Y	17114	1136.36	6458.61	0.00	600000.00
NOOOI DENII	1/111	1130.30	0130.01	0.00	000000.00
S100PDEN1Y	10643	287.85	1363.35	0.00	60000.00
		327.90			
S200PDEN1Y	9562		1655.37	0.00	100000.00
S300PDEN1Y	10592	676.05	4153.18	0.00	215000.00
S400PDEN1Y	9650	806.25	3251.86	0.00	100000.00
S500PDEN1Y	7638	1103.87	4714.01	0.00	270000.00
R100PDENF1Y	15176	0.01	0.08	0.00	1.00
R2OOPDENF1Y	13701	0.01	0.09	0.00	1.00
R300PDENF1Y	15723	0.01	0.09	0.00	1.00
R400PDENF1Y	14763	0.01	0.09	0.00	1.00
R500PDENF1Y	17114	0.02	0.12	0.00	1.00
S100PDENF1Y	10642	0.00	0 07	0 00	1 00
	10643		0.07	0.00	1.00
S200PDENF1Y	9562	0.01	0.09	0.00	1.00
S300PDENF1Y	10592	0.01	0.09	0.00	1.00
S400PDENF1Y	9650	0.01	0.08	0.00	1.00
S500PDENF1Y	7638	0.02	0.12	0.00	1.00
R100POSRG1Y	15176	31.17	511.10	0.00	22500.00
R200POSRG1Y	13701	111.30	2129.02	0.00	120000.00
R300POSRG1Y	15723	184.83	4120.08	0.00	400000.00
R400POSRG1Y	14763	207.57	2623.97	0.00	120000.00
R500POSRG1Y	17114	269.10	3356.38	0.00	200000.00
NOOFOSNGII	1/114	209.10	3330.30	0.00	200000.00
S100POSRG1Y	10643	32.91	530.04	0.00	22500.00
S200POSRG1Y	9562	118.67	2356.39	0.00	120000.00
S300POSRG1Y	10592	151.23	2670.48	0.00	130000.00
S400POSRG1Y	9650	198.35	2643.60	0.00	120000.00
S500POSRG1Y	7638	310.02	3788.56	0.00	200000.00
R100POSRGF1Y	15176	0.00	0.04	0.00	1.00
R200POSRGF1Y	13701	0.00	0.04	0.00	1.00
R300POSRGF1Y	15723	0.00	0.04	0.00	1.00
R400POSRGF1Y	14763	0.00	0.02	0.00	1.00
R500POSRGF1Y	17114	0.00	0.07	0.00	1.00
S100POSRGF1Y	10643	0.00	0.04	0.00	1.00
S200POSRGF1Y	9562	0.00	0.03	0.00	1.00
S300POSRGF1Y	10592	0.00	0.04	0.00	1.00
S400POSRGF1Y	9650	0.00	0.01	0.00	1.00
S500POSRGF1Y	7638	0.01	0.08	0.00	1.00
R100PDOC1Y	15176	488.79	3216.58	0.00	250000.00
R200PD0C1Y	13701	598.07	4301.72	0.00	300000.00
R300PD0C1Y	15723	535.79	3609.25	0.00	260000.00
R400PDOC1Y	14763	621.36	3113.48	0.00	100000.00
R500PD0C1Y	17114	961.20	5191.55	0.00	200000.00
ROOFDOCII	1/114	901.20	3191.33	0.00	200000.00
S100PDOC1Y	10643	471.86	3192.88	0.00	250000.00
S200PDOC1Y	9562	599.96	4412.42	0.00	300000.00
S300PDOC1Y	10592	459.42	2627.98	0.00	120000.00
S400PDOC1Y	9650	562.32	2751.93	0.00	100000.00
S500PDOC1Y	7638	998.54	5587.60	0.00	200000.00
R100PD0CF1Y	15176	0.02	0.13	0.00	1.00
R200PD0CF1Y	13701	0.02	0.13	0.00	1.00
R300PD0CF1Y	15723	0.01	0.10	0.00	1.00

R400PD0CF1Y	14763	0.01	0.09	0.00	1.00
R500PD0CF1Y	17114	0.01	0.14	0.00	1.00
NOOTBOCFII	1/114	0.02	0.14	0.00	1.00
S100PD0CF1Y	10643	0.01	0.12	0.00	1.00
S200PD0CF1Y	9562	0.02	0.12	0.00	1.00
S300PD0CF1Y	10592	0.01	0.09	0.00	1.00
S400PD0CF1Y	9650	0.01	0.08	0.00	1.00
S500PD0CF1Y	7638	0.02	0.14	0.00	1.00
R100PMD1Y	15176	1301.71	8153.40	0.00	500000.00
R200PMD1Y	13701	1645.90	10625.77	0.00	800000.00
R300PMD1Y	15723	2153.24	12064.52	0.00	600000.00
R400PMD1Y	14763	2977.26	14420.37	0.00	500000.00
R500PMD1Y	17114	3967.71	16995.14	0.00	600000.00
S100PMD1Y	10643	1284.32	9001.70	0.00	500000.00
S200PMD1Y	9562	1720.55	11863.05	0.00	800000.00
S300PMD1Y	10592	1978.30	9994.91	0.00	302000.00
S400PMD1Y	9650	2810.60	13730.66	0.00	500000.00
S500PMD1Y	7638	4292.58	17926.94	0.00	424531.81
R100PMDF1Y	15176	0.03	0.17	0.00	1.00
R2OOPMDF1Y	13701	0.03	0.18	0.00	1.00
R300PMDF1Y	15723	0.02	0.15	0.00	1.00
R400PMDF1Y	14763	0.02	0.15	0.00	1.00
R500PMDF1Y	17114	0.04	0.19	0.00	1.00
S100PMDF1Y	10643	0.03	0.16	0.00	1.00
S100PMDF11 S200PMDF1Y	9562	0.03	0.16	0.00	1.00
S300PMDF1Y	10592	0.03	0.17	0.00	1.00
S400PMDF11	9650	0.02	0.13	0.00	1.00
S500PMDF1Y	7638	0.02	0.14	0.00	1.00
POOCEMPLII	1000	0.04	U • ± 3	0.00	1.00

Categorical Variable Codes

Value	R100PHOSF1Y	R200PHOSF1Y	R300PHOSF1Y	R400PHOSF1Y	R500PHOSF1Y
.m:Missing	10	3		16	
0.No	15038	13583			16907
1.Yes	138	118	102	102	207
Value	S100PHOSF1Y	S200PHOSF1Y	S300PHOSF1Y		S500PHOSF1Y
.m:Missing	5	2		2	
.u:Unmar			4782		5227
.v:SP NR	333	131	349	280	501
0.No	10567		10542	9591	7537
1.Yes	76	62	50	59	101
Value			R300PFHH0F1Y		
.m:Missing	10	3		16	
0.No	15118	13670			
1.Yes	58	31	22	26	
Value	S100PFHH0F1Y		S300PFHH0F1Y	S400PFHHOF1Y	
.m:Missing	5	2		2	
.u:Unmar		4009			
.v:SP NR		131			
0.No	10609	9544	10578	9636	
1.Yes	34	18	14	14	
Value	R100PDENF1Y	R200PDENF1Y	R300PDENF1Y	R400PDENF1Y	R500PDENF1Y
.m:Missing	10	3		16	
0.No	15090	13583	15584	14636	16849
1.Yes	86	118	139	127	265
Value	S100PDENF1Y	S200PDENF1Y	S300PDENF1Y	S400PDENF1Y	S500PDENF1Y
.m:Missing	5	2		2	
.u:Unmar	4205	4009	4782	4847	5227

.v:SP NR	333	131	349	280	501
0.No	10592	9479	10513	9585	7517
1.Yes	51	83	79	65	121
Value	R100POSRGF1Y	R200POSRGF1Y	R300POSRGF1Y	R400POSRGF1Y	R500POSRGF1Y
.m:Missing	10	3		16	
0.No	15149	13681	15702	14754	17030
1.Yes	27	20	21	9	84
Value	S100POSRGF1Y	S200POSRGF1Y	S300POSRGF1Y	S400POSRGF1Y	S500POSRGF1Y
.m:Missing	5	2		2	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	10624	9553	10579	9648	7588
1.Yes	19	9	13	2	50
Value	R100PD0CF1Y	R200PD0CF1Y	R300PD0CF1Y	R400PD0CF1Y	R500PD0CF1Y
.m:Missing	10	3		16	
0.No	14912	13465	15567	14635	16783
1.Yes	264	236	156	128	331
Value	S100PD0CF1Y	S200PD0CF1Y	S300PD0CF1Y	S400PD0CF1Y	S500PD0CF1Y
.m:Missing	5	2		2	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	10484	9417	10512	9584	7495
1.Yes	159	145	80	66	143
Value	R100PMDF1Y	R200PMDF1Y	R300PMDF1Y	R400PMDF1Y	R500PMDF1Y
.m:Missing	10	3		16	
0.No	14697	13251	15359	14421	16471
1.Yes	479	450	364	342	643
Value	S100PMDF1Y	S200PMDF1Y	S300PMDF1Y	S400PMDF1Y	S500PMDF1Y
.m:Missing	5	2		2	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	10356	9286	10399	9467	7361
1.Yes	287	276	193	183	277

How Constructed

RWOOPHOS1Y is the out of pocket hospitalizations expenditure in the last 12 months. RwOOPFHHO1Y is the total out of pocket homeopath and folk healer (curandero) expenditures in the last 12 months. RwOOPDEN1Y is the total out of pocket dentist expenditures in the last 12 months. RwOOPDC1Y is the total out of pocket outpatient surgery expenditures in the last 12 months. RwOOPDC1Y is the total out of pocket doctor expenditures in the last 12 months. RwOOPMD1Y is the total out of pocket medical expenditure in the last 12 months.

All components in the out of pocket expenses were imputed separately by the MHAS. In Wave 1, the imputed components included: hospital costs (for overnight stays only), folk healer (curandero), homeopath, dentist, outpatient surgery costs, and doctor. After Wave 2, the options folk healer and homeopath were grouped into one option. Starting in Wave 5, the option for folk healer and homepath was deleted. The questions ask "about how much did you pay for these?".

RWOOPHOSF1Y, RWOOPFHHOF1Y, RWOOPDENF1Y, RWOOPOSRGF1Y, RWOOPDOCF1Y, and RWOOPMDF1Y indicate whether one or all components included to construct RWOOPHOS1Y, RWOOPFHHO1Y, RWOOPDEN1Y, RWOOPDSRG1Y, RWOOPDOC1Y, and RWOOPMD1Y, respectively, were imputed by the MHAS.

Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWOOPHOS1Y, RWOOPFHHO1Y, RWOOPDEN1Y, RWOOPOSRG1Y, RWOOPDOC1Y, and RWOOPMD1Y are assigned special missing values .d or .r, if they answered don't know or refused, respectively, and the value was not imputed. They are assigned special missing .k if the respondent reported that they paid in-kind. The variables are also assigned special missing value .m for the cases that failed to complete Section D (Medical

Expenditures). The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SWOOPHOS1Y, SWOOPFHHO1Y, SWOOPDEN1Y, SWOOPOSRG1Y, SWOOPDC1Y, SWOOPMD1Y, SWOOPHOSF1Y, SWOOPFHHOF1Y, SWOOPDENF1Y, SWOOPDCF1Y, and SWOOPMDF1Y are taken from the Wave 'w' spouse's values for the respective respondent variables. In addition to the special missing codes used in the respondent variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

In Wave 1, the MHAS imputed components of out of pocket medical expenditure were: hospital costs (for overnight stays only), folk healer (curandero), homeopath, dentist, outpatient surgery costs, and doctor. After Wave 2, the options folk healer and homeopath were grouped into one option. Starting in Wave 5, the option folk healer and homepath was deleted. The questions ask "about how much did you pay for these?".

Differences with the RAND HRS/Harmonized HRS

The MHAS imputed all the variables used as components of RwOOPMD. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

```
Wave 1:
                    if imputed value
    D6IMP
    D9 1IMP
                    if imputed value
    D9 2IMP
                    if imputed value
    D9 3IMP
                    if imputed value
    D9 4IMP
                    if imputed value
    D9 5IMP
                   if imputed value
                   total hospitalization expenditures (imputed)
    IMAMD6
    IMAMD9 1
                   total folkhealer (curandero) expenditures (imputed)
    IMAMD9 2
                   total homeopath expenditures (imputed)
    IMAMD9 3
                   total dental expenditures (imputed)
    IMAMD9 4
                   total outpatient procedure expenditures (imputed)
    IMAMD9 5
                   total medical visits expenditures (imputed)
Wave 2:
    D13IMP
                    if imputed value
                    if imputed value
    D16 1IMP
    D16 2IMP
                    if imputed value
    D16 3IMP
                    if imputed value
    D16 4IMP
                   if imputed value
    IMAMD13
                   total hospitalization expenditures (imputed)
    IMAMD16 1
                   total curandero/homeopath expenditures (imputed)
    IMAMD16 3
                   total outpatient procedure expenditures (imputed)
    IMAMD16 4
                   total medical visits expenditures (imputed)
Wave 3:
    D6 IMP 12
    D9 1 IMP 12
    D9_2_IMP_12
    D9_3_IMP_12
    D9_4_IMP_12
    IMAMD6 12
    IMAMD9_1_12
    IMAMD9 3 12
    IMAMD9 4 12
Wave 4:
    D6 IMP 15
                    Total hospitalization costs (Flag if imputed value)
    D9 1 IMP 15
                    Total curandero/ homeopath costs (Flag if imputed value
    D9 2 IMP 15
                    Total dentist costs (Flag if imputed value)
```

D9_3_IMP_15 D9 4 IMP 15	Total outpatient procedure costs (Flag if imputed value Total medical visits costs (Flag if imputed value)
$\overline{\text{IMAMD}}6 1\overline{5}$	Total hospitalization costs (imputed)
IMAMD9_1_15	Total curandero/ homeopath costs(imputed)
IMAMD9_3_15	Total outpatient procedure costs (imputed)
IMAMD9_4_15	Total medical visits costs (imputed)
Wave 5:	
D6_IMP_18	Total hospitalization costs (Flag if imputed value)
D9_2_IMP_18	Total outpatient procedure costs (Flag if imputed value
D9_3_IMP_18	Total medical visits costs (Flag if imputed value)
IMAMD6_18	Total hospitalization costs (imputed)
IMAMD9_2_18	Total outpatient procedure costs (imputed)
IMAMD9_3_18	Total medical visits costs (imputed)

Covered by Federal Government Health Insurance Program

Wave	Variable	Label							Туре
1	R1HIGOV	r1higov:	w1	R	Covered 1	ьу	government	plan	Categ
2	R2HIGOV	r2higov:	w2	R	Covered 1	оу	government	plan	Categ
3	R3HIGOV	r3higov:	wЗ	R	Covered 1	оу	government	plan	Categ
4	R4HIGOV	r4higov:	w4	R	Covered 1	by	government	plan	Categ
5	R5HIGOV	r5higov:	w5	R	Covered 3	οу	government	plan	Categ
1	S1HIGOV	s1higov:	w1	S	Covered 1	ьу	government	plan	Categ
2	S2HIGOV	s2higov:	w2	S	Covered 3	оу	government	plan	Categ
3	S3HIGOV	s3higov:	wЗ	S	Covered 3	оу	government	plan	Categ
4	S4HIGOV	s4higov:	w4	S	Covered 1	оу	government	plan	Categ
5	S5HIGOV	s5higov:	w5	S	Covered 1	bу	government	plan	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIGOV	15148	0.58	0.49	0.00	1.00
R2HIGOV	13691	0.59	0.49	0.00	1.00
R3HIGOV	15720	0.85	0.36	0.00	1.00
R4HIGOV	14757	0.90	0.31	0.00	1.00
R5HIGOV	17074	0.89	0.31	0.00	1.00
S1HIGOV	10625	0.58	0.49	0.00	1.00
S2HIGOV	9557	0.60	0.49	0.00	1.00
S3HIGOV	10591	0.86	0.34	0.00	1.00
S4HIGOV	9647	0.91	0.29	0.00	1.00
S5HIGOV	7611	0.92	0.27	0.00	1.00

Categorical Variable Codes

Value	R1HIGOV	R2HIGOV	R3HIGOV	R4HIGOV	R5HIGOV
.d:DK	5	9	3	6	
.m:Missing	10	3		16	
.r:Refuse	23	1			40
0.No	6349	5598	2355	1536	1857
1.Yes	8799	8093	13365	13221	15217
Value	S1HIGOV	S2HIGOV	S3HIGOV	S4HIGOV	S5HIGOV
.d:DK	2	5	1	3	
.m:Missing	5	2		2	
.r:Refuse	16				27
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	4414	3847	1451	903	624
1.Yes	6211	5710	9140	8744	6987

How Constructed

RwHIGOV indicates whether the respondent is covered by any government health insurance program. The question asks if the respondent has the right to medical attention in an organization or institution that provided the service. The options listed for the respondent changed starting in Wave 3 to include two new organizations: ISSSTE Estatal and Seguro Popular. RwHIGOV is coded as 0 if the respondent is not covered by any government health insurance program, and is coded as 1 if the respondent is covered by at least one government health insurance program. RwHIGOV is assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwHIGOV is taken from the Wave 'w' spouse's value for RwHIGOV. In addition to the special missing codes used in RwHIGOV, if the respondent is not designated as coupled in the current wave and assumed to be

single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Respondents were asked if they had the right to medical attention in an organization or institution that provided the service. In Waves 1 and 2, the list included the following: the Mexican Social Security Institute (Instituto Mexican del Seguro Social, IMSS) which is a government organization that provides medical attention, pensions and social security in Mexico; the Institute for Social Security and Services for State Workers (Instituto de Seguridad y Servicios Sociales de los Trabajadores del Estado, ISSSTE) which is a federal government organization that administers part of Mexico's health care and social security systems, and provides assistance in cases of disability, old age, risks in labor, and death to federal workers; and the Mexican state-owned petroleum company (Petróleos Mexicanos, PEMEX), Defense, and Marines medical attention program for their workers and members. Starting in Wave 3, the ISSSTE option also included State ISSSTE (ISSSTE Estatal). Also, Seguro Popular was included as an additional option. Seguro Popular is a public health insurance program that covers a wide range of services without co-pays for its affiliates. It was established by the government in 2003 as an effort to expand health care to all in Mexico.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the respondent is asked if they are covered by any government health insurance program. In the MHAS, the respondent is asked if they have 'the right to medical attention' in an organization or institution. Respondents are asked if they had right to each of the options including different government programs, private insurance, and other programs (not listed before).

Wave 1:	
D1 1	imss
D1 2	issste
D1 ³	pemex
Wave 2:	
D8_1	have rights to social security (imss)
D8_2	have rights to issste
D8_3	have rights to pemex, defense or navy
Wave 3:	
D1_1_12	Does respondent have a right to medical attention_IMSS
D1_2_12	Does respondent have a right to medical attention_ISSST
D1_3_12	Does respondent have a right to medical attention_Seg P
D1_4_12	Does respondent have a right to medical attention: PEMEX
Wave 4:	
D1_1_15	Does respondent have a right to medical attention: IMSS
D1_2_15	Does respondent have a right to medical attention: ISSS
D1_3_15	Does respondent have a right to medical attention: Segu
D1_4_15	Does respondent have a right to medical attention: PEME
Wave 5:	
D1_1_18	Does R have a right to medical attention: IMSS
D1_2_18	Does R have a right to medical attention: ISSSTE/State
D1_3_18	Does R have a right to medical attention: Seguro Popula
D1_4_18	Does R have a right to medical attention: PEMEX, Defens

Covered by Private Health Insurance

Wave	Variable	Label	Type
1	R1HIPRIV	rlhipriv: w1 R Covered by private health insurance	Categ
2	R2HIPRIV	r2hipriv: w2 R Covered by private health insurance	Categ
3	R3HIPRIV	r3hipriv: w3 R Covered by private health insurance	Categ
4	R4HIPRIV	r4hipriv: w4 R Covered by private health insurance	Categ
5	R5HIPRIV	r5hipriv: w5 R Covered by private health insurance	Categ
1	S1HIPRIV	slhipriv: w1 S Covered by private health insurance	Categ
2	S2HIPRIV	s2hipriv: w2 S Covered by private health insurance	Categ
3	S3HIPRIV	s3hipriv: w3 S Covered by private health insurance	Categ
4	S4HIPRIV	s4hipriv: w4 S Covered by private health insurance	Categ
5	S5HIPRIV	s5hipriv: w5 S Covered by private health insurance	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIPRIV	14960	0.02	0.15	0.00	1.00
R2HIPRIV	13691	0.02	0.13	0.00	1.00
R3HIPRIV	15702	0.02	0.15	0.00	1.00
R4HIPRIV	14749	0.02	0.15	0.00	1.00
R5HIPRIV	17057	0.02	0.12	0.00	1.00
S1HIPRIV	10483	0.02	0.15	0.00	1.00
S2HIPRIV	9557	0.02	0.14	0.00	1.00
S3HIPRIV	10576	0.02	0.15	0.00	1.00
S4HIPRIV	9641	0.02	0.15	0.00	1.00
S5HIPRIV	7605	0.01	0.11	0.00	1.00

Categorical Variable Codes

Value	R1HIPRIV	R2HIPRIV	R3HIPRIV	R4HIPRIV	R5HIPRIV
.d:DK	63	9	5	7	3
.m:Missing	10	3		16	
.r:Refuse	153	1	16	7	54
0.No	14636	13451	15318	14429	16792
1.Yes	324	240	384	320	265
Value	S1HIPRIV	S2HIPRIV	S3HIPRIV	S4HIPRIV	S5HIPRIV
.d:DK	52	5	2	4	
.m:Missing	5	2		2	
.r:Refuse	108		14	5	33
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	10249	9378	10320	9426	7504
1.Yes	234	179	256	215	101

How Constructed

RwHIPRIV indicates whether the respondent is covered by any private medical health insurance. RwHIPRIV is coded as 0 if the respondent is not covered by any private medical health insurance, and is coded as 1 if the respondent is covered by private medical health insurance. RwHIPRIV is assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwHIPRIV is taken from the Wave 'w' spouse's value for RwHIPRIV. In addition to the special missing codes used in RwHIPRIV, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the respondent is asked if they are covered by any private health insurance program. In the MHAS, the respondent is asked if they have 'the right to medical attention' in an organization or institution. Respondents are asked if they had right to each of the options including different government programs, private insurance, and other programs (not listed before).

Wave 1:	
D1_4	private physician
Wave 2:	
D8_4	have rights to private medical insurance
Wave 3:	
D1 5 12	Does respondent have a right to medical attention Priva
Wave 4:	_
D1 5 15	Does respondent have a right to medical attention: Priv
Wave 5:	
D1 5 18	Does R have a right to medical attention: Private Medic

Covered by Health Insurance from a Current or Previous Employer

Wave	Variable	Label	Type
1	R1COVR_M	rlcovr_m: w1 R Covered by respondent's employer plan	Categ
2	R2COVR_M	r2covr_m: w2 R Covered by respondent's employer plan	Categ
3	R3COVR_M	r3covr_m: w3 R Covered by respondent's employer plan	Categ
4	R4COVR_M	r4covr_m: w4 R Covered by respondent's employer plan	Categ
5	R5COVR_M	r5covr_m: w5 R Covered by respondent's employer plan	Categ
1	S1COVR_M	slcovr_m: w1 S Covered by respondent's employer plan	Categ
2	S2COVR_M	s2covr_m: w2 S Covered by respondent's employer plan	Categ
3	S3COVR_M	s3covr_m: w3 S Covered by respondent's employer plan	Categ
4	S4COVR_M	s4covr_m: w4 S Covered by respondent's employer plan	Categ
5	S5COVR_M	s5covr_m: w5 S Covered by respondent's employer plan	Categ
1	R1COVS_M	rlcovs_m: w1 R Covered by spouse's employer plan	Categ
2	R2COVS_M	r2covs_m: w2 R Covered by spouse's employer plan	Categ
3	R3COVS_M	r3covs_m: w3 R Covered by spouse's employer plan	Categ
4	R4COVS_M	r4covs_m: w4 R Covered by spouse's employer plan	Categ
5	R5COVS_M	r5covs_m: w5 R Covered by spouse's employer plan	Categ
1	S1COVS_M	slcovs_m: w1 S Covered by spouse's employer plan	Categ
2	S2COVS_M	s2covs_m: w2 S Covered by spouse's employer plan	Categ
3	S3COVS_M	s3covs_m: w3 S Covered by spouse's employer plan	Categ
4	S4COVS_M	s4covs_m: w4 S Covered by spouse's employer plan	Categ
5	S5COVS M	s5covs m: w5 S Covered by spouse's employer plan	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVR M	15148	0.25	0.43	0.00	1.00
R2COVR M	13691	0.25	0.43	0.00	1.00
R3COVR M	15706	0.27	0.45	0.00	1.00
R4COVR M	14772	0.29	0.45	0.00	1.00
R5COVR_M	17071	0.30	0.46	0.00	1.00
S1COVR M	10625	0.25	0.44	0.00	1.00
S2COVR M	9557	0.26	0.44	0.00	1.00
S3COVR M	10583	0.29	0.45	0.00	1.00
S4COVR_M	9648	0.30	0.46	0.00	1.00
S5COVR_M	7611	0.30	0.46	0.00	1.00
R1COVS_M	15148	0.15	0.36	0.00	1.00
R2COVS_M	13691	0.15	0.36	0.00	1.00
R3COVS_M	15706	0.17	0.38	0.00	1.00
R4COVS_M	14772	0.18	0.38	0.00	1.00
R5COVS_M	17071	0.17	0.37	0.00	1.00
S1COVS M	10625	0.18	0.38	0.00	1.00
S2COVS_M	9557	0.18	0.38	0.00	1.00
s3covs_m	10583	0.19	0.39	0.00	1.00
S4COVS_M	9648	0.20	0.40	0.00	1.00
s5covs M	7611	0.20	0.40	0.00	1.00

Categorical Variable Codes

Value		R1COVR M	R2COVR M	R3COVR M	R4COVR M	R5COVR M
.d:DK		_ 5	_9	3	_ ₇	2
.m:Missing		10	3	14		
.r:Refuse	I	23	1			41

0.No	11431	10300	11424	10514	12029
1.Yes	3717	3391	4282	4258	5042
Value	S1COVR M	S2COVR M	S3COVR M	S4COVR M	S5COVR M
.d:DK	2	5	1		DJCOVIL_II
.m:Missing	5	2	8	7	
.r:Refuse	16	۷	0		2.7
.u:Unmar	4205	4009	4782	4847	5227
				280	
.v:SP NR	333	131	349		501
0.No	7917	7078	7553	6760	5297
1.Yes	2708	2479	3030	2888	2314
Value	R1COVS M	R2COVS M	R3COVS M	R4COVS M	R5COVS_M
.d:DK	5	_9	_3	_ ₇	2
.m:Missing	10	3	14		
.r:Refuse	23	1			41
0.No	12844	11618	13017	12116	14213
1.Yes	2304	2073	2689	2656	2858
Value	S1COVS M	S2COVS M	S3COVS M	S4COVS M	S5COVS M
.d:DK	_	_	33COV3_M		33COV3_M
·	2 5	5 2	8	4	
.m:Missing		۷	8		0.7
.r:Refuse	16		4500		27
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	8744	7866	8566	7709	6111
1.Yes	1881	1691	2017	1939	1500

How Constructed

All respondents are asked whether they have the right to medical attention through different types of providers for employees: (1) Social Security (IMSS), (2) ISSSTE, (3) Pemex, Defensa or Marina. Starting in Wave 3, State ISSSTE was listed in the same option as ISSSTE. For each possible provider of medical attention that the respondent identifies, the respondent is asked to select one reason why they have the right to these medical services with the options of: A worker, Affiliated on your own, Retired, Spouse of insured, Mother or father of insured, Other.

RwCOVR_M indicates whether the respondent is covered by health insurance because they are or were a worker. A value of 1 is assigned if the respondent answers they have the right to medical attention through any of the 3 possible types of providers for employees and lists the reason for having the right to medical services for that provider as because they are a worker or because they are retired, for at least one of the providers. A value of 0 is assigned if the respondent does not have any right to medical attention or if their right to medical attention was always due to reasons other than being a worker or being retired. When respondents don't know, refuse, or their answer is missing for another reason RwCOVR_M is assigned special missing values .d, .r, or .m, respectively. RwCOVR_M is set to plain missing (.) for respondents who did not respond to the current wave.

RwCOVS_M indicates whether the respondent is covered by health insurance because their spouse is or was a worker. A value of 1 is assigned if the respondent answers they have the right to medical attention through any of the 3 possible types of providers for employees and lists the reason for having the right to medical services for that provider as because they are the spouse of the insured, for at least one of the providers. A value of 0 is assigned if the respondent does not have any right to medical attention or if their right to medical attention was always due to reasons other than being the spouse of the insured. When respondents don't know, refuse, or their answer is missing for another reason RwCOVS_M is assigned special missing values .d, .r, or .m, respectively. RwCOVS_M is set to plain missing (.) for respondents who did not respond to the current wave.

SwCOVR_M indicates whether the respondent's spouse or partner is covered by the respondent's employer. SwCOVS_M indicates whether the respondent's spouse is covered by the spouse's employer. SwCOVR_M and SwCOVS_M are taken from the Wave 'w' spouse's values for RwCOVR_M and RwCOVS_M. In addition to the special missing codes used in RwCOVR_M and RwCOVS_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Starting at Wave 3, the ISSSTE option also included State ISSSTE (ISSSTE Estatal).

Differences with the RAND HRS/Harmonized HRS

Though health insurance is often provided through employers in both Mexico and the US, the arrangements and organization of these plans are very different. In Mexico, citizens employed outside of the public sector and their dependents can access medical services through the governmental system of IMSS which is funded equally by the employee, the private employer, and the federal government. Public employees and their dependents can access medical services through ISSSTE, Pemex, Defensa or Marina, depending on what governmental organization they work for. In the United States, people employed outside of the public sector and their dependents are often provided private health insurance through their employer. Public employees and their dependents are often provided health insurance through government run systems like FEHBP and MHS, depending on what governmental organization they work for. These differences in the provision of health insurance for employees are reflected in differences between the HRS and the MHAS surveys.

In the HRS, respondents are first asked about government health insurance systems which include questions for public employees who are provided health insurance through government run systems and then respondents are asked about other private health insurance plans. In the RAND HRS, RwCOVR and RwCOVS use information from the set of HRS questions about private health insurance and identifies whether those private plans are provided by current or former employers of the respondent or the spouse, respectively. In the MHAS, respondents are asked about government-run health insurance for employees. In the Harmonized MHAS, RwCOVR_M identifies whether government-run health insurance is provided because the respondent is or was a worker. In the Harmonized MHAS, RwCOVS_M identifies whether government-run health insurance is provided because the respondent's spouse is or was a worker. RwCOVR and RwCOVS in the RAND HRS therefore does not capture government run health insurance provided to public employees as does RwCOVR_M and RwCOVS_M in the Harmonized MHAS. Given these considerable differences, these sets of variables should not be considered immediately comparable between the RAND HRS and the Harmonized MHAS.

```
Wave 1:
   D2 1
                    reason to access to imss
   D2 2
                    reason to access to issste
   D2 3
                    reason to access to pemex
Wave 2:
   D9 1
                    why have rights to social security (imss)
   D9 2
                    why have rights to issste
                    why have rights to pemex, defense or navy
Wave 3:
   D2 1 12
                    Reason respondent has a right to medical services IMSS
   D2 2 12
                    Reason respondent has a right to medical services ISSST
   D2 4 12
                    Reason respondent has a right to medical services: PEMEX
Wave 4:
   D2_1_15
                    Reason respondent has a right to medical services: IMSS
   D2_2_15
                    Reason respondent has a right to medical services: ISSS
                    Reason respondent has a right to medical services: PEME
   D2_4_15
Wave 5:
   D2 1 18
                    Reason R has a right to medical services: IMSS
   D2 2 18
                    Reason R has a right to medical services: ISSSTE/State
    D2 4 18
                    Reason R has a right to medical services: PEMEX, Defens
```

Number of Health Insurance Plans

Wave	Variable	Label								Туре
1	R1HENUM	r1henum:	w1	R	Number	of	health	insurance	plans	Cont
2	R2HENUM	r2henum:	w2	R	Number	of	health	insurance	plans	Cont
3	R3HENUM	r3henum:	wЗ	R	Number	of	health	insurance	plans	Cont
4	R4HENUM	r4henum:	w4	R	Number	of	health	insurance	plans	Cont
5	R5HENUM	r5henum:	w5	R	Number	of	health	insurance	plans	Cont
1	S1HENUM	s1henum:	w1	S	Number	of	health	insurance	plans	Cont
2	S2HENUM	s2henum:	w2	S	Number	of	health	insurance	plans	Cont
3	S3HENUM	s3henum:	wЗ	S	Number	of	health	insurance	plans	Cont
4	S4HENUM	s4henum:	w4	S	Number	of	health	insurance	plans	Cont
5	S5HENUM	s5henum:	w5	S	Number	of	health	insurance	plans	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HENUM	14924	0.66	0.57	0.00	4.00
R2HENUM	13688	0.69	0.57	0.00	4.00
R3HENUM	15651	0.97	0.49	0.00	4.00
R4HENUM	14727	1.04	0.48	0.00	4.00
R5HENUM	17046	0.99	0.43	0.00	4.00
S1HENUM	10458	0.66	0.57	0.00	3.00
S2HENUM	9556	0.71	0.57	0.00	4.00
S3HENUM	10550	0.99	0.48	0.00	4.00
S4HENUM	9619	1.05	0.46	0.00	4.00
S5HENUM	7597	1.03	0.42	0.00	4.00

How Constructed

RWHENUM is the count of the number of health insurance plans the respondent reports having rights to. The question asks if the respondent has the right to medical attention in an organization or institution that provided the service; the options include different government programs, private insurance, and other programs. The options listed for the respondent changed after Wave 3 including two new organizations: ISSSTE Estatal was added to the existing option ISSSTE and Seguro Popular was added as a new option.

In Waves 1 and 2, RwHENUM = sum (IMSS + ISSSTE + PEMEX/Marine/Defense + Private + Other). The maximum total number is 5.

Starting in Wave 3, RwHENUM = sum (IMSS + ISSSTE/State ISSSTE + PEMEX/Marine/Defense + Seguro Popular + Private + Other). The maximum total number is 6.

RWHENUM is set to 0, if the respondent reports they do not have right to medical attention. RWHENUM is assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

Swhenum is taken from the Wave 'w' spouse's value for Rwhenum. In addition to the special missing codes used in Rwhenum, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Respondents were asked if they had the right to medical attention in an organization or institution that provided the service. In Waves 1 and 2, the list included the following: the Mexican Social Security Institute (Instituto Mexican del Seguro Social, IMSS) which is a government organization that provides medical attention, pensions and social security in Mexico; the Institute for Social Security and Services

for State Workers (Instituto de Seguridad y Servicios Sociales de los Trabajadores del Estado, ISSSTE) which is a federal government organization that administers part of Mexico's health care and social security systems, and provides assistance in cases of disability, old age, risks in labor, and death to federal workers; and the Mexican state-owned petroleum company (Petróleos Mexicanos, PEMEX), Defense, and Marines medical attention program for their workers and members. Starting in Wave 3, the ISSSTE option also included State ISSSTE (ISSSTE Estatal). Also, Seguro Popular was also included as an additional option. Seguro Popular is a public health insurance program that covers a wide range of services without co-pays for its affiliates. It was established by the government in 2003 as an effort to expand health care to all in Mexico.

After Wave 3, the possible total number of health insurance plans increased from 5 to 6.

Differences with the RAND HRS/Harmonized HRS

In RAND HRS, the respondent is asked if they are covered by any government or private health insurance program, and they are subsequently asked if they are covered by certain specific plans. In the MHAS, the respondent is asked if they have 'the right to medical attention' in an organization or institution. Respondents are asked if they had the right to each of the options including different government programs, private insurance, and other programs (not listed before).

```
Wave 1:
   D1 1
                    imss
   D1 2
                    issste
    D1 3
                    pemex
    D1 4
                    private physician
    D1 5
                    other medical service
Wave 2:
   D8 1
                   have rights to social security (imss)
   D8 2
                    have rights to issste
   D8 3
                    have rights to pemex, defense or navy
   D8 4
                    have rights to private medical insurance
   D8 5
                    have rights to other
Wave 3:
   D1 1 12
                    Does respondent have a right to medical attention IMSS
   D1 2 12
                    Does respondent have a right to medical attention ISSST
   D1 3 12
                    Does respondent have a right to medical attention Seg P
   D1 4 12
                    Does respondent have a right to medical attention: PEMEX
    D1 5 12
                    Does respondent have a right to medical attention Priva
   D1 6 12
                    Does respondent have a right to medical attention OTHER
Wave 4:
   D1 1 15
                    Does respondent have a right to medical attention: IMSS
   D1_2_15
                    Does respondent have a right to medical attention: ISSS
                    Does respondent have a right to medical attention: Segu
    D1_3_15
    D1_4_15
                    Does respondent have a right to medical attention: PEME
                    Does respondent have a right to medical attention: Priv
    D1_5_15
   D1 6 15
                    Does respondent have a right to medical attention: Othe
Wave 5:
   D1 1 18
                    Does R have a right to medical attention: IMSS
   D1 2 18
                    Does R have a right to medical attention: ISSSTE/State
    D1 3 18
                    Does R have a right to medical attention: Seguro Popula
    D1 4 18
                    Does R have a right to medical attention: PEMEX, Defens
    D1 5 18
                    Does R have a right to medical attention: Private Medic
                    Does R have a right to medical attention: Other
    D1 6 18
```

Cognition Testing Conditions

Wave	Variable	Label							Type
1	R1NOVISUAL	r1novisual:	w1	R	Visual	Problems			Categ
2	R2NOVISUAL	r2novisual:	w2	R	Visual	Problems			Categ
3	R3NOVISUAL	r3novisual:	wЗ	R	Visual	Problems			Categ
4	R4NOVISUAL	r4novisual:	w4	R	Visual	Problems			Categ
5	R5NOVISUAL	r5novisual:	w5	R	Visual	Problems			Categ
1	S1NOVISUAL	s1novisual:	w1	S	Visual	Problems			Categ
2	S2NOVISUAL	s2novisual:	w2	S	Visual	Problems			Categ
3	S3NOVISUAL	s3novisual:	wЗ	S	Visual	Problems			Categ
4	S4NOVISUAL	s4novisual:	w4	S	Visual	Problems			Categ
5	S5NOVISUAL	s5novisual:	w5	S	Visual	Problems			Categ
1	R1NOPENCIL	r1nopencil:	w1	R	Problem	Holding	а	Pencil	Categ
2	R2NOPENCIL	r2nopencil:	w2	R	Problem	Holding	а	Pencil	Categ
3	R3NOPENCIL	r3nopencil:	wЗ	R	Problem	Holding	а	Pencil	Categ
4	R4NOPENCIL	r4nopencil:	w4	R	Problem	Holding	а	Pencil	Categ
5	R5NOPENCIL	r5nopencil:	w5	R	Problem	Holding	а	Pencil	Categ
1	S1NOPENCIL	s1nopencil:	w1	S	Problem	Holding	а	Pencil	Categ
2	S2NOPENCIL	s2nopencil:	w2	S	Problem	Holding	а	Pencil	Categ
3	S3NOPENCIL	s3nopencil:	wЗ	S	Problem	Holding	а	Pencil	Categ
4	S4NOPENCIL	s4nopencil:	w4	S	Problem	Holding	а	Pencil	Categ
5	S5NOPENCIL	s5nopencil:	w5	S	Problem	Holding	а	Pencil	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
D131017T G113 T	12060	0.00	0 10	0.00	1 00
R1NOVISUAL	13960	0.02	0.13	0.00	1.00
R2NOVISUAL	12495	0.03	0.17	0.00	1.00
R3NOVISUAL	14116	0.00	0.07	0.00	1.00
R4NOVISUAL	13714	0.00	0.05	0.00	1.00
R5NOVISUAL	15650	0.00	0.06	0.00	1.00
S1NOVISUAL	9858	0.01	0.12	0.00	1.00
S2NOVISUAL	8728	0.02	0.15	0.00	1.00
S3NOVISUAL	9652	0.00	0.06	0.00	1.00
S4NOVISUAL	9123	0.00	0.05	0.00	1.00
S5NOVISUAL	7013	0.00	0.06	0.00	1.00
DONOVIDONE	7013	0.00	0.00	0.00	1.00
R1NOPENCIL	13703	0.06	0.23	0.00	1.00
R2NOPENCIL	12101	0.04	0.20	0.00	1.00
R3NOPENCIL	14126	0.02	0.14	0.00	1.00
R4NOPENCIL	13741	0.02	0.14	0.00	1.00
R5NOPENCIL	15762	0.02	0.15	0.00	1.00
S1NOPENCIL	9718	0.05	0.21	0.00	1.00
S2NOPENCIL	8525	0.03	0.18	0.00	1.00
S3NOPENCIL	9653	0.02	0.12	0.00	1.00
S4NOPENCIL	9137	0.02	0.13	0.00	1.00
S5NOPENCIL	7067	0.03	0.16	0.00	1.00

Value	 R1NOVISUAL	R2NOVISUAL	R3NOVISUAL	R4NOVISUAL	R5NOVISUAL
.m:Missing	27	20	128		
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse			43	53	112

.s:Skip	167	11	161	83	24
0.No	13701	12100	14054	13675	15589
1.Yes	259	395	62	39	61
Value	S1NOVISUAL	S2NOVISUAL	S3NOVISUAL	S4NOVISUAL	S5NOVISUAL
.m:Missing	10	6	86		
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse			21	30	54
.s:Skip	120	9	107	29	8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9717	8525	9615	9101	6990
1.Yes	141	203	37	22	23
Value	R1NOPENCIL	R2NOPENCIL	R3NOPENCIL	R4NOPENCIL	R5NOPENCIL
.m:Missing	25	20	132		
.n:not specified			6		
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse			23	26	
.s:Skip	426	405	161	83	24
0.No	12942	11594	13825	13448	15377
1.Yes	761	507	301	293	385
Value	S1NOPENCIL	S2NOPENCIL	S3NOPENCIL	S4NOPENCIL	S5NOPENCIL
.m:Missing	9	6	85		
.n:not specified			4		
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse			17	16	
.s:Skip	261	212	107	29	8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	9263	8230	9503	8972	6887
1.Yes	455	295	150	165	180

How Constructed

These variables indicate whether the respondent reported visual problems or problems holding a pencil, respectively.

In Wave 1, RwNOVISUAL was derived from the variable that indicates the respondent's reading ability (with or without glasses). If the respondent could not see the letters, RwNOVISUAL was set to 1. In Wave 2, RwNOVISUAL was derived from the assessment done to determine if the respondent could see close objects, with glasses if needed. If the respondent could not see the objects, RwNOVISUAL was set to 1. If the respondent had difficulty reading (RwNOVISUAL=1), the respondent was not asked to complete the picture drawing and visual scanning tasks. Starting in Wave 3, RwNOVISUAL was derived from both the assessment and the variable that indicates the respondent's reading ability (with or without glasses). If the respondent reported being able to read or was able to see close objects, then RwNOVISUAL is set to 0. If the respondent reported they could not read, the respondent was not asked to complete the picture drawing and visual scanning tasks.

RWNOPENCIL was derived with similar variables across the waves based on whether the respondent reported any problem holding the pencil they were asked to try to hold. If the respondent has paralysis, tries to hold the pencil but can't, or if they refuse to try, RwNOPENCIL was set to 1. If the respondent was able to hold a pencil, then RwNOPENCIL is set to 0. Also, if RwNOPENCIL was equal to 1 the respondent was not asked to complete the picture drawing and visual scanning tasks.

These variables are set to .p for proxy interviews, .s if the questions were skipped because they could not complete the paper exercises, .i if the code is invalid, and .m if they didn't complete the section but completed the rest of the interview. In Wave 3, RwNOPENCIL is set to special missing value .n if answer was coded as "not applicable". Starting in Wave 3, these variables are set to .r for refused if they refused to read or refused to answer whether they had difficulty using a pencil. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

Swnovisual and Swnopencil are taken from the Wave 'w' spouse's values for Rwnovisual and Rwnopencil, respectively. In addition to the special missing codes used in Rwnovisual and Rwnopencil, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The introductory questions in the Cognition section (Section E) are similar across waves. However, RwNOVISUAL was derived in Wave 1 only from the variable which indicates the respondent's reading ability (with or without glasses), in Wave 2 from the assessment done to determine if the respondent could see close objects, with glasses if needed, and starting in Waves 3 from both the assessment and the variable that indicates the respondent's reading ability (with or without glasses). Also different across waves is that in Waves 1 and 2 the interviews could be completed in a language different from Spanish in which case the cognitive assessment is not completed, and the variables are then set to the special missing .s.

Differences with the RAND HRS/Harmonized HRS

RwNOVISUAL and RwNOPENCIL are MHAS specific and the questions used to derive these variables are only used this study.

Wave 1:	
E1	language
E5	loud voice
E6	hold pencil
E7	problems holding
Wave 2:	
E2	glasses
E3	can respondent see clearly now
E4	have problems holding a pencil
E5	types of pencil-holding problems
Wave 3:	
E3A_12	Interviewer:Can respondent read without glasses
E3B_12	Respondent can read well (with glasses if needed)
E4_12	Does respondent have difficulty using a pencil
E5_12	Respondent's type of difficulties
Wave 4:	
E3A_15	Interviewer:Can respondent read without glasses
E3B_15	Respondent can read well (with glasses if needed)
E4_15	Does respondent have difficulty using a pencil
E5_15	Respondent's type of difficulties
Wave 5:	
E3A_18	Interviewer:Can R read with glasses
E3B_18	R can read well (with glasses if needed)
E4_18	Does R have difficulty using a pencil
E5_18	R's type of difficulties

Self-Reported Memory

Wave	Variable	Label	Туре
3	R3SLFMEM	r3slfmem: w3 R Self-Rated Memory	Categ
5	R4SLFMEM R5SLFMEM	r4slfmem: w4 R Self-Rated Memory r5slfmem: w5 R Self-Rated Memory	Categ Categ
3	S3SLFMEM	s3slfmem: w3 S Self-Rated Memory	Categ
4	S4SLFMEM	s4slfmem: w4 S Self-Rated Memory	Categ
5	S5SLFMEM	s5slfmem: w5 S Self-Rated Memory	Categ
3	R3PSTMEM	r3pstmem: w3 R Memory Compared to the Past	Categ
4	R4PSTMEM	r4pstmem: w4 R Memory Compared to the Past	Categ
5	R5PSTMEM	r5pstmem: w5 R Memory Compared to the Past	Categ
3	S3PSTMEM	s3pstmem: w3 S Memory Compared to the Past	Categ
4	S4PSTMEM	s4pstmem: w4 S Memory Compared to the Past	Categ
5	S5PSTMEM	s5pstmem: w5 S Memory Compared to the Past	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3SLFMEM	14154	3.53	0.84	1.00	5.00
R4SLFMEM	13739	3.60	0.80	1.00	5.00
R5SLFMEM	15690	3.48	0.86	1.00	5.00
S3SLFMEM	9672	3.52	0.84	1.00	5.00
S4SLFMEM	9138	3.58	0.80	1.00	5.00
S5SLFMEM	7035	3.58	0.82	1.00	5.00
R3PSTMEM	14105	2.16	0.50	1.00	3.00
R4PSTMEM	13740	2.21	0.50	1.00	3.00
R5PSTMEM	15688	2.16	0.48	1.00	3.00
S3PSTMEM	9634	2.15	0.50	1.00	3.00
S4PSTMEM	9137	2.20	0.49	1.00	3.00
S5PSTMEM	7032	2.19	0.49	1.00	3.00

Value	R3SLFMEM	R4SLFMEM	R5SLFMEM
.d:DK	11	8	9
.m:Missing	118		
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	165	103	87
1.Excellent	469	382	626
2.Very good	712	548	1003
3.Good	4892	4363	5341
4.Fair	6951	7393	7721
5.Poor	1130	1053	999
Value	S3SIFMEM	S4SLFMEM	SSSLEMEM
Value .d:DK	S3SLFMEM 7	S4SLFMEM 2	S5SLFMEM 1
.d:DK	S3SLFMEM 7 77		S5SLFMEM 1
.d:DK .m:Missing	7		S5SLFMEM 1 563
.d:DK	7 77	2	1
.d:DK	7 77 726	2 470	1 563
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse	7 77 726 110	2 470 42	1 563 39
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar	7 77 726 110 4782	2 470 42 4847	1 563 39 5227
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR	7 77 726 110 4782 349	2 470 42 4847 280	1 563 39 5227 501
.d:DK .m:Missing .p:Proxy interview, not asked .r:Refuse .u:Unmar .v:SP NR 1.Excellent	7 77 726 110 4782 349 345	2 470 42 4847 280 262	563 39 5227 501 215

5.Poor	716	640	517
Value	R3PSTMEM	R4PSTMEM	R5PSTMEM
.d:DK	46	7	9
.m:Missing	121		
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	176	103	89
1.Better	867	614	759
2.About the same	10179	9667	11651
3.Worse	3059	3459	3278
Value	S3PSTMEM	S4PSTMEM	S5PSTMEM
.d:DK	34	4	2
.m:Missing	80		
.p:Proxy interview, not asked	726	470	563
r:Refuse	118	41	41
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Better	581	382	283
2.About the same	7068	6531	5113

How Constructed

RwSLFMEM provides self-reported general rating of memory and RwPSTMEM provides a self-reported measure of change in memory since the last two years.

RWSLFMEM ranges from 1 to 5: a score of 1 stands for excellent, 2 for very good, 3 for good, 4 for fair, and 5 for poor memory. RwPSTMEM ranges from 1 to 3: a score of 1 stands for better, 2 for about the same, and 3 for worse. RwSLFMEM and RwPSTMEM are assigned special missing values .d or .r, if the response was don't know or refused, respectively. These variables are set to .p for proxy interviews, .r if the respondent refused to complete the cognition exercises, and .m if they didn't complete the section but completed the rest of the interview. The variables are plain missing (.) for respondents who did not respond to the current wave.

These questions were only asked starting in Wave 3 (2012).

SwSLFMEM and SwPSTMEM are taken from the Wave 'w' spouse's value for RwSLFMEM and RwFPSTMEM, respectively. In addition to the special missing codes used in RwSLFMEM and RwFPSTMEM, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The self-reported memory questions were only asked starting in Wave 3 (2012).

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS respondents are only asked about their change of memory in the past two years, regardless of when the last interview took place or if it is the first interview.

Wave 3:	
E1A 12	Global self-reported quality of memory
E1B 12	Compared to 2 years ago: respondent reports his/her mem
Wave 4:	
E1A_15	Self-reported memory
E1B_15	Compared to 2 years ago: respondent reports his/her mem
Wave 5:	
E1A_18	Self-reported memory
E1B 18	Compared to 2 years ago: R reports his/her memory quali

Immediate Word Recall

Wave	Variable	Label	Туре
1	R1IMRC_M	rlimrc_m: w1 R Immediate Word Recall 0-8	Cont
2	R2IMRC_M	r2imrc_m: w2 R Immediate Word Recall 0-8	Cont
3	R3IMRC_M	r3imrc_m: w3 R Immediate Word Recall 0-8	Cont
4	R4IMRC_M	r4imrc_m: w4 R Immediate Word Recall 0-8	Cont
5	R5IMRC_M	r5imrc_m: w5 R Immediate Word Recall 0-8	Cont
1	S1IMRC_M	slimrc_m: w1 S Immediate Word Recall 0-8	Cont
	S2IMRC_M	s2imrc_m: w2 S Immediate Word Recall 0-8	Cont
3	S3IMRC_M	s3imrc_m: w3 S Immediate Word Recall 0-8	Cont
4	S4IMRC_M	s4imrc_m: w4 S Immediate Word Recall 0-8	Cont
5	S5IMRC_M	s5imrc_m: w5 S Immediate Word Recall 0-8	Cont
1	R1FIMRC_M	rlfimrc_m: wl Cognition Flag R Immediate Word Recall	Categ
	R2FIMRC_M	r2fimrc_m: w2 Cognition Flag R Immediate Word Recall	Categ
3	R3FIMRC_M	r3fimrc_m: w3 Cognition Flag R Immediate Word Recall	Categ
4	R4FIMRC_M	r4fimrc_m: w4 Cognition Flag R Immediate Word Recall	Categ
5	R5FIMRC_M	r5fimrc_m: w5 Cognition Flag R Immediate Word Recall	Categ
1	S1FIMRC_M	slfimrc_m: wl Cognition Flag S Immediate Word Recall	Categ
2	S2FIMRC_M	s2fimrc_m: w2 Cognition Flag S Immediate Word Recall	Categ
3	S3FIMRC_M	s3fimrc_m: w3 Cognition Flag S Immediate Word Recall	Categ
4	S4FIMRC_M	s4fimrc_m: w4 Cognition Flag S Immediate Word Recall	Categ
5	S5FIMRC M	s5fimrc m: w5 Cognition Flag S Immediate Word Recall	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IMRC M	13962	4.76	1.29	0.00	8.00
RIIMRC_M R2IMRC M	12495	4.76	1.49	0.00	8.00
R3IMRC_M R3IMRC M				0.00	
_	14448	4.77	1.25		8.00
R4IMRC_M	13850	4.76	1.25	0.00	8.00
R5IMRC_M	15786	4.85	1.26	0.00	8.00
S1IMRC M	9859	4.84	1.26	0.00	8.00
S2IMRC M	8728	4.46	1.46	0.00	8.00
S3IMRC M	9866	4.85	1.21	0.00	8.00
S4IMRC M	9182	4.83	1.22	0.00	8.00
S5IMRC_M	7075	4.82	1.26	0.00	8.00
R1FIMRC_M	15186	-0.04	0.34	-1.00	1.00
R2FIMRC M	13704	-0.06	0.33	-1.00	1.00
R3FIMRC M	15723	-0.05	0.32	-1.00	1.00
R4FIMRC M	14779	-0.05	0.26	-1.00	1.00
R5FIMRC_M	17114	-0.06	0.30	-1.00	1.00
S1FIMRC M	10648	-0.04	0.33	-1.00	1.00
S2FIMRC_M S2FIMRC M	9564	-0.04	0.33	-1.00	1.00
_					
S3FIMRC_M	10592	-0.04	0.30	-1.00	1.00
S4FIMRC_M	9652	-0.04	0.23	-1.00	1.00
S5FIMRC_M	7638	-0.06	0.29	-1.00	1.00

Value		R1FIMRC M	R2FIMRC_M	R3FIMRC M	R4FIMRC M	R5FIMRC M
-1.Missing, not imputed		1224	1209	1275	929	1328
0.Not Imputed		13394	12128	14031	13722	15544
1.Imputed		568	367	417	128	242

Value		S1FIMRC M	S2FIMRC M	S3FIMRC M	S4FIMRC M	S5FIMRC M
.u:Unmar	j	4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
-1.Missing, not imputed		789	836	726	470	563
0.Not Imputed		9493	8479	9591	9129	6960
1.Imputed		366	249	275	53	115

How Constructed

RWIMRC_M is an MHAS specific variable that provides the measure for immediate verbal recall. Respondents were asked to listen to a list of eight words and repeat as many as they could remember. Respondents are given three consecutive trials and the number of recalled words is recorded. RWIMRC_M is the mean of the score from all three trials. RWIMRC_M was constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwIMRC_M is set to .p for proxy interviews. In Waves 1 and 2, RwIMRC_M was set to .s if the cognition section was skipped because the language of the interview was different from Spanish and .m if responses are missing because they didn't complete the task but completed the rest of the interview. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

RWFIMRC_M is a flag variable indicating whether or not any component of RwIMRC_M was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwIMRC_M and SwFIMRC_M are taken from the Wave 'w' spouse's values for RwIMRC_M and RwFIMRC_M, respectively. In addition to the special missing codes used in RwIMRC_M and RwFIMRC_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS the verbal recall list contains only 8 words.

```
Wave 1 Imputed Cognition:
    E11 A1 IMP 01
                    Verbal Learning List A-Trial 1: Number of Correct Words
    E11 A2 IMP 01
                    Verbal Learning List A-Trial 2: Number of Correct Words
    E11 A3 IMP 01
                    Verbal Learning List A-Trial 3: Number of Correct Words
    E11 B1 IMP 01
                    Verbal Learning List B-Trial 1: Number of Correct Words
    E11 B2 IMP 01
                    Verbal Learning List B-Trial 2: Number of Correct Words
    E11_B3_IMP_01
                    Verbal Learning List A-Trial 3: Number of Correct Words
    E11_FLAG 01
                    Verbal Learning: Flag if Imputed
Wave 2 Imputed Cognition:
   E9_A1_FLAG_03
E9_A1_IMP_03
E9_A2_FLAG_03
                    Verbal Learning List A-Trial 1: Flag if Imputed
                    Verbal Learning List A-Trial 1: Number of Correct Words
                    Verbal Learning List A-Trial 2: Flag if Imputed
    E9 A2 IMP 03
                    Verbal Learning List A-Trial 2: Number of Correct Words
    E9 A3 FLAG 03
                    Verbal Learning List A-Trial 3: Flag if Imputed
    E9 A3 IMP 03
                    Verbal Learning List A-Trial 3: Number of Correct Words
    E9 B1 FLAG 03
                    Verbal Learning List B-Trial 1: Flag if Imputed
    E9 B1 IMP 03
                    Verbal Learning List B-Trial 1: Number of Correct Words
    E9 B2 FLAG 03
                    Verbal Learning List B-Trial 1: Flag if Imputed
```

```
E9 B2 IMP 03
                    Verbal Learning List B-Trial 2: Number of Correct Words
    E9 B3 FLAG 03
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E9 B3 IMP 03
                    Verbal Learning List A-Trial 3: Number of Correct Words
Wave 3 Imputed Cognition:
                    Verbal Learning List A-Trial 1: Flag if Imputed
   E7 A1 FLAG 12
    E7 A1 IMP 12
                    Verbal Learning List A-Trial 1: Number of Correct Words
    E7 A2 FLAG 12
                    Verbal Learning List A-Trial 2: Flag if Imputed
   E7 A2 IMP 12
                    Verbal Learning List A-Trial 2: Number of Correct Words
   E7 A3 FLAG 12
                    Verbal Learning List A-Trial 3: Flag if Imputed
   E7_A3_IMP_12
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E7_B1_FLAG_12
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7_B1_IMP_12
                    Verbal Learning List B-Trial 1: Number of Correct Words
   E7_B2_FLAG_12
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7_B2_IMP_12
E7_B3_FLAG_12
                    Verbal Learning List B-Trial 2: Number of Correct Words
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B3 IMP 12
                    Verbal Learning List A-Trial 3: Number of Correct Words
Wave 4 Imputed Cognition:
   E7 A1 FLAG 15
                    Verbal Learning List A-Trial 1: Flag if Imputed
    E7 A1 IMP 15
                    Verbal Learning List A-Trial 1: Number of Correct Words
   E7 A2 FLAG 15
                    Verbal Learning List A-Trial 2: Flag if Imputed
   E7 A2 IMP 15
                    Verbal Learning List A-Trial 2: Number of Correct Words
   E7 A3 FLAG 15
                    Verbal Learning List A-Trial 3: Flag if Imputed
   E7 A3 IMP 15
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E7_B1_FLAG_15
                    Verbal Learning List B-Trial 1: Flag if Imputed
                    Verbal Learning List B-Trial 1: Number of Correct Words
   E7_B1_IMP_15
   E7_B2_FLAG_15
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7_B2_IMP_15
                    Verbal Learning List B-Trial 2: Number of Correct Words
   E7 B3 FLAG 15
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B3 IMP 15
                    Verbal Learning List A-Trial 3: Number of Correct Words
Wave 5 Imputed Cognition:
   E7_A1_FLAG 18
                    Verbal Learning List A-Trial 1: Flag if Imputed
   E7 A1 IMP 18
                    Verbal Learning List A-Trial 1: Number of Correct Words
    E7 A2 FLAG 18
                    Verbal Learning List A-Trial 2: Flag if Imputed
    E7 A2 IMP 18
                    Verbal Learning List A-Trial 2: Number of Correct Words
    E7 A3 FLAG 18
                    Verbal Learning List A-Trial 3: Flag if Imputed
    E7 A3 IMP 18
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E7_B1 FLAG 18
                    Verbal Learning List B-Trial 1: Flag if Imputed
    E7_B1_IMP_18
                    Verbal Learning List B-Trial 1: Number of Correct Words
   E7_B2_FLAG_18
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7_B2_IMP_18
                    Verbal Learning List B-Trial 2: Number of Correct Words
   E7 B3 FLAG 18
                    Verbal Learning List B-Trial 1: Flag if Imputed
    E7 B3 IMP 18
                    Verbal Learning List A-Trial 3: Number of Correct Words
```

Delayed Word Recall

Wave	Variable	Label	Type
1	R1DLRC_M	rldlrc_m: w1 R Delayed Word Recall 0-8	Cont
2	R2DLRC M	r2dlrc m: w2 R Delayed Word Recall 0-8	Cont
3	R3DLRC_M	r3dlrc_m: w3 R Delayed Word Recall 0-8	Cont
4	R4DLRC M	r4dlrc m: w4 R Delayed Word Recall 0-8	Cont
5	R5DLRC_M	r5dlrc_m: w5 R Delayed Word Recall 0-8	Cont
1	S1DLRC_M	sldlrc_m: w1 S Delayed Word Recall 0-8	Cont
2	S2DLRC_M	s2dlrc_m: w2 S Delayed Word Recall 0-8	Cont
3	S3DLRC_M	s3dlrc_m: w3 S Delayed Word Recall 0-8	Cont
4	S4DLRC_M	s4dlrc_m: w4 S Delayed Word Recall 0-8	Cont
5	S5DLRC_M	s5dlrc_m: w5 S Delayed Word Recall 0-8	Cont
1	R1FDLRC_M	rlfdlrc_m: w1 Cognition Flag R Delayed Word Recall	Categ
2	R2FDLRC_M	r2fdlrc_m: w2 Cognition Flag R Delayed Word Recall	Categ
3	R3FDLRC_M	r3fdlrc_m: w3 Cognition Flag R Delayed Word Recall	Categ
4	R4FDLRC_M	r4fdlrc_m: w4 Cognition Flag R Delayed Word Recall	Categ
5	R5FDLRC_M	r5fdlrc_m: w5 Cognition Flag R Delayed Word Recall	Categ
1	S1FDLRC_M	slfdlrc_m: w1 Cognition Flag S Delayed Word Recall	Categ
2	S2FDLRC_M	s2fdlrc_m: w2 Cognition Flag S Delayed Word Recall	Categ
3	S3FDLRC_M	s3fdlrc_m: w3 Cognition Flag S Delayed Word Recall	Categ
4	S4FDLRC_M	s4fdlrc_m: w4 Cognition Flag S Delayed Word Recall	Categ
5	S5FDLRC M	s5fdlrc m: w5 Cognition Flag S Delayed Word Recall	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DLRC M	13962	5.13	1.86	0.00	8.00
R2DLRC M	12495	4.31	1.88	0.00	8.00
R3DLRC M	14448	4.44	2.05	0.00	8.00
R4DLRC_M	13850	4.19	2.14	0.00	8.00
R5DLRC_M	15786	4.41	2.01	0.00	8.00
S1DLRC_M	9859	5.22	1.82	0.00	8.00
S2DLRC_M	8728	4.39	1.85	0.00	8.00
S3DLRC_M	9866	4.53	2.00	0.00	8.00
S4DLRC_M	9182	4.30	2.09	0.00	8.00
S5DLRC_M	7075	4.29	2.03	0.00	8.00
R1FDLRC_M	15186	-0.04	0.34	-1.00	1.00
R2FDLRC_M	13704	-0.06	0.33	-1.00	1.00
R3FDLRC_M	15723	-0.05	0.33	-1.00	1.00
R4FDLRC_M	14779	-0.05	0.26	-1.00	1.00
R5FDLRC_M	17114	-0.06	0.30	-1.00	1.00
S1FDLRC_M	10648	-0.04	0.33	-1.00	1.00
S2FDLRC_M	9564	-0.06	0.33	-1.00	1.00
S3FDLRC_M	10592	-0.04	0.31	-1.00	1.00
S4FDLRC_M	9652	-0.04	0.23	-1.00	1.00
S5FDLRC_M	7638	-0.06	0.29	-1.00	1.00

Value		R1FDLRC_M	R2FDLRC_M	R3FDLRC_M	R4FDLRC_M	R5FDLRC_M
-1.Missing, not imputed		1224	1209	1275	929	1328
0.Not Imputed	1	13394	12128	13980	13702	15544
1.Imputed	1	568	367	468	148	242

Value		S1FDLRC M	S2FDLRC M	S3FDLRC M	S4FDLRC M	S5FDLRC M
.u:Unmar	į	4205	4009	47 8 2	4847	52 <u>2</u> 7
.v:SP NR		333	131	349	280	501
-1.Missing, not imputed		789	836	726	470	563
0.Not Imputed		9493	8479	9568	9118	6960
1.Imputed		366	249	298	64	115

How Constructed

RwDLRC_M is an MHAS specific variable that provides the measure for delayed verbal recall. Respondents were asked to repeat as many of the words as they could remember from the list provided in the immediate verbal recall task. In the delayed recall task, respondents are given only one trial. RwDLRC_M was constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwDLRC_M is set to .p for proxy interviews. In Waves 1 and 2, RwDLRC_M was set to .s if the cognition section was skipped because the language of the interview was different from Spanish and .m if responses are missing because they didn't complete the task but completed the rest of the interview. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

RWFDLRC_M is a flag variable indicating whether any component of RwDLRC_M was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwDLRC_M and SwFDLRC_M are taken from the Wave 'w' spouse's values for RwDLRC_M and RwFDLRC_M, respectively. In addition to the special missing codes used in RwDLRC_M and RwFDLRC_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS the verbal recall list contains only 8 words.

```
Wave 1 Imputed Cognition:
   E14 A IMP 01
                   Verbal Recall List A: Number of Correct Words (Imputed)
    E14 B IMP 01
                    Verbal Recall List B: Number of Correct Words (Imputed)
    E14 FLAG 01
                    Verbal Recall: Flag if Imputed
Wave 2 Imputed Cognition:
   E12 A FLAG 03 Verbal Recall List A: Flag if Imputed
   E12_A_IMP_03
                    Verbal Recall List A: Number of Correct Words (Imputed)
   E12_B_FLAG_03
                   Verbal Recall List B: Flag if Imputed
   E12 B IMP 03
                    Verbal Recall List B: Number of Correct Words (Imputed)
Wave 3 Imputed Cognition:
   E14 A FLAG 12
                    Verbal Recall List A: Flag if Imputed
   E14 A IMP \overline{12}
                    Verbal Recall List A: Number of Correct Words (Imputed)
   E14 B FLAG 12
                   Verbal Recall List B: Flag if Imputed
   E14_B IMP 12
                    Verbal Recall List B: Number of Correct Words (Imputed)
Wave 4 Imputed Cognition:
   E14 A FLAG 15
                  Verbal Recall List A: Flag if Imputed
    E14 A IMP 15
                    Verbal Recall List A: Number of Correct Words (Imputed)
    E14 B FLAG 15
                  Verbal Recall List B: Flag if Imputed
```

```
E14_B_IMP_15 Verbal Recall List B: Number of Correct Words (Imputed)
Wave 5 Imputed Cognition:

E14_A_FLAG_18 Verbal Recall List A: Flag if Imputed

E14_A_IMP_18 Verbal Recall List A: Number of Correct Words (Imputed)

E14_B_FLAG_18 Verbal Recall List B: Flag if Imputed

E14_B_IMP_18 Verbal Recall List B: Number of Correct Words (Imputed)
```

Summary Scores

Wave	Variable	Label	Туре
1	R1TR8 M	r1tr8 m: w1 R Word Recall Summary Score 0-16	Cont
2	R2TR8 M	r2tr8 m: w2 R Word Recall Summary Score 0-16	Cont
3	R3TR8 M	r3tr8 m: w3 R Word Recall Summary Score 0-16	Cont
4	R4TR8 M	r4tr8 m: w4 R Word Recall Summary Score 0-16	Cont
5	R5TR8_M	r5tr8_m: w5 R Word Recall Summary Score 0-16	Cont
1	S1TR8_M	s1tr8_m: w1 S Word Recall Summary Score 0-16	Cont
2	S2TR8_M	s2tr8_m: w2 S Word Recall Summary Score 0-16	Cont
3	S3TR8_M	s3tr8_m: w3 S Word Recall Summary Score 0-16	Cont
4	S4TR8_M	s4tr8_m: w4 S Word Recall Summary Score 0-16	Cont
5	S5TR8_M	s5tr8_m: w5 S Word Recall Summary Score 0-16	Cont
1	R1FTR8_M	rlftr8_m: w1 Cognition Flag R Word Recall Summary	Categ
2	R2FTR8_M	r2ftr8_m: w2 Cognition Flag R Word Recall Summary	Categ
3	R3FTR8_M	r3ftr8_m: w3 Cognition Flag R Word Recall Summary	Categ
4	R4FTR8_M	r4ftr8_m: w4 Cognition Flag R Word Recall Summary	Categ
5	R5FTR8_M	r5ftr8_m: w5 Cognition Flag R Word Recall Summary	Categ
1	S1FTR8_M	s1ftr8_m: w1 Cognition Flag S Word Recall Summary	Categ
2	S2FTR8_M	s2ftr8_m: w2 Cognition Flag S Word Recall Summary	Categ
3	~ ~	s3ftr8_m: w3 Cognition Flag S Word Recall Summary	Categ
4	S4FTR8_M	s4ftr8_m: w4 Cognition Flag S Word Recall Summary	Categ
5	S5FTR8 M	s5ftr8 m: w5 Cognition Flag S Word Recall Summary	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1TR8 M	12062	0.00	2 00	0.00	16.00
	13962	9.89	2.89	0.00	16.00
R2TR8_M	12495	8.68	3.13	0.00	16.00
R3TR8_M	14448	9.21	2.98	0.00	16.00
R4TR8_M	13850	8.95	3.08	0.00	16.00
R5TR8_M	15786	9.26	2.98	0.00	16.00
S1TR8 M	9859	10.05	2.81	0.00	16.00
S2TR8 M	8728	8.85	3.05	0.00	16.00
S3TR8 M	9866	9.38	2.89	0.00	16.00
S4TR8 M	9182	9.13	3.00	0.00	16.00
S5TR8_M	7075	9.11	2.98	0.00	16.00
R1FTR8_M	15186	-0.04	0.34	-1.00	1.00
R2FTR8_M	13704	-0.06	0.33	-1.00	1.00
R3FTR8_M	15723	-0.05	0.33	-1.00	1.00
R4FTR8 M	14779	-0.05	0.27	-1.00	1.00
R5FTR8_M	17114	-0.06	0.30	-1.00	1.00
S1FTR8 M	10648	-0.04	0.33	-1.00	1.00
S2FTR8 M	9564	-0.06	0.33	-1.00	1.00
S3FTR8 M	10592	-0.04	0.33	-1.00	1.00
S4FTR8 M	9652	-0.04	0.23	-1.00	1.00
S5FTR8 M					
SSFTR8_M	7638	-0.06	0.29	-1.00	1.00

Value		R1FTR8 M	R2FTR8_M	R3FTR8_M	R4FTR8_M	R5FTR8_M
-1.Missing, not imputed	1	1224	1209	1275	929	1328
0.Not Imputed	1	13394	12128	13969	13698	15544
1.Imputed	1	568	367	479	152	242

Value		S1FTR8 M	S2FTR8 M	S3FTR8 M	S4FTR8 M	S5FTR8 M
	I	· · · · · · · ·	· -	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
.u:Unmar		4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
-1.Missing, not imputed		789	836	726	470	563
0.Not Imputed		9493	8479	9560	9115	6960
1.Imputed	1	366	249	306	67	115

How Constructed

RwTR8_M is the summary score for the total word recall and it is derived from RwIMRC_M and RwDLRC_M. The total score ranges from 0 to 16.

```
RwTR8 M = sum (RwIMRC M, RwDLRC M).
```

RwTR8_M was constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RwTR8_M is set to .p for proxy interviews. The variable is set to plain missing (.) for respondents who did not respond to the current wave. In Waves 1 and 2, RwTR8_M was also set to .s if the cognition section was skipped because the language of the interview was different from Spanish and .m if responses are missing because they didn't complete the task but completed the rest of the interview.

RWFTR8_M is a flag variable indicating whether any component of RwTR8_M was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwTR8_M and SwFTR8_M are taken from the Wave 'w' spouse's value RwTR8_M and RwFTR8_M, respectively. In addition to the special missing codes used in RwTR8_M and RwFTR8_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS the verbal recall list contains only 8 words.

```
Wave 1 Imputed Cognition:
   E11_A1_IMP_01 Verbal Learning List A-Trial 1: Number of Correct Words
   E11 A2 IMP 01
                   Verbal Learning List A-Trial 2: Number of Correct Words
   E11_A3_IMP_01
                   Verbal Learning List A-Trial 3: Number of Correct Words
   E11_B1_IMP_01
                   Verbal Learning List B-Trial 1: Number of Correct Words
   E11_B2_IMP_01
                   Verbal Learning List B-Trial 2: Number of Correct Words
                   Verbal Learning List A-Trial 3: Number of Correct Words
   E11 B3 IMP 01
   E11 FLAG 01
                   Verbal Learning: Flag if Imputed
                   Verbal Recall List A: Number of Correct Words (Imputed)
   E14 A IMP 01
   E14_B_IMP_01
                   Verbal Recall List B: Number of Correct Words (Imputed)
   E14 FLAG_01
                   Verbal Recall: Flag if Imputed
Wave 2 Imputed Cognition:
   E12 A FLAG 03 Verbal Recall List A: Flag if Imputed
                   Verbal Recall List A: Number of Correct Words (Imputed)
   E12 A IMP 03
   E12 B FLAG 03
                  Verbal Recall List B: Flag if Imputed
```

```
E12 B IMP 03
                    Verbal Recall List B: Number of Correct Words (Imputed)
   E9 A1 FLAG 03
                    Verbal Learning List A-Trial 1: Flag if Imputed
   E9 A1 IMP 03
                    Verbal Learning List A-Trial 1: Number of Correct Words
    E9 A2 FLAG 03
                    Verbal Learning List A-Trial 2: Flag if Imputed
                    Verbal Learning List A-Trial 2: Number of Correct Words
    E9 A2 IMP 03
    E9 A3 FLAG 03
                    Verbal Learning List A-Trial 3: Flag if Imputed
    E9 A3 IMP 03
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E9 B1 FLAG 03
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E9 B1 IMP 03
                    Verbal Learning List B-Trial 1: Number of Correct Words
    E9_B2_FLAG_03
                    Verbal Learning List B-Trial 1: Flag if Imputed
    E9_B2_IMP_03
                    Verbal Learning List B-Trial 2: Number of Correct Words
    E9_B3_FLAG_03
                    Verbal Learning List B-Trial 1: Flag if Imputed
    E9 B3 IMP 03
                    Verbal Learning List A-Trial 3: Number of Correct Words
Wave 3 Imputed Cognition:
   E14 A FLAG 12
                    Verbal Recall List A: Flag if Imputed
   E14_A_IMP 12
                    Verbal Recall List A: Number of Correct Words (Imputed)
   E14 B FLAG 12
                    Verbal Recall List B: Flag if Imputed
   E14 B IMP 12
                    Verbal Recall List B: Number of Correct Words (Imputed)
   E7 A1 FLAG 12
                    Verbal Learning List A-Trial 1: Flag if Imputed
   E7 A1 IMP 12
                    Verbal Learning List A-Trial 1: Number of Correct Words
   E7 A2 FLAG 12
                    Verbal Learning List A-Trial 2: Flag if Imputed
   E7 A2 IMP 12
                    Verbal Learning List A-Trial 2: Number of Correct Words
   E7 A3 FLAG 12
                    Verbal Learning List A-Trial 3: Flag if Imputed
   E7_A3_IMP_12
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E7_B1_FLAG_12
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7_B1_IMP_12
                    Verbal Learning List B-Trial 1: Number of Correct Words
   E7_B2_FLAG_12
E7_B2_IMP_12
E7_B3_FLAG_12
                    Verbal Learning List B-Trial 1: Flag if Imputed
                    Verbal Learning List B-Trial 2: Number of Correct Words
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B3 IMP 12
                    Verbal Learning List A-Trial 3: Number of Correct Words
Wave 4 Imputed Cognition:
   E14 A FLAG 15
                    Verbal Recall List A: Flag if Imputed
    E14 A IMP 15
                    Verbal Recall List A: Number of Correct Words (Imputed)
    E14 B FLAG 15
                    Verbal Recall List B: Flag if Imputed
    E14 B IMP 15
                    Verbal Recall List B: Number of Correct Words (Imputed)
    E7 A1 FLAG 15
                    Verbal Learning List A-Trial 1: Flag if Imputed
   E7_A1_IMP_15
                    Verbal Learning List A-Trial 1: Number of Correct Words
   E7_A2_FLAG 15
                    Verbal Learning List A-Trial 2: Flag if Imputed
   E7_A2_IMP_15
                    Verbal Learning List A-Trial 2: Number of Correct Words
   E7_A3_FLAG_15
                    Verbal Learning List A-Trial 3: Flag if Imputed
   E7_A3_IMP_15
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E7_B1_FLAG_15
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7_B1_IMP_15
E7_B2_FLAG_15
                    Verbal Learning List B-Trial 1: Number of Correct Words
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B2 IMP 15
                    Verbal Learning List B-Trial 2: Number of Correct Words
   E7 B3 FLAG 15
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B3 IMP 15
                    Verbal Learning List A-Trial 3: Number of Correct Words
Wave 5 Imputed Cognition:
   E14 A FLAG 18
                    Verbal Recall List A: Flag if Imputed
   E14 A IMP 18
                    Verbal Recall List A: Number of Correct Words (Imputed)
   E14 B FLAG 18
                    Verbal Recall List B: Flag if Imputed
   E14 B IMP 18
                    Verbal Recall List B: Number of Correct Words (Imputed)
   E7_A1_FLAG 18
                    Verbal Learning List A-Trial 1: Flag if Imputed
   E7_A1_IMP_18
                    Verbal Learning List A-Trial 1: Number of Correct Words
                    Verbal Learning List A-Trial 2: Flag if Imputed
   E7_A2_FLAG_18
   E7_A2_IMP_18
                    Verbal Learning List A-Trial 2: Number of Correct Words
   E7 A3 FLAG 18
                    Verbal Learning List A-Trial 3: Flag if Imputed
   E7 A3 IMP 18
                    Verbal Learning List A-Trial 3: Number of Correct Words
   E7 B1 FLAG 18
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B1 IMP 18
                    Verbal Learning List B-Trial 1: Number of Correct Words
                    Verbal Learning List B-Trial 1: Flag if Imputed
   E7 B2 FLAG 18
   E7 B2 IMP 18
                    Verbal Learning List B-Trial 2: Number of Correct Words
    E7 B3 FLAG 18
                    Verbal Learning List B-Trial 1: Flag if Imputed
    E7 B3 IMP 18
                    Verbal Learning List A-Trial 3: Number of Correct Words
```

Picture Drawing

Wave	Variable	Label	Туре
	R1IDRAW2 R2IDRAW2	r1idraw2: w1 R Picture Drawing immediate 2 fig r2idraw2: w2 R Picture Drawing immediate 2 fig	Cont Cont
	S1IDRAW2 S2IDRAW2	slidraw2: w1 S Picture Drawing immediate 2 fig s2idraw2: w2 S Picture Drawing immediate 2 fig	Cont Cont
	R1FIDRAW2 R2FIDRAW2	r1fidraw2: w1 Cognition Flag R Picture Drawing r2fidraw2: w2 Cognition Flag R Picture Drawing	Categ Categ
	S1FIDRAW2 S2FIDRAW2	s1fidraw2: w1 Cognition Flag S Picture Drawing s2fidraw2: w2 Cognition Flag S Picture Drawing	Categ Categ
4	R3IDRAW1 R4IDRAW1 R5IDRAW1	r3idraw1: w3 R Picture Drawing immediate 1 fig r4idraw1: w4 R Picture Drawing immediate 1 fig r5idraw1: w5 R Picture Drawing immediate 1 fig	Cont Cont Cont
4	S3IDRAW1 S4IDRAW1 S5IDRAW1	s3idraw1: w3 S Picture Drawing immediate 1 fig s4idraw1: w4 S Picture Drawing immediate 1 fig s5idraw1: w5 S Picture Drawing immediate 1 fig	Cont Cont Cont
4	R3FIDRAW1 R4FIDRAW1 R5FIDRAW1	r3fidraw1: w3 Cognition Flag R Picture Drawing r4fidraw1: w4 Cognition Flag R Picture Drawing r5fidraw1: w5 Cognition Flag R Picture Drawing	Categ Categ Categ
4	S3FIDRAW1 S4FIDRAW1 S5FIDRAW1	s3fidraw1: w3 Cognition Flag S Picture Drawing s4fidraw1: w4 Cognition Flag S Picture Drawing s5fidraw1: w5 Cognition Flag S Picture Drawing	Categ Categ Categ
	R1DDRAW2 R2DDRAW2	r1ddraw2: w1 R Picture Drawing delayed 2 fig r2ddraw2: w2 R Picture Drawing delayed 2 fig	Cont Cont
	S1DDRAW2 S2DDRAW2	s1ddraw2: w1 S Picture Drawing delayed 2 fig s2ddraw2: w2 S Picture Drawing delayed 2 fig	Cont Cont
	R1FDDRAW2 R2FDDRAW2	r1fddraw2: w1 Cognition Flag R Delayed Picture Drawing r2fddraw2: w2 Cognition Flag R Delayed Picture Drawing	Categ Categ
	S1FDDRAW2 S2FDDRAW2	s1fddraw2: w1 Cognition Flag S Delayed Picture Drawing s2fddraw2: w2 Cognition Flag S Delayed Picture Drawing	Categ Categ
3 4 5	R3DDRAW1 R4DDRAW1 R5DDRAW1	r3ddraw1: w3 R Picture Drawing delayed 1 fig r4ddraw1: w4 R Picture Drawing delayed 1 fig r5ddraw1: w5 R Picture Drawing delayed 1 fig	Cont Cont Cont
3 4 5	S3DDRAW1 S4DDRAW1 S5DDRAW1	s3ddraw1: w3 S Picture Drawing delayed 1 fig s4ddraw1: w4 S Picture Drawing delayed 1 fig s5ddraw1: w5 S Picture Drawing delayed 1 fig	Cont Cont Cont
3 4 5	R3FDDRAW1 R4FDDRAW1 R5FDDRAW1	r3fddraw1: w3 Cognition Flag R Delayed Picture Drawing r4fddraw1: w4 Cognition Flag R Delayed Picture Drawing r5fddraw1: w5 Cognition Flag R Delayed Picture Drawing	Categ Categ Categ
3 4 5	S3FDDRAW1 S4FDDRAW1 S5FDDRAW1	s3fddraw1: w3 Cognition Flag S Delayed Picture Drawing s4fddraw1: w4 Cognition Flag S Delayed Picture Drawing s5fddraw1: w5 Cognition Flag S Delayed Picture Drawing	Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IDRAW2 R2IDRAW2	13962 12495	1.55 1.62	0.73 0.65	0.00	2.00
S1IDRAW2	9859	1.62	0.68	0.00	2.00
S2IDRAW2	8728	1.68	0.61	0.00	2.00
R1FIDRAW2	15186	0.01	0.41	-1.00	1.00
R2FIDRAW2	13704	0.03	0.45	-1.00	1.00
S1FIDRAW2	10648	0.00	0.39	-1.00	1.00
S2FIDRAW2	9564	0.01	0.43	-1.00	1.00
R3IDRAW1	14448	5.38	1.31	0.00	6.00
R4IDRAW1	13850	5.47	1.14	0.00	6.00
R5IDRAW1	15786	5.52	1.02	0.00	6.00
S3IDRAW1	9866	5.46	1.24	0.00	6.00
S4IDRAW1	9182	5.56	1.03	0.00	6.00
S5IDRAW1	7075	5.51	1.03	0.00	6.00
R3FIDRAW1	15723	0.00	0.41	-1.00	1.00
R4FIDRAW1	14779	0.00	0.36	-1.00	1.00
R5FIDRAW1	17114	-0.01	0.38	-1.00	1.00
S3FIDRAW1	10592	0.00	0.38	-1.00	1.00
S4FIDRAW1	9652	0.00	0.32	-1.00	1.00
S5FIDRAW1	7638	-0.01	0.38	-1.00	1.00
R1DDRAW2	13962	0.73	0.81	0.00	2.00
R2DDRAW2	12495	0.76	0.81	0.00	2.00
S1DDRAW2	9859	0.81	0.83	0.00	2.00
S2DDRAW2	8728	0.84	0.82	0.00	2.00
R1FDDRAW2	15186	0.02	0.42	-1.00	1.00
R2FDDRAW2	13704	0.04	0.46	-1.00	1.00
S1FDDRAW2	10648	0.01	0.40	-1.00	1.00
S2FDDRAW2	9564	0.02	0.44	-1.00	1.00
R3DDRAW1	14448	4.63	1.78	0.00	6.00
R4DDRAW1	13850	4.70	1.75	0.00	6.00
R5DDRAW1	15786	4.86	1.54	0.00	6.00
S3DDRAW1	9866	4.77	1.71	0.00	6.00
S4DDRAW1	9182	4.85	1.66	0.00	6.00
S5DDRAW1	7075	4.85	1.54	0.00	6.00
R3FDDRAW1	15723	0.01	0.42	-1.00	1.00
R4FDDRAW1	14779	0.01	0.37	-1.00	1.00
R5FDDRAW1	17114	0.02	0.42	-1.00	1.00
S3FDDRAW1	10592	0.01	0.39	-1.00	1.00
S4FDDRAW1	9652	0.01	0.33	-1.00	1.00
S5FDDRAW1	7638	0.03	0.42	-1.00	1.00

Value	R1FIDRAW2	R2FIDRAW2
-1.Missing, not imputed	1224	1209
0.Not Imputed	12597	10922
1.Imputed	1365	1573

Value S1FIDRAW2 S2FIDRAW2	
.u:Unmar 4205 4009	
.v:SP NR 333 131	
-1.Missing, not imputed 789 836	
0.Not Imputed 9033 7782	
1.Imputed 826 946	
Value R3FIDRAW1 R4FIDRAW1 R5FI	DRAW1
-1.Missing, not imputed 1275 929	1328
	14586
1.Imputed 1332 982	1200
	DRAW1
.u:Unmar 4782 4847	5227
.v:SP NR 349 280	501
-1.Missing, not imputed 726 470	563
0.Not Imputed 9097 8666	6555
1.Imputed 769 516	520
Value	
0.Not Imputed 12486 10789 1.Imputed 1476 1706	
1. Imputed 1470 1700	
Value S1FDDRAW2 S2FDDRAW2	
.u:Unmar 4205 4009	
.v:SP NR 333 131	
-1.Missing, not imputed 789 836	
0.Not Imputed 8975 7698	
1.Imputed 884 1030	
	DRAW1
-1.Missing, not imputed 1275 929	1328
± '	14059
1.Imputed 1510 1093	1727
Value	DRAW1
.u:Unmar 4782 4847	5227
v:SP NR 349 280	501
-1.Missing, not imputed 726 470	563
0.Not Imputed 9000 8602	6317
1.Imputed 866 580	758

How Constructed

RWIDRAW1, RwIDRAW1, RwDDRAW2, and RwDDRAW1 provide the score for the visuospatial tasks. RwIDRAW2 and RwDDRAW2 were only created for Waves 1 and 2 when respondents were presented two geometrical figures. Starting in Wave 3, respondents were only presented one geometrical figure and asked to copy it within 90 seconds.

RWIDRAW2 and RWIDRAW1 indicate the immediate visuospatial task score after the respondents were presented the geometrical figures (or figure) and asked to copy the figures within 90 seconds, each figure. RWDDRAW2 and RWDDRAW1 indicate the delayed visuospatial task score after the respondents were asked to draw the figures (or figure) they were shown before within 90 seconds, each figure.

RwIDRAW1, RwDDRAW2, and RwDDRAW1 were constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

The variables are set to .p for proxy interviews. In Waves 1 and 2, RwIDRAW2 and RwDDRAW2 were set to .s if the cognition section was skipped because the language of the interview was different from Spanish and .m if responses are missing because they didn't complete the task but completed the rest of the interview. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

RwFIDRAW2, RwFIDRAW1, RwFDDRAW2, and RwFDDRAW1 are flag variables indicating whether any component of RwIDRAW2, RwIDRAW1, RwDDRAW2, and RwDDRAW1, respectively, was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwIDRAW2, SwIDRAW1, SwDDRAW2, SwDDRAW1, SwFIDRAW2, SwFIDRAW1, SwFIDRAW2, and SwFDDRAW1 are taken from the Wave 'w' spouse's values for RwIDRAW2, RwIDRAW1, RwDDRAW2, RwDDRAW1, RwFIDRAW2, RwFIDRAW1, RwFDDRAW1, RwFDDRAW1, RwFDDRAW1, RwFDDRAW1, RwDDRAW2, RwDDRAW1, RwFIDRAW2, RwIDRAW1, RwDDRAW2, RwDDRAW1, RwFIDRAW2, RwFIDRAW1, RwFDDRAW2, and RwFDDRAW1, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Since the visuospatial tasks changed across the waves, two variables were defined: RwDDRAW2 and RwDDRAW1. The changes include presenting two figures in Waves 1 and 2 and presenting only one figure starting in Wave 3. Also, starting in Wave 3 a new scoring was used to allow for comparison of the results between waves. The following equivalence will allow for comparison of the results in RwDDRAW2 and RwDDRAW1.

```
RwDDRAW1 = 0, 1, or 2 is equal RwDDRAW2 = 0 
RwDDRAW1 = 3 or 4 is equal RwDDRAW2 = 1 
RwDDRAW1 = 5 or 6 is equal RwDDRAW2 = 2
```

Differences with the RAND HRS/Harmonized HRS

The HRS does not include the visuospatial tasks.

```
Wave 1 Imputed Cognition:
   E13 FLAG 01
                    Constructional Praxis Recall: Flag if Imputed
    E13 IMP 01
                    Constructional Praxis Recall (Imputed)
    E8 E9 FLAG 01
                  Constructional Praxis: Flag if Imputed
    E8 E9 IMP 01
                    Constructional Praxis (Imputed)
Wave 2 Imputed Cognition:
   E11 FLAG 03
                    Constructional Praxis Recall: Flag if Imputed
    E11_IMP 03
                    Constructional Praxis Recall (Imputed)
    E6 E7 FLAG 03
                    Constructional Praxis: Flag if Imputed
    E6 E7 IMP 03
                    Constructional Praxis (Imputed)
Wave 3 Imputed Cognition:
   E13 FLAG 12
                    Constructional Praxis Recall: Flag if Imputed
                    Constructional Praxis Recall (Imputed)
   E13 IMP 12
   E8 FLAG 12
                    Constructional Praxis: Flag if Imputed
   E8 IMP 12
                    Constructional Praxis (Imputed)
Wave 4 Imputed Cognition:
   E13 FLAG 15
                    Constructional Praxis Recall: Flag if Imputed
    E13 IMP 15
                    Constructional Praxis Recall (Imputed)
   E8 FLAG 15
                    Constructional Praxis: Flag if Imputed
   E8_IMP 15
                    Constructional Praxis (Imputed)
Wave 5 Imputed Cognition:
   E13 FLAG 18
                    Constructional Praxis Recall: Flag if Imputed
    E13_IMP_18
                    Constructional Praxis Recall (Imputed)
    E8 FLAG 18
                    Constructional Praxis: Flag if Imputed
    E8 IMP 18
                    Constructional Praxis (Imputed)
```

Wave	Variable	Label	Type
3	R3VERBF R4VERBF	r3verbf: w3 R Verbal Fluency Score r4verbf: w4 R Verbal Fluency Score	Cont Cont
_	R5VERBF	r5verbf: w5 R Verbal Fluency Score	Cont
3	S3VERBF	s3verbf: w3 S Verbal Fluency Score	Cont
4	S4VERBF	s4verbf: w4 S Verbal Fluency Score	Cont
5	S5VERBF	s5verbf: w5 S Verbal Fluency Score	Cont
3	R3FVERBF	r3fverbf: w3 Cognition Flag R Verbal Fluency	Categ
4	R4FVERBF	r4fverbf: w4 Cognition Flag R Verbal Fluency	Categ
5	R5FVERBF	r5fverbf: w5 Cognition Flag R Verbal Fluency	Categ
3	S3FVERBF	s3fverbf: w3 Cognition Flag S Verbal Fluency	Categ
4	S4FVERBF	s4fverbf: w4 Cognition Flag S Verbal Fluency	Categ
5	S5FVERBF	s5fverbf: w5 Cognition Flag S Verbal Fluency	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3VERBF	14448	15.04	5.15	0.00	66.00
R4VERBF	13850	15.51	5.24	0.00	40.00
R5VERBF	15786	15.71	5.25	0.00	30.00
S3VERBF	9866	15.41	5.10	0.00	66.00
S4VERBF	9182	15.93	5.18	0.00	40.00
S5VERBF	7075	15.50	5.11	0.00	30.00
R3FVERBF	15723	-0.05	0.32	-1.00	1.00
R4FVERBF	14779	-0.05	0.26	-1.00	1.00
R5FVERBF	17114	-0.05	0.32	-1.00	1.00
S3FVERBF	10592	-0.04	0.30	-1.00	1.00
S4FVERBF	9652	-0.04	0.23	-1.00	1.00
S5FVERBF	7638	-0.05	0.31	-1.00	1.00

Categorical Variable Codes

Value	R3FVERBF 1275 14020 428	R4FVERBF 929 13730 120	R5FVERBF 1328 15297 489
Value	S3FVERBF	S4FVERBF	S5FVERBF
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
-1.Missing, not imputed	726	470	563
0.Not Imputed	9592	9131	6871
1.Imputed	274	51	204

How Constructed

RwVERBF is the verbal fluency score. Respondents were asked to name all the animals they can within a time span of one minute. Interviewers are asked to count the number of different animals the respondent was able to name. RwVERBF is the count of the number of different animal names. RwVERBF is constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using

the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwVERBF is set to .p for proxy interviews. The variable is plain missing (.) for respondents who did not respond to the current wave.

The verbal fluency questions were only asked starting in Wave 3 (2012).

RWFVERBF is a flag variable indicating whether any component of RWVERBF was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwverBF and SwFverBF are taken from the Wave 'w' spouse's value for RwverBF and RwFverBF, respectively. In addition to the special missing codes used in RwverBF and RwFverBF, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The verbal fluency questions were only asked starting in Wave 3 (2012).

Differences with the RAND HRS/Harmonized HRS

Verbal fluency using animal naming questions was added to the HRS survey in 2010. A non-imputed version of verbal fluency is currently available in the Harmonized HRS data set.

Visual Scanning

Wave	Variable	Label	Type
1	R1VSCAN	rlvscan: w1 R Visual Scanning	Cont
2	R2VSCAN	r2vscan: w2 R Visual Scanning	Cont
3	R3VSCAN	r3vscan: w3 R Visual Scanning	Cont
4	R4VSCAN	r4vscan: w4 R Visual Scanning	Cont
5	R5VSCAN	r5vscan: w5 R Visual Scanning	Cont
1	S1VSCAN	slvscan: w1 S Visual Scanning	Cont
2	S2VSCAN	s2vscan: w2 S Visual Scanning	Cont
3	S3VSCAN	s3vscan: w3 S Visual Scanning	Cont
4	S4VSCAN	s4vscan: w4 S Visual Scanning	Cont
5	S5VSCAN	s5vscan: w5 S Visual Scanning	Cont
1	R1FVSCAN	rlfvscan: wl Cognition Flag R Visual Scanning	Categ
2	R2FVSCAN	r2fvscan: w2 Cognition Flag R Visual Scanning	Categ
3	R3FVSCAN	r3fvscan: w3 Cognition Flag R Visual Scanning	Categ
4	R4FVSCAN	r4fvscan: w4 Cognition Flag R Visual Scanning	Categ
5	R5FVSCAN	r5fvscan: w5 Cognition Flag R Visual Scanning	Categ
1	S1FVSCAN	slfvscan: wl Cognition Flag S Visual Scanning	Categ
2	S2FVSCAN	s2fvscan: w2 Cognition Flag S Visual Scanning	Categ
3	S3FVSCAN	s3fvscan: w3 Cognition Flag S Visual Scanning	Categ
4	S4FVSCAN	s4fvscan: w4 Cognition Flag S Visual Scanning	Categ
5	S5FVSCAN	s5fvscan: w5 Cognition Flag S Visual Scanning	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1VSCAN	13962	24.77	15.92	0.00	60.00
R2VSCAN	12495	24.17	15.99	0.00	60.00
R3VSCAN	14448	28.22	15.36	0.00	60.00
R4VSCAN	13850	28.40	15.93	0.00	60.00
R5VSCAN	15786	30.75	16.14	0.00	60.00
S1VSCAN	9859	26.26	15.79	0.00	60.00
S2VSCAN	8728	25.61	15.95	0.00	60.00
S3VSCAN	9866	29.53	15.19	0.00	60.00
S4VSCAN	9182	30.04	15.59	0.00	60.00
S5VSCAN	7075	29.20	15.59	0.00	60.00
R1FVSCAN	15186	0.01	0.41	-1.00	1.00
R2FVSCAN	13704	-0.02	0.39	-1.00	1.00
R3FVSCAN	15723	0.01	0.41	-1.00	1.00
R4FVSCAN	14779	0.00	0.36	-1.00	1.00
R5FVSCAN	17114	0.00	0.39	-1.00	1.00
S1FVSCAN	10648	-0.00	0.38	-1.00	1.00
S2FVSCAN	9564	-0.03	0.38	-1.00	1.00
S3FVSCAN	10592	0.00	0.37	-1.00	1.00
S4FVSCAN	9652	0.00	0.32	-1.00	1.00
S5FVSCAN	7638	0.00	0.39	-1.00	1.00

Value		R1FVSCAN	R2FVSCAN	R3FVSCAN	R4FVSCAN	R5FVSCAN
-1.Missing, not imputed		1224	1209	1275	929	1328
0.Not Imputed		12647	11583	13078	12858	14449
1.Imputed		1315	912	1370	992	1337

Value		S1FVSCAN	S2FVSCAN	S3FVSCAN	S4FVSCAN	S5FVSCAN
.u:Unmar	i	4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
-1.Missing, not imputed		789	836	726	470	563
0.Not Imputed		9082	8162	9103	8666	6497
1.Imputed		777	566	763	516	578

How Constructed

RwVSCAN is the visual scanning score, ranging from 0 to 60. Respondents were asked to circle all figures that are identical to a specific stimulus shown previously within an array of different stimuli. Respondents were given 60 seconds to complete this task. RwVSCAN is constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. These variables are set to .p for proxy interviews. The variable is plain missing (.) for respondents who did not respond to the current wave. In Waves 1 and 2, RwVSCAN was also set to .s if the cognition section was skipped because the language of the interview was different from Spanish and .m if responses are missing because they didn't complete the task but completed the rest of the interview.

RwFVSCAN is a flag variable indicating whether any component of RwVSCAN was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwVSCAN and SwFVSCAN are taken from the Wave 'w' spouse's value for RwVSCAN and RwFVSCAN, respectively. In addition to the special missing codes used in RwVSCAN and RwFVSCAN, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The HRS does not include the visual scanning task.

```
Wave 1 Imputed Cognition:
   E12 FLAG 01
                   Visual Scan: Flag if Imputed
   E12 IMP 01
                   Visual Scan (Imputed)
Wave 2 Imputed Cognition:
   E10 FLAG 03
                    Visual Scan: Flag if Imputed
    E10 IMP 03
                    Visual Scan (Imputed)
Wave 3 Imputed Cognition:
   E10 FLAG 12
                   Visual Scan: Flag if Imputed
   E10 IMP 12
                    Visual Scan (Imputed)
Wave 4 Imputed Cognition:
    E10 FLAG 15
                    Visual Scan: Flag if Imputed
    E10 IMP 15
                    Visual Scan (Imputed)
Wave 5 Imputed Cognition:
                    Visual Scan: Flag if Imputed
   E10 FLAG 18
   E10_IMP 18
                    Visual Scan (Imputed)
```

Backwards Counting From 20

Wave	Variable	Label	Type
3	R3BWC20	r3bwc20: w3 R Backwards Counting From 20 r4bwc20: w4 R Backwards Counting From 20	Categ
4	R4BWC20		Categ
3	S3BWC20	s3bwc20: w3 S Backwards Counting From 20 s4bwc20: w4 S Backwards Counting From 20	Categ
4	S4BWC20		Categ
	R3BWC20_M R4BWC20_M	r3bwc20_m: w3 R Backwards Counting From 20 (Correct/Incorrec r4bwc20_m: w4 R Backwards Counting From 20 (Correct/Incorrec	Categ Categ
3	S3BWC20_M	s3bwc20_m: w3 S Backwards Counting From 20 (Correct/Incorrec s4bwc20_m: w4 S Backwards Counting From 20 (Correct/Incorrec	Categ
4	S4BWC20_M		Categ
3	R3FBWC20_M	r3fbwc20_m: w3 Cognition Flag R Backwards Counting From 20 (r4fbwc20_m: w4 Cognition Flag R Backwards Counting From 20 (Categ
4	R4FBWC20_M		Categ
3	S3FBWC20_M	s3fbwc20_m: w3 Cognition Flag S Backwards Counting From 20 (s4fbwc20_m: w4 Cognition Flag S Backwards Counting From 20 (Categ
4	S4FBWC20_M		Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3BWC20	13439	1.78	0.60	0.00	2.00
R4BWC20	13158	1.76	0.63	0.00	2.00
S3BWC20	9273	1.81	0.55	0.00	2.00
S4BWC20	8833	1.81	0.57	0.00	2.00
R3BWC20_M	14448	0.90	0.30	0.00	1.00
R4BWC20_M	13850	0.88	0.33	0.00	1.00
S3BWC20_M	9866	0.92	0.27	0.00	1.00
S4BWC20_M	9182	0.90	0.30	0.00	1.00
R3FBWC20_M	15723	-0.02	0.38	-1.00	1.00
R4FBWC20_M	14779	-0.02	0.33	-1.00	1.00
S3FBWC20_M	10592	-0.01	0.35	-1.00	1.00
S4FBWC20_M	9652	-0.01	0.29	-1.00	1.00

Value	- R3B	WC20 R4BWC20
.m:Missing		142
.n:not specified		7
<pre>.p:Proxy interview, not asked</pre>		1275 929
.r:Refuse		860 692
0.Incorrect		1229 1397
1.Correct, 2nd try		562 359
2.Correct, 1st try	1	1648 11402
Value	- S3B	WC20 S4BWC20
.m:Missing		91
.n:not specified		5
.p:Proxy interview, not asked		726 470
.r:Refuse		497 349
.u:Unmar		4782 4847
.v:SP NR		349 280
0.Incorrect		682 752

1.Correct, 2nd try	369	208	
2.Correct, 1st try	8222		
2.collect, lot cry	0222	7073	
Value	R3BWC20 M	R4BWC20 M	
.p:Proxy interview, not asked	12 7 5	9 2 9	
0.Incorrect		1682	
1.Correct	12975		
1.0011000	12973	12100	
Value	S3BWC20 M	S4BWC20 M	
.p:Proxy interview, not asked	$7\overline{2}.6$	_	
u:Unmar	4782	4847	
.v:SP NR	349		
0.Incorrect	798		
1.Correct	9068		
1.Correct	9000	0291	
Value	R3FBWC20 M	R4FBWC20 M	
-1.Missing, not imputed	1275	9 <u>2</u> 9	
0.Not Imputed	13421	13158	
1.Imputed	1027	692	
1.1mpuceu	1027	0,72	
Value	S3FBWC20 M	S4FBWC20 M	
.u:Unmar	47 <u>8</u> 2	4847	
.v:SP NR	349	280	
-1.Missing, not imputed	726		
	9264	8833	
0.Not Imputed			
1.Imputed	602	349	

How Constructed

RwBWC20 indicates the respondent's backwards counting score. Respondents were asked to count backwards for 10 continuous numbers from 20. If the respondent was not able to complete the task in the first try, then they could try a second time. Two points are given if successful on the first try, one if successful on the second try, and zero if not successful on either try. The backwards counting questions were only asked in Waves 3 and 4 (2012 and 2015). RwBWC20 is set to .p for proxy interviews, .r if the respondent refused to complete the cognition exercises, .n if the answer was "Not specified", and .m if they didn't complete the section but completed the rest of the interview. The variable is plain missing (.) for respondents who did not respond to the current wave.

RwBWC20_M indicates whether the respondent was able to successfully count backwards for 10 continuous numbers from 20. RwBWC20_M is constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwBWC20_M is set to .p for proxy interviews. The variable is set to plain missing (.) for respondents who did not respond to the current

Respondents were asked to count backwards for 10 continuous numbers from 20. While RwBWC20 indicates the respondent's backwards counting score with two points given if successful on the first try, one if successful on the second try, and zero if not successful on either try. RwBWC20_M indicates whether the respondent was able to successfully count backwards for 10 continuous numbers from 20 and uses the imputed cognitive data. RwBWC20_M does not indicate whether the respondent was able to complete the task in the first or second try.

RwFBWC20_M is a flag variable indicating whether or not any component of RwBWC20_M was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwBWC20, SwBWC20_M, and SwFBWC20_M are taken from the Wave 'w' spouse's values for RwBWC20, RwBWC20_M, and RwFBWC20_M, respectively. In addition to the special missing codes used in RwBWC20, RwBWC20_M, and RwFBWC20_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The backwards counting questions were only asked in Waves 3 and 4 (2012 and 2015).

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS the backwards counting questions only included counting back from 20, whereas the HRS also asks counting back from 86.

```
Wave 3 Imputed Cognition:
    E12C_FLAG_12
E12C_IMP_12
                      Numeracy - Time for First and Second Attempt: Flag if I
                       \hbox{Numeracy - Time for First and Second Attempt (Imputed)}\\
                      Numeracy - Score for First and Second Attempt: Flag if
Numeracy - Score for First and Second Attempt (Imputed)
    E12 FLAG 12
    E12 IMP 12
Wave 4 Imputed Cognition:
    E12C FLAG 15
                       Numeracy - Time for First and Second Attempt: Flag if I
    E12C IMP 15
                       Numeracy - Time for First and Second Attempt (Imputed)
    E12 FLAG 15
                       Numeracy - Score for First and Second Attempt: Flag if
    E12 IMP 15
                      Numeracy - Score for First and Second Attempt (Imputed)
```

Date Naming/Orientation

Wave	Variable	Label	Туре
2	R2DY	r2dy: w2 R Date Naming: Day of the Month	Categ
	R3DY	r3dy: w3 R Date Naming: Day of the Month	Categ
	R4DY	r4dy: w4 R Date Naming: Day of the Month	Categ
	R5DY	r5dy: w5 R Date Naming: Day of the Month	Categ
			categ
	S2DY	s2dy: w2 S Date Naming: Day of the Month	Categ
	S3DY	s3dy: w3 S Date Naming: Day of the Month	Categ
	S4DY	s4dy: w4 S Date Naming: Day of the Month	Categ
5	S5DY	s5dy: w5 S Date Naming: Day of the Month	Categ
2	R2FDY	r2fdy: w2 Cognition Flag R Date Naming-Day of the Month	Categ
3	R3FDY	r3fdy: w3 Cognition Flag R Date Naming-Day of the Month	Categ
4	R4FDY	r4fdy: w4 Cognition Flag R Date Naming-Day of the Month	Categ
5	R5FDY	r5fdy: w5 Cognition Flag R Date Naming-Day of the Month	Categ
2	S2FDY	s2fdy: w2 Cognition Flag S Date Naming-Day of the Month	Categ
3	S3FDY	s3fdy: w3 Cognition Flag S Date Naming-Day of the Month	Categ
4	S4FDY	s4fdy: w4 Cognition Flag S Date Naming-Day of the Month	Categ
5	S5FDY	s5fdy: w5 Cognition Flag S Date Naming-Day of the Month	Categ
2	R2MO	r2mo: w2 R Date Naming: Month	Categ
3	R3MO	r3mo: w3 R Date Naming: Month	Categ
4	R4MO	r4mo: w4 R Date Naming: Month	Categ
5	R5MO	r5mo: w5 R Date Naming: Month	Categ
2	S2MO	s2mo: w2 S Date Naming: Month	Categ
3	S3MO	s3mo: w3 S Date Naming: Month	Categ
4	S4MO	s4mo: w4 S Date Naming: Month	Categ
5	S5MO	s5mo: w5 S Date Naming: Month	Categ
2	R2FMO	r2fmo: w2 Cognition Flag R Date Naming-Month	Categ
3	R3FMO	r3fmo: w3 Cognition Flag R Date Naming-Month	Categ
4	R4FMO	r4fmo: w4 Cognition Flag R Date Naming-Month	Categ
5	R5FMO	r5fmo: w5 Cognition Flag R Date Naming-Month	Categ
2	S2FMO	s2fmo: w2 Cognition Flag S Date Naming-Month	Categ
	S3FMO	s3fmo: w3 Cognition Flag S Date Naming-Month	Categ
4		s4fmo: w4 Cognition Flag S Date Naming-Month	Categ
5	S5FMO	s5fmo: w5 Cognition Flag S Date Naming-Month	Categ
			_
2	R2YR	r2yr: w2 R Date Naming: Year	Categ
3	R3YR	r3yr: w3 R Date Naming: Year	Categ
4	R4YR	r4yr: w4 R Date Naming: Year	Categ
5	R5YR	r5yr: w5 R Date Naming: Year	Categ
2	S2YR	s2yr: w2 S Date Naming: Year	Categ
3	S3YR	s3yr: w3 S Date Naming: Year	Categ
4	S4YR	s4yr: w4 S Date Naming: Year	Categ
5	S5YR	s5yr: w5 S Date Naming: Year	Categ
2	R2FYR	r2fyr: w2 Cognition Flag R Date Naming-Year	Categ
	R3FYR	r3fyr: w3 Cognition Flag R Date Naming-Year	Categ
	R4FYR	r4fyr: w4 Cognition Flag R Date Naming-Year	Categ
5	R5FYR	r5fyr: w5 Cognition Flag R Date Naming-Year	Categ
2	S2FYR	s2fyr: w2 Cognition Flag S Date Naming-Year	Categ
3	S3FYR	s3fyr: w3 Cognition Flag S Date Naming-Year	Categ
4	S4FYR	s4fyr: w4 Cognition Flag S Date Naming-Year	Categ
5	S5FYR	s5fyr: w5 Cognition Flag S Date Naming-Year	Categ
J		,	9

2	R2ORIENT_M	r2orient_m: w2 R Date Naming Correctness	Categ
3	R3ORIENT_M	r3orient_m: w3 R Date Naming Correctness	Categ
4	R4ORIENT_M	r4orient_m: w4 R Date Naming Correctness	Categ
5	R5ORIENT_M	r5orient_m: w5 R Date Naming Correctness	Categ
2	S2ORIENT_M	s2orient_m: w2 S Date Naming Correctness	Categ
3	S3ORIENT_M	s3orient_m: w3 S Date Naming Correctness	Categ
4	S4ORIENT_M	s4orient_m: w4 S Date Naming Correctness	Categ
5	S5ORIENT_M	s5orient_m: w5 S Date Naming Correctness	Categ
4	R2FORIENT_M R3FORIENT_M R4FORIENT_M R5FORIENT_M	r2forient_m: w2 Cognition Flag R Date Naming/Orientation r3forient_m: w3 Cognition Flag R Date Naming/Orientation r4forient_m: w4 Cognition Flag R Date Naming/Orientation r5forient_m: w5 Cognition Flag R Date Naming/Orientation	Categ Categ Categ Categ
2	S2FORIENT_M	<pre>s2forient_m: w2 Cognition Flag S Date Naming/Orientation s3forient_m: w3 Cognition Flag S Date Naming/Orientation s4forient_m: w4 Cognition Flag S Date Naming/Orientation s5forient_m: w5 Cognition Flag S Date Naming/Orientation</pre>	Categ
3	S3FORIENT_M		Categ
4	S4FORIENT_M		Categ
5	S5FORIENT_M		Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2DY	12495	0.73	0.45	0.00	1.00
R3DY	14448	0.75	0.43	0.00	1.00
R4DY	13850	0.72	0.45	0.00	1.00
R5DY	15786	0.92	0.27	0.00	1.00
S2DY	8728	0.75	0.43	0.00	1.00
S3DY	9866	0.77	0.42	0.00	1.00
S4DY	9182	0.74	0.44	0.00	1.00
S5DY	7075	0.92	0.27	0.00	1.00
R2FDY	13704	-0.09	0.28	-1.00	1.00
R3FDY	15723	-0.06	0.31	-1.00	1.00
R4FDY	14779	-0.06	0.26	-1.00	1.00
R5FDY	17114	-0.08	0.27	-1.00	1.00
1101 1	1,111	0.00	0.27	1.00	1.00
S2FDY	9564	-0.09	0.28	-1.00	1.00
S3FDY	10592	-0.05	0.29	-1.00	1.00
S4FDY	9652	-0.05	0.22	-1.00	1.00
S5FDY	7638	-0.07	0.26	-1.00	1.00
R2MO	12495	0.90	0.30	0.00	1.00
R3MO	14448	0.91	0.28	0.00	1.00
R4MO	13850	0.91	0.29	0.00	1.00
R5MO	15786	0.93	0.25	0.00	1.00
S2MO	8728	0.91	0.28	0.00	1.00
S3MO	9866	0.92	0.26	0.00	1.00
S4MO	9182	0.92	0.27	0.00	1.00
S5MO	7075	0.93	0.25	0.00	1.00
5 0 1 1 0	, , , ,	0.30	0.20	0.00	1.00
R2FMO	13704	-0.09	0.28	-1.00	1.00
R3FMO	15723	-0.06	0.31	-1.00	1.00
R4FMO	14779	-0.06	0.26	-1.00	1.00
R5FMO	17114	-0.08	0.27	-1.00	1.00
S2FMO	9564	-0.09	0.28	-1.00	1.00
S3FMO	10592	-0.05	0.29	-1.00	1.00
S4FMO	9652	-0.05	0.22	-1.00	1.00
S5FMO	7638	-0.03	0.26	-1.00	1.00
SUPMO	1030	-0.07	0.20	-1.00	1.00

R2YR	12495	0.82	0.38	0.00		1.00
R3YR	14448	0.82	0.38	0.00		1.00
R4YR	13850	0.81	0.39	0.00		1.00
R5YR	15786	0.85	0.36	0.00		1.00
S2YR	8728	0.85	0.36	0.00		1.00
S3YR	9866	0.85	0.36	0.00		1.00
S4YR	9182	0.84	0.37	0.00		1.00
S5YR	7075	0.84	0.36	0.00		1.00
R2FYR	13704	-0.09	0.28	-1.00		1.00
R3FYR	15723	-0.06	0.31	-1.00		1.00
R4FYR	14779	-0.06	0.26	-1.00		1.00
R5FYR	17114	-0.08	0.27	-1.00		1.00
S2FYR	9564	-0.09	0.28	-1.00		1.00
S3FYR	10592	-0.05	0.30	-1.00		1.00
S4FYR	9652	-0.05	0.22	-1.00		1.00
S5FYR	7638	-0.07	0.26	-1.00		1.00
D00DTENE 14	10405	0.45	0.00	0.00		2 00
R2ORIENT_M	12495	2.45	0.89	0.00		3.00
R3ORIENT_M	14448	2.48	0.82	0.00		3.00
R4ORIENT_M	13850	2.44	0.86	0.00		3.00
R5ORIENT_M	15786	2.71	0.71	0.00		3.00
S2ORIENT M	8728	2.51	0.85	0.00		3.00
S3ORIENT M	9866	2.54	0.77	0.00		3.00
S4ORIENT M	9182	2.50	0.80	0.00		3.00
STORIENT_N	7075	2.70	0.72	0.00		3.00
0001(121(1_11	7070	2.70	0.72	0.00		3.00
R2FORIENT M	13704	-0.09	0.28	-1.00		1.00
R3FORIENT M	15723	-0.06	0.32	-1.00		1.00
R4FORIENT M	14779	-0.06	0.26	-1.00		1.00
R5FORIENT_M	17114	-0.08	0.27	-1.00		1.00
S2FORIENT_M	9564	-0.09	0.28	-1.00		1.00
S3FORIENT_M	10592	-0.05	0.30	-1.00		1.00
S4FORIENT_M	9652	-0.05	0.22	-1.00		1.00
S5FORIENT_M	7638	-0.07	0.26	-1.00		1.00
Categorical V	ariable Codes	S				
J						
Value				R2DY	R3DY	R4DY
.m:Missing		·		20	NODI	VADI
_	riew, not asked			1178	1275	929
.s:Skip	,	i		11	-	. = *

Value	R2DY	R3DY	R4DY	R5DY
.m:Missing	20			
.p:Proxy interview, not asked	1178	1275	929	1328
.s:Skip	11			
0.Incorrect	3434	3638	3845	1212
1.Correct	9061	10810	10005	14574
Value	S2DY	S3DY	S4DY	S5DY
.m:Missing	6			
.p:Proxy interview, not asked	821	726	470	563
.s:Skip	9			
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
0.Incorrect	2196	2297	2352	539
1.Correct	6532	7569	6830	6536
Value	R2FDY	R3FDY	R4FDY	R5FDY
-1.Missing, not imputed	1209	1275	929	1328
0.Not Imputed	12491	14117	13767	15762
1.Imputed	4	331	83	24
Value	S2FDY	S3FDY	S4FDY	S5FDY
.u:Unmar	4009	4782	4847	5227

.v:SP NR	131	349	280	501
-1.Missing, not imputed	836	726	470	563
0.Not Imputed	8725	9647	9153	7067
1.Imputed	3	219	29	8
-				
Value	R2MO	R3MO	R4MO	R5MO
.m:Missing	20			
.p:Proxy interview, not asked	1178	1275	929	1328
.s:Skip	11			
0.Incorrect	1231	1259	1291	1055
1.Correct	11264	13189	12559	14731
1.0011000	11201	13103	12333	14/31
Value	S2MO	S3MO	S4MO	S5MO
.m:Missing	1 6	55110	01110	55110
	821	726	470	563
.p:Proxy interview, not asked) 021	120	4 / 0	363
.s:Skip	1 4009	4700	4047	5227
.u:Unmar	•	4782	4847	
.v:SP NR	131	349	280	501
0.Incorrect	757	740	751	482
1.Correct	7971	9126	8431	6593
Value	R2FMO	R3FMO	R4FMO	R5FMO
-1.Missing, not imputed	1209	1275	929	1328
0.Not Imputed	12491	14116	13767	15762
1.Imputed	4	332	83	24
Value	S2FMO	S3FMO	S4FMO	S5FMO
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
-1.Missing, not imputed	836	726	470	563
0.Not Imputed	8725	9647	9153	7067
1.Imputed	3	219	29	8
1.1mpacca	9	217	23	Ŭ
Value	R2YR	R3YR	R4YR	R5YR
.m:Missing	20	1/211/	1/111/	1/211/
· · · · · · · · · · · · · · · · · · ·	1178	1075	000	1220
.p:Proxy interview, not asked	•	1275	929	1328
.s:Skip	11			
0.Incorrect	2261	2608	2652	2382
1.Correct	10234	11840	11198	13404
Value	S2YR	S3YR	S4YR	S5YR
.m:Missing	6			
.p:Proxy interview, not asked	821	726	470	563
.s:Skip	9			
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
0.Incorrect	1320	1511	1466	1106
1.Correct	7408	8355	7716	5969
Value	R2FYR	R3FYR	R4FYR	R5FYR
-1.Missing, not imputed	1209	1275	929	1328
0.Not Imputed	12491	14108	13767	15762
1.Imputed	4	340	83	24
	-			
Value	S2FYR	S3FYR	S4FYR	S5FYR
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
	836	726	470	
-1.Missing, not imputed	•			563
0.Not Imputed	8725	9643	9153	7067 8
1.Imputed	3	223	29	8
Value	DODIENE M	א שואמדט∨נט	א שואקדם ח∧ם	א שואהדהסקם
	·	R3ORIENT_M	R4ORIENT_M	R5ORIENT_M
.m:Missing	20			
.p:Proxy interview, not asked	1178	1275	929	1328
.s:Skip	11			
0.All incorrect	872	691	786	641
1.One of combination correct	842	974	1029	427
2.Two of combination correct	2626	3484	3372	1872
3.All correct	8155	9299	8663	12846
Value	S2ORIENT_M	S3ORIENT_M	S4ORIENT_M	S50RIENT_M
.m:Missing		=	=	_
.p:Proxy interview, not asked	821	726	470	563
- · · · · · · · · · · · · · · · · · · ·				

.s:Skip		9			
.u:Unmar		4009	4782	4847	5227
.v:SP NR		131	349	280	501
0.All incorrect		517	357	417	293
1.One of combination correct		486	597	567	192
2.Two of combination correct		1750	2283	2184	864
3.All correct		5975	6629	6014	5726
Value		R2FORIENT_M	R3FORIENT_M	R4FORIENT_M	R5FORIENT_M
-1.Missing, not imputed		1209	1275	929	1328
0.Not Imputed		12491	14096	13767	15762
1.Imputed	I	4	352	83	24
Value	1	S2FORIENT M	S3FORIENT M	S4FORIENT M	S5FORIENT M
		-	_	_	_
.u:Unmar		4009	4782	4847	5227
.v:SP NR		131	349	280	501
-1.Missing, not imputed		836	726	470	563
0.Not Imputed		8725	9634	9153	7067
1.Imputed		3	232	29	8

How Constructed

RwDY, RwMO, and RwYR indicate whether the respondent was able to report the date (when the interview took place) correctly, including day of the month, month, and year, respectively. Each of these variables is coded as 1 for a correct answer and 0 for an incorrect answer. RwORIENT M indicates the orientation to day of the month, month, and year. It is an MHAS specific variable and the summary measure for these 3 variables. RwORIENT M ranges from 0 to 3, the higher score the better oriented. RwDY, RwMO, RwYR, and RWORIENT M are constructed using the imputed cognitive function variables provided by MHAS. Using the method $\overline{\text{of}}$ sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. These variables are set to .p for proxy interviews. In Wave 2, RwDY, RwMO, and RwYR were also set to .s if the cognition section was skipped because the language of the interview was different from Spanish and .m if the responses are missing because they didn't complete the task but completed the rest of the interview. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

The orientation questions were only asked starting in Wave 2 (2003).

RwFDY, RwFMO, RwFYR, and RwFORIENT_M are flag variables indicating whether any component of RwDY, RwMO, RwYR, and RwORIENT_M, respectively, was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwDY, SwMO, SwYR, SwORIENT_M, SwFDY, SwFMO, SwFYR, and SwFORIENT_M are taken from the Wave 'w' spouse's values for RwDY, RwMO, RwYR, RwORIENT_M, RwFDY, RwFMO, RwFYR, and RwFORIENT_M, respectively. In addition to the special missing codes used in RwDY, RwMO, RwYR, RwORIENT_M, RwFDY, RwFMO, RwFYR, and RwFORIENT_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The orientation questions were only asked starting in Wave 2 (2003).

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS respondents are not asked to report the day of the week.

MHAS Variables Used

Wave 2 Imputed Cognition:

```
E13A FLAG 03
                    Orientation - Day: Flag if Imputed
                    Orientation - Day (Imputed)
    E13A IMP 03
    E13B FLAG 03
                    Orientation - Month: Flag if Imputed
    E13B IMP 03
                    Orientation - Month (Imputed)
                    Orientation - Year: Flag if Imputed
    E13C FLAG 03
    E13C IMP 03
                    Orientation - Year (Imputed)
Wave 3 Imputed Cognition:
    E11A FLAG 12
                    Orientation - Day: Flag if Imputed
    E11A IMP 12
                    Orientation - Day (Imputed)
    E11B_FLAG_12
                    Orientation - Month: Flag if Imputed
    E11B_IMP_12
                    Orientation - Month (Imputed)
    E11C_FLAG_12
E11C_IMP_12
                    Orientation - Year: Flag if Imputed
                    Orientation - Year (Imputed)
Wave 4 Imputed Cognition:
    E11A_FLAG 15
                    Orientation - Day: Flag if Imputed
                    Orientation - Day (Imputed)
    E11A IMP 15
   E11B FLAG 15
                    Orientation - Month: Flag if Imputed
    E11B IMP 15
                    Orientation - Month (Imputed)
    E11C FLAG 15
                    Orientation - Year: Flag if Imputed
    E11C IMP 15
                    Orientation - Year (Imputed)
Wave 5 Imputed Cognition:
   Ella FLAG 18
                    Orientation - Day: Flag if Imputed
    E11A IMP 18
                    Orientation - Day (Imputed)
    E11B FLAG 18
                    Orientation - Month: Flag if Imputed
    E11B_IMP_18
                    Orientation - Month (Imputed)
    E11C_FLAG_18
                    Orientation - Year: Flag if Imputed
    E11C_IMP_18
                    Orientation - Year (Imputed)
```

Serial 7's

Wave	Variable	Label	Type
_	R4SER7 R5SER7	r4ser7: w4 R Serial 7's number of correct subtractions r5ser7: w5 R Serial 7's number of correct subtractions	Cont Cont
_	S4SER7 S5SER7	s4ser7: w4 S Serial 7's number of correct subtractions s5ser7: w5 S Serial 7's number of correct subtractions	Cont Cont
_	R4FSER7 R5FSER7	r4fser7: w4 Cognition Flag R Serial 7 subtractions r5fser7: w5 Cognition Flag R Serial 7 subtractions	Categ Categ
_	S4FSER7 S5FSER7	s4fser7: w4 Cognition Flag S Serial 7 subtractions s5fser7: w5 Cognition Flag S Serial 7 subtractions	Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R4SER7	13850	3.04	1.57	0.00	5.00
R5SER7	15786	3.10	1.60		5.00
S4SER7	9182	3.16	1.54	0.00	5.00
S5SER7	7075	3.05	1.61		5.00
R4FSER7	14779	0.27	0.57	-1.00	1.00
R5FSER7	17114	0.18	0.55	-1.00	
S4FSER7	9652	0.25	0.53	-1.00	1.00
S5FSER7	7638	0.20	0.55	-1.00	

Categorical Variable Codes

Value	R4FSER7	R5FSER7
-1.Missing, not imputed	929	1328
0.Not Imputed	8921	11407
1.Imputed	4929	4379
Value	S4FSER7	S5FSER7
.u:Unmar	4847	5227
.v:SP NR	280	501
-1.Missing, not imputed	470	563
0.Not Imputed	6289	5011
1.Imputed	2893	2064

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. Correct subtractions are based on the prior number given, so that even if one subtraction is incorrect subsequent trials are evaluated on the given (perhaps wrong) answer. Valid scores are 0-5. RwSER7 is constructed using the imputed cognitive function variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwSER7 is set to special missing .p if the cognition questions were skipped because the interview was by proxy. RwSER7 is set to plain missing (.) for respondents who did not respond to this wave.

The serial 7's questions were only asked starting in Wave 4.

RWFSER7 is a flag variable indicating whether or not any component of RwSER7 was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including proxy interviews, and this value has been left missing.

SwSER7 and SwFSER7 provide 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 and RwFSER7, respectively. In addition to the special missing codes used in RwSER7 and RwFSER7, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The serial 7's questions were only asked starting in Wave 4.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Proxy Cognition: JORM IQCODE

Wave	Variable	Label	Type
1	R1IQSCORE1	rligscorel:w1 R JORM family/friend details	Categ
2	R2IQSCORE1	r2iqscore1:w2 R JORM family/friend details	Categ
3	R3IQSCORE1	r3iqscore1:w3 R JORM family/friend details	Categ
4	R4IQSCORE1	r4iqscore1:w4 R JORM family/friend details	Categ
	R5IQSCORE1	r5iqscore1:w5 R JORM family/friend details	Categ
			_
1	S1IQSCORE1	sliqscorel:w1 S JORM family/friend details	Categ
	S2IQSCORE1	s2iqscore1:w2 S JORM family/friend details	Categ
3	S3IQSCORE1	s3iqscore1:w3 S JORM family/friend details	Categ
	S4IQSCORE1	s4iqscore1:w4 S JORM family/friend details	Categ
5	S5IQSCORE1	s5iqscore1:w5 S JORM family/friend details	Categ
1	R1FIQSCORE1	rlfiqscorel:wl R JORM flag family/friend details	Categ
	R2FIQSCORE1	r2fiqscore1:w2 R JORM flag family/friend details	Categ
	R3FIQSCORE1	r3fiqscore1:w3 R JORM flag family/friend details	Categ
	R4FIQSCORE1	r4fiqscore1:w4 R JORM flag family/friend details	Categ
5	R5FIQSCORE1	r5fiqscore1:w5 R JORM flag family/friend details	Categ
			_
1	S1FIQSCORE1	slfiqscorel:w1 S JORM flag family/friend details	Categ
2	S2FIQSCORE1	s2fiqscore1:w2 S JORM flag family/friend details	Categ
3	S3FIQSCORE1	s3fiqscore1:w3 S JORM flag family/friend details	Categ
	S4FIQSCORE1	s4fiqscore1:w4 S JORM flag family/friend details	Categ
5	S5FIQSCORE1	s5fiqscore1:w5 S JORM flag family/friend details	Categ
1	R1IQSCORE2	rligscore2:w1 R JORM recent events	Categ
	R2IQSCORE2	r2iqscore2:w2 R JORM recent events	Categ
	R3IQSCORE2	r3igscore2:w3 R JORM recent events	Categ
	R4IQSCORE2	r4iqscore2:w4 R JORM recent events	Categ
	R5IQSCORE2	r5iqscore2:w5 R JORM recent events	Categ
	_		
1	S1IQSCORE2	sliqscore2:w1 S JORM recent events	Categ
	S2IQSCORE2	s2iqscore2:w2 S JORM recent events	Categ
	S3IQSCORE2	s3iqscore2:w3 S JORM recent events	Categ
4	S4IQSCORE2	s4iqscore2:w4 S JORM recent events	Categ
5	S5IQSCORE2	s5iqscore2:w5 S JORM recent events	Categ
1	R1FIQSCORE2	r1figscore2:w1 R JORM flag recent events	Categ
	R2FIQSCORE2	r2figscore2:w2 R JORM flag recent events	Categ
3	R3FIQSCORE2	r3figscore2:w3 R JORM flag recent events	Categ
4	R4FIQSCORE2	r4fiqscore2:w4 R JORM flag recent events	Categ
5	R5FIQSCORE2	r5fiqscore2:w5 R JORM flag recent events	Categ
1	S1FIQSCORE2	alfigagoro2.w1 & TOPM flog regent events	Cator
	S2FIQSCORE2	s1fiqscore2:w1 S JORM flag recent events s2fiqscore2:w2 S JORM flag recent events	Categ
	S3FIQSCORE2	s3fiqscore2:w3 S JORM flag recent events	Categ Categ
	S4FIQSCORE2	s4fiqscore2:w4 S JORM flag recent events	Categ
5	S5FIQSCORE2	s5fiqscore2:w5 S JORM flag recent events	Categ
J	55F TQ5COREZ	3311q3c01e2.w3 3 00NM 11ag lecent events	categ
1	R1IQSCORE3	rliqscore3:w1 R JORM recent conversations	Categ
	R2IQSCORE3	r2iqscore3:w2 R JORM recent conversations	Categ
	R3IQSCORE3	r3iqscore3:w3 R JORM recent conversations	Categ
	R4IQSCORE3	r4iqscore3:w4 R JORM recent conversations	Categ
5	R5IQSCORE3	r5iqscore3:w5 R JORM recent conversations	Categ
1	S1IQSCORE3	sliqscore3:w1 S JORM recent conversations	Categ
	S2IQSCORE3	s2iqscore3:w2 S JORM recent conversations	Categ
3	S3IQSCORE3	s3iqscore3:w3 S JORM recent conversations	Categ
4	S4IQSCORE3	s4iqscore3:w4 S JORM recent conversations	Categ
5	S5IQSCORE3	s5iqscore3:w5 S JORM recent conversations	Categ

1	R1FIOSCORE3	rlfiqscore3:w1 R JORM flag recent conversations	Categ
2	R2FIOSCORE3	r2fiqscore3:w2 R JORM flag recent conversations	_
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3	R3FIQSCORE3	r3fiqscore3:w3 R JORM flag recent conversations	Categ
4	R4FIQSCORE3	r4fiqscore3:w4 R JORM flag recent conversations	Categ
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5	R5FIQSCORE3	r5fiqscore3:w5 R JORM flag recent conversations	Categ
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1	S1FIQSCORE3	s1fiqscore3:w1 S JORM flag recent conversations	Categ
2	S2FIQSCORE3	s2fiqscore3:w2 S JORM flag recent conversations	Categ
			_
3	S3FIQSCORE3	s3fiqscore3:w3 S JORM flag recent conversations	Categ
4	S4FIOSCORE3	s4fiqscore3:w4 S JORM flag recent conversations	Categ
	~		
5	S5FIQSCORE3	s5fiqscore3:w5 S JORM flag recent conversations	Categ
1	R1IQSCORE4	rliqscore4:w1 R JORM address and telephone number	Categ
			_
2	R2IQSCORE4	r2iqscore4:w2 R JORM address and telephone number	Categ
3	R3IQSCORE4	r3iqscore4:w3 R JORM address and telephone number	Categ
	-		_
4	R4IQSCORE4	r4iqscore4:w4 R JORM address and telephone number	Categ
5	R5IQSCORE4	r5iqscore4:w5 R JORM address and telephone number	Categ
0	NOIQDOONE I	rolqootel.wo k ook address and telephone name!	ouccg
1	S1IQSCORE4	sliqscore4:w1 S JORM address and telephone number	Categ
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2	S2IQSCORE4	s2iqscore4:w2 S JORM address and telephone number	Categ
3	S3IOSCORE4	s3iqscore4:w3 S JORM address and telephone number	Categ
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4	S4IQSCORE4	s4iqscore4:w4 S JORM address and telephone number	Categ
5	S5IQSCORE4	s5iqscore4:w5 S JORM address and telephone number	Categ
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1	R1FIOSCORE4	rlfiqscore4:w1 R JORM flag address and telephone number	Categ
2	DOETOCCODE 4		Categ
	R2FIQSCORE4	r2fiqscore4:w2 R JORM flag address and telephone number	_
3	R3FIQSCORE4	r3fiqscore4:w3 R JORM flag address and telephone number	Categ
			_
4	R4FIQSCORE4	r4fiqscore4:w4 R JORM flag address and telephone number	Categ
5	R5FIQSCORE4	r5fiqscore4:w5 R JORM flag address and telephone number	Categ
1	S1FIQSCORE4	slfiqscore4:wl S JORM flag address and telephone number	Categ
2	S2FIQSCORE4	s2fiqscore4:w2 S JORM flag address and telephone number	Categ
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3	S3FIQSCORE4	s3fiqscore4:w3 S JORM flag address and telephone number	Categ
4	S4FIQSCORE4	s4fiqscore4:w4 S JORM flag address and telephone number	Categ
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5	S5FIQSCORE4	s5fiqscore4:w5 S JORM flag address and telephone number	Categ
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1	R1IQSCORE5	rliqscore5:w1 R JORM day and month	Categ
2	R2IQSCORE5	r2iqscore5:w2 R JORM day and month	Categ
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3	R3IQSCORE5	r3iqscore5:w3 R JORM day and month	Categ
4	R4IQSCORE5	r4iqscore5:w4 R JORM day and month	Categ
5	R5IQSCORE5	r5iqscore5:w5 R JORM day and month	Categ
J	KJIQSCOREJ	131qscores.ws k sown day and month	categ
1	S1IOSCORE5	sliqscore5:w1 S JORM day and month	Categ
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2	S2IQSCORE5	s2iqscore5:w2 S JORM day and month	Categ
3	S3IOSCORE5	s3iqscore5:w3 S JORM day and month	Categ
	~		-
4	S4IQSCORE5	s4iqscore5:w4 S JORM day and month	Categ
5	S5IQSCORE5	s5iqscore5:w5 S JORM day and month	Categ
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1	R1FIQSCORE5	rlfiqscore5:w1 R JORM flag day and month	Categ
2	R2FIQSCORE5	r2fiqscore5:w2 R JORM flag day and month	Cator
	-		Categ
3	R3FIQSCORE5	r3fiqscore5:w3 R JORM flag day and month	Categ
4	R4FIQSCORE5	r4fiqscore5:w4 R JORM flag day and month	Categ
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5	R5FIQSCORE5	r5fiqscore5:w5 R JORM flag day and month	Categ
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1	S1FIQSCORE5	s1fiqscore5:w1 S JORM flag day and month	Categ
2	S2FIQSCORE5	s2fiqscore5:w2 S JORM flag day and month	Categ
			_
3	S3FIQSCORE5	s3fiqscore5:w3 S JORM flag day and month	Categ
4	S4FIQSCORE5	s4fiqscore5:w4 S JORM flag day and month	Categ
			_
5	S5FIQSCORE5	s5fiqscore5:w5 S JORM flag day and month	Categ
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	R1IQSCORE6	rliqscore6:w1 R JORM where things are usually kept	Categ
2	R1IQSCORE6 R2IQSCORE6	rliqscore6:w1 R JORM where things are usually kept r2iqscore6:w2 R JORM where things are usually kept	Categ
	R2IQSCORE6	r2iqscore6:w2 R JORM where things are usually kept	Categ
2			_

4			
	D4TOGGODEC	Address Cond D. TODM schools the conduction of the conduction	0 - 1
_	R4IQSCORE6	r4iqscore6:w4 R JORM where things are usually kept	Categ
5	R5IQSCORE6	r5iqscore6:w5 R JORM where things are usually kept	Categ
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1	S1IQSCORE6	sligscore6:w1 S JORM where things are usually kept	Categ
			_
2	S2IQSCORE6	s2iqscore6:w2 S JORM where things are usually kept	Categ
3	S3IQSCORE6	s3iqscore6:w3 S JORM where things are usually kept	Categ
4			_
	S4IQSCORE6	s4iqscore6:w4 S JORM where things are usually kept	Categ
5	S5IQSCORE6	s5iqscore6:w5 S JORM where things are usually kept	Categ
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1	R1FIOSCORE6	rlfiqscore6:wl R JORM flag where things are usually kept	Categ
2	R2FIQSCORE6	r2fiqscore6:w2 R JORM flag where things are usually kept	Categ
			_
3	R3FIQSCORE6	r3fiqscore6:w3 R JORM flag where things are usually kept	Categ
4	R4FIQSCORE6	r4fiqscore6:w4 R JORM flag where things are usually kept	Categ
	-		_
5	R5FIQSCORE6	r5fiqscore6:w5 R JORM flag where things are usually kept	Categ
			_
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1	S1FIQSCORE6	slfiqscore6:wl S JORM flag where things are usually kept	Categ
2	S2FIQSCORE6	s2fiqscore6:w2 S JORM flag where things are usually kept	Categ
			_
3	S3FIQSCORE6	s3fiqscore6:w3 S JORM flag where things are usually kept	Categ
4	S4FIQSCORE6	s4fiqscore6:w4 S JORM flag where things are usually kept	Categ
	-		_
5	S5FIQSCORE6	s5fiqscore6:w5 S JORM flag where things are usually kept	Categ
-	D1 T00000000	william and Tarata D. TODM where the City I it is	0 - 1
1	R1IQSCORE7	rliqscore7:w1 R JORM where to find things	Categ
2	R2IQSCORE7	r2iqscore7:w2 R JORM where to find things	Categ
			_
3	R3IQSCORE7	r3iqscore7:w3 R JORM where to find things	Categ
4	R4IQSCORE7	r4iqscore7:w4 R JORM where to find things	Categ
5	R5IQSCORE7	r5iqscore7:w5 R JORM where to find things	Categ
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1	S1IQSCORE7	sliqscore7:w1 S JORM where to find things	Categ
2	S2IQSCORE7	s2iqscore7:w2 S JORM where to find things	Categ
			_
3	S3IQSCORE7	s3iqscore7:w3 S JORM where to find things	Categ
4	S4IQSCORE7	s4iqscore7:w4 S JORM where to find things	Categ
			_
5	S5IQSCORE7	s5iqscore7:w5 S JORM where to find things	Categ
1	D1ETOGGODE7	wife account of D. Topm flow where to find things	0-4
1	R1FIQSCORE7	rlfiqscore7:w1 R JORM flag where to find things	Categ
2	R2FIQSCORE7	r2fiqscore7:w2 R JORM flag where to find things	Categ
3	_		_
	R3FIQSCORE7	r3fiqscore7:w3 R JORM flag where to find things	Categ
)		r4fiqscore7:w4 R JORM flag where to find things	
4	R4FIOSCORE7	TATIOSCOIE/.WA I DOMN TION WHELE TO TING CHINGS	Cated
4	R4FIQSCORE7		Categ
	R4FIQSCORE7 R5FIQSCORE7	r5fiqscore7:w4 R JORM flag where to find things	Categ Categ
4	-		_
4 5	R5FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things	Categ
4 5	R5FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things slfiqscore7:w1 S JORM flag where to find things	Categ Categ
4 5	R5FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things slfiqscore7:w1 S JORM flag where to find things	Categ
4 5 1 2	R5FIQSCORE7 S1FIQSCORE7 S2FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things s1fiqscore7:w1 S JORM flag where to find things s2fiqscore7:w2 S JORM flag where to find things	Categ Categ Categ
4 5 1 2 3	R5FIQSCORE7 S1FIQSCORE7 S2FIQSCORE7 S3FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things s1fiqscore7:w1 S JORM flag where to find things s2fiqscore7:w2 S JORM flag where to find things s3fiqscore7:w3 S JORM flag where to find things	Categ Categ Categ Categ
4 5 1 2	R5FIQSCORE7 S1FIQSCORE7 S2FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things s1fiqscore7:w1 S JORM flag where to find things s2fiqscore7:w2 S JORM flag where to find things s3fiqscore7:w3 S JORM flag where to find things	Categ Categ Categ
4 5 1 2 3 4	R5FIQSCORE7 S1FIQSCORE7 S2FIQSCORE7 S3FIQSCORE7 S4FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things s1fiqscore7:w1 S JORM flag where to find things s2fiqscore7:w2 S JORM flag where to find things s3fiqscore7:w3 S JORM flag where to find things s4fiqscore7:w4 S JORM flag where to find things	Categ Categ Categ Categ Categ
4 5 1 2 3	R5FIQSCORE7 S1FIQSCORE7 S2FIQSCORE7 S3FIQSCORE7	r5fiqscore7:w5 R JORM flag where to find things s1fiqscore7:w1 S JORM flag where to find things s2fiqscore7:w2 S JORM flag where to find things s3fiqscore7:w3 S JORM flag where to find things	Categ Categ Categ Categ
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4 5	S4IQSCORE11 S5IQSCORE11	s4iqscore11:w4 S JORM story in a book or on TV s5iqscore11:w5 S JORM story in a book or on TV	Categ Categ

1 R1FIQSCORE11 2 R2FIQSCORE11 3 R3FIQSCORE11 4 R4FIQSCORE11 5 R5FIQSCORE11	rlfiqscorel1:w1 R JORM flag story in a book or on TV r2fiqscorel1:w2 R JORM flag story in a book or on TV r3fiqscorel1:w3 R JORM flag story in a book or on TV r4fiqscorel1:w4 R JORM flag story in a book or on TV r5fiqscorel1:w5 R JORM flag story in a book or on TV	Categ Categ Categ Categ Categ
1 S1FIQSCORE11 2 S2FIQSCORE11 3 S3FIQSCORE11 4 S4FIQSCORE11 5 S5FIQSCORE11	slfiqscorel1:w1 S JORM flag story in a book or on TV s2fiqscorel1:w2 S JORM flag story in a book or on TV s3fiqscorel1:w3 S JORM flag story in a book or on TV s4fiqscorel1:w4 S JORM flag story in a book or on TV s5fiqscorel1:w5 S JORM flag story in a book or on TV	Categ Categ Categ Categ Categ
1 R1IQSCORE12 2 R2IQSCORE12 3 R3IQSCORE12 4 R4IQSCORE12 5 R5IQSCORE12	rliqscore12:w1 R JORM making decisions on everyday matters r2iqscore12:w2 R JORM making decisions on everyday matters r3iqscore12:w3 R JORM making decisions on everyday matters r4iqscore12:w4 R JORM making decisions on everyday matters r5iqscore12:w5 R JORM making decisions on everyday matters	Categ Categ Categ Categ Categ
1 S1IQSCORE12 2 S2IQSCORE12 3 S3IQSCORE12 4 S4IQSCORE12 5 S5IQSCORE12	sliqscore12:w1 S JORM making decisions on everyday matters s2iqscore12:w2 S JORM making decisions on everyday matters s3iqscore12:w3 S JORM making decisions on everyday matters s4iqscore12:w4 S JORM making decisions on everyday matters s5iqscore12:w5 S JORM making decisions on everyday matters	Categ Categ Categ Categ Categ
1 R1FIQSCORE12 2 R2FIQSCORE12 3 R3FIQSCORE12 4 R4FIQSCORE12 5 R5FIQSCORE12	rlfiqscorel2:wl R JORM flag making decisions on everyday mat r2fiqscorel2:w2 R JORM flag making decisions on everyday mat r3fiqscorel2:w3 R JORM flag making decisions on everyday mat r4fiqscorel2:w4 R JORM flag making decisions on everyday mat r5fiqscorel2:w5 R JORM flag making decisions on everyday mat	Categ Categ Categ Categ Categ
1 S1FIQSCORE12 2 S2FIQSCORE12 3 S3FIQSCORE12 4 S4FIQSCORE12 5 S5FIQSCORE12	slfiqscorel2:wl S JORM flag making decisions on everyday mat s2fiqscorel2:w2 S JORM flag making decisions on everyday mat s3fiqscorel2:w3 S JORM flag making decisions on everyday mat s4fiqscorel2:w4 S JORM flag making decisions on everyday mat s5fiqscorel2:w5 S JORM flag making decisions on everyday mat	Categ Categ Categ Categ Categ
1 R1IQSCORE13 2 R2IQSCORE13 3 R3IQSCORE13 4 R4IQSCORE13 5 R5IQSCORE13	rliqscore13:w1 R JORM handling money for shopping r2iqscore13:w2 R JORM handling money for shopping r3iqscore13:w3 R JORM handling money for shopping r4iqscore13:w4 R JORM handling money for shopping r5iqscore13:w5 R JORM handling money for shopping	Categ Categ Categ Categ Categ
1 S1IQSCORE13 2 S2IQSCORE13 3 S3IQSCORE13 4 S4IQSCORE13 5 S5IQSCORE13	sliqscore13:w1 S JORM handling money for shopping s2iqscore13:w2 S JORM handling money for shopping s3iqscore13:w3 S JORM handling money for shopping s4iqscore13:w4 S JORM handling money for shopping s5iqscore13:w5 S JORM handling money for shopping	Categ Categ Categ Categ Categ
1 R1FIQSCORE13 2 R2FIQSCORE13 3 R3FIQSCORE13 4 R4FIQSCORE13 5 R5FIQSCORE13	rlfiqscore13:w1 R JORM flag handling money for shopping r2fiqscore13:w2 R JORM flag handling money for shopping r3fiqscore13:w3 R JORM flag handling money for shopping r4fiqscore13:w4 R JORM flag handling money for shopping r5fiqscore13:w5 R JORM flag handling money for shopping	Categ Categ Categ Categ Categ
1 S1FIQSCORE13 2 S2FIQSCORE13 3 S3FIQSCORE13 4 S4FIQSCORE13 5 S5FIQSCORE13	slfiqscorel3:wl S JORM flag handling money for shopping s2fiqscorel3:w2 S JORM flag handling money for shopping s3fiqscorel3:w3 S JORM flag handling money for shopping s4fiqscorel3:w4 S JORM flag handling money for shopping s5fiqscorel3:w5 S JORM flag handling money for shopping	Categ Categ Categ Categ Categ
1 R1IQSCORE14 2 R2IQSCORE14 3 R3IQSCORE14	rliqscore14:w1 R JORM handling financial matters r2iqscore14:w2 R JORM handling financial matters r3iqscore14:w3 R JORM handling financial matters	Categ Categ Categ

4	R4IQSCORE14	r4iqscore14:w4 R JORM handling financial matters	Categ
5	R5IQSCORE14	r5iqscore14:w5 R JORM handling financial matters	Categ
			_
1	S1IQSCORE14	sliqscore14:w1 S JORM handling financial matters	Categ
2	S2IQSCORE14	s2iqscore14:w2 S JORM handling financial matters	Categ
3	S3IOSCORE14	s3iqscore14:w3 S JORM handling financial matters	Categ
4	S4IQSCORE14	s4igscore14:w4 S JORM handling financial matters	Categ
			_
5	S5IQSCORE14	s5iqscore14:w5 S JORM handling financial matters	Categ
-1	D1 DT0 000 DD1 4	16' 14 1 D TODY CI 1 11' 6' 1 1 1 1	a .
1	R1FIQSCORE14	rlfiqscore14:w1 R JORM flag handling financial matters	Categ
2	R2FIQSCORE14	r2fiqscore14:w2 R JORM flag handling financial matters	Categ
3	R3FIQSCORE14	r3fiqscore14:w3 R JORM flag handling financial matters	Categ
4	R4FIQSCORE14	r4fiqscore14:w4 R JORM flag handling financial matters	Categ
5	R5FIQSCORE14	r5fiqscore14:w5 R JORM flag handling financial matters	Categ
1	S1FIQSCORE14	s1fiqscore14:w1 S JORM flag handling financial matters	Categ
2	S2FIQSCORE14	s2fiqscore14:w2 S JORM flag handling financial matters	Categ
3	S3FIQSCORE14	s3fiqscore14:w3 S JORM flag handling financial matters	Categ
4	S4FIQSCORE14	s4figscore14:w4 S JORM flag handling financial matters	Categ
5	S5FIQSCORE14	s5fiqscore14:w5 S JORM flag handling financial matters	Categ
9	BOLIQUOORDII	borrage of the state of the sta	caccg
1	R1IQSCORE15	rligscore15:w1 R JORM handling other everyday arithmetic pro	Categ
2	R2IQSCORE15	r2iqscore15:w2 R JORM handling other everyday arithmetic pro	_
			Categ
3	R3IQSCORE15	r3iqscore15:w3 R JORM handling other everyday arithmetic pro	Categ
4	R4IQSCORE15	r4iqscore15:w4 R JORM handling other everyday arithmetic pro	Categ
5	R5IQSCORE15	r5iqscore15:w5 R JORM handling other everyday arithmetic pro	Categ
1	S1IQSCORE15	sliqscore15:w1 S JORM handling other everyday arithmetic pro	Categ
2	S2IQSCORE15	s2iqscore15:w2 S JORM handling other everyday arithmetic pro	Categ
3	S3IQSCORE15	s3iqscore15:w3 S JORM handling other everyday arithmetic pro	Categ
4	S4IQSCORE15	s4iqscore15:w4 S JORM handling other everyday arithmetic pro	Categ
5	S5IQSCORE15	s5iqscore15:w5 S JORM handling other everyday arithmetic pro	Categ
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1	R1FIQSCORE15	rlfiqscore15:wl R JORM flag handling other everyday arithmet	Categ
2	R2FIQSCORE15	r2fiqscore15:w2 R JORM flag handling other everyday arithmet	Categ
3	R3FIQSCORE15	r3fiqscore15:w3 R JORM flag handling other everyday arithmet	_
	-		Categ
4	R4FIQSCORE15	r4fiqscore15:w4 R JORM flag handling other everyday arithmet	Categ
5	R5FIQSCORE15	r5fiqscore15:w5 R JORM flag handling other everyday arithmet	Categ
-1	01 DT 0 0 0 0 D D 1 F	15' 15 1 0 700 51 1 11' 11	a .
1	S1FIQSCORE15	slfiqscore15:w1 S JORM flag handling other everyday arithmet	Categ
2	S2FIQSCORE15	s2fiqscore15:w2 S JORM flag handling other everyday arithmet	Categ
3	S3FIQSCORE15	s3fiqscore15:w3 S JORM flag handling other everyday arithmet	Categ
4	S4FIQSCORE15	s4fiqscore15:w4 S JORM flag handling other everyday arithmet	Categ
5	S5FIQSCORE15	s5fiqscore15:w5 S JORM flag handling other everyday arithmet	Categ
1	R1IQSCORE16	rliqscore16:w1 R JORM reason things through	Categ
2	R2IQSCORE16	r2iqscore16:w2 R JORM reason things through	Categ
3		r3iqscore16:w3 R JORM reason things through	Categ
4	R4IQSCORE16	r4iqscore16:w4 R JORM reason things through	Categ
5	R5IQSCORE16	r5iqscore16:w5 R JORM reason things through	Categ
J	NOTQUEONETO	131q3core10.w3 K bokki reason chings chrough	categ
1	S1IOSCORE16	sligscore16:w1 S JORM reason things through	Categ
	~		_
2	S2IQSCORE16	s2iqscore16:w2 S JORM reason things through	Categ
3	S3IQSCORE16	s3iqscore16:w3 S JORM reason things through	Categ
4	S4IQSCORE16	s4iqscore16:w4 S JORM reason things through	Categ
5	S5IQSCORE16	s5iqscore16:w5 S JORM reason things through	Categ
1	-1	rlfiqscorel6:wl R JORM flag reason things through	Categ
_	R1FIQSCORE16		_
2	R2FIQSCORE16	r2fiqscore16:w2 R JORM flag reason things through	Categ
3	-		_
	R2FIQSCORE16	r2fiqscore16:w2 R JORM flag reason things through r3fiqscore16:w3 R JORM flag reason things through	Categ
3	R2FIQSCORE16 R3FIQSCORE16	r2fiqscore16:w2 R JORM flag reason things through r3fiqscore16:w3 R JORM flag reason things through r4fiqscore16:w4 R JORM flag reason things through	Categ Categ Categ
3 4	R2FIQSCORE16 R3FIQSCORE16 R4FIQSCORE16	r2fiqscore16:w2 R JORM flag reason things through r3fiqscore16:w3 R JORM flag reason things through	Categ Categ
3 4	R2FIQSCORE16 R3FIQSCORE16 R4FIQSCORE16	r2fiqscore16:w2 R JORM flag reason things through r3fiqscore16:w3 R JORM flag reason things through r4fiqscore16:w4 R JORM flag reason things through	Categ Categ Categ

2 3 4 5	S2FIQSCORE16 S3FIQSCORE16 S4FIQSCORE16 S5FIQSCORE16	s2fiqscore16:w2 S JORM flag reason things through s3fiqscore16:w3 S JORM flag reason things through s4fiqscore16:w4 S JORM flag reason things through s5fiqscore16:w5 S JORM flag reason things through	Categ Categ Categ Categ
1	R1JORMSCORE	rljormscore:w1 R JORM average score	Cont
2	R2JORMSCORE	r2jormscore:w2 R JORM average score	Cont
3	R3JORMSCORE	r3jormscore:w3 R JORM average score	Cont
4	R4JORMSCORE	r4jormscore:w4 R JORM average score	Cont
5	R5JORMSCORE	r5jormscore:w5 R JORM average score	Cont
1	S1JORMSCORE	sljormscore:w1 S JORM average score	Cont
2	S2JORMSCORE	s2jormscore:w2 S JORM average score	Cont
3	S3JORMSCORE	s3jormscore:w3 S JORM average score	Cont
4	S4JORMSCORE	s4jormscore:w4 S JORM average score	Cont
5	S5JORMSCORE	s5jormscore:w5 S JORM average score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IQSCORE1	1032	3.16	0.59	1.00	5.00
R2IOSCORE1	1178	3.13	0.56	1.00	5.00
R3IQSCORE1	1275	3.31	0.80	1.00	5.00
R4IQSCORE1	929	3.38	0.76	1.00	5.00
R5IQSCORE1	1328	3.26	0.74	1.00	5.00
KJIQSCOREI	1320	3.20	0.74	1.00	3.00
S1IQSCORE1	660	3.09	0.52	1.00	5.00
S2IQSCORE1	821	3.10	0.54	1.00	5.00
S3IQSCORE1	726	3.17	0.73	1.00	5.00
S4IQSCORE1	470	3.26	0.73	1.00	5.00
S5IQSCORE1	563	3.23	0.65	1.00	5.00
R1FIQSCORE1	15186	-0.93	0.26	-1.00	1.00
R2FIQSCORE1	13704	-0.91	0.28	-1.00	1.00
R3FIQSCORE1	15723	-0.92	0.27	-1.00	1.00
R4FIOSCORE1	14779	-0.94	0.24	-1.00	1.00
R5FIQSCORE1	17114	-0.92	0.27	-1.00	1.00
S1FIQSCORE1	10648	-0.94	0.25	-1.00	1.00
S2FIOSCORE1	9564	-0.91	0.28	-1.00	1.00
S3FIQSCORE1	10592	-0.93	0.25	-1.00	1.00
S4FIOSCORE1	9652	-0.95	0.23		1.00
~			0.27	-1.00	
S5FIQSCORE1	7638	-0.92	0.27	-1.00	1.00
R1IQSCORE2	1032	3.14	0.57	1.00	5.00
R2IQSCORE2	1178	3.12	0.53	1.00	5.00
R3IQSCORE2	1275	3.25	0.75	1.00	5.00
R4IQSCORE2	929	3.34	0.75	1.00	5.00
R5IQSCORE2	1328	3.22	0.72	1.00	5.00
101Q0C01th2	1320	J•22	0.72	1.00	3.00
S1IQSCORE2	660	3.08	0.54	1.00	5.00
S2IQSCORE2	821	3.09	0.50	1.00	5.00
S3IQSCORE2	726	3.12	0.64	1.00	5.00
S4IQSCORE2	470	3.23	0.68	1.00	5.00
S5IQSCORE2	563	3.19	0.66	1.00	5.00
R1FIQSCORE2	15186	-0.93	0.26	-1.00	1.00
R2FIOSCORE2	13704	-0.91	0.28	-1.00	1.00
R3FIQSCORE2	15723	-0.92	0.27	-1.00	1.00
R4FIQSCORE2	14779	-0.94	0.24	-1.00	1.00
R5FIQSCORE2	17114	-0.92	0.24	-1.00	1.00
MOL TÓDCOMEZ	1/114	0.32	0.27	1.00	1.00
S1FIQSCORE2	10648	-0.94	0.25	-1.00	1.00

S2FIQSCORE2	9564	-0.91	0.28	-1.00	1.00	
S3FIQSCORE2	10592	-0.93	0.25	-1.00	1.00	
S4FIQSCORE2	9652	-0.95	0.22	-1.00	0.00	
S5FIQSCORE2	7638	-0.93	0.27	-1.00	1.00	
D1 TOGGODES	1022	2 14	0 57	1 00	F 00	
R1IQSCORE3	1032	3.14	0.57	1.00	5.00	
R2IQSCORE3	1178	3.16	0.54	1.00	5.00	
		3.29	0.78			
R3IQSCORE3	1275			1.00	5.00	
R4IQSCORE3	929	3.37	0.78	1.00	5.00	
R5IQSCORE3	1328	3.27	0.72	1.00	5.00	
KOIQSCOKES	1320	3.21	0.72	1.00	3.00	
S1IOSCORE3	660	3.05	0.52	1.00	5.00	
~						
S2IQSCORE3	821	3.13	0.50	1.00	5.00	
S3IQSCORE3	726	3.16	0.69	1.00	5.00	
S4IQSCORE3	470	3.26	0.72	1.00	5.00	
S5IQSCORE3	563	3.22	0.66	1.00	5.00	
D1 ET 0 G G 0 D E 2	1 - 1 0 - 0	0 02	0.06	1 00	1 00	
R1FIQSCORE3	15186	-0.93	0.26	-1.00	1.00	
R2FIQSCORE3	13704	-0.91	0.28	-1.00	1.00	
R3FIOSCORE3	15723	-0.92	0.27	-1.00	1.00	
~						
R4FIQSCORE3	14779	-0.94	0.24	-1.00	1.00	
R5FIQSCORE3	17114	-0.92	0.27	-1.00	1.00	
NOT TQSCORES	1/114	0.92	0.27	1.00	1.00	
S1FIQSCORE3	10648	-0.94	0.25	-1.00	1.00	
S2FIQSCORE3	9564	-0.91	0.28	-1.00	1.00	
S3FIQSCORE3	10592	-0.93	0.25	-1.00	1.00	
S4FIQSCORE3	9652	-0.95	0.22	-1.00	0.00	
S5FIQSCORE3	7638	-0.93	0.26	-1.00	1.00	
R1IQSCORE4	1032	3.14	0.61	1.00	5.00	
R2IQSCORE4	1178	3.14	0.53	1.00	5.00	
R3IQSCORE4	1275	3.31	0.79	1.00	5.00	
R4IQSCORE4	929	3.37	0.80	1.00	5.00	
R5IQSCORE4	1328	3.27	0.71	1.00	5.00	
~ ~ ~ ~ ~						
21 7 2 2 2 2 2 7 7 4	660	2 07	0 56	1 00	F 00	
S1IQSCORE4	660	3.07	0.56	1.00	5.00	
S2IQSCORE4	821	3.09	0.47	1.00	5.00	
S3IOSCORE4						
~	726	3.15	0.68	1.00	5.00	
S4IQSCORE4	470	3.21	0.71	1.00	5.00	
S5IQSCORE4	563	3.24	0.65	1.00	5.00	
DOIQUEONE I	303	3.21	0.09	1.00	3.00	
R1FIQSCORE4	15186	-0.93	0.26	-1.00	1.00	
R2FIQSCORE4	13704	-0.91	0.29	-1.00	1.00	
R3FIQSCORE4	15723	-0.92	0.27	-1.00	1.00	
R4FIQSCORE4	14779	-0.94	0.25	-1.00	1.00	
		-0.92				
R5FIQSCORE4	17114	-0.92	0.27	-1.00	1.00	
S1FIQSCORE4	10648	-0.94	0.25	-1.00	1.00	
S2FIQSCORE4	9564	-0.91	0.28	-1.00	1.00	
S3FIQSCORE4	10592	-0.93	0.25	-1.00	1.00	
S4FIQSCORE4	9652	-0.95	0.22	-1.00	1.00	
S5FIQSCORE4	7638	-0.93	0.27	-1.00	1.00	
R1IQSCORE5	1032	3.16	0.59	1.00	5.00	
R2IQSCORE5	1178	3.17	0.58	1.00	5.00	
R3IQSCORE5	1275	3.32	0.82	1.00	5.00	
R4IQSCORE5	929	3.42	0.82	1.00	5.00	
R5IQSCORE5	1328	3.33	0.74	1.00	5.00	
C1 TOCCODES	660	3 00	0.52	1 00	5 00	
S1IQSCORE5	660	3.08	0.52	1.00	5.00	
S2IQSCORE5	821	3.12	0.55	1.00	5.00	
S3IQSCORE5	726	3.17	0.70	1.00	5.00	
S4IQSCORE5	470	3.26	0.75	1.00	5.00	
S5IQSCORE5	563	3.26	0.69	1.00	5.00	
	0 0 0	0.20	0.00		0.00	

R1FIQSCORE5 R2FIQSCORE5 R3FIQSCORE5 R4FIQSCORE5 R5FIQSCORE5	15186 13704 15723 14779 17114	-0.93 -0.91 -0.92 -0.94 -0.92	0.26 0.28 0.27 0.24 0.27	-1.00 -1.00 -1.00 -1.00 -1.00	1.00 1.00 1.00 1.00 1.00
S1FIQSCORE5 S2FIQSCORE5 S3FIQSCORE5 S4FIQSCORE5 S5FIQSCORE5	10648 9564 10592 9652 7638	-0.94 -0.91 -0.93 -0.95 -0.93	0.25 0.28 0.25 0.22 0.27	-1.00 -1.00 -1.00 -1.00 -1.00	1.00 1.00 1.00 1.00
R11QSCORE6 R21QSCORE6 R31QSCORE6 R41QSCORE6 R51QSCORE6	1032 1178 1275 929 1328	3.22 3.22 3.35 3.43 3.36	0.61 0.60 0.79 0.81 0.72	1.00 1.00 1.00 1.00	5.00 5.00 5.00 5.00 5.00
S1IQSCORE6 S2IQSCORE6 S3IQSCORE6 S4IQSCORE6 S5IQSCORE6	660 821 726 470 563	3.14 3.18 3.22 3.29 3.33	0.57 0.57 0.71 0.77 0.67	1.00 1.00 1.00 1.00	5.00 5.00 5.00 5.00 5.00
R1FIQSCORE6 R2FIQSCORE6 R3FIQSCORE6 R4FIQSCORE6 R5FIQSCORE6	15186 13704 15723 14779 17114	-0.93 -0.91 -0.92 -0.94 -0.92	0.26 0.28 0.27 0.25 0.27	-1.00 -1.00 -1.00 -1.00 -1.00	1.00 1.00 1.00 1.00
S1FIQSCORE6 S2FIQSCORE6 S3FIQSCORE6 S4FIQSCORE6 S5FIQSCORE6	10648 9564 10592 9652 7638	-0.94 -0.91 -0.93 -0.95 -0.93	0.25 0.28 0.25 0.22 0.26	-1.00 -1.00 -1.00 -1.00 -1.00	1.00 1.00 1.00 1.00
R1IQSCORE7 R2IQSCORE7 R3IQSCORE7 R4IQSCORE7 R5IQSCORE7	1032 1178 1275 929 1328	3.25 3.24 3.36 3.48 3.38	0.63 0.60 0.79 0.82 0.74	1.00 1.00 1.00 1.00 1.00	5.00 5.00 5.00 5.00
S1IQSCORE7 S2IQSCORE7 S3IQSCORE7 S4IQSCORE7 S5IQSCORE7	660 821 726 470 563	3.17 3.20 3.22 3.34 3.33	0.57 0.56 0.69 0.78 0.69	1.00 1.00 1.00 1.00 1.00	5.00 5.00 5.00 5.00 5.00
R1FIQSCORE7 R2FIQSCORE7 R3FIQSCORE7 R4FIQSCORE7 R5FIQSCORE7	15186 13704 15723 14779 17114	-0.93 -0.91 -0.92 -0.94 -0.92	0.26 0.28 0.27 0.25 0.27	-1.00 -1.00 -1.00 -1.00 -1.00	1.00 1.00 1.00 1.00 1.00
S1FIQSCORE7 S2FIQSCORE7 S3FIQSCORE7 S4FIQSCORE7 S5FIQSCORE7	10648 9564 10592 9652 7638	-0.94 -0.91 -0.93 -0.95 -0.93	0.25 0.28 0.25 0.22	-1.00 -1.00 -1.00 -1.00 -1.00	1.00 1.00 1.00 1.00
R1IQSCORE8 R2IQSCORE8 R3IQSCORE8	1032 1178 1275	3.18 3.16 3.36	0.63 0.57 0.81	1.00 1.00 1.00	5.00 5.00 5.00

D 4 TO G G O D E O	000	2 41	0.00	1 00	F 00
R4IQSCORE8	929	3.41	0.80	1.00	5.00
R5IQSCORE8	1328	3.30	0.74	1.00	5.00
S1IQSCORE8	660	3.09	0.57	1.00	5.00
S2IQSCORE8	821	3.10	0.51	1.00	5.00
S3IQSCORE8	726	3.20	0.67	1.00	5.00
S4IQSCORE8	470	3.26	0.71	1.00	5.00
S5IQSCORE8	563	3.26	0.68	1.00	5.00
SSIQSCORE8	303	3.20	0.68	1.00	5.00
R1FIQSCORE8	15186	-0.93	0.26	-1.00	1.00
R2FIQSCORE8	13704	-0.91	0.29	-1.00	1.00
R3FIOSCORE8	15723	-0.92	0.28	-1.00	1.00
R4FIQSCORE8	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE8	17114	-0.92	0.28	-1.00	1.00
C1ETOCCODEO	10610	-0.94	0.25	1 00	1 00
S1FIQSCORE8	10648		0.25	-1.00	1.00
S2FIQSCORE8	9564	-0.91	0.29	-1.00	1.00
S3FIQSCORE8	10592	-0.93	0.26	-1.00	1.00
S4FIQSCORE8	9652	-0.95	0.22	-1.00	1.00
S5FIQSCORE8	7638	-0.92	0.27	-1.00	1.00
~					
R1IQSCORE9	1032	3.22	0.69	1.00	5.00
R2IOSCORE9	1178	3.18	0.64	1.00	5.00
~					
R3IQSCORE9	1275	3.42	0.85	1.00	5.00
R4IQSCORE9	929	3.45	0.84	1.00	5.00
R5IQSCORE9	1328	3.36	0.84	1.00	5.00
KUIQSCORES	1320	3.30	0.04	1.00	3.00
S1IQSCORE9	660	3.12	0.62	1.00	5.00
S2IQSCORE9	821	3.11	0.57	1.00	5.00
S3IQSCORE9	726	3.21	0.73	1.00	5.00
S4IQSCORE9	470	3.29	0.79	1.00	5.00
S5IQSCORE9	563	3.30	0.74	1.00	5.00
R1FIQSCORE9	15186	-0.93	0.27	-1.00	1.00
R2FIQSCORE9	13704	-0.91	0.30	-1.00	1.00
R3FIQSCORE9	15723	-0.92	0.28	-1.00	1.00
R4FIQSCORE9	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE9	17114	-0.92	0.28	-1.00	1.00
~					
S1FIQSCORE9	10648	-0.94	0.26	-1.00	1.00
S2FIQSCORE9	9564	-0.91	0.29	-1.00	1.00
			0.26		
S3FIQSCORE9	10592	-0.93		-1.00	1.00
S4FIQSCORE9	9652	-0.95	0.22	-1.00	1.00
S5FIQSCORE9	7638	-0.92	0.27	-1.00	1.00
COLIQUORES	7 000	0.32	0.27	1.00	1.00
R1IQSCORE10	1032	3.16	0.68	1.00	5.00
R2IQSCORE10	1178	3.15	0.62	1.00	5.00
R3IQSCORE10	1275	3.39	0.85	1.00	5.00
R4IQSCORE10	929	3.43	0.87	1.00	5.00
R5IQSCORE10	1328	3.34	0.83	1.00	5.00
KJIQSCOREIU	1320	3.34	0.03	1.00	3.00
S1IOSCORE10	660	3.07	0.62	1.00	5.00
~					
S2IQSCORE10	821	3.09	0.57	1.00	5.00
S3IQSCORE10	726	3.20	0.75	1.00	5.00
S4IQSCORE10	470	3.28	0.80	1.00	5.00
S5IQSCORE10	563	3.31	0.74	1.00	5.00
D1ETOCODE10	15106	-0.93	0.26	-1.00	1 00
R1FIQSCORE10	15186				1.00
R2FIQSCORE10	13704	-0.91	0.29	-1.00	1.00
R3FIQSCORE10	15723	-0.92	0.28	-1.00	1.00
R4FIQSCORE10	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE10	17114	-0.92	0.27	-1.00	1.00
~ -					
	400:-				
S1FIQSCORE10	10648	-0.94	0.25	-1.00	1.00

S2FIQSCORE10	9564	-0.91	0.29	-1.00	1.00
S3FIQSCORE10	10592	-0.93	0.26	-1.00	1.00
S4FIQSCORE10	9652	-0.95	0.22	-1.00	1.00
S5FIQSCORE10	7638	-0.93	0.27	-1.00	1.00
SOFIQUEONEIU	7030	0.95	0.27	1.00	1.00
D1 T0000DE11	1032	3.16	0 60	1 00	Г 00
R1IQSCORE11			0.60	1.00	5.00
R2IQSCORE11	1178	3.12	0.58	1.00	5.00
R3IQSCORE11	1275	3.29	0.79	1.00	5.00
R4IQSCORE11	929	3.36	0.84	1.00	5.00
R5IQSCORE11	1328	3.27	0.78	1.00	5.00
1.0120001.211	1020	3.27	0.70	1.00	0.00
S1IQSCORE11	660	3.07	0.55	1.00	5.00
S2IQSCORE11	821	3.07	0.55	1.00	5.00
S3IQSCORE11	726	3.14	0.65	1.00	5.00
S4IQSCORE11	470	3.22	0.79	1.00	5.00
S5IQSCORE11	563	3.24	0.72	1.00	5.00
R1FIQSCORE11	15186	-0.93	0.26	-1.00	1.00
R2FIQSCORE11	13704	-0.91	0.29	-1.00	1.00
R3FIQSCORE11	15723	-0.92	0.28	-1.00	1.00
R4FIQSCORE11	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE11	17114	-0.92	0.27	-1.00	1.00
S1FIQSCORE11	10648	-0.94	0.25	-1.00	1.00
S2FIQSCORE11	9564	-0.91	0.29	-1.00	1.00
S3FIQSCORE11	10592	-0.93	0.26	-1.00	1.00
S4FIQSCORE11	9652	-0.95	0.22	-1.00	1.00
S5FIQSCORE11	7638	-0.93	0.27	-1.00	1.00
R1IQSCORE12	1032	3.15	0.61	1.00	5.00
R2IQSCORE12	1178	3.13	0.56	1.00	5.00
R3IQSCORE12	1275	3.27	0.77	1.00	5.00
R4IQSCORE12	929	3.34	0.83	1.00	5.00
R5IQSCORE12	1328	3.28	0.78	1.00	5.00
NOTQUEONETZ	1320	3.20	0.70	1.00	3.00
G1 TOGGODE1 2	660	3.08	0.55	1.00	5.00
S1IQSCORE12					
S2IQSCORE12	821	3.08	0.49	1.00	5.00
S3IQSCORE12	726	3.16	0.65	1.00	5.00
S4IQSCORE12	470	3.16	0.75	1.00	5.00
S5IQSCORE12	563	3.24	0.72	1.00	5.00
R1FIQSCORE12	15186	-0.93	0.26	-1.00	1.00
R2FIQSCORE12	13704	-0.91	0.29	-1.00	1.00
R3FIQSCORE12	15723	-0.92	0.27	-1.00	1.00
R4FIQSCORE12	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE12	17114	-0.92	0.27	-1.00	1.00
S1FIQSCORE12	10648	-0.94	0.25	-1.00	1.00
S2FIQSCORE12	9564	-0.91	0.28	-1.00	1.00
S3FIQSCORE12	10592	-0.93	0.25	-1.00	1.00
S4FIQSCORE12	9652	-0.95	0.22	-1.00	1.00
S5FIQSCORE12	7638	-0.93	0.26	-1.00	1.00
SJEIQSCOREIZ	7030	-0.93	0.20	-1.00	1.00
D1 T0000DE10	1000	2 10	0 67	1 00	F 00
R1IQSCORE13	1032	3.19	0.67	1.00	5.00
R2IQSCORE13	1178	3.12	0.63	1.00	5.00
R3IQSCORE13	1275	3.34	0.85	1.00	5.00
R4IQSCORE13	929	3.44	0.89	1.00	5.00
R5IQSCORE13	1328	3.30	0.80	1.00	5.00
	_0_0	J. J.	J • J J	1.00	J. J. J
S1IQSCORE13	660	3.08	0.60	1.00	5.00
S2IQSCORE13	821	3.08	0.58	1.00	5.00
S3IQSCORE13	726	3.19	0.74	1.00	5.00
S4IQSCORE13	470	3.27	0.85	1.00	5.00
S5IQSCORE13	563	3.25	0.78	1.00	5.00

R1FIOSCORE13	15186	-0.93	0.26	-1.00	1.00
~					
R2FIQSCORE13	13704	-0.91	0.29	-1.00	1.00
R3FIQSCORE13	15723	-0.92	0.28	-1.00	1.00
R4FIQSCORE13	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE13	17114	-0.92	0.27	-1.00	1.00
TOT TOO CONDIC	1/111	0.32	0.27	1.00	1.00
S1FIQSCORE13	10648	-0.94	0.25	-1.00	1.00
S2FIQSCORE13	9564	-0.91	0.29	-1.00	1.00
S3FIQSCORE13	10592	-0.93	0.26	-1.00	1.00
S4FIQSCORE13	9652	-0.95	0.22	-1.00	1.00
S5FIQSCORE13	7638	-0.93	0.27	-1.00	1.00
R1IQSCORE14	1032	3.19	0.66	1.00	5.00
R2IQSCORE14	1178	3.15	0.60	1.00	5.00
R3IQSCORE14	1275	3.38	0.82	1.00	5.00
R4IQSCORE14	929	3.41	0.85	1.00	5.00
R5IQSCORE14	1328	3.32	0.78	1.00	5.00
TOTQUOTEL I	1020	3.32	0.70	1.00	0.00
S1IQSCORE14	660	3.10	0.58	1.00	5.00
S2IQSCORE14	821	3.10	0.55	1.00	5.00
S3IQSCORE14	726	3.23	0.73	1.00	5.00
S4IQSCORE14	470	3.28	0.82	1.00	5.00
S5IQSCORE14	563	3.27	0.73	1.00	5.00
D1ETOCCODE1/	15186	-0.93	0.27	-1.00	1.00
R1FIQSCORE14					
R2FIQSCORE14	13704	-0.91	0.30	-1.00	1.00
R3FIQSCORE14	15723	-0.92	0.29	-1.00	1.00
-					
R4FIQSCORE14	14779	-0.93	0.26	-1.00	1.00
R5FIQSCORE14	17114	-0.92	0.28	-1.00	1.00
KJF1Q5COKE14	1/114	-0.92	0.20	-1.00	1.00
S1FIQSCORE14	10648	-0.93	0.26	-1.00	1.00
s2FIQSCORE14	9564	-0.91	0.30	-1.00	1.00
-					
S3FIQSCORE14	10592	-0.93	0.27	-1.00	1.00
S4FIQSCORE14	9652	-0.95	0.23	-1.00	1.00
S5FIQSCORE14	7638	-0.92	0.27	-1.00	1.00
D1 TOGGODE1 F	1022	3 10	0 65	1 00	E 00
R1IQSCORE15	1032	3.18	0.65	1.00	5.00
R2IQSCORE15	1178	3.17	0.60	1.00	5.00
-	1275	3.36	0.84	1.00	5.00
R3IQSCORE15					
R4IQSCORE15	929	3.43	0.82	1.00	5.00
R5IOSCORE15	1328	3.34	0.79	1.00	5.00
NJIQSCONEIS	1320	3.34	0.79	1.00	3.00
S1IQSCORE15	660	3.08	0.59	1.00	5.00
	821		0.54	1.00	
S2IQSCORE15	021	3.12	0.34	1.00	5.00
S3IQSCORE15	726	3.20	0.73	1.00	5.00
S4IQSCORE15	470	3.28	0.75	1.00	5.00
S5IQSCORE15	563	3.31	0.74	1.00	5.00
D18100000815	15100	0 03	0 07	1 00	1 00
R1FIQSCORE15	15186	-0.93	0.27	-1.00	1.00
R2FIQSCORE15	13704	-0.91	0.29	-1.00	1.00
					
R3FIQSCORE15	15723	-0.92	0.28	-1.00	1.00
R4FIQSCORE15	14779	-0.94	0.25	-1.00	1.00
R5FIQSCORE15			0.27	-1.00	
VOL TÕSCOKETS	17114	-0.92	0.2/	-1.00	1.00
S1FIQSCORE15	10648	-0.94	0.25	-1.00	1.00
~	9564				
S2FIQSCORE15		-0.91	0.29	-1.00	1.00
S3FIQSCORE15	10592	-0.93	0.26	-1.00	1.00
S4FIQSCORE15	9652	-0.95	0.22	-1.00	1.00
-					
S5FIQSCORE15	7638	-0.93	0.27	-1.00	1.00
R1IQSCORE16	1032	3.13	0.59	1.00	5.00
-					
R2IQSCORE16	1178	3.13	0.57	1.00	5.00
R3IQSCORE16	1275	3.28	0.77	1.00	5.00
1.01220011110	12/0	J.20	U • 1 1	1.00	3.00

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R4IQSCORE16	929	3.36	0.81	1.00	5.00	
R5IQSCORE16	1328	3.27	0.74	1.00	5.00	
S1IOSCORE16	660	3.04	0.51	1.00	5.00	
S11QSCORE16 S2IQSCORE16	821	3.04	0.53	1.00	5.00	
S3IOSCORE16	726	3.15	0.67	1.00	5.00	
S4IOSCORE16	470	3.13	0.67	1.00	5.00	
~						
S5IQSCORE16	563	3.23	0.66	1.00	5.00	
R1FIQSCORE16	15186	-0.93	0.26	-1.00	1.00	
R2FIQSCORE16	13704	-0.91	0.28	-1.00	1.00	
R3FIQSCORE16	15723	-0.92	0.27	-1.00	1.00	
R4FIQSCORE16	14779	-0.94	0.25	-1.00	1.00	
R5FIQSCORE16	17114	-0.92	0.27	-1.00	1.00	
C1ETOCCODE1C	10648	-0.94	0.25	-1.00	1.00	
S1FIQSCORE16						
S2FIQSCORE16	9564	-0.91	0.28	-1.00	1.00	
S3FIQSCORE16	10592	-0.93	0.25	-1.00	1.00	
S4FIQSCORE16	9652	-0.95	0.22	-1.00	1.00	
S5FIQSCORE16	7638	-0.93	0.26	-1.00	1.00	
R1JORMSCORE	1032	3.17	0.50	1.00	5.00	
R2JORMSCORE	1178	3.16	0.49	1.00	5.00	
R3JORMSCORE	1275	3.33	0.70	1.00	5.00	
R4JORMSCORE	929	3.40	0.68	1.00	5.00	
R5JORMSCORE	1328	3.31	0.63	1.00	5.00	
S1JORMSCORE	660	3.09	0.45	1.00	5.00	
S2JORMSCORE	821	3.11	0.45	1.00	5.00	
S3JORMSCORE	726	3.18	0.43	1.00	5.00	
S4JORMSCORE	470	3.26	0.63	1.00	5.00	
S5JORMSCORE S5JORMSCORE	563	3.26	0.63	1.00	5.00	
DOUNTBOOKE	303	J. 20	0.57	1.00	5.00	

Categorical Variable Codes

Value	R1IQSCORE1	R2IQSCORE1	R3IQSCORE1	R4IQSCORE1	R5IQSCORE1
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	12	16	35	11	30
2.A bit improved	17	17	25	17	34
3.Not much change	850	991	871	623	940
4.A bit worse	95	103	200	166	211
5.Much worse	58	51	144	112	113
	01.70000001	2070222771	2270222771	0.4.7.0.000.7.7.1	0570000001
Value	S1IQSCORE1		S3IQSCORE1		
.n:Non-proxy ivw	9988	8743	9866		7075
.u:Unmar	4205	4009	4782		5227
.v:SP NR	333	131	349		501
1.Much improved	10	12	26	9	7
2.A bit improved	9	13		12	
3.Not much change	574	704		340	426
4.A bit worse	45	61	82	68	81
5.Much worse	22	31	53	41	37
Value	R1FTOSCORE1	R2FIQSCORE1	R3FTOSCORE1	R4FIQSCORE1	R5FTOSCORE1
-1.Missing, not imputed		12526		13850	
0.Not Imputed		1167			
1.Imputed	12	11	3	2	21
Value	S1FIQSCORE1	~	S3FIQSCORE1		~
.u:Unmar	4205	4009	4782		5227
.v:SP NR	333	131	349		501
-1.Missing, not imputed	9988		9866		7075
0.Not Imputed	650	814	725	469	553
1.Imputed	10	7	1	1	10
Value	R1IQSCORE2	R2IQSCORE2	R3IQSCORE2	R4IQSCORE2	R5IQSCORE2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
· II · I	11171	12320	11110	13030	13,00

1.Much improved	14	14	32	12	31
2.A bit improved	17	19	18	10	34
3.Not much change	865	1005	943	663	976
4.A bit worse	86	96	160	136	182
5.Much worse	50	44	122	108	105
Value	S1IQSCORE2	S2IQSCORE2	S3IQSCORE2	S4IQSCORE2	S5IQSCORE2
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1. Much improved	11	10	21	7	11
2.A bit improved	14 572	14 714	9 594	5 372	10 439
3.Not much change 4.A bit worse	39	57	65	45	66
5.Much worse	24	26	37	41	37
o.nach worde	21	20	3,	11	3 /
Value	R1FIQSCORE2	R2FIQSCORE2	R3FIQSCORE2	R4FIQSCORE2	R5FIQSCORE2
-1.Missing, not imputed	14154	12526	14448	13850	15786
O.Not Imputed	1017	1167	1273	928	1319
1.Imputed	15	11	2	1	9
Value	S1FIQSCORE2	S2FIQSCORE2	S3FIQSCORE2	S4FIQSCORE2	S5FIQSCORE2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	651	813	725	470	557
1.Imputed	9	8	1		6
		-0			
Value	R1IQSCORE3 14154	R2IQSCORE3 12526	R3IQSCORE3 14448	R4IQSCORE3 13850	R5IQSCORE3 15786
.n:Non-proxy ivw 1.Much improved	14134	12326	36	13630	22
2.A bit improved	14	13	12	10	28
3.Not much change	862	987	908	643	966
4.A bit worse	93	116	185	143	194
5.Much worse	47	52	134	119	118
	-4				
Value	~	S2IQSCORE3	S3IQSCORE3	S4IQSCORE3	S5IQSCORE3
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar v:SP NR	4205 333	4009 131	4782 349	4847 280	5227 501
1.Much improved	15	6	24	7	8
2.A bit improved	11	8	5	8	12
3.Not much change	575	713	576	362	429
4.A bit worse	42	62	75	44	76
5.Much worse	17	32	46	49	38
Value	R1FIOSCORE3	D3ETOGCODE3	R3FIQSCORE3	R4FIQSCORE3	R5FIQSCORE3
-1.Missing, not imputed	14154	R2FIQSCORE3 12526	14448	13850	15786
0.Not Imputed	1017	1168	1273	927	1319
1.Imputed	15	10	2	2	9
·					
Value		S2FIQSCORE3	S3FIQSCORE3	S4FIQSCORE3	S5FIQSCORE3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed 0.Not Imputed	9988 648	8743 813	9866 725	9182 470	7075 559
1.Imputed	12	8	1	470	4
1.1	10	Ü	-		-
Value	R1IQSCORE4	R2IQSCORE4	R3IQSCORE4	R4IQSCORE4	R5IQSCORE4
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1. Much improved	19	10	30	17	22
2.A bit improved	14	10	17	6	19
3.Not much change 4.A bit worse	857 84	1017 87	902 175	650 126	982 185
5.Much worse	58	54	151	130	120
1	50	5-1	101	100	120
Value	S1IQSCORE4	S2IQSCORE4	S3IQSCORE4	S4IQSCORE4	S5IQSCORE4
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1. Much improved	17	7	20	12	6
2.A bit improved	8 574	7	11	3	5
3.Not much change	574	737	589	372	443

4.A bit worse 5.Much worse	37 24	42 28	54 52	42 41	65 44
Value	R1FIQSCORE4	R2FIQSCORE4	R3FIQSCORE4	R4FIQSCORE4	R5FIQSCORE4
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	1018	1161	1270	921	1312
1.Imputed	14	17	5	8	16
Value	S1FIQSCORE4	S2FIQSCORE4	S3FIQSCORE4	S4FIQSCORE4	S5FIQSCORE4
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed 0.Not Imputed	9988 651	8743 813	9866 723	9182 465	7075 557
1.Imputed	9	8	3	5	6
-					
Value	~	R2IQSCORE5	R3IQSCORE5	R4IQSCORE5	R5IQSCORE5
.n:Non-proxy ivw 1.Much improved	14154 14	12526 14	14448 37	13850 16	15786 19
2.A bit improved	11	14	14	9	17
3.Not much change	864	975	890	617	946
4.A bit worse	83	113	166	147	200
5.Much worse	[60	62	168	140	146
Value	S1IQSCORE5	S2IQSCORE5	S3IQSCORE5	S4IQSCORE5	S5IQSCORE5
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR 1.Much improved	333 1 12	131 11	349 23	280 10	501 9
2.A bit improved	1 7	10	4	4	4
3.Not much change	581	709	581	359	427
4.A bit worse	38	54	63	46	75
5.Much worse	22	37	55	51	48
Value	R1FIQSCORE5	R2FIQSCORE5	R3FIQSCORE5	R4FIQSCORE5	R5FIQSCORE5
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	1020	1168	1269	926	1314 14
1.Imputed	12	10	6	3	14
Value		S2FIQSCORE5	S3FIQSCORE5	S4FIQSCORE5	S5FIQSCORE5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR -1.Missing, not imputed	333 9988	131 8743	349 9866	280 9182	501 7075
0.Not Imputed	653	814	724	468	556
1.Imputed	7	7	2	2	7
Value	R1IOSCORE6	R2IQSCORE6	R3IQSCORE6	R4IQSCORE6	R5IQSCORE6
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	13	10	30	17	14
2.A bit improved	6	15	7	10	14
3. Not much change	816	927 160	884	582	913
4.A bit worse 5.Much worse	137 60	66	201 153	192 128	250 137
	•				
Value	S1IQSCORE6 9988	S2IQSCORE6 8743	S3IQSCORE6 9866	S4IQSCORE6 9182	S5IQSCORE6 7075
.n:Non-proxy ivw .u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Much improved	13	9	20	13	4
2.A bit improved	2	8	2	6	4
3. Not much change	549	668	560	329	405
4.A bit worse 5.Much worse	70 1 26	99 37	87 57	76 46	102 48
	•	3 /	3 /	10	10
Value		R2FIQSCORE6	R3FIQSCORE6	R4FIQSCORE6	R5FIQSCORE6
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed 1.Imputed	1019 13	1170 8	1272 3	923 6	1318 10
-		0	3	0	10
Value	~	S2FIQSCORE6	S3FIQSCORE6	S4FIQSCORE6	S5FIQSCORE6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR -1.Missing, not imputed	333 9988	131 8743	349 9866	280 9182	501 7075
0.Not Imputed	651	814	725	466	558
-					

1.Imputed	9	7	1	4	5
Value	R1IQSCORE7	R2IQSCORE7	R3IQSCORE7	R4IQSCORE7	R5IQSCORE7
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	10	7	26	16	17
2.A bit improved	5	9	12	6	11
3.Not much change	799	921	882	566	898
4.A bit worse	149 69	171 70	193 162	200	259 143
5.Much worse	69	70	102	141	143
Value	S1IOSCORE7	S2IQSCORE7	S3IQSCORE7	S4IOSCORE7	S5IQSCORE7
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Much improved	10	6	16	11	6
2.A bit improved	2	6	5	3	3
3. Not much change	544	662	565	321	403
4.A bit worse 5.Much worse	74 30	110 37	82 58	83 52	101 50
J.Flucii Wolse	30	5 /	30	52	30
Value	R1FIQSCORE7	R2FIQSCORE7	R3FIQSCORE7	R4FIQSCORE7	R5FIQSCORE7
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	1013	1168	1270	923	1316
1.Imputed	19	10	5	6	12
77-1	01 010000000	0000000000	0201000000	04870000555	QEDTOSSES
Value .u:Unmar	S1FIQSCORE7 4205	S2FIQSCORE7 4009	S3FIQSCORE7 4782	S4FIQSCORE7 4847	S5FIQSCORE7
.v:SP NR	333	131	349	280	5227 501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	647	815	723	468	555
1.Imputed	13	6	3	2	8
Value	~	R2IQSCORE8	R3IQSCORE8	R4IQSCORE8	R5IQSCORE8
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	14 11	8 21	27 6	11 7	18 18
2.A bit improved 3.Not much change	860	993	900	648	987
4.A bit worse	70	88	159	119	157
5.Much worse	77	68	183	144	148
·					
Value	S1IQSCORE8	S2IQSCORE8	S3IQSCORE8	S4IQSCORE8	S5IQSCORE8
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333 13	131 7	349 16	280	501 6
1.Much improved 2.A bit improved	7	15	2	6 4	3
3.Not much change	578	718	589	369	449
4.A bit worse	30	47	62	42	49
5.Much worse	32	34	57	49	56
Value		R2FIQSCORE8	R3FIQSCORE8	R4FIQSCORE8	R5FIQSCORE8
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed 1.Imputed	997 35	1144 34	1255 20	912 17	1298 30
1.1mputed	33	34	20	17	30
Value	S1FIQSCORE8	S2FIQSCORE8	S3FIQSCORE8	S4FIQSCORE8	S5FIQSCORE8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	642	798	716	460	549
1.Imputed	18	23	10	10	14
Value	R1IQSCORE9	R2IQSCORE9	R3IQSCORE9	R4IQSCORE9	R5IQSCORE9
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	17	14	30	13	30
2.A bit improved	12	30	9	24	40
3.Not much change	819	952	831	576	858
4.A bit worse	92	99	202	163	218
5.Much worse	92	83	203	153	182
Value	Q1 TAGCABEA	92TA9CADEA	631V6CVDE0	QATACCADEA	S5IQSCORE9
.n:Non-proxy ivw	S1IQSCORE9 9988	S2IQSCORE9 8743	S3IQSCORE9 9866	S4IQSCORE9 9182	7075
.u:Unmar	4205	4009	4782	4847	5227

.v:SP NR	333	131	349	280	501
1.Much improved	16	9	20	10	8
2.A bit improved	7	25	8	13	12
3.Not much change	557	697	559	332	404
4.A bit worse	42	49	74	59	82
5.Much worse	38	41	65	56	57
J.MdCH WOISE	50	-11	05	30	57
Value	D1 DT0 GG0DD0	DORTOGGODEO	DODIOGGODEO	DARTOGGODEO	DERTOGGODEO
	~	R2FIQSCORE9	R3FIQSCORE9	R4FIQSCORE9	R5FIQSCORE9
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	986	1131	1244	903	1294
1.Imputed	46	47	31	26	34
Value	S1FIQSCORE9	S2FIQSCORE9	S3FIQSCORE9	S4FIQSCORE9	S5FIQSCORE9
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	634	794	711	456	549
· · · · · · · · · · · · · · · · · · ·	26	27	15	14	14
1.Imputed	∠0	21	13	14	14
** 3	D1 T0000DD10	D0-0000D-10	D0700000010	D4T0000DD10	DETOGGGDD10
Value		R2IQSCORE10	R3IQSCORE10	R4IQSCORE10	R5IQSCORE10
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	20	17	35	18	35
2.A bit improved	28	36	13	29	37
3.Not much change	825	949	841	568	868
4.A bit worse	80	108	193	162	222
5.Much worse	79	68	193	152	166
0114011 110120	, ,	00	100	102	100
Value	S1IOSCORE10	S2IQSCORE10	S3IQSCORE10	S4IQSCORE10	S5IQSCORE10
	9988	8743	9866	9182	7075
.n:Non-proxy ivw					
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Much improved	17	13	23	11	9
2.A bit improved	20	26	10	19	12
3.Not much change	557	691	558	317	390
4.A bit worse	33	55	67	72	97
5.Much worse	33	36	68	51	55
Value	R1FTOSCORE10	R2FTOSCORE10	R3FTOSCORE10	R4FTOSCORE10	R5FTOSCORE10
Value				R4FIQSCORE10	
-1.Missing, not imputed	14154	12526	14448	13850	15786
-1.Missing, not imputed 0.Not Imputed	14154 1005	12526 1161	14448 1256	13850 913	15786 1309
-1.Missing, not imputed	14154	12526	14448	13850	15786
-1.Missing, not imputed 0.Not Imputed 1.Imputed	14154 1005 27	12526 1161 17	14448 1256 19	13850 913 16	15786 1309 19
-1.Missing, not imputed 0.Not Imputed 1.Imputed	14154 1005 27 S1FIQSCORE10	12526 1161 17 S2FIQSCORE10	14448 1256 19 S3FIQSCORE10	13850 913 16 S4FIQSCORE10	15786 1309 19 S5FIQSCORE10
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar	14154 1005 27 S1FIQSCORE10 4205	12526 1161 17 S2FIQSCORE10 4009	14448 1256 19 S3FIQSCORE10 4782	13850 913 16 S4FIQSCORE10 4847	15786 1309 19 S5FIQSCORE10 5227
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value u:Unmar v:SP NR	14154 1005 27 S1FIQSCORE10 4205 333	12526 1161 17 S2FIQSCORE10 4009 131	14448 1256 19 S3FIQSCORE10 4782 349	13850 913 16 S4FIQSCORE10 4847 280	15786 1309 19 S5FIQSCORE10 5227 501
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar	14154 1005 27 S1FIQSCORE10 4205 333 9988	12526 1161 17 S2FIQSCORE10 4009 131 8743	14448 1256 19 S3FIQSCORE10 4782 349 9866	13850 913 16 S4FIQSCORE10 4847 280 9182	15786 1309 19 S5FIQSCORE10 5227 501 7075
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value u:Unmar v:SP NR	14154 1005 27 S1FIQSCORE10 4205 333	12526 1161 17 S2FIQSCORE10 4009 131	14448 1256 19 S3FIQSCORE10 4782 349	13850 913 16 S4FIQSCORE10 4847 280	15786 1309 19 S5FIQSCORE10 5227 501
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value u:Unmar v:SP NR -1.Missing, not imputed	14154 1005 27 S1FIQSCORE10 4205 333 9988	12526 1161 17 S2FIQSCORE10 4009 131 8743	14448 1256 19 S3FIQSCORE10 4782 349 9866	13850 913 16 S4FIQSCORE10 4847 280 9182	15786 1309 19 S5FIQSCORE10 5227 501 7075
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed	14154 1005 27 S1FIQSCORE10 4205 333 9988 646	12526 1161 17 S2FIQSCORE10 4009 131 8743 810	14448 1256 19 S3FIQSCORE10 4782 349 9866 716	13850 913 16 S4FIQSCORE10 4847 280 9182 464	15786 1309 19 S5FIQSCORE10 5227 501 7075 555
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14	12526 1161 17 S2FIQSCORE10 4009 131 8743 810	14448 1256 19 S3FIQSCORE10 4782 349 9866 716	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6	15786 1309 19 S5FIQSCORE10 5227 501 7075 555
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value u:Unmar v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Value n:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse Value n:Non-proxy ivw u:Unmar v:SP NR 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583 29 27	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714 41	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59 45	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37 52	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valueu:Unmar .v:SP NR -1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 3.Not much change 4.A bit worse 5.Much worse Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583 29 27 R1FIQSCORE11	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714 41 32	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59 45 R3FIQSCORE11	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37 52 R4FIQSCORE11	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56 55 8
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583 29 27 R1FIQSCORE11 14154	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714 41 32 R2FIQSCORE11	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59 45	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37 52 R4FIQSCORE11 13850	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56 55 R5FIQSCORE11 15786
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583 29 27 R1FIQSCORE11 14154 1004	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714 41 32 R2FIQSCORE11 12526 1155	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59 45 R3FIQSCORE11 14448 1261	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37 52 R4FIQSCORE11 13850 910	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56 55 R5FIQSCORE11 15786 1307
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583 29 27 R1FIQSCORE11 14154	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714 41 32 R2FIQSCORE11	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59 45	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37 52 R4FIQSCORE11 13850	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56 55 R5FIQSCORE11 15786
-1.Missing, not imputed 0.Not Imputed 1.Imputed Value	14154 1005 27 S1FIQSCORE10 4205 333 9988 646 14 R1IQSCORE11 14154 15 11 865 80 61 S1IQSCORE11 9988 4205 333 14 7 583 29 27 R1FIQSCORE11 14154 1004 28	12526 1161 17 S2FIQSCORE10 4009 131 8743 810 11 R2IQSCORE11 12526 19 23 992 86 58 S2IQSCORE11 8743 4009 131 16 18 714 41 32 R2FIQSCORE11 12526 1155 23	14448 1256 19 S3FIQSCORE10 4782 349 9866 716 10 R3IQSCORE11 14448 32 18 928 145 152 S3IQSCORE11 9866 4782 349 19 8 595 59 45 R3FIQSCORE11 14448 1261 14	13850 913 16 S4FIQSCORE10 4847 280 9182 464 6 R4IQSCORE11 13850 23 11 646 109 140 S4IQSCORE11 9182 4847 280 16 7 358 37 52 R4FIQSCORE11 13850 910 19	15786 1309 19 S5FIQSCORE10 5227 501 7075 555 8 R5IQSCORE11 15786 29 26 979 140 154 S5IQSCORE11 7075 5227 501 9 11 432 56 55 R5FIQSCORE11 15786 1307 21

.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333 9988	131 8743	349 9866	280 9182	501 7075
-1.Missing, not imputed 0.Not Imputed	1 643	807	718	462	554
1.Imputed	17	14	8	8	9
1. Impacca	± '	± ±	Ü	Ŭ	,
Value	R1IQSCORE12	R2IQSCORE12	R3IQSCORE12	R4IQSCORE12	R5IQSCORE12
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	15	13	30	21	31
2.A bit improved	16	16	10	16	21
3.Not much change	868	1015	966	657	974
4.A bit worse	65	70	120	98	146
5.Much worse	[68	64	149	137	156
Value		2010220DD10	G3.T0.GG0.DE1.0	04T0000DE10	0FT0000DE10
	S1IQSCORE12 9988	S2IQSCORE12 8743	S3IQSCORE12 9866	S4IQSCORE12 9182	S5IQSCORE12 7075
.n:Non-proxy ivw .u:Unmar	1 4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Much improved	12	8	17	14	12
2.A bit improved	10	11	2	12	6
3.Not much change	586	738	609	371	433
4.A bit worse	20	32	45	29	58
5.Much worse	32	32	53	44	54
Value		R2FIQSCORE12		R4FIQSCORE12	
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	1002	1165	1269	923	1317
1.Imputed	30	13	6	6	11
Value		S2FIQSCORE12	g3FTOGCODF12	S4FIQSCORE12	SETOSCOPE12
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	641	812	723	466	558
1.Imputed	19	9	3	4	5
Value	~	R2IQSCORE13	R3IQSCORE13	R4IQSCORE13	R5IQSCORE13
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	19	25	35	21	30
2.A bit improved	11	23	11	16	29
3. Not much change	846 72	982	904	595	938
4.A bit worse 5.Much worse	72	76 72	130 195	124 173	169 162
J.Much worse	1 01	12	193	173	102
Value	S1IQSCORE13	S2IQSCORE13	S3IQSCORE13	S4IQSCORE13	S5IQSCORE13
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Much improved	18	17	23	17	15
2.A bit improved	5	18	6	9	11
3.Not much change	575	711	578	334	414
4.A bit worse	28	35	50	48	63
5.Much worse	34	40	69	62	60
Value	I R1FTOSCORE13	R2FTOSCORE13	R3FTOSCORE13	R4FIQSCORE13	R5FTOSCORE13
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	999	1161	1261	920	1312
1.Imputed	33	17	14	9	16
-					
Value	S1FIQSCORE13	S2FIQSCORE13	S3FIQSCORE13	S4FIQSCORE13	S5FIQSCORE13
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	638	811	716	467	555 8
1.Imputed	22	10	10	3	8
Value	R1IQSCORE14	R2IQSCORE14	R3IQSCORE14	R4IQSCORE14	R5IQSCORE14
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	16	14	25	15	22
2.A bit improved	12	16	11	16	24
3.Not much change	846	996	891	629	957
4.A bit worse	72	78	151	110	160
5.Much worse	86	74	197	159	165

Value	S1IQSCORE14	S2IQSCORE14	S3IQSCORE14	S4IQSCORE14	S5IQSCORE14
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1. Much improved	13	11	16	12	9
2.A bit improved	7	12	6	10	7
3.Not much change	577	721	572	346	429
4.A bit worse	27	35	58	38	57
5.Much worse	36	42	74	64	61
Value	D1ET0000DE14	D0DT0000DD14	D2DT0000DD14	D 4 E T O G G O D E 1 4	DERTOGODEL 4
				R4FIQSCORE14	R5FIQSCORE14
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	973	1116	1227	888	1300
1.Imputed	59	62	48	41	28
Value	g1FTAgCADF1/	S2FIQSCORE14	S3FIQSCORE14	S4FIQSCORE14	S5FIQSCORE14
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075
0.Not Imputed	619	775	699	447	552
1.Imputed	41	46	27	23	11
1. Impacea	1 1	10	2,	23	± ±
Value	R1IQSCORE15	R2IQSCORE15	R3IQSCORE15	R4IQSCORE15	R5IQSCORE15
.n:Non-proxy ivw	14154	12526	14448	13850	15786
1.Much improved	16	15	33	12	23
2.A bit improved	17	9	7	9	23
3.Not much change	841	993	893	627	940
4.A bit worse	81	86	150	127	165
5.Much worse	77	75	192	154	177
Value	S1IQSCORE15	S2IQSCORE15	S3IQSCORE15	S4IQSCORE15	S5IQSCORE15
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Much improved	15	10	20	8	7
2.A bit improved	11	7	5	6	7
3.Not much change	571	721	577	360	417
4.A bit worse	30	42	55	40	67
5.Much worse	33	41	69	56	65
1			-0		
Value				R4FIQSCORE15	
-1.Missing, not imputed	14154	12526	14448	13850	15786
0.Not Imputed	995	1156 22	1255 20	910 19	1309 19
1.Imputed	31	22	20	19	19
Value	91FTAGCADE15	92FTA9CAPF15	-0		
.u:Unmar		PSETQUCORETU	G 4 F. LUGUUDF. LP	SAFTOSCOPE15	SETOSCOPE15
	4705			S4FIQSCORE15	
.V.SP NR	4205	4009	4782	4847	5227
.v:SP NR -1.Missing, not imputed	333	4009 131	4782 349	4847 280	5227 501
-1.Missing, not imputed	333 9988	4009 131 8743	4782 349 9866	4847 280 9182	5227 501 7075
-1.Missing, not imputed 0.Not Imputed	333	4009 131	4782 349	4847 280	5227 501
-1.Missing, not imputed	333 9988 637	4009 131 8743 807	4782 349 9866 716	4847 280 9182 461	5227 501 7075 556
-1.Missing, not imputed 0.Not Imputed	333 9988 637 23	4009 131 8743 807	4782 349 9866 716	4847 280 9182 461	5227 501 7075 556
-1.Missing, not imputed 0.Not Imputed 1.Imputed	333 9988 637 23	4009 131 8743 807 14	4782 349 9866 716 10	4847 280 9182 461 9	5227 501 7075 556 7
-1.Missing, not imputed 0.Not Imputed 1.Imputed	333 9988 637 23 R1IQSCORE16	4009 131 8743 807 14 R2IQSCORE16	4782 349 9866 716 10 R3IQSCORE16	4847 280 9182 461 9 R4IQSCORE16	5227 501 7075 556 7 R5IQSCORE16
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw	333 9988 637 23 R1IQSCORE16 14154	4009 131 8743 807 14 R2IQSCORE16 12526	4782 349 9866 716 10 R3IQSCORE16 14448	4847 280 9182 461 9 R4IQSCORE16 13850	5227 501 7075 556 7 R5IQSCORE16 15786
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved	333 9988 637 23 R1IQSCORE16 14154 16	4009 131 8743 807 14 R2IQSCORE16 12526 20	4782 349 9866 716 10 R3IQSCORE16 14448 31	4847 280 9182 461 9 R4IQSCORE16 13850 13	5227 501 7075 556 7 R5IQSCORE16 15786 21
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change	333 9988 637 23 R1IQSCORE16 14154 16 13	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Value	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 2.A bit improved	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131 14	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19 5	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 3.Not much change	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14 10 593	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131 14 8 727	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19 5 602	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9 10 367	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6 8 445
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14 10 593 21	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131 14 8 727 40	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19 5 602 47	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9 10 367 37	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6 8 445 58
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 3.Not much change	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14 10 593	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131 14 8 727	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19 5 602	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9 10 367	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6 8 445
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14 10 593 21	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131 14 8 727 40 32	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19 5 602 47 53	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9 10 367 37 47	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6 8 445 58 46
-1.Missing, not imputed 0.Not Imputed 1.Imputed Valuen:Non-proxy ivw 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse 5.Much worse Valuen:Non-proxy ivw .u:Unmar .v:SP NR 1.Much improved 2.A bit improved 3.Not much change 4.A bit worse	333 9988 637 23 R1IQSCORE16 14154 16 13 877 69 57 S1IQSCORE16 9988 4205 333 14 10 593 21	4009 131 8743 807 14 R2IQSCORE16 12526 20 10 1006 86 56 S2IQSCORE16 8743 4009 131 14 8 727 40	4782 349 9866 716 10 R3IQSCORE16 14448 31 11 954 132 147 S3IQSCORE16 9866 4782 349 19 5 602 47	4847 280 9182 461 9 R4IQSCORE16 13850 13 20 651 110 135 S4IQSCORE16 9182 4847 280 9 10 367 37	5227 501 7075 556 7 R5IQSCORE16 15786 21 30 984 153 140 S5IQSCORE16 7075 5227 501 6 8 445 58

Section D: Cognition					305
0.Not Imputed	1017	1171	1269	923	1317
1.Imputed	15	7	6	6	11
77.1	G1 BT O G G O D B 1 6	G0.ET.0.GG0.DE1.6	02ET0000DE16	G4ETOGGODE16	aferragone16
Value	S1FIQSCORE16	SZFIQSCOREI6	S3FIQSCORE16	S4FIQSCOREI6	~
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
-1.Missing, not imputed	9988	8743	9866	9182	7075

651

9

How Constructed

0.Not Imputed

1.Imputed

The following variables pertain to a series of questions that asked the proxy whether the respondent has improved, stayed the same, or gotten worse in various situations that require memory or intelligence. The interviewer emphasized the importance of comparing present performance with past performance and asked the proxy to compare the respondent's current ability with the respondent's ability 2 years ago.

817

4

722

558

5

466

4

In RwIQSCORE1, the informant compared the respondent's current ability to remember things about family and friends, such as occupations, birthdays, and addresses, with their ability in the past.

In RwIQSCORE2, the informant compared the respondent's current ability to remember things that have happened recently with their ability in the past.

In RwIQSCORE3, the informant compared the respondent's current ability to recall conversations a few days later with their ability in the past.

In RwIQSCORE4, the informant compared the respondent's current ability to remember their address and telephone number with their ability in the past.

In RwIQSCORE5, the informant compared the respondent's current ability to remember what day and month it is with their ability in the past.

In RwIQSCORE6, the informant compared the respondent's current ability to remember where things are usually kept with their ability in the past.

In RwIQSCORE7, the informant compared the respondent's current ability to remember where to find things that have been put in a different place than usual with their ability in the past.

In RwIQSCORE8, the informant compared the respondent's current ability to know how to work familiar machines around the house with their ability in the past.

In RwIQSCORE9, the informant compared the respondent's current ability to learn to use a new gadget or machine around the house with their ability in the past.

In RwIQSCORE10, the informant compared the respondent's current ability to learn new things in general with their ability in the past.

In RwIQSCORE11, the informant compared the respondent's current ability to follow a story in a book or on TV with their ability in the past.

In RwIQSCORE12, the informant compared the respondent's current ability to make decisions on everyday matters, like what to cook or to wear, with their ability in the past.

In RwIQSCORE13, the informant compared the respondent's current ability to handle money for shopping with their ability in the past.

In RwIQSCORE14, the informant compared the respondent's current ability to handle financial matters, such as pension or dealing with the bank, with their ability in the past.

In RwIQSCORE15, the informant compared the respondent's current ability to handle other everyday mathematical problems, such as knowing how much food to buy and knowing how much time elapsed between visits from family or friends, with their ability in the past.

In RwIQSCORE16, the informant compared the respondent's current ability to use their intelligence to understand what's going on and to reason things through with their ability in the past.

RwIQSCORE1 - RwIQSCORE16 are coded as follows: 1.Much improved, 2.A bit improved, 3.Not much changed, 4.A bit worse, and 5.Much worse. They are constructed using the imputed proxy cognition variables provided by MHAS. Using the method of sequence of regressions with a SAS based Imputation and Variance Estimation software (IVEware), the MHAS team completed the imputation of cognitive variables. Unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the MHAS document (here) titled "Imputation of Cognitive Function Variables in the Mexican Health and Aging Study 2001-2018, Version 1", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwJORMSCORE indicates the average value of RwIQSCORE1 - RwIQSCORE16 and ranges from 0-5. RwJORMSCORE is calculated as long as at least one component is not missing. Special missing .n is assigned to non-proxy interviews. Other missing responses are assigned special missing .m. RwIQSCORE1 - RwIQSCORE16 and RwJORMSCORE are assigned plain missing (.) if the respondent did not participate in the current wave.

RwFIQSCORE1 - RwFIQSCORE16 are flag variables indicating whether any component of RwIQSCORE1 - RwIQSCORE16 was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section, including non-proxy interviews, and this value has been left missing. RwFIQSCORE1 - RwFIQSCORE16 are assigned plain missing (.) if the respondent did not participate in the current wave.

SwIQSCORE1 - SwIQSCORE16, SwJORMSCORE, and SwFIQSCORE1 - SwFIQSCORE16 are taken from the Wave 'w' spouse's values for RwIQSCORE1 - RwIQSCORE16, RwJORMSCORE, and RwFIQSCORE1 - RwFIQSCORE16, respectively. In addition to the special missing codes used in RwIQSCORE1 - RwIQSCORE16, RwJORMSCORE, and RwFIQSCORE1 - RwFIQSCORE16, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The MHAS provides imputed versions of these variables, which has been used in their construction in the Harmonized MHAS. Because of this, flag variables have also been created for the Harmonized MHAS to indicate when the variable uses imputed information. The HRS does not provide imputations for these variables, and the Harmonized HRS provides these variables without imputation as well.

MHAS Variables Used

Wave 1 Imputed Cognition:

```
PC11 FLAG 01
                R's ability to recall conversations a few days later: F
PC11 IMP \overline{0}1
                R's ability to recall conversations a few days later (I
PC14 FLAG 01
                R's ability to remember his/her address: Flag if Impute
PC14 IMP 01
                R's ability to remember his/her address (Imputed)
PC17 FLAG 01
                R's ability to remember what day and month it is: Flag
PC17 IMP 01
                R's ability to remember what day and month it is (Imput
PC20 FLAG 01
                R's ability to remember where things are usually kept:
PC20 IMP 01
                R's ability to remember where things are usually kept (
PC23 FLAG 01
                R's ability to remember where to find things put in a d
PC23IMP \overline{0}1
                R's ability to remember where to find things put in a d
PC26 FLAG 01
                R's ability to know how to use familiar machines: Flag
PC26_IMP_01
                R's ability to know how to use familiar machines (Imput
PC29 FLAG 01
                R's ability to learn to use a new gadget or machine: Fl
PC29IMP \overline{0}1
                R's ability to learn to use a new gadget or machine (Im
PC32 FLAG 01
                R's ability to learn new things in general: Flag if Imp
PC32_IMP_01
PC35_FLAG_01
                R's ability to learn new things in general (Imputed)
                R's ability to follow a story in a book or on TV: Flag
PC35 IMP 01
                R's ability to follow a story in a book or on TV (Imput
PC38 FLAG 01
                R's ability to make decisions on everyday matters: Flag
PC38 IMP 01
                R's ability to make decisions on everyday matters (Impu
PC41 FLAG 01
                R's ability to handle money for shopping: Flag if Imput
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PC41 IMP 01
                    R's ability to handle money for shopping (Imputed)
    PC44 FLAG 01
                    R's ability to handle financial matters: Flag if Impute
    PC44 IMP \overline{0}1
                    R's ability to handle financial matters (Imputed)
    PC47 FLAG 01
                    R's ability to handle other everyday arithmetic problem
    PC47 IMP 01
                    R's ability to handle other everyday arithmetic problem
    PC50 FLAG 01
                    R's ability to use his/her intelligence to understand w
    PC50 IMP 01
                    R's ability to use his/her intelligence to understand w
    PC5 FLAG 01
                    R's ability to remember things about family & friends:
    PC5_IMP 01
                    R's ability to remember things about family & friends (
    PC8 FLAG 01
                    R's ability to remember things: Flag if Imputed
    PC8 IMP 01
                    R's ability to remember things (Imputed)
Wave 2 Imputed Cognition:
    PC11 FLAG 03
                    R's ability to recall conversations a few days later: F
    PC11_IMP_03
PC14_FLAG_03
                    R's ability to recall conversations a few days later (I
                    R's ability to remember his/her address: Flag if Impute
    PC14 IMP 03
                    R's ability to remember his/her address (Imputed)
    PC17 FLAG 03
                    R's ability to remember what day and month it is: Flag
    PC17 IMP 03
                    R's ability to remember what day and month it is (Imput
    PC20 FLAG 03
                    R's ability to remember where things are usually kept:
    PC20 IMP 03
                    R's ability to remember where things are usually kept (
    PC23 FLAG 03
                    R's ability to remember where to find things put in a d
    PC23 IMP 03
                    R's ability to remember where to find things put in a d
    PC26 FLAG 03
                    R's ability to know how to use familiar machines: Flag
    PC26_IMP 03
                    R's ability to know how to use familiar machines (Imput
    PC29 FLAG 03
                    R's ability to learn to use a new gadget or machine: Fl
    PC29_IMP_03
                    R's ability to learn to use a new gadget or machine (Im
    PC32 FLAG 03
                    R's ability to learn new things in general: Flag if Imp
    PC32 IMP 03
                    R's ability to learn new things in general (Imputed)
    PC35 FLAG 03
                    R's ability to follow a story in a book or on TV: Flag
    PC35 IMP 03
                    R's ability to follow a story in a book or on TV (Imput
    PC38_FLAG_03
                    R's ability to make decisions on everyday matters: Flag
    PC38 IMP 03
                    R's ability to make decisions on everyday matters (Impu
                    R's ability to handle money for shopping: Flag if Imput
    PC41 FLAG 03
    PC41 IMP 03
                    R's ability to handle money for shopping (Imputed)
    PC44 FLAG 03
                    R's ability to handle financial matters: Flag if Impute
    PC44 IMP \overline{0}3
                    R's ability to handle financial matters (Imputed)
    PC47 FLAG 03
                    R's ability to handle other everyday arithmetic problem
    PC47_IMP 03
                    R's ability to handle other everyday arithmetic problem
    PC50 FLAG 03
                    \ensuremath{\text{R's}} ability to use his/her intelligence to understand \ensuremath{\text{w}}
                    R's ability to use his/her intelligence to understand w
    PC50_IMP_03
    PC5 FLAG 03
                    R's ability to remember things about family & friends:
    PC5 IMP 03
                    R's ability to remember things about family & friends (
    PC8 FLAG 03
                    R's ability to remember things: Flag if Imputed
    PC8 IMP 03
                    R's ability to remember things (Imputed)
Wave 3 Imputed Cognition:
    PC11 FLAG 12
                    R's ability to recall conversations a few days later: F
    PC11 IMP 12
                    R's ability to recall conversations a few days later (I
    PC14 FLAG 12
                    R's ability to remember his/her address: Flag if Impute
    PC14 IMP 12
                    R's ability to remember his/her address (Imputed)
    PC17 FLAG 12
                    R's ability to remember what day and month it is: Flag
    PC17_IMP 12
                    R's ability to remember what day and month it is (Imput
    PC20 FLAG 12
                    R's ability to remember where things are usually kept:
    PC20 IMP 12
                    R's ability to remember where things are usually kept (
    PC23 FLAG 12
                    R's ability to remember where to find things put in a d
    PC23_IMP_12
                    R's ability to remember where to find things put in a d
    PC26 FLAG 12
                    R's ability to know how to use familiar machines: Flag
    PC26 IMP 12
                    R's ability to know how to use familiar machines (Imput
    PC29 FLAG 12
                    R's ability to learn to use a new gadget or machine: Fl
    PC29 IMP 12
                    R's ability to learn to use a new gadget or machine (Im
    PC32 FLAG 12
                    R's ability to learn new things in general: Flag if Imp
    PC32 IMP 12
                    R's ability to learn new things in general (Imputed)
    PC35 FLAG 12
                    R's ability to follow a story in a book or on TV: Flag
    PC35 IMP 12
                    R's ability to follow a story in a book or on TV (Imput
    PC38 FLAG 12
                    R's ability to make decisions on everyday matters: Flag
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PC38 IMP 12
                    R's ability to make decisions on everyday matters (Impu
    PC41 FLAG 12
                    R's ability to handle money for shopping: Flag if Imput
    PC41 IMP 12
                    R's ability to handle money for shopping (Imputed)
    PC44 FLAG 12
                    R's ability to handle financial matters: Flag if Impute
                    R's ability to handle financial matters (Imputed)
    PC44 IMP 12
    PC47 FLAG 12
                    R's ability to handle other everyday arithmetic problem
    PC47 IMP 12
                    R's ability to handle other everyday arithmetic problem
    PC50 FLAG 12
                    R's ability to use his/her intelligence to understand w
    PC50 IMP 12
                    R's ability to use his/her intelligence to understand w
    PC5_FLAG_12
                    R's ability to remember things about family & friends:
    PC5_IMP_12
                    \ensuremath{\text{R}}\xspace 's ability to remember things about family & friends (
                    R's ability to remember things: Flag if Imputed
    PC8 FLAG 12
    PC8 IMP 12
                    R's ability to remember things (Imputed)
Wave 4 Imputed Cognition:
   PC11 FLAG 15
                    R's ability to recall conversations a few days later: F
    PC11 IMP 15
                    R's ability to recall conversations a few days later (I
    PC14 FLAG 15
                    R's ability to remember his/her address: Flag if Impute
    PC14 IMP 15
                    R's ability to remember his/her address (Imputed)
    PC17 FLAG 15
                    R's ability to remember what day and month it is: Flag
    PC17 IMP 15
                    R's ability to remember what day and month it is (Imput
    PC20 FLAG 15
                    R's ability to remember where things are usually kept:
    PC20 IMP 15
                    R's ability to remember where things are usually kept (
    PC23 FLAG 15
                    R's ability to remember where to find things put in a d
    PC23 IMP 15
                    R's ability to remember where to find things put in a d
    PC26 FLAG 15
                    R's ability to know how to use familiar machines: Flag
    PC26_IMP_15
                    R's ability to know how to use familiar machines (Imput
    PC29 FLAG 15
                    R's ability to learn to use a new gadget or machine: Fl
    PC29 IMP 15
                    R's ability to learn to use a new gadget or machine (Im
    PC32 FLAG 15
                    R's ability to learn new things in general: Flag if Imp
    PC32 IMP 15
                    R's ability to learn new things in general (Imputed)
    PC35 FLAG 15
                    R's ability to follow a story in a book or on TV: Flag
    PC35 IMP 15
                    R's ability to follow a story in a book or on TV (Imput
                    R's ability to make decisions on everyday matters: Flag
    PC38 FLAG 15
    PC38 IMP 15
                    R's ability to make decisions on everyday matters (Impu
    PC41 FLAG 15
                    R's ability to handle money for shopping: Flag if Imput
    PC41 IMP 15
                    R's ability to handle money for shopping (Imputed)
    PC44 FLAG 15
                    R's ability to handle financial matters: Flag if Impute
    PC44_IMP_15
                    R's ability to handle financial matters (Imputed)
    PC47_FLAG_15
                    R's ability to handle other everyday arithmetic problem
    PC47_IMP_15
                    R's ability to handle other everyday arithmetic problem
    PC50 FLAG 15
                    R's ability to use his/her intelligence to understand w
    PC50 IMP 15
                    R's ability to use his/her intelligence to understand w
    PC5 FLAG 15
                    R's ability to remember things about family & friends:
   PC5 IMP 15
                    R's ability to remember things about family & friends (
    PC8 FLAG 15
                    R's ability to remember things: Flag if Imputed
    PC8 IMP 15
                    R's ability to remember things (Imputed)
Wave 5 Imputed Cognition:
                    R's ability to recall conversations a few days later: F
    PC11 FLAG 18
    PC11 IMP 18
                    R's ability to recall conversations a few days later (I
    PC14 FLAG 18
                    R's ability to remember his/her address: Flag if Impute
    PC14 IMP 18
                    R's ability to remember his/her address (Imputed)
    PC17 FLAG 18
                    R's ability to remember what day and month it is: Flag
    PC17_IMP_18
                    R's ability to remember what day and month it is (Imput
    PC20 FLAG 18
                    R's ability to remember where things are usually kept:
    PC20_IMP_18
                    R's ability to remember where things are usually kept (
    PC23 FLAG 18
                    R's ability to remember where to find things put in a d
    PC23 IMP 18
                    R's ability to remember where to find things put in a d
    PC26 FLAG 18
                    R's ability to know how to use familiar machines: Flag
    PC26 IMP 18
                    R's ability to know how to use familiar machines (Imput
    PC29 FLAG 18
                    R's ability to learn to use a new gadget or machine: Fl
    PC29 IMP 18
                    R's ability to learn to use a new gadget or machine (Im
    PC32 FLAG 18
                    R's ability to learn new things in general: Flag if Imp
    PC32 IMP 18
                    R's ability to learn new things in general (Imputed)
    PC35 FLAG 18
                    R's ability to follow a story in a book or on TV: Flag
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PC35_IMP_18	R's	ability	to	follow a story in a book or on TV (Imput
PC38_FLAG_18	R's	ability	to	make decisions on everyday matters: Flag
PC38_IMP_18	R's	ability	to	make decisions on everyday matters (Impu
PC41_FLAG_18	R's	ability	to	handle money for shopping: Flag if Imput
PC41_IMP_18	R's	ability	to	handle money for shopping (Imputed)
PC44_FLAG_18	R's	ability	to	handle financial matters: Flag if Impute
PC44_IMP_18	R's	ability	to	handle financial matters (Imputed)
PC47_FLAG_18	R's	ability	to	handle other everyday arithmetic problem
PC47_IMP_18				handle other everyday arithmetic problem
PC50_FLAG_18	R's	ability	to	use his/her intelligence to understand w
PC50_IMP_18	R's	ability	to	use his/her intelligence to understand w
PC5_FLAG_18	R's	ability	to	remember things about family & friends:
PC5_IMP_18	R's	ability	to	remember things about family & friends (
PC8_FLAG_18	R's	ability	to	remember things: Flag if Imputed
PC8_IMP_18	R's	ability	to	remember things (Imputed)

Proxy Cognition: Ratings of Memory and Abilities

Wave	Variable	Label	Type
1	R1PRMEM	r1prmem:w1 R proxy rating of memory	Categ
	R2PRMEM	r2prmem:w2 R proxy rating of memory	Categ
	R3PRMEM	r3prmem:w3 R proxy rating of memory	Categ
	R4PRMEM	r4prmem:w4 R proxy rating of memory	Categ
5	R5PRMEM	r5prmem:w5 R proxy rating of memory	Categ
5	NOT MILLI	Topiniem. Wo it proxy racing of memory	categ
	S1PRMEM	s1prmem:w1 S proxy rating of memory	Categ
2	S2PRMEM	s2prmem:w2 S proxy rating of memory	Categ
	S3PRMEM	s3prmem:w3 S proxy rating of memory	Categ
	S4PRMEM	s4prmem:w4 S proxy rating of memory	Categ
5	S5PRMEM	s5prmem:w5 S proxy rating of memory	Categ
1	R1PRCHMEM	rlprchmem:w1 R proxy rating change in memory	Categ
2	R2PRCHMEM	r2prchmem:w2 R proxy rating change in memory	Categ
3	R3PRCHMEM	r3prchmem:w3 R proxy rating change in memory	Categ
4	R4PRCHMEM	r4prchmem:w4 R proxy rating change in memory	Categ
5	R5PRCHMEM	r5prchmem:w5 R proxy rating change in memory	Categ
			_
1	S1PRCHMEM	slprchmem:w1 S proxy rating change in memory	Categ
2	S2PRCHMEM	s2prchmem:w2 S proxy rating change in memory	Categ
3	S3PRCHMEM	s3prchmem:w3 S proxy rating change in memory	Categ
4	S4PRCHMEM	s4prchmem:w4 S proxy rating change in memory	Categ
5	S5PRCHMEM	s5prchmem:w5 S proxy rating change in memory	Categ
1	R1RJUDG	rlrjudg:wl R proxy rating of judgement	Cateq
	R2RJUDG	r2rjudg:w2 R proxy rating of judgement	Categ
	R3RJUDG	r3rjudg:w3 R proxy rating of judgement	Categ
	R4RJUDG	r4rjudg:w4 R proxy rating of judgement	Categ
	R5RJUDG	r5rjudg:w5 R proxy rating of judgement	Categ
	S1RJUDG	s1rjudg:w1 S proxy rating of judgement	Categ
	S2RJUDG	s2rjudg:w2 S proxy rating of judgement	Categ
3	S3RJUDG	s3rjudg:w3 S proxy rating of judgement	Categ
	S4RJUDG	s4rjudg:w4 S proxy rating of judgement	Categ
5	S5RJUDG	s5rjudg:w5 S proxy rating of judgement	Categ
1	R1RORGNZ	rlrorgnz:wl R proxy rating of daily activity organization	Categ
2	R2RORGNZ	r2rorgnz:w2 R proxy rating of daily activity organization	Categ
3	R3RORGNZ	r3rorgnz:w3 R proxy rating of daily activity organization	Categ
	R4RORGNZ	r4rorgnz:w4 R proxy rating of daily activity organization	Categ
5	R5RORGNZ	r5rorgnz:w5 R proxy rating of daily activity organization	Categ
1	S1RORGNZ	slrorgnz:w1 S proxy rating of daily activity organization	Categ
	S2RORGNZ S2RORGNZ	s2rorgnz:w2 S proxy rating of daily activity organization	Categ
	S3RORGNZ	s3rorgnz:w3 S proxy rating of daily activity organization	Categ
3 4	S4RORGNZ S4RORGNZ	s4rorgnz:w4 S proxy rating of daily activity organization	Categ
5	S5RORGNZ	s5rorgnz:w4 S proxy rating of daily activity organization	Categ
J	DUNGINA	STOLGHE WO D PLONY LECTING OF GALLY ACCEPTED OF GALLES	categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PRMEM	1029	3.28	0.96	1.00	5.00
R2PRMEM	1175	3.21	0.97	1.00	5.00
R3PRMEM	1275	3.44	1.02	1.00	5.00
R4PRMEM	928	3.54	1.07	1.00	5.00
R5PRMEM	1324	3.37	1.11	1.00	5.00

S1PRMEM	658	3.17	0.92	1.00	5.00	
S2PRMEM	818	3.16	0.94	1.00	5.00	
S3PRMEM S3PRMEM	726	3.33	0.94	1.00	5.00	
S4PRMEM	470	3.39	1.04	1.00	5.00	
S5PRMEM	562	3.41	1.06	1.00	5.00	
R1PRCHMEM	1027	2.18	0.44	1.00	3.00	
R2PRCHMEM	1173	2.14	0.43	1.00	3.00	
R3PRCHMEM	1274	2.24	0.50	1.00	3.00	
R4PRCHMEM	927	2.31	0.51	1.00	3.00	
R5PRCHMEM	1322	2.26	0.50	1.00	3.00	
KJEKCHMEM	1322	2.20	0.30	1.00	3.00	
S1PRCHMEM	656	2.13	0.41	1.00	3.00	
S2PRCHMEM	817	2.12	0.40	1.00	3.00	
S3PRCHMEM	726	2.17	0.45	1.00	3.00	
S4PRCHMEM	469	2.24	0.48	1.00	3.00	
S5PRCHMEM	561	2.26	0.49	1.00	3.00	
R1RJUDG	1024	3.31	0.99	1.00	5.00	
R2RJUDG	1172	3.17	0.97	1.00	5.00	
R3RJUDG	1274	3.46	1.06	1.00	5.00	
R4RJUDG	927	3.57	1.08	1.00	5.00	
R5RJUDG	1322	3.41	1.14	1.00	5.00	
S1RJUDG	655	3.16	0.92	1.00	5.00	
S2RJUDG	817	3.09	0.95	1.00	5.00	
s3RJUDG	725	3.28	1.00	1.00	5.00	
S4RJUDG	469	3.37	1.06	1.00	5.00	
S5RJUDG	560	3.41	1.07	1.00	5.00	
R1RORGNZ	1022	3.30	1.00	1.00	5.00	
R2RORGNZ	1173	3.16	1.01	1.00	5.00	
R3RORGNZ	1275	3.48	1.09	1.00	5.00	
R4RORGNZ	927	3.57	1.13	1.00	5.00	
R5RORGNZ	1322	3.43	1.18	1.00	5.00	
S1RORGNZ	653	3.16	0.93	1.00	5.00	
S2RORGNZ	817	3.04	0.98	1.00	5.00	
S3RORGNZ	726	3.28	1.04	1.00	5.00	
S4RORGNZ	470	3.37	1.13	1.00	5.00	
S5RORGNZ	559	3.45	1.12	1.00	5.00	

Categorical Variable Codes

Value	R1PRMEM	R2PRMEM	R3PRMEM	R4PRMEM	R5PRMEM
.d:DK	1	3		1	2
.m:Missing	1				2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
.r:Refuse	1				
1.Excellent	48	63	64	52	114
2.Very good	117	160	122	76	124
3.Good	469	527	473	299	431
4.Fair	287	316	424	320	467
5.Poor	108	109	192	181	188
Value	S1PRMEM	S2PRMEM	S3PRMEM	S4PRMEM	S5PRMEM
.d:DK	SIFKMEM	32 FRMEM	SJERMEM	SALUMEN	SJERMEM
.m:Missing	1	3			1
· · · · · · · · · · · · · · · · · · ·	0000	0742	0000	0100	7075
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.r:Refuse	1005	4000	4700	4047	5007
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Excellent	35	42	33	28	39
2.Very good	79	124	86	49	50
3.Good	332	375	293	174	192
4.Fair	165	217	236	152	201

5. Door.	47	60	70	67	80
5.Poor	47	60	78	67	80
Value	R1PRCHMEM	R2PRCHMEM	R3PRCHMEM	R4PRCHMEM	R5PRCHMEM
.d:DK	2	5	1	2	4
.m:Missing	1				2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
.r:Refuse	2				
1.Better	22	35	42	22	34
2.Same	800	935	879	595	907
3.Worse	205	203	353	310	381
Value	S1PRCHMEM	a o de arriveria	a 2 DD attiven	C A DD CHIMEN	a E DD au MEM
value .d:DK	SIPRCHMEM 1	S2PRCHMEM 4	S3PRCHMEM	S4PRCHMEM 1	S5PRCHMEM 1
.m:Missing	1	4		1	1
.n:Non-proxy ivw	9988	8743	9866	9182	7075
r:Refuse	2	0743	9000	9102	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Better	17	25	22	11	13
2.Same	534	673	555	333	388
3.Worse	105	119	149	125	160
			117	120	100
Value	R1RJUDG	R2RJUDG	R3RJUDG	R4RJUDG	R5RJUDG
.d:DK	2	6	1	2	3
.m:Missing	1				2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
.r:Refuse	5				1
1.Excellent	45	69	60	43	97
2.Very good	121	147	120	83	152
3.Good	468	586	522	317	449
4.Fair	251	253	312	268	362
5.Poor	139	117	260	216	262
Value	S1RJUDG	S2RJUDG	S3RJUDG	S4RJUDG	S5RJUDG
.d:DK	1	4	1	1	2
.m:Missing	1 9988	8743	9866	9182	1 7075
.n:Non-proxy ivw .r:Refuse	4	0743	9000	9102	7075
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Excellent	32	50	36	27	29
2.Very good	88	116	87	53	68
3.Good	330	427	332	184	204
4.Fair	155	156	175	131	160
5.Poor	50	68	95	74	99
Value	R1RORGNZ	R2RORGNZ	R3RORGNZ	R4RORGNZ	R5RORGNZ
.d:DK	3	5		1	3
.m:Missing	1				2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
.r:Refuse	6			1	1
1.Excellent	44	74	64	53	103
2.Very good	116	158	120	79	152
3. Good	506	589	511	325	441
4.Fair	205	211	297	227	332
5.Poor	151	141	283	243	294
Value	S1RORGNZ	S2RORGNZ	S3RORGNZ	S4RORGNZ	S5RORGNZ
.d:DK	2	4	DOMONONE	o monona	3
.m:Missing	1				1
.n:Non-proxy ivw	9988	8743	9866	9182	7075
r:Refuse	4				
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.Excellent	29	58	41	35	31
2.Very good	85	129	88	47	67
3.Good	354	427	332	189	201
4.Fair	121	128	159	105	137
5.Poor	64	75	106	94	123

How Constructed

RwPRMEM indicates the proxy's rating of the respondent's memory at the present time. RwPRMEM is coded as follows: 1.excellent, 2.very good, 3.good, 4.fair, 5.poor. RwPRMEM is set to special missing value .n for non-proxy interviews. Don't know, refused, or other missing responses are assigned special missing values .d, .r, or .m, respectively. RwPRMEM is set to plain missing (.) if the respondent did not participate in the current wave.

RwPRCHMEM indicates the proxy's rating of the respondent's memory compared to two years ago. RwPRCHMEM is coded as follows: 1.better, 2.same, 3.worse. RwPRCHMEM is set to special missing value .n for non-proxy interviews. Don't know, refused, or other missing responses are assigned special missing values .d, .r, or .m, respectively. RwPRCHMEM is set to plain missing (.) if the respondent did not participate in the current wave.

RWRJUDG indicates the proxy's rating of the respondent's ability to make judgements and decisions. RWRJUDG is coded as follows: 1.excellent, 2.very good, 3.good, 4.fair, 5.poor. RWRJUDG is set to special missing value .n for non-proxy interviews. Don't know, refused, or other missing responses are assigned special missing values .d, .r, or .m, respectively. RWRJUDG is set to plain missing (.) if the respondent did not participate in the current wave.

RWRORGNZ indicates the proxy's rating of the respondent's ability to organize their daily activities. RWRORGNZ is coded as follows: 1.excellent, 2.very good, 3.good, 4.fair, 5.poor. RWRORGNZ is set to special missing value .n for non-proxy interviews. Don't know, refused, or other missing responses are assigned special missing values .d, .r, or .m, respectively. RWRORGNZ is set to plain missing (.) if the respondent did not participate in the current wave.

SwPRMEM, SwPRCHMEM, SwRJUDG, and SwRORGNZ are taken from the Wave 'w' spouse's values for RwPRMEM, RwPRCHMEM, RwRJUDG, and RwRORGNZ, respectively. In addition to the special missing codes used in the respondent variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS has comparable variables for RwPRMEM and RwPRCHMEM. The HRS asks about the respondent's ability to make judgements and decisions and organize their daily activities, but these variables have not yet been made available in the RAND HRS or Harmonized HRS.

MHAS Variables Used

```
Wave 1:
   PC1
                    memory
                    change in memory
   PC2
   PC3
                    judgment
   PC4
                    organization
Wave 2:
   PC1
                    memory
    PC2
                    change in memory
   PC3
                    judgment
   PC4
                    organization
Wave 3:
   PC1 12
                    Present time: Report the subject's memory quality
   PC2_12
                    Compared to 2 years ago: Report the subject's memory qu
                    Report subject's ability to make judgments/decisions
   PC3 12
   PC4 12
                    Report subject's ability to organize his/her daily acti
Wave 4:
   PC1 15
                    Present time: Subject's memory
    PC2 15
                    Compared to 2 years ago: Subject's memory quality
                    Subject's ability to make judgments and take decisions
   PC3 15
                    Subject's ability to organize his/her daily activities
   PC4 15
Wave 5:
```

PC1_18 Present time: Subject's memory	
PC2 18 Compared to 2 years ago: Subject's memory qu	uality
PC3_18 Subject's ability to make judgments and take	decisions
PC4_18 Subject's ability to organize his/her daily	activities

Proxy Cognition: Cognitive Impairment

Wave	Variable	Label	Туре
1	R1LOST	rllost:w1 R lost in familiar environments	Categ
2	R2LOST	r2lost:w2 R lost in familiar environments	Categ
3	R3LOST	r3lost:w3 R lost in familiar environments	Categ
4	R4LOST	r4lost:w4 R lost in familiar environments	Categ
5	R5LOST	r5lost:w5 R lost in familiar environments	Categ
1	S1LOST	sllost:w1 S lost in familiar environments	Categ
2	S2LOST	s2lost:w2 S lost in familiar environments	Categ
3	S3LOST	s3lost:w3 S lost in familiar environments	Categ
4	S4LOST	s4lost:w4 S lost in familiar environments	Categ
5	S5LOST	s5lost:w5 S lost in familiar environments	Categ
1	R1WANDER	rlwander:wl R ever wanders off	Categ
	R2WANDER	r2wander:w2 R ever wanders off	Categ
3	R3WANDER	r3wander:w3 R ever wanders off	Categ
	R4WANDER	r4wander:w4 R ever wanders off	Categ
5	R5WANDER	r5wander:w5 R ever wanders off	Categ
1	S1WANDER	slwander:w1 S ever wanders off	Categ
2	S2WANDER	s2wander:w2 S ever wanders off	Categ
3	S3WANDER	s3wander:w3 S ever wanders off	Categ
4	S4WANDER	s4wander:w4 S ever wanders off	Categ
5	S5WANDER	s5wander:w5 S ever wanders off	Categ
1	R1ALONE	rlalone:w1 R can be left alone	Categ
2	R2ALONE	r2alone:w2 R can be left alone	Categ
3	R3ALONE	r3alone:w3 R can be left alone	Categ
4	R4ALONE	r4alone:w4 R can be left alone	Categ
5	R5ALONE	r5alone:w5 R can be left alone	Categ
1	S1ALONE	slalone:w1 S can be left alone	Categ
2	S2ALONE	s2alone:w2 S can be left alone	Categ
	S3ALONE	s3alone:w3 S can be left alone	Categ
4	S4ALONE	s4alone:w4 S can be left alone	Categ
5	S5ALONE	s5alone:w5 S can be left alone	Categ
1	R1HALUC	r1haluc:w1 R hallucinates	Categ
	R2HALUC	r2haluc:w2 R hallucinates	Categ
	R3HALUC	r3haluc:w3 R hallucinates	Categ
4	R4HALUC	r4haluc:w4 R hallucinates	Categ
5	R5HALUC	r5haluc:w5 R hallucinates	Categ
1	S1HALUC	s1haluc:w1 S hallucinates	Categ
2	S2HALUC	s2haluc:w2 S hallucinates	Categ
3	S3HALUC	s3haluc:w3 S hallucinates	Categ
4	S4HALUC	s4haluc:w4 S hallucinates	Categ
5	S5HALUC	s5haluc:w5 S hallucinates	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LOST	1010	0.17	0.38	0.00	1.00
R2LOST	1169	0.18	0.38	0.00	1.00
R3LOST	1267	0.25	0.43	0.00	1.00
R4LOST	925	0.34	0.47	0.00	1.00
R5LOST	1311	0.25	0.43	0.00	1.00

beenon b. cogm	11011					510
C1 I OCT	646	0.11	0.32	0.00	1.00	
S1LOST	815	0.11	0.34	0.00	1.00	
S2LOST						
S3LOST	722	0.17	0.37	0.00	1.00	
S4LOST	468	0.23	0.42	0.00	1.00	
S5LOST	553	0.19	0.39	0.00	1.00	
R1WANDER	1004	0.08	0.27	0.00	1.00	
R2WANDER	1160	0.08	0.27	0.00	1.00	
R3WANDER	1266	0.12	0.33	0.00	1.00	
R4WANDER	924	0.15	0.35	0.00	1.00	
R5WANDER	1309	0.12	0.33	0.00	1.00	
I O WI II O D I I	1000	0.12	0.00	0.00	1.00	
S1WANDER	645	0.04	0.20	0.00	1.00	
S2WANDER	812	0.07	0.25	0.00	1.00	
S3WANDER	723	0.09	0.28	0.00	1.00	
S4WANDER	470	0.10	0.30	0.00	1.00	
S5WANDER	553	0.11	0.31	0.00	1.00	
R1ALONE	1020	0.85	0.36	0.00	1.00	
R2ALONE	1173	0.83	0.38	0.00	1.00	
R3ALONE	1274	0.77	0.42	0.00	1.00	
R4ALONE	927	0.74	0.44	0.00	1.00	
R5ALONE	1321	0.79	0.41	0.00	1.00	
S1ALONE	651	0.88	0.33	0.00	1.00	
S2ALONE	817	0.82	0.38	0.00	1.00	
S3ALONE	725	0.79	0.41	0.00	1.00	
S4ALONE	469	0.78	0.41	0.00	1.00	
S5ALONE	559	0.80	0.40	0.00	1.00	
R1HALUC	1005	0.14	0.34	0.00	1.00	
R2HALUC	1166	0.11	0.31	0.00	1.00	
R3HALUC	1270	0.15	0.35	0.00	1.00	
R4HALUC	917	0.23	0.42	0.00	1.00	
R5HALUC	1311	0.18	0.38	0.00	1.00	
S1HALUC	641	0.08	0.28	0.00	1.00	
S2HALUC	812	0.08	0.27	0.00	1.00	
S3HALUC	723	0.09	0.28	0.00	1.00	
S4HALUC	468	0.15	0.36	0.00	1.00	
S5HALUC	554	0.14	0.34	0.00	1.00	
Categorical V	ariable Codes					

Categorical Variable Codes

Value	R1LOST	R2LOST	R3LOST	R4LOST	R5LOST
.d:DK	12	9	6	3	11
.m:Missing	1				2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
.r:Refuse	9		2	1	4
0.No	834	963	950	614	985
1.Yes	176	206	317	311	326
Value	S1LOST	S2LOST	S3LOST	S4LOST	S5LOST
.d:DK	6	6	4	2	5
.m:Missing	1	•	_	_	1
.n:Non-proxy ivw	9988	8743	9866	9182	7075
r:Refuse	7				4
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	572	703	602	360	447
1.Yes	74	112	120	108	106
Value	R1WANDER	R2WANDER	R3WANDER	R4WANDER	R5WANDER
.d:DK	12	13	7	4	7
.m:Missing	1		,	-	2.
.n:Non-proxy ivw	14154	12526	14448	13850	15786

Section D: Cognition					317
.r:Refuse	15	5	2	1	10
0.No	926	1067	1108	789	1149
1.Yes	78	93	158	135	160
1.165	70	33	130	133	100
Value	S1WANDER	S2WANDER	S3WANDER	S4WANDER	S5WANDER
.d:DK	4	6	3		4
.m:Missing	1				1
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.r:Refuse	10	3			5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	617	756	661	422	492
1.Yes	28	56	62	48	61
Value	R1ALONE	R2ALONE	R3ALONE	R4ALONE	R5ALONE
.d:DK	4	5	1.011201.2	1	1
.m:Missing	1	ŭ		<u>-</u>	2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
r:Refuse	7		1	1	4
0.No	154	204	288	239	281
1.Yes	866	969	986	688	1040
1.100	000	303	300	000	1010
Value	S1ALONE	S2ALONE	S3ALONE	S4ALONE	S5ALONE
.d:DK	1	4			
.m:Missing	1				1
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.r:Refuse	7		1	1	3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	81	145	151	102	114
1.Yes	570	672	574	367	445
Value	R1HALUC	R2HALUC	R3HALUC	R4HALUC	R5HALUC
.d:DK	10	12	3	11	9
.m:Missing	1				2
.n:Non-proxy ivw	14154	12526	14448	13850	15786
r:Refuse	16		2	1	6
0.No	867	1040	1084	705	1076
1.Yes	138	126	186	212	235
Walna	011121110	COLLATIC	021171110	CAHATHC	CEHATIC
Value	S1HALUC	S2HALUC	S3HALUC	S4HALUC	S5HALUC
.d:DK	6 1	9	2	2	4 1
.m:Missing		0740	0000	0100	
.n:Non-proxy ivw	9988	8743	9866	9182	7075
.r:Refuse	12	4000	1	4047	4
.u:Unmar	4205 333	4009 131	4782 349	4847 280	5227 501
.v:SP NR	587	131 746		280 397	478
0.No	58 /	/46	659	397	4 / 8

How Constructed

1.Yes

RwLOST, RwWANDER, RwALONE, and RwHALUC indicate whether the proxy indicated that the respondent shows the following signs of cognitive impairment. RwLOST indicates whether the respondent has ever gotten lost in a familiar environment. RwWANDER indicates whether the respondent ever wanders off and is not able to return by themselves. RwALONE indicates whether the respondent can be left alone for an hour or so. RwHALUC indicates whether the respondent ever sees or hears things that are not really there. These variables are coded as 0.no and 1.yes. They are set to special missing value .n for non-proxy interviews. Don't know, refused, or other missing responses are assigned special missing values .d, .r, or .m, respectively. RwLOST, RwWANDER, RwALONE, and RwHALUC are set to plain missing (.) if the respondent did not participate in the current wave.

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SwLOST, SwWANDER, SwALONE, and SwHALUC are taken from the Wave 'w' spouse's values for RwLOST, RwWANDER, RwALONE, and RwHALUC, respectively. In addition to the special missing codes used in the respondent variables, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS has comparable variables for RwLOST, RwWANDER, RwALONE, and RwHALUC.

MHAS Variables Used

Wave 1:	
PC53	gets lost
PC54	wanders off
PC55	can be left alone
PC56	see and hear things
Wave 2:	
PC53	gets lost
PC54	wanders off
PC55	can be left alone
PC56	see and hear things
Wave 3:	
PC53_12	Currently: Does subject get lost in a familiar environme
PC54_12	Currently:Does subject wander off without returning by
PC55_12	Currently:Can subject be left alone for about an hour
PC56_12	Currently:Does subject hear/see things that are not pre
Wave 4:	
PC53_15	Currently: Does subject get lost in a familiar environm
PC54_15	Currently: Does subject wander off and not return by hi
PC55_15	Currently: Can subject be left alone for about an hour
PC56_15	Currently: Does subject ever see or hear things that ar
Wave 5:	
PC53_18	Currently: Does subject get lost in a familiar environm
PC54_18	Currently: Does subject wander off and not return by hi
PC55_18	Currently: Can subject be left alone for about an hour
PC56_18	Currently: Does subject ever see or hear things that ar

Proxy Cognition: Problem Behaviors in Past Week

Wave	Variable	Label	Туре
1	R10ANGRY	rloangry:w1 R how often angry during past week	Categ
	R2OANGRY	r2oangry:w2 R how often angry during past week	Categ
	R3OANGRY	r3oangry:w3 R how often angry during past week	Categ
4			_
4	R40ANGRY	r4oangry:w4 R how often angry during past week	Categ
1	S10ANGRY	sloangry:w1 S how often angry during past week	Categ
2	S20ANGRY	s2oangry:w2 S how often angry during past week	Categ
3	S30ANGRY	s3oangry:w3 S how often angry during past week	Categ
4	S40ANGRY	s4oangry:w4 S how often angry during past week	Categ
1	R1OSLEEP	rlosleep:w1 R how often trouble sleeping during past week	Categ
	R2OSLEEP	r2osleep:w2 R how often trouble sleeping during past week	Categ
	R3OSLEEP	r3osleep:w3 R how often trouble sleeping during past week	Categ
4	R4OSLEEP	r4osleep:w4 R how often trouble sleeping during past week	Categ
_			categ
	S10SLEEP	slosleep:w1 S how often trouble sleeping during past week	Categ
2	S2OSLEEP	s2osleep:w2 S how often trouble sleeping during past week	Categ
3	S3OSLEEP	s3osleep:w3 S how often trouble sleeping during past week	Categ
4	S4OSLEEP	s4osleep:w4 S how often trouble sleeping during past week	Categ
1	R10DNGR	rlodngr:w1 R how often dangerous during past week	Categ
	R2ODNGR	r2odngr:w2 R how often dangerous during past week	Categ
	R30DNGR	r3odngr:w3 R how often dangerous during past week	Categ
4	R4ODNGR	r4odngr:w4 R how often dangerous during past week	Categ
4	RAODINGR	140dig1.w4 k now often dangerous duffing past week	categ
1	S10DNGR	slodngr:w1 S how often dangerous during past week	Categ
2	S2ODNGR	s2odngr:w2 S how often dangerous during past week	Categ
3	S30DNGR	s3odngr:w3 S how often dangerous during past week	Categ
4	S40DNGR	s4odngr:w4 S how often dangerous during past week	Categ
1	R10PACE	rlopace:wl R how often paced around during past week	Categ
	R2OPACE	r2opace:w2 R how often paced around during past week	Categ
	R3OPACE	r3opace:w3 R how often paced around during past week	Categ
4	R40PACE	r4opace:w4 R how often paced around during past week	Categ
7	NAOFACE	140pace.w4 K now often paced around during past week	categ
1	S10PACE	slopace:w1 S how often paced around during past week	Categ
2	S2OPACE	s2opace:w2 S how often paced around during past week	Categ
3	S30PACE	s3opace:w3 S how often paced around during past week	Categ
4	S40PACE	s4opace:w4 S how often paced around during past week	Categ
1	D10D70F		_
1	R1OPLOT	rloplot:w1 R how often thought someone plotting during past	Categ
	R2OPLOT	r2oplot:w2 R how often thought someone plotting during past	Categ
3	R30PLOT	r3oplot:w3 R how often thought someone plotting during past	Categ
4	R4OPLOT	r4oplot:w4 R how often thought someone plotting during past	Categ
1	S10PLOT	sloplot:w1 S how often thought someone plotting during past	Categ
2	S2OPLOT	s2oplot:w2 S how often thought someone plotting during past	Categ
3	S3OPLOT	s3oplot:w3 S how often thought someone plotting during past	Categ
4	S4OPLOT	s4oplot:w4 S how often thought someone plotting during past	Categ
_	-100		-
1	R10ALCHL	rloalchl:w1 R how often drunk too much alcohol during past w	Categ
2	R2OALCHL	r2oalchl:w2 R how often drunk too much alcohol during past w	Categ
3	R30ALCHL	r3oalch1:w3 R how often drunk too much alcohol during past w	Categ
4	R4OALCHL	r4oalchl:w4 R how often drunk too much alcohol during past w	Categ
1	S10ALCHL	sloalchl:w1 S how often drunk too much alcohol during past w	Categ
2	S2OALCHL	s2oalch1:w2 S how often drunk too much alcohol during past w	Categ
3	S30ALCHL	s3oalch1:w3 S how often drunk too much alcohol during past w	_
			Categ
4	S40ALCHL	s4oalchl:w4 S how often drunk too much alcohol during past w	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R10ANGRY	953	2.46	0.70	1.00	3.00
R20ANGRY	1080	2.51	0.68	1.00	3.00
R30ANGRY	1250	2.46	0.70	1.00	3.00
R40ANGRY	912	2.42	0.72	1.00	3.00
NAOANGNI	912	2.42	0.72	1.00	3.00
S10ANGRY	606	2.49	0.69	1.00	3.00
S20ANGRY	752	2.53	0.68	1.00	3.00
S30ANGRY	709	2.45	0.72	1.00	3.00
S40ANGRY	458	2.43	0.72	1.00	3.00
R10SLEEP	942	2.56	0.68	1.00	3.00
R2OSLEEP	1057	2.54	0.69	1.00	3.00
R3OSLEEP	1243	2.42	0.75	1.00	3.00
R40SLEEP	907	2.28	0.81	1.00	3.00
S10SLEEP	600	2.65	0.61	1.00	3.00
S2OSLEEP	742	2.63	0.64	1.00	3.00
S3OSLEEP	705	2.51	0.72	1.00	3.00
S40SLEEP	459	2.37	0.79	1.00	3.00
R10DNGR	964	2.90	0.35	1.00	3.00
R2ODNGR	1088	2.91	0.32	1.00	3.00
R30DNGR	1255	2.87	0.40	1.00	3.00
R40DNGR	911	2.86	0.42	1.00	3.00
S10DNGR	613	2.93	0.29	1.00	3.00
S20DNGR	757	2.92	0.32	1.00	3.00
S30DNGR	712	2.89	0.37	1.00	3.00
S40DNGR	462	2.88	0.40	1.00	3.00
R10PACE	970	2.86	0.43	1.00	3.00
R2OPACE	1086	2.87	0.40	1.00	3.00
R30PACE	1249	2.80	0.50	1.00	3.00
R40PACE	910	2.78	0.53	1.00	3.00
S10PACE	617	2.92	0.33	1.00	3.00
S2OPACE	756	2.89	0.38	1.00	3.00
S3OPACE	707	2.84	0.45	1.00	3.00
S40PACE	461	2.81	0.49	1.00	3.00
R10PLOT	966	2.87	0.42	1.00	3.00
R2OPLOT	1087	2.88	0.40	1.00	3.00
R30PLOT	1253	2.87	0.42	1.00	3.00
R4OPLOT	910	2.81	0.50	1.00	3.00
S10PLOT	613	2.93	0.32	1.00	3.00
S2OPLOT	757	2.91	0.35	1.00	3.00
S3OPLOT	709	2.91	0.34	1.00	3.00
S40PLOT	460	2.85	0.47	1.00	3.00
R10ALCHL	964	2.88	0.42	1.00	3.00
R2OALCHL	1091	2.90	0.35	1.00	3.00
R3OALCHL	1257	2.92	0.34	1.00	3.00
R40ALCHL	914	2.94	0.31	1.00	3.00
S10ALCHL	610	2.86	0.45	1.00	3.00
S20ALCHL	758	2.88	0.38	1.00	3.00
S3OALCHL	713	2.92	0.35	1.00	3.00
S40ALCHL	460	2.94	0.31	1.00	3.00

Categorical Variable Codes

Value .d:DK	R1OANGRY 66	R2OANGRY 98	R3OANGRY 24	R4OANGRY 15
.m:Missing .n:Non-proxy ivw	1 14154	12526	14448	13850
.r:Refuse	14134	12320	14440	2
1.Most of the time	118	115	154	126
2. Some of the time	279	295	367	281
3.Never	556	670	729	505
Value	S10ANGRY	S20ANGRY	S30ANGRY	S40ANGRY
.d:DK	44	69	16	10
.m:Missing .n:Non-proxy ivw	1 9988	8743	9866	9182
.r:Refuse	9900	0/43	1	9102
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
1.Most of the time 2.Some of the time	70 171	79 193	95 198	61 139
3. Never	365	480	416	258
,				
Value		R2OSLEEP	R3OSLEEP	R4OSLEEP
.d:DK .m:Missing	77 . 1	120	31	22
.n:Non-proxy ivw	14154	12526	14448	13850
.r:Refuse	12	1	1	
1.Most of the time	101	120	200	207
2.Some of the time 3.Never	213	245 692	319 724	239 461
J.Nevel	020	692	724	401
Value	S10SLEEP	S2OSLEEP	S3OSLEEP	S4OSLEEP
.d:DK	50	78	20	11
.m:Missing	1 9988	8743	9866	9182
.n:Non-proxy ivw .r:Refuse	9900	0743	1	9102
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
1.Most of the time 2.Some of the time	120	65 145	93 157	90 110
3.Never	436	532	455	259
,				
Value		R2ODNGR	R30DNGR	R40DNGR
.d:DK	53	90	18	17
.m:Missing .n:Non-proxy ivw	14154	12526	14448	13850
r:Refuse	14		2	1
1.Most of the time	15	14	28	28
2.Some of the time 3.Never	71 878	65 1009	109 1118	68 815
J. Nevel	070	1009	1110	013
Value	S10DNGR	S20DNGR	S30DNGR	S40DNGR
.d:DK	36	64	13	8
.m:Missing .n:Non-proxy ivw	1 9988	8743	9866	9182
.r:Refuse	10	0743	1	J102
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
1.Most of the time 2.Some of the time	6 31	10 42	14 52	12 32
3.Never	576	705	646	418
Value	R1OPACE	R2OPACE	R3OPACE	R4OPACE
.d:DK .m:Missing	50 1	92	22	19
.n:Non-proxy ivw	14154	12526	14448	13850
.r:Refuse	11		4	-
1.Most of the time	33	27	56	51
2.Some of the time	65	82	141	99 760
3.Never	872	977	1052	760

Value	S10PACE	S20PACE	S3OPACE	S40PACE
.d:DK	34	65	16	9
.m:Missing	1			
.n:Non-proxy ivw	9988	8743	9866	9182
.r:Refuse	8		3	
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
1.Most of the time	11	19	25	21
2. Some of the time	25	45	60	44
3.Never	581	692	622	396
Value	R1OPLOT	R2OPLOT	R3OPLOT	R40PLOT
.d:DK	52	89	20	17
.m:Missing	1			
.n:Non-proxy ivw	14154	12526	14448	13850
.r:Refuse	13	2	2	2
1.Most of the time	30	32	37	43
2.Some of the time	62	65	91	86
3.Never	874	990	1125	781
Value	S1OPLOT	S2OPLOT	S3OPLOT	S4OPLOT
.d:DK	36	62	15	10
.m:Missing	1			
.n:Non-proxy ivw	9988	8743	9866	9182
.r:Refuse	10	2	2	
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
1.Most of the time	11	16	12	20
2. Some of the time	21	37	40	31
3.Never	581	704	657	409
Value	R1OALCHL	R2OALCHL	R3OALCHL	R4OALCHL
.d:DK	KIOALCHL 56	RZUALCHL 87	RSOALCHL 17	R4OALCHL 15
.m:Missing	1	0 /	Ι/	13
.n:Non-proxy ivw	14154	12526	14448	13850
.r:Refuse	11	12320	1	13030
1.Most of the time	31	17	28	18
2. Some of the time	57	73	43	18
3. Never	876	1001	1186	878
J.146761	070	1001	1100	070
Value	S10ALCHL	S20ALCHL	S3OALCHL	S40ALCHL
.d:DK	41	63	12	10
.m:Missing	1			
.n:Non-proxy ivw	9988	8743	9866	9182
.r:Refuse	8		1	
.u:Unmar	4205	4009	4782	4847
.v:SP NR	333	131	349	280
1.Most of the time	24	15	16	9
2.Some of the time	39	59	28	10
3.Never	547	684	669	441

How Constructed

RWOANGRY, RWOSLEEP, RWODNGR, RWOPACE, RWOPLOT, and RWOALCHL indicate how often the proxy reports that the respondent exhibited certain problem behaviors during the past week. RWOANGRY indicates how often the respondent became angry or hostile. RWOSLEEP indicates how often the respondent had difficulties falling asleep or waking frequently during the night. RWODNGR indicates how often the respondent did things that are dangerous to themselves or others. RWOPACE indicates how often the respondent paced around or made unexplained rocking movements while sitting. RWOPLOT indicates how often the respondent mentioned that people are plotting against or trying to harm them. RWOALCHL indicates how often the respondent drank too much alcohol. These variables are coded as follows: 1.most of the time, 2.some of the time, 3.never. They are set to special missing value .n for non-proxy interviews. Don't know, refused, or other missing responses are assigned special missing values .d, .r, or .m, respectively. RWOANGRY, RWOSLEEP, RWODNGR, RWOPACE, RWOPLOT, and RWOALCHL are set to plain missing (.) if the respondent did not participate in the current wave.

SWOANGRY, SWOSLEEP, SWODNGR, SWOPACE, SWOPLOT, and SWOALCHL are taken from the Wave 'w' spouse's values for RWOANGRY, RWOSLEEP, RWODNGR, RWOPACE, RWOPLOT, and RWOALCHL, respectively. In addition to the special missing codes used in the respondent variables, if the respondent is not designated as coupled in the

current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

These questions are not asked starting in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS asks comparable questions, but these variables have not yet been made available in the RAND HRS or Harmonized HRS.

MHAS Variables Used

Wave 1:	
PC57	angry and hostile
PC58	sleeping problems
PC59	reckless
PC60	paced around
PC61	±
	psychopathic
PC62	drinking alcohol
Wave 2:	
PC57	angry and hostile
PC58	sleeping problems
PC59	reckless
PC60	paced around
PC61	psychopathic
PC62	drinking alcohol
Wave 3:	
PC57 12	During the last week: Report the frequency subjectang
PC58 12	During the last week: Report the frequency subjectdif
PC59 12	During the last week: Frequency subject has dangerous to
PC60 ⁻ 12	During the last week: Report the frequency subject has p
PC61 ⁻ 12	During the last week: Report the frequency subject belie
PC62 ¹ 2	During the last week: Report the frequency subject drunk
Wave 4:	
PC57 15	During the past week: How often has the subject become
PC58 15	During the past week: How often has the subject had dif
PC59 15	During the past week: How often has the subject done th
PC60 ⁻ 15	During the past week: How often has the subject paced a
PC61 15	During the past week: How often has the subject mention
PC62 ¹⁵	During the past week: How often has the subject drunk t

Section E: Financial and Housing Wealth

Inflation Multiplier

Wave	Variable	Label	Туре
1	C2000CPINDEX	2000 consumer price index, 2010=100	Cont
1	C2001CPINDEX	2001 consumer price index, 2010=100	Cont
1	C2002CPINDEX	2002 consumer price index, 2010=100	Cont
1	C2003CPINDEX	2003 consumer price index, 2010=100	Cont
1	C2011CPINDEX	2011 consumer price index, 2010=100	Cont
1	C2012CPINDEX	2012 consumer price index, 2010=100	Cont
1	C2013CPINDEX	2013 consumer price index, 2010=100	Cont
1	C2014CPINDEX	2014 consumer price index, 2010=100	Cont
1	C2015CPINDEX	2015 consumer price index, 2010=100	Cont
1	C2016CPINDEX	2016 consumer price index, 2010=100	Cont
1	C2017CPINDEX	2017 consumer price index, 2010=100	Cont
1	C2018CPINDEX	2018 consumer price index, 2010=100	Cont
1	C2019CPINDEX	2019 consumer price index, 2010=100	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
C2000CPINDEX	26839	63.30	0.00	63.30	63.30
C2001CPINDEX	26839	67.30	0.00	67.30	67.30
C2002CPINDEX	26839	70.70	0.00	70.70	70.70
C2003CPINDEX	26839	73.90	0.00	73.90	73.90
C2011CPINDEX	26839	103.40	0.00	103.40	103.40
C2012CPINDEX	26839	107.70	0.00	107.70	107.70
C2013CPINDEX	26839	111.80	0.00	111.80	111.80
C2014CPINDEX	26839	116.20	0.00	116.20	116.20
C2015CPINDEX	26839	119.40	0.00	119.40	119.40
C2016CPINDEX	26839	122.80	0.00	122.80	122.80
C2017CPINDEX	26839	130.20	0.00	130.20	130.20
C2018CPINDEX	26839	136.60	0.00	136.60	136.60
C2019CPINDEX	26839	141.50	0.00	141.50	141.50

How Constructed

CyyyyCPINDEX is the annual consumer price index for the year of the survey. CyyyyCPINDEX uses 2010 as its base year so the consumer price index for a survey conducted in 2010 would be 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 http://stats.oecd.org.

Cross Wave Differences in MHAS

Consumer price index values are not based on any MHAS survey question.

Differences with the RAND HRS/Harmonized HRS

Consumer price index values are not included in the RAND HRS.

Net Value of Real Estate (Not Primary Residence)

Wave	Variable	Label	Type
1	H1ARLES	hlarles:wl assets: other real estate	Cont
2	H2ARLES	h2arles:w2 assets: other real estate	Cont
3	H3ARLES	h3arles:w3 assets: other real estate	Cont
4	H4ARLES	h4arles:w4 assets: other real estate	Cont
5	H5ARLES	h5arles:w5 assets: other real estate	Cont
1	H1AFRLES	hlafrles:w1 asst flag: other real estate	Categ
2	H2AFRLES	h2afrles:w2 asst flag: other real estate	Categ
3	H3AFRLES	h3afrles:w3 asst flag: other real estate	Categ
4	H4AFRLES	h4afrles:w4 asst flag: other real estate	Categ
5	H5AFRLES	h5afrles:w5 asst flag: other real estate	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ARLES	15636	54454.57	336888.52	-261596.31	15555548.00
H2ARLES	14030	61544.64	334320.86	-250000.00	12000000.00
H3ARLES	15723	103540.27	484450.07	-53735.05	18140548.00
H4ARLES	14911	236197.65	1856188.45	-10000.00	80000000.00
H5ARLES	17306	133116.09	530469.60	-1400000.00	11000000.00
H1AFRLES	15696	0.05	0.23	-1.00	1.00
H2AFRLES	14063	0.05	0.22	-1.00	1.00
H3AFRLES	15723	0.07	0.25	0.00	1.00
H4AFRLES	14945	0.04	0.22	-1.00	1.00
H5AFRLES	17326	0.07	0.25	-1.00	1.00

Categorical Variable Codes

Value		H1AFRLES	H2AFRLES	H3AFRLES	H4AFRLES	H5AFRLES
-1.No Imput:section not complete	1	59	33		34	20
0.Not imputed	1	14801	13339	14625	14205	16147
1.Imputed	1	836	691	1098	706	1159

How Constructed

Hwarles captures the net value of other real estate at the household level. In waves 1 to 4, Hwarles includes the net value of a second home, the value of any other real estate property, and the debt on any other real estate property. Starting in Wave 5, Hwarles includes the net value of a second home, the value of the most important other real estate property, and the debt on the most important other real estate property.

At all waves the selected respondent for the couple or the single respondent is asked whether "excluding properties that generate income, are you (or your spouse) owner of another house or condominium, including time shared apartments?". If the respondent answers yes, they are then asked if they were to sell the property and pay off any debt on this property, how much money would it be. This net value of the second home is included in HwARLES.

At all waves the informant for the subject or the couple is also asked whether "excluding your main house or second residence, do you (or your spouse) own any real estate property, such as land, vacant lots and/or properties for rent?". If the respondent answers yes, in waves 1 to 4, the respondent is able to mention up to 2 other properties. Starting at wave 5, the respondent is only asked about their one most important other property. For each reported property the respondent reports, they are asked whether they have any have any outstanding debt on the property and, if they do have debt, they are asked how much they still owe. For each reported property the respondent is also asked "if you were to sell the property now, how much would you receive for it?" The value of each property minus the debt owed on each property is included in HwARLES.

For each question eliciting a value included in HwARLES, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported neither a second home nor having any other real estate properties, HwARLES has a value of 0.

HWARLES is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwARLES was not imputed because the respondent did not complete the section. HwARLES is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFRLES is a flag variable indicating whether or not any component of HwARLES was imputed. A code of 0 indicates that no component of HwARLES was imputed. A code of 1 indicates that at least one component of HwARLES was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

In waves 1 to 4, MHAS allows the respondent to report up to two other real estate properties and records their values and the debts on them. Starting in Wave 5, MHAS asked the respondent to report only the one most important other real estate property and records its value and the debts on it. Therefore starting at Wave 5, HwARLES does not include the value of any second other real estate property like it did from waves 1 to 4.

Differences with the RAND HRS/Harmonized HRS

HWARLES in the RAND HRS does not include the value of the second home. In the RAND HRS, the value of the second home is captured in HwANETHB. In the Harmonized MHAS, HwARLES includes both the value of other real estate and the value of second home.

There are differences in the questions about other real estate properties. In the HRS the net value of other real estate properties is asked in a single question. In the MHAS, one question is asked about the value and one question is asked about any debt on the other real estate property, for each property (up to 2 properties).

There are differences in the questions about the second home. In the HRS, one question is asked about the value and another question is asked about any debt on the second home. In the MHAS, a single question is asked about the net value of the second home.

Net value of other real estate in MHAS is measured in nominal pesos, whereas the equivalent measures in RAND HRS are in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAMJ26
                    net value other houses/apartments (imputed)
    IMAMK17_1
                    total debt other real estate properties 1 (imputed)
    IMAMK17 2
                    total debt other real estate properties 2 (imputed)
    IMAMK22
                    gross value other real estate properties 1 (imputed)
    IMAMK22 2
                    gross value other real estate properties 2 (imputed)
    J26IMP
                    if imputed value
                    if imputed value
    K17 1IMP
    K17 2IMP
                   if imputed value
    K22 1IMP
                   if imputed value
    K22 2IMP
                   if imputed value
Wave 2:
```

```
IMAMJ33
                    net value other houses/apartments (imputed)
    IMAMK19 1
                    total debt other real estate properties 1 (imputed)
    IMAMK19 2
                    total debt other real estate properties_2 (imputed)
    IMAMK24 1
                    gross value other real estate properties 1 (imputed)
    IMAMK24 2
                   gross value other real estate properties 2 (imputed)
                    if imputed value
    K19 1IMP
                    if imputed value
    K19 2IMP
                    if imputed value
    K24_1IMP
                    if imputed value
    K24_2IMP
                    if imputed value
Wave 3:
    IMAMJ34_12
                    Total debt other real estate properties 1 (imputed)
    IMAMK20_1_12
    IMAMK20_2_12
IMAMK24_1_12
                    Total debt other real estate properties 2 (imputed)
                    Gross value other real estate properties 1 (imputed)
    IMAMK24<sup>2</sup>12
                    Gross value other real estate properties 2 (imputed)
    J34 IMP 12
    K20 1 IMP 12
                    Total debt other real estate properties 1 (Flag if impu
    K20 2 IMP 12
                  Total debt other real estate properties 2 (Flag if impu
    K24 1 IMP 12
                    Gross value other real estate properties 1 (Flag if imp
    K24 2 IMP 12
                   Gross value other real estate properties 2 (Flag if imp
Wave 4:
    IMAMJ34 15
                    Net value other houses/apartments (imputed)
    IMAMK20_1_15
                    Total debt other real estate properties 1 (imputed)
    IMAMK20_2_15
                    Total debt other real estate properties_2 (imputed)
    IMAMK24_1_15
                    Gross value other real estate properties 1 (imputed)
    IMAMK24_2_15
J34_IMP_15
                    Gross value other real estate properties 2 (imputed)
                    Net value other houses/apartments (Flag if imputed valu
    K20 1 IMP 15
                    Total debt other real estate properties 1 (Flag if impu
    K20_2_IMP_15
                    Total debt other real estate properties_2 (Flag if impu
    K24 1 IMP 15
                    Gross value other real estate properties 1 (Flag if imp
    K24_2_IMP_15
                    Gross value other real estate properties_2 (Flag if imp
Wave 5:
    IMAMJ34 18
                    Net value other houses/apartments (imputed)
    IMAMK20 1 18
                    Total debt other real estate properties (imputed)
    IMAMK24 1 18
                    Gross value other real estate properties (imputed)
    J34 IMP 18
                    Net value other houses/apartments (Flag if imputed valu
    K20_1_IMP_18
                   Total debt other real estate properties (Flag if impute
    K24_1_IMP_18
```

Gross value other real estate properties (Flag if imput

Net Value of Cars

Wave	Variable	Label	Type
1	H1ATRAN	hlatran:w1 assets: vehicles	Cont
2	H2ATRAN	h2atran:w2 assets: vehicles	Cont
3	H3ATRAN	h3atran:w3 assets: vehicles	Cont
4	H4ATRAN	h4atran:w4 assets: vehicles	Cont
5	H5ATRAN	h5atran:w5 assets: vehicles	Cont
1	H1AFTRAN	hlaftran:w1 asst flag: vehicles	Categ
2	H2AFTRAN	h2aftran:w2 asst flag: vehicles	Categ
3	H3AFTRAN	h3aftran:w3 asst flag: vehicles	Categ
4	H4AFTRAN	h4aftran:w4 asst flag: vehicles	Categ
5	H5AFTRAN	h5aftran:w5 asst flag: vehicles	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATRAN	15636	18193.60	67325.42	-115205.05	3000000.00
H2ATRAN	14032	17026.21	61103.75	-75598.20	2500000.00
H3ATRAN	15723	34134.90	152466.07	-236884.63	6150000.00
H4ATRAN	14911	31214.34	150331.08	-499247.13	9000000.00
H5ATRAN	17306	32901.44	128096.48	-414724.56	6000000.00
H1AFTRAN	15695	0.04	0.22	-1.00	1.00
H2AFTRAN	14063	0.03	0.19	-1.00	1.00
H3AFTRAN	15723	0.07	0.26	0.00	1.00
H4AFTRAN	14945	0.05	0.22	-1.00	1.00
H5AFTRAN	17326	0.06	0.24	-1.00	1.00

Categorical Variable Codes

Value		H1AFTRAN	H2AFTRAN	H3AFTRAN	H4AFTRAN	H5AFTRAN
-1.No Imput:section not complete	1	59	31		34	20
0.Not imputed	1	14875	13527	14571	14179	16236
1.Imputed	1	761	505	1152	732	1070

How Constructed

 ${\tt HwATRAN}$ captures the net value of vehicles at the household level. ${\tt HwATRAN}$ includes the value of any means of transportation and the debt on any means of transportation.

The informant for the subject or the couple is asked "are you (or your spouse) owner of any means of transportation for private or recreational use". If the respondent answers yes, they are then asked if they have any outstanding debt on these means of transportation. If they do have debt, they are asked how much they still owe. All respondents who report owning any means of transportation are also asked "if you were to sell them, about how much money would you receive?". HwATRAN is derived as the value minus the debt owed on any means of transportation.

For both questions eliciting a value included in HwATRAN, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.mhasweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported not owning any means of transportation, HwATRAN has a value of 0.

Hwatran is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of Hwatran was not imputed because the respondent did not complete the section. Hwatran is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFTRAN is a flag variable indicating whether or not any component of HwATRAN was imputed. A code of 0 indicates that no component of HwATRAN was imputed. A code of 1 indicates that at least one component of HwATRAN was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

There are differences in the questions about vehicles. In the HRS the net value of vehicles is asked in a single question. In the MHAS, one question is asked about the value and one question is asked about any debt.

Net value of vehicles in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
                    gross value vehicles (imputed)
    IMAMK36
    IMAMK37
                    total debt vehicles (imputed)
    K36IMP
                    if imputed value
                    if imputed value
    K37IMP
Wave 2:
    TMAMK38
                    gross value vehicles (imputed)
    IMAMK39
                    total debt vehicles (imputed)
    K38IMP
                    if imputed value
    K39IMP
                    if imputed value
Wave 3:
    IMAMK40 12
                    Total debt vehicles (imputed)
    IMAMK42 12
                    Gross value vehicles (imputed)
    K40 IMP 12
                    Total debt vehicles (Flag if imputed value)
    K42 IMP 12
                    Gross value vehicles (Flag if imputed value)
Wave 4:
    IMAMK40 15
                    Total debt vehicles (imputed)
    IMAMK42 15
                    Gross value vehicles (imputed)
    K40_IMP_15
                    Total debt vehicles (Flag if imputed value)
    K42 IMP 15
                    Gross value vehicles (Flag if imputed value)
Wave 5:
    IMAMK40 18
                    Total debt vehicles (imputed)
    IMAMK42 18
                    Gross value vehicles (imputed)
    K40 IMP 18
                    Total debt vehicles (Flag if imputed value)
    K42 IMP 18
                    Gross value vehicles (Flag if imputed value)
```

Net Value of Businesses

Wave	Variable	Label	Type
1	H1ABSNS	hlabsns:wl assets: business	Cont
2	H2ABSNS	h2absns:w2 assets: business	Cont
3	H3ABSNS	h3absns:w3 assets: business	Cont
4	H4ABSNS	h4absns:w4 assets: business	Cont
5	H5ABSNS	h5absns:w5 assets: business	Cont
1	H1AFBSNS	hlafbsns:wl asst flag: business	Categ
2	H2AFBSNS	h2afbsns:w2 asst flag: business	Categ
3	H3AFBSNS	h3afbsns:w3 asst flag: business	Categ
4	H4AFBSNS	h4afbsns:w4 asst flag: business	Categ
5	H5AFBSNS	h5afbsns:w5 asst flag: business	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ABSNS H2ABSNS	15636 14032	66694.59 74024.08	330075.00 365321.03	-777776.00 -999980.00	12452776.00 10944902.00
H3ABSNS	15723	76181.10	407001.68	-2981432.25	10000000.00
H4ABSNS H5ABSNS	14911 17306	230908.12 84307.38	1808014.88 438932.03	-440000.00 -794476.38	70000000.00
1137125110	17300	01307.30	130332:03	751170.50	3000000.00
H1AFBSNS	15695	0.11	0.33	-1.00	1.00
H2AFBSNS	14063	0.12	0.33	-1.00	1.00
H3AFBSNS	15723	0.07	0.25	0.00	1.00
H4AFBSNS	14945	0.07	0.26	-1.00	1.00
H5AFBSNS	17326	0.07	0.26	-1.00	1.00

Categorical Variable Codes

Value		H1AFBSNS	H2AFBSNS	H3AFBSNS	H4AFBSNS	H5AFBSNS
-1.No Imput:section not complete		59	31		34	20
0.Not imputed		13804	12336	14629	13902	16116
1.Imputed		1832	1696	1094	1009	1190

How Constructed

HwABSNS captures the net value of businesses at the household level. HwABSNS includes the value of any businesses or farms and the debt on any businesses or farms.

The informant for the subject or the couple is asked "Do you (and/or spouse) own a business or farm?". The respondent is able to mention up to 2 other businesses/farms. If the respondent reported having 1 or more businesses/farms, they are then asked for each business/farm (up to 2 businesses/farms) if they have any outstanding debt on this business/farm. If they do have debt, they are asked how much they still owe. All respondents who report having 1 or more businesses/farms are then asked, for each business/farm (up to 2 businesses/farms) "If you were to sell your business now, how much would you (or your spouse) receive for it?". The value of each business/farm minus the debt owed on each business/farm is included in HwABSNS.

For each question eliciting a value included in HwABSNS, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported not owning any business or farm, HwABSNS has a value of 0.

HwABSNS is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwABSNS was not imputed because the respondent did not complete the section. HwABSNS is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFBSNS is a flag variable indicating whether or not any component of HwABSNS was imputed. A code of 0 indicates that no component of HwABSNS was imputed. A code of 1 indicates that at least one component of HwABSNS was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

There are differences in the questions about businesses/farms. In the HRS the net value of businesses/farms is asked in a single question. In the MHAS, one question is asked about the value and one question is asked about any debt on the business/farm, for each business/farm (up to 2 businesses/farms).

Net value of business in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
   IMAMK3 1
                    total debt business 1 (imputed)
                    total debt business 2 (imputed)
    IMAMK3 2
    IMAMK8 1
                    gross value business 1 (imputed)
   IMAMK8 2
                    gross value business_2 (imputed)
   K3 1IMP
                   if imputed value
                   if imputed value
   K3 2IMP
    K8 1IMP
                    if imputed value
   K8 2IMP
                   if imputed value
Wave 2:
   IMAMK3 1
                   total debt business 1 (imputed)
    IMAMK3 2
                   total debt business 2 (imputed)
    IMAMK8_1
                   gross value business_1 (imputed)
                    gross value business 2 (imputed)
    IMAMK8 2
   K3 1IMP
                    if imputed value
   K3 2IMP
                    if imputed value
   K8 1IMP
                    if imputed value
   K8 2IMP
                   if imputed value
Wave 3:
   IMAMK4 1 12
                   Total debt business 1 (imputed)
                   Total debt business 2 (imputed)
    IMAMK4 2 12
    IMAMK8 1 12
                    Gross value business 1 (imputed)
   IMAMK8 2 12
                    Gross value business 2 (imputed)
   K4 1 IMP 12
                    Total debt business 1 (Flag if imputed value)
   K4_2_IMP_12
                    Total debt business 2 (Flag if imputed value)
   K8_1_IMP_12
                    Gross value business_1 (Flag if imputed value)
   K8_2_IMP_12
                    Gross value business 2 (Flag if imputed value)
Wave 4:
    IMAMK4 1 15
                    Total debt business_1 (imputed)
    IMAMK4_2_15
                    Total debt business 2 (imputed)
    IMAMK8 1 15
                    Gross value business 1 (imputed)
    IMAMK8 2 15
                    Gross value business 2 (imputed)
   K4_1_IMP_15
                    Total debt business \overline{1} (Flag if imputed value)
    K4 2 IMP 15
                    Total debt business 2 (Flag if imputed value)
   K8 1 IMP 15
                    Gross value business 1 (Flag if imputed value)
```

K8_2_IMP_15	Gross value business_2 (Flag if imputed value)
Wave 5:	
IMAMK4 1 18	Total debt business 1 (imputed)
IMAMK4 2 18	Total debt business 2 (imputed)
IMAMK8 1 18	Gross value business 1 (imputed)
IMAMK8_2_18	Gross value business_2 (imputed)
K4 1 IMP 18	Total debt business 1 (Flag if imputed value)
K4 2 IMP 18	Total debt business 2 (Flag if imputed value)
K8 1 IMP 18	Gross value business 1 (Flag if imputed value)
K8_2_IMP_18	Gross value business_2 (Flag if imputed value)

Value of Stocks, Shares, and Bonds

Wave	Variable	Label	Type
1	H1ABDSTK	hlabdstk:wl assets: bonds and stocks	Cont
2	H2ABDSTK	h2abdstk:w2 assets: bonds and stocks	Cont
3	H3ABDSTK	h3abdstk:w3 assets: bonds and stocks	Cont
4	H4ABDSTK	h4abdstk:w4 assets: bonds and stocks	Cont
5	H5ABDSTK	h5abdstk:w5 assets: bonds and stocks	Cont
1	H1AFBDSTK	hlafbdstk:wl asst flag: bonds and stocks	Categ
2	H2AFBDSTK	h2afbdstk:w2 asst flag: bonds and stocks	Categ
3	H3AFBDSTK	h3afbdstk:w3 asst flag: bonds and stocks	Categ
4	H4AFBDSTK	h4afbdstk:w4 asst flag: bonds and stocks	Categ
5	H5AFBDSTK	h5afbdstk:w5 asst flag: bonds and stocks	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ABDSTK	15636	166.27	5963.00	0.00	600000.00
H2ABDSTK	14032	719.16	22992.38	0.00	1000000.00
H3ABDSTK	15723	1560.39	46639.88	0.00	1500000.00
H4ABDSTK	14911	10264.52	436066.37	0.00	35000000.00
H5ABDSTK	17306	5240.00	157670.01	0.00	5000000.00
H1AFBDSTK	15695	-0.00	0.07	-1.00	1.00
H2AFBDSTK	14063	-0.00	0.06	-1.00	1.00
H3AFBDSTK	15723	0.01	0.08	0.00	1.00
H4AFBDSTK	14945	0.00	0.09	-1.00	1.00
H5AFBDSTK	17326	0.00	0.07	-1.00	1.00

Categorical Variable Codes

Value		H1AFBDSTK	H2AFBDSTK	H3AFBDSTK	H4AFBDSTK	H5AFBDSTK
-1.No Imput:section not complete		59	31		34	20
0.Not imputed		15617	14020	15632	14820	17252
1.Imputed	1	19	12	91	91	54

How Constructed

HwABDSTK captures the value of stocks, shares, and bonds at the household level. HwABDSTK includes the value of any stocks, company share, or bonds.

The informant for the subject or the couple is asked "Do you (and/or your spouse) have stocks, company shares or bonds?". If the respondent answers yes, they are then asked if "Adding up all these accounts, what is the approximate total value?". HwABDSTK captures this reported value of stocks, shares, and bonds.

For the question eliciting a value used in HwABDSTK, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackPlease see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported not having any stocks, shares, or bonds, HwABDSTK has a value of 0.

HwABDSTK is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwABDSTK was not imputed because the respondent did not complete the section. HwABDSTK is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFBDSTK is a flag variable indicating whether or not any component of HwABDSTK was imputed. A code of 0 indicates that no component of HwABDSTK was imputed. A code of 1 indicates that at least one component of HwABDSTK was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

HWABDSTK is a summary variable, which is specific to MHAS, and is not available in the RAND HRS. In the RAND HRS, the value of shares of stock or stock mutual funds is captured in HwASTCK, the value of CDs, government savings bonds, and treasures bills is captured in HwACD, the net value of corporate, municipal, government, or foreign bonds, or any bond funds is captured in HwABOND.

The MHAS elicits the value of CD's in the same question as the value of checking and savings accounts, this value is captured in HwACHCK.

The MHAS does not specifically elicit the value of mutual funds though MHAS does ask respondents to report any other assets not specifically asked, this value is captured in HwAOTHR.

Value of stocks, shares, and bonds in MHAS is measured in nominal pesos, whereas the equivalent measures in RAND HRS are in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAMK29C
                    net capital assets 3 (imputed)
    K29CIMP
                    if imputed value
Wave 2:
    IMAMK31 3
                    net capital assets 3 (imputed)
    K31 3IMP
                    if imputed value
Wave 3:
    IMAMK33 3 12
                    Net value capital assets 3 (imputed)
                    Net value capital assets 3 (Flag if imputed value)
    K33_3_IMP_12
Wave 4:
    IMAMK33 3 15
                    Net value capital assets 3 (imputed)
    K33 3 IMP 15
                    Net value capital assets 3 (Flag if imputed value)
Wave 5:
    IMAMK33 3 18
                    Net value capital assets 3 (imputed)
                    Net value capital assets 3 (Flag if imputed value)
    K33 3 IMP 18
```

Value of Checking, Savings Accounts

Wave	Variable	Label	Type
1	H1ACHCK	hlachck:wl assets: checking, savings acct	Cont
2	H2ACHCK	h2achck:w2 assets: checking, savings acct	Cont
3	H3ACHCK	h3achck:w3 assets: checking, savings acct	Cont
4	H4ACHCK	h4achck:w4 assets: checking, savings acct	Cont
5	H5ACHCK	h5achck:w5 assets: checking, savings acct	Cont
1	H1AFCHCK	hlafchck:wl asst flag: checking,savings acct	Categ
2	H2AFCHCK	h2afchck:w2 asst flag: checking, savings acct	Categ
3	H3AFCHCK	h3afchck:w3 asst flag: checking, savings acct	Categ
4	H4AFCHCK	h4afchck:w4 asst flag: checking, savings acct	Categ
5	H5AFCHCK	h5afchck:w5 asst flag: checking, savings acct	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ACHCK	15636	6687.66	36834.36	0.00	777776.00
H2ACHCK	14032	25572.37	199587.49	0.00	7777776.00
H3ACHCK	15723	12378.21	125786.38	0.00	5000000.00
H4ACHCK	14911	22870.65	241273.12	0.00	10000000.00
Н5АСНСК	17306	12468.55	111553.36	0.00	8000000.00
H1AFCHCK	15695	0.03	0.19	-1.00	1.00
H2AFCHCK	14063	0.02	0.16	-1.00	1.00
H3AFCHCK	15723	0.03	0.18	0.00	1.00
H4AFCHCK	14945	0.02	0.17	-1.00	1.00
H5AFCHCK	17326	0.03	0.17	-1.00	1.00

Categorical Variable Codes

Value		H1AFCHCK	H2AFCHCK	H3AFCHCK	H4AFCHCK	H5AFCHCK
-1.No Imput:section not complete	i	59	31		34	20
0.Not imputed	i	15114	13678	15216	14525	16837
1.Imputed	j	522	354	507	386	469

How Constructed

HWACHCK captures the value of checking or savings account or fixed investment at the household level. HWACHCK includes the value of any checking or savings account or fixed investment.

The informant for the subject or the couple is asked "Do you (and/or your spouse) have checking or saving accounts, or fixed investment?". If the respondent answers yes, they are then asked if "Adding up all these accounts, what is the approximate total value?". HwACHCK captures this reported value of checking or savings account or fixed investment.

For the question eliciting a value used in HwACHCK, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported not having any checking or savings account or fixed investment, HWACHCK has a value of 0.

HWACHCK is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwACHCK was not imputed because the respondent did not complete

the section. HwACHCK is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFCHCK is a flag variable indicating whether or not any component of HwACHCK was imputed. A code of 0 indicates that no component of HwACHCK was imputed. A code of 1 indicates that at least one component of HwACHCK was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are asked the value of checking, savings, or money market funds. In the MHAS, respondents are asked the value of checking, savings, and fixed investments. In the RAND HRS, fixed investments in the form of CDs are captured in HwACD.

The MHAS does not specifically elicit the value of money market funds though MHAS does ask respondents to report any other assets not specifically asked, this value is captured in HwAOTHR.

Net value of checking and savings account in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAMK29A
                    net capital assets 1 (imputed)
   K29AIMP
                    if imputed value
Wave 2:
    IMAMK31 1
                    net capital assets 1 (imputed)
    K31 1IMP
                    if imputed value
Wave 3:
    IMAMK33 1 12
                    Net value capital assets 1 (imputed)
    K33 1 IMP 12
                    Net value capital assets 1 (Flag if imputed value)
Wave 4:
    IMAMK33 1 15
                    Net value capital assets 1 (imputed)
    K33 1 IMP 15
                    Net value capital assets 1 (Flag if imputed value)
Wave 5:
    IMAMK33 1 18
                    Net value capital assets 1 (imputed)
                    Net value capital assets 1 (Flag if imputed value)
    K33 1 IMP 18
```

Value of Other Assets

Wave	Variable	Label	Type
1	H1AOTHR	hlaothr:w1 assets: other assets	Cont
2	H2AOTHR	h2aothr:w2 assets: other assets	Cont
3	H3AOTHR	h3aothr:w3 assets: other assets	Cont
4	H4AOTHR	h4aothr:w4 assets: other assets	Cont
5	H5AOTHR	h5aothr:w5 assets: other assets	Cont
1	H1AFOTHR	hlafothr:wl asst flag: other assets	Categ
2	H2AFOTHR	h2afothr:w2 asst flag: other assets	Categ
3	H3AFOTHR	h3afothr:w3 asst flag: other assets	Categ
4	H4AFOTHR	h4afothr:w4 asst flag: other assets	Categ
5	H5AFOTHR	h5afothr:w5 asst flag: other assets	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AOTHR	15636	48759.01	155225.25	0.00	7000000.00
H2AOTHR	14032	42499.68	140978.47	0.00	5000000.00
H3AOTHR	15723	113818.13	375923.99	0.00	9000000.00
H4AOTHR	14911	92546.07	286835.82	0.00	8000000.00
H5AOTHR	17306	135532.37	405799.23	0.00	9000000.00
H1AFOTHR	15695	0.25	0.44	-1.00	1.00
H2AFOTHR	14063	0.23	0.43	-1.00	1.00
H3AFOTHR	15723	0.30	0.46	0.00	1.00
H4AFOTHR	14945	0.23	0.42	-1.00	1.00
H5AFOTHR	17326	0.24	0.43	-1.00	1.00

Categorical Variable Codes

Value	1	H1AFOTHR	H2AFOTHR	H3AFOTHR	H4AFOTHR	H5AFOTHR
Varac	1	111111 0 11111	112711 0 1 1111	113/11 0 11110	11-1711 () 11111(115711 0 11110
-1.No Imput:section not complete		59	31		34	20
0.Not imputed		11717	10749	11004	11486	13188
1.Imputed		3919	3283	4719	3425	4118

How Constructed

 ${\tt HwAOTHR}$ captures the value of other assets at the household level. ${\tt HwAOTHR}$ includes the value of all assets not already mentioned.

The informant for the subject or the couple is asked "In case of a family emergency in which you had to sell all the assets you have not mentioned, about how much money would you receive?". HwAOTHR captures this reported value of all assets not already mentioned.

For the question eliciting a value used in HwAOTHR, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

HwAOTHR is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwAOTHR was not imputed because the respondent did not complete the section. HwAOTHR is set to blank missing (.) if the respondent did not participate in the current wave.

 ${\tt HwAFOTHR}$ is a flag variable indicating whether or not any component of ${\tt HwAOTHR}$ was imputed. A code of 0 indicates that no component of ${\tt HwAOTHR}$ was imputed. A code of 1 indicates that at least one component of ${\tt HwAOTHR}$ was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are asked to report the value of "any other savings or assets, such as jewelry, money owed to you by others, a collection for investment purposes, rights in a trust or estate where you are the beneficiary, or an annuity that you haven't already told me about? [EXCLUDE THE CASH VALUE OF ANY LIFE INSURANCE POLICIES.]". In the MHAS, respondents are asked to report the value they would receive "In case of a family emergency in which you had to sell all the assets you have not mentioned". This difference implies that what is captured in HwAOTHR in the Harmonized MHAS might differ conceptually from what is captured by HwAOTHR in the RAND HRS.

Value of other assets in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Wave 1: IMAMK42	not realize other posses (famous ed)
TMAMK42 K42TMP	<pre>net value other assets (imputed) if imputed value</pre>
Wave 2:	II Impuoda valad
IMAMK44	net value other assets (imputed)
K44IMP	if imputed value
Wave 3:	
IMAMK44_12	Net value other assets (imputed)
K44_IMP_12	Net value other assets (Flag if imputed value)
Wave 4:	
IMAMK44 15	Net value other assets (imputed)
K44_IMP_15	Net value other assets (Flag if imputed value)
Wave 5:	
IMAMK44_18	Net value other assets (imputed)
K44_IMP_18	Net value other assets (Flag if imputed value)

Value of Primary Residence

Wave	Variable	Label	Type
1	H1AHOUS	hlahous:wl value of house/prim res	Cont
2	H2AHOUS	h2ahous:w2 value of house/prim res	Cont
3	H3AHOUS	h3ahous:w3 value of house/prim res	Cont
4	H4AHOUS	h4ahous:w4 value of house/prim res	Cont
5	H5AHOUS	h5ahous:w5 value of house/prim res	Cont
1	H1AFHOUS	hlafhous:wl flag: value of house/prim res	Categ
2	H2AFHOUS	h2afhous:w2 flag: value of house/prim res	Categ
3	H3AFHOUS	h3afhous:w3 flag: value of house/prim res	Categ
4	H4AFHOUS	h4afhous:w4 flag: value of house/prim res	Categ
5	H5AFHOUS	h5afhous:w5 flag: value of house/prim res	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AHOUS	15644	205048.74	328285.42	0.00	7777776.00
H2AHOUS	14035	255614.21	377413.16	0.00	7777776.00
H3AHOUS	15723	546615.33	751852.54	0.00	9000000.00
H4AHOUS	14911	921868.10	1871874.56	0.00	40000000.00
H5AHOUS	17306	647216.12	809818.93	0.00	9800000.00
H1AFHOUS	15697	0.29	0.46	-1.00	1.00
H2AFHOUS	14064	0.31	0.47	-1.00	1.00
H3AFHOUS	15723	0.41	0.49	0.00	1.00
H4AFHOUS	14945	0.30	0.46	-1.00	1.00
H5AFHOUS	17326	0.36	0.48	-1.00	1.00

Categorical Variable Codes

Value	H1AFHOUS	H2AFHOUS	H3AFHOUS	H4AFHOUS	H5AFHOUS
-1.No Imput:section not complete	53	29		34	20
0.Not imputed	11092	9596	9211	10426	10985
1.Imputed	4552	4439	6512	4485	6321

How Constructed

HwAHOUS captures the value of the primary residence at the household level. HwAHOUS includes the value of the lot and the house of the primary residence.

The informant for the subject or the couple is asked "This house/housing unit is rented, borrowed, your property or currently paying it off, or other?". If the respondent answers that the residence is borrowed, their property or currently paying it off, or other, they are then asked "Whose name appears on the property title?". If the respondent reported that either their, their spouse's names, or a relative's name (or any combination) is on the title of the residence or that there is no title, the respondent is then asked "About how much do you think your property is worth, including the lot and house? Or if it were sold today, about how much money would you receive from its sale?". HwAHOUS captures this reported value of the primary residence.

For the question eliciting a value used in HwAHOUS, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported that the residence was rented or that the name on the property title was only the name of a non-relative, HwAHOUS has a value of 0.

HwAHOUS is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwAHOUS was not imputed because the respondent did not complete the section. HwAHOUS is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFHOUS is a flag variable indicating whether or not any component of HwAHOUS was imputed. A code of 0 indicates that no component of HwAHOUS was imputed. A code of 1 indicates that at least one component of HwAHOUS was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are not asked about the names on the property title of the residence and every respondent who reported owning all or part of their residence are asked the value of the residence. In the MHAS, respondents who report that the name on the property title was only the name of a non-relative are not asked the value of the residence.

Value of primary residence in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

Wave 1.

gross value houses/apartments	(imputed)
if imputed value	
gross value houses/apartments	(imputed)
if imputed value	
Gross value houses/apartments	(imputed)
Gross value houses/apartments	(Flag if imputed value)
Gross value houses/apartments	(imputed)
Gross value houses/apartments	(Flag if imputed value)
	gross value houses/apartments

Value of All Mortgages (Primary Residence)

Wave	e Variable	Label	Type
1	H1AMORT	hlamort:wl value of mortgage/prim res	Cont
2	H2AMORT	h2amort:w2 value of mortgage/prim res	Cont
3	H3AMORT	h3amort:w3 value of mortgage/prim res	Cont
4	H4AMORT	h4amort:w4 value of mortgage/prim res	Cont
5	H5AMORT	h5amort:w5 value of mortgage/prim res	Cont
1	H1AFMORT	hlafmort:wl flag: value of mortgage/prim res	Categ
2	H2AFMORT	h2afmort:w2 flag: value of mortgage/prim res	Categ
3	H3AFMORT	h3afmort:w3 flag: value of mortgage/prim res	Categ
4	H4AFMORT	h4afmort:w4 flag: value of mortgage/prim res	Categ
5	H5AFMORT	h5afmort:w5 flag: value of mortgage/prim res	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AMORT	15644	3424.89	32322.20	0.00	1300000.00
H2AMORT	14035	3851.03	34678.07	0.00	1500000.00
H3AMORT	15723	9739.43	113558.00	0.00	4200000.00
H4AMORT	14911	7599.42	52116.17	0.00	1000000.00
H5AMORT	17306	16381.70	120578.84	0.00	6000000.00
H1AFMORT	15697	0.02	0.16	-1.00	1.00
H2AFMORT	14064	0.01	0.14	-1.00	1.00
H3AFMORT	15723	0.01	0.12	0.00	1.00
H4AFMORT	14945	0.01	0.11	-1.00	1.00
H5AFMORT	17326	0.02	0.15	-1.00	1.00

Categorical Variable Codes

Value		H1AFMORT	H2AFMORT	H3AFMORT	H4AFMORT	H5AFMORT
-1.No Imput:section not complete	i	53	29		34	20
0.Not imputed	İ	15280	13801	15508	14755	16946
1.Imputed	1	364	234	215	156	360

How Constructed

 ${\tt HwAMORT}$ captures the value of mortgages on the primary residence at the household level. ${\tt HwAMORT}$ includes the value still owed on the residence.

The informant for the subject or the couple is asked "This house/housing unit is rented, borrowed, your property or currently paying it off, or other?". If the respondent answers that the residence is borrowed, their property or currently paying it off, or other, they are then asked "Whose name appears on the property title?". If the respondent reported that either their, their spouse's names, or a relative's name (or any combination) is on the title of the residence or that there is no title, the respondent is then asked "This house is completely paid off, being paid to the bank, being paid to relatives or friends, being paid to the bank and to relatives and friends, "irregular", or being regularized". If the respondent gives any response other than "this house is completely paid off", they are then asked "Including all the mortgages and loans from the bank and/or family and friends, about how much do you pay for your house per month?" If the respondent answers any non-zero value, they are then asked "About how much money do you still owe on your house?". HwAMORT captures this reported value of how much money is still owed on the primary residence.

For the question eliciting a value used in HwAMORT, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study

website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported that the residence was rented, that the name on the property title was only the name of a non-relative, that the house was completely paid off, or that the respondent does not make any monthly payments on the residence, HwAMORT has a value of 0.

HwAMORT is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwAMORT was not imputed because the respondent did not complete the section. HwAMORT is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFMORT is a flag variable indicating whether or not any component of HwAMORT was imputed. A code of 0 indicates that no component of HwAMORT was imputed. A code of 1 indicates that at least one component of HwAMORT was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are not asked about the names on the property title of the residence and every respondent who reported owning all or part of their residence are asked the value of the residence. In the MHAS, respondents who report that the name on the property title was only the name of a non-relative are not asked the value of the residence.

Also different, the HRS does not ask respondents whether their residence is completely paid off as does MHAS, instead the HRS asks whether they have a mortgage, land contract, second mortgage, or any other type of loan that uses the property as collateral.

Similarly different from MHAS, if the respondent in the HRS reports having a mortgage but not making any monthly payments, they are still asked the amount of the mortgage.

One more important difference between the MHAS and HRS is that the HRS asks separately about the 1st mortgage, 2nd mortgage and other loans. In MHAS there is one question eliciting the value of everything still owed on the residence.

Value of outstanding primary housing debt in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
                    total debt houses/apartments (imputed)
    IMAMJ20
    J20IMP
                    if imputed value
Wave 2:
    IMAMJ28
                    total debt houses/apartments (imputed)
    J28IMP
                    if imputed value
Wave 3:
    IMAMJ28 12
    J28 IMP 12
Wave 4:
    IMAMJ28 15
                    Total debt houses/apartments (imputed)
    J28 IMP 15
                    Total debt houses/apartments (Flag if imputed value)
Wave 5:
    IMAMJ28 18
                    Total debt houses/apartments (imputed)
    J28_IMP 18
                    Total debt houses/apartments (Flag if imputed value)
```

Net Value of Primary Residence

Wave	Variable	Label	Type
1	H1ATOTH	hlatoth:wl net value of house/prim res	Cont
2	H2ATOTH	h2atoth:w2 net value of house/prim res	Cont
3	H3ATOTH	h3atoth:w3 net value of house/prim res	Cont
4	H4ATOTH	h4atoth:w4 net value of house/prim res	Cont
5	Н5АТОТН	h5atoth:w5 net value of house/prim res	Cont
1	H1AFTOTH	hlaftoth:wl flag: net value of house/prim res	Categ
2	H2AFTOTH	h2aftoth:w2 flag: net value of house/prim res	Categ
3	H3AFTOTH	h3aftoth:w3 flag: net value of house/prim res	Categ
4	H4AFTOTH	h4aftoth:w4 flag: net value of house/prim res	Categ
5	H5AFTOTH	h5aftoth:w5 flag: net value of house/prim res	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTH H2ATOTH	15644 14035	201623.85 251763.18	327254.71 376271.31	-600000.00 -709489.19	7777776.00
НЗАТОТН	15723	536875.90	757008.92	-4100000.00	9000000.00
Н4АТОТН Н5АТОТН	14911 17306	914268.68 630834.41	1869773.82 811619.82	-313673.56 -4800000.00	40000000.00
H1AFTOTH	15697	0.29	0.46	-1.00	1.00
H2AFTOTH	14064	0.32	0.47	-1.00	1.00
H3AFTOTH	15723	0.42	0.49	0.00	1.00
H4AFTOTH	14945	0.30	0.46	-1.00	1.00
H5AFTOTH	17326	0.37	0.49	-1.00	1.00

Categorical Variable Codes

Value	1	H1AFTOTH	H2AFTOTH	H3AFTOTH	H4AFTOTH	H5AFTOTH
-1.No Imput:section not complete	1	E 2	2.0		2.4	20
-1.No imput:section not complete	- 1	33	29		34	20
0.Not imputed	1	10977	9523	9123	10340	10820
1.Imputed	1	4667	4512	6600	4571	6486

How Constructed

HWATOTH captures the household's net value of the primary residence and is based on information from:

Value of the primary residence, as previously described

Value of mortgages on the primary residence, as previously described

HwATOTH is constructed as the sum of the value of the primary residence minus the value of the mortgage on the primary residence: (Value of the primary residence - Value of mortgages on the primary residence). Both components of this variable are constructed at the household level and include imputed values. In MHAS, the household is a couple or a single person. Special missing .m is used if at least one component of HwATOTH was not imputed because the respondent did not complete the section. HwATOTH is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFTOTH is a flag variable based on the original flag variables (previously defined as HwAFHOUS and HwAFMORT), indicating whether or not any component of HwATOTH was imputed. A code of 0 indicates that no component of HwATOTH was imputed. A code of 1 indicates that at least one component of HwATOTH was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Net value of primary residence in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAMJ14
                    gross value houses/apartments (imputed)
    IMAMJ20
                    total debt houses/apartments (imputed)
                    if imputed value
    J14IMP
                    if imputed value
    J20IMP
Wave 2:
    IMAMJ28
                    total debt houses/apartments (imputed)
                    gross value houses/apartments (imputed)
    IMAMJ31
    J28IMP
                    if imputed value
    J31IMP
                    if imputed value
Wave 3:
    IMAMJ28 12
    IMAMJ31_12
    J28_IMP_12
    J31 IMP 12
Wave 4:
    IMAMJ28 15
                    Total debt houses/apartments (imputed)
    IMAMJ31 15
                    Gross value houses/apartments (imputed)
    J28 IMP 15
                    Total debt houses/apartments (Flag if imputed value)
    J31_IMP_15
                    Gross value houses/apartments (Flag if imputed value)
Wave 5:
    IMAMJ28 18
                    Total debt houses/apartments (imputed)
                    Gross value houses/apartments (imputed)
    IMAMJ31 18
    J28 IMP 18
                    Total debt houses/apartments (Flag if imputed value)
    J31 IMP 18
                    Gross value houses/apartments (Flag if imputed value)
```

Home ownership

Wave	Variable	Label	Туре
1	H1HOWNRNT	hlhownrnt:wl home ownership	Categ
2	H2HOWNRNT	h2hownrnt:w2 home ownership	Categ
3	H3HOWNRNT	h3hownrnt:w3 home ownership	Categ
4	H4HOWNRNT	h4hownrnt:w4 home ownership	Categ
5	H5HOWNRNT	h5hownrnt:w5 home ownership	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1HOWNRNT	15631	1.25	0.61	1.00	3.00
H2HOWNRNT	14023	1.22	0.59	1.00	3.00
H3HOWNRNT	15582	1.22	0.59	1.00	3.00
H4HOWNRNT	14878	1.18	0.54	1.00	3.00
H5H0WNRNT	17286	1.29	0.67	1.00	3.00

Categorical Variable Codes

Value		H1HOWNRNT	H2HOWNRNT	H3HOWNRNT	H4HOWNRNT	H5H0WNRNT
.d:DK		6	10	120	26	8
.m:Missing		53	29		34	20
.r:Refuse		7	2	21	7	12
1.Owned		13250	12154	13574	13237	14432
2.Rented		924	627	658	590	758
3.Other arrangement	1	1457	1242	1350	1051	2096

How Constructed

HwHOWNRNT captures home ownership. It indicates if the residence is (1) owned, (2) rented, or (3) other arrangement. The informant for the subject or the couple is asked "This house/housing unit is...Rented? Borrowed or transferred without payment? Private property or currently paying it off? Other". If the respondent answers that the residence is borrowed, they are currently paying it off, or other, they are then asked "Whose name appears on the property title?". HwHOWNRNT is assigned a code of 1 if the respondent reported that the home is private property or currently being paid off or the respondent, their spouse, the respondent and their spouse, or the respondent and/or spouse and other family members are on the property title. HwHOWNRNT is assigned a code of 2 if the house is rented. HwHOWNRNT is assigned a code of 3 if the house is borrowed or transferred without payment or there is another arrangement. Don't know, refused, or other missing values are assigned special missing values .d, .r, .m, respectively. HwHOWNRNT is assigned blank missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, in the MHAS, HwHOWNRNT also considers if the title of the property is under the name of the subject, the spouse, or the couple.

wave 1:						
J11	housing te	nur	e			
J14	property t	itl	.e			
Wave 2:						
J19	residence :	is	rented,	owned,	or	other

Value of Other Debt

Wave	Variable	Label	Type
1	H1ADEBT	hladebt:wl assets: debts	Cont
2	H2ADEBT	h2adebt:w2 assets: debts	Cont
3	H3ADEBT	h3adebt:w3 assets: debts	Cont
4	H4ADEBT	h4adebt:w4 assets: debts	Cont
5	H5ADEBT	h5adebt:w5 assets: debts	Cont
1	H1AFDEBT	hlafdebt:w1 asst flag: debts	Categ
2	H2AFDEBT	h2afdebt:w2 asst flag: debts	Categ
3	H3AFDEBT	h3afdebt:w3 asst flag: debts	Categ
4	H4AFDEBT	h4afdebt:w4 asst flag: debts	Categ
5	H5AFDEBT	h5afdebt:w5 asst flag: debts	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ADEBT	15636	1614.87	13074.55	0.00	500000.00
H2ADEBT	14032	2147.39	22600.44	0.00	1600000.00
H3ADEBT	15723	4547.94	39211.32	0.00	2000000.00
H4ADEBT	14911	6068.11	50835.15	0.00	3500000.00
H5ADEBT	17306	10759.82	87189.89	0.00	5000000.00
H1AFDEBT	15695	0.00	0.11	-1.00	1.00
H2AFDEBT	14063	0.01	0.10	-1.00	1.00
H3AFDEBT	15723	0.01	0.11	0.00	1.00
H4AFDEBT	14945	0.01	0.12	-1.00	1.00
H5AFDEBT	17326	0.02	0.14	-1.00	1.00

Categorical Variable Codes

Value		H1AFDEBT	H2AFDEBT	H3AFDEBT	H4AFDEBT	H5AFDEBT
-1.No Imput:section not complete	1	59	31		34	20
0.Not imputed	1	15502	13915	15535	14733	16980
1.Imputed	1	134	117	188	178	326

How Constructed

HWADEBT captures the value of other debt at the household level. HWADEBT includes the value of any others debts, such as credit cards, medical debts, loans on life insurance, family loans or others.

The informant for the subject or the couple is asked "Do you (or your spouse) have any debts which we have not asked about, such as credit cards, medical debts, loans on life insurance, family loans or others?". If the respondent answers yes, they are then asked if "Taking all these into account, about how much do you owe?". HwADEBT captures this reported value of amount owed.

For the question eliciting a value used in HwADEBT, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported not having any other debt, HwADEBT has a value of 0.

HWADEBT is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwADEBT was not imputed because the respondent did not complete

the section. HwADEBT is set to blank missing (.) if the respondent did not participate in the current wave.

 ${\tt HWAFDEBT}$ is a flag variable indicating whether or not any component of ${\tt HWADEBT}$ was imputed. A code of 0 indicates that no component of ${\tt HWADEBT}$ was imputed. A code of 1 indicates that at least one component of ${\tt HWADEBT}$ was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Value of other debt in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

Wave 1:

IMAM82 K82IMP	other debts (imputed) if imputed value
Wave 2:	-
IMAMK85	other debts (imputed)
K85IMP	if imputed value
Wave 3:	
IMAMK86_12	Other debts (imputed)
K86_IMP_12	Other debts (Flag if imputed value)
Wave 4:	
IMAMK86_15	Other debts (imputed)
K86_IMP_15	Other debts (Flag if imputed value)
Wave 5:	
IMAMK86_18	Other debts (imputed)
K86_IMP_18	Other debts (Flag if imputed value)

Value of Loans Lent

Wave	Variable	Label	Type
1	H1ALEND	hlalend:wl assets: loans lent	Cont
2	H2ALEND	h2alend:w2 assets: loans lent	Cont
3	H3ALEND	h3alend:w3 assets: loans lent	Cont
4	H4ALEND	h4alend:w4 assets: loans lent	Cont
5	H5ALEND	h5alend:w5 assets: loans lent	Cont
1	H1AFLEND	h1aflend:w1 asst flag: loans lent	Categ
2	H2AFLEND	h2aflend:w2 asst flag: loans lent	Categ
3	H3AFLEND	h3aflend:w3 asst flag: loans lent	Categ
4	H4AFLEND	h4aflend:w4 asst flag: loans lent	Categ
5	H5AFLEND	h5aflend:w5 asst flag: loans lent	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ALEND	15636	161.15	6519.57	0.00	400000.00
H2ALEND	14032	700.11	27656.30	0.00	2000000.00
H3ALEND	15723	558.43	13812.79	0.00	900000.00
H4ALEND	14911	1666.94	115962.71	0.00	10000000.00
H5ALEND	17306	288.91	8622.77	0.00	600000.00
H1AFLEND	15695	-0.00	0.06	-1.00	1.00
H2AFLEND	14063	-0.00	0.05	-1.00	1.00
H3AFLEND	15723	0.01	0.08	0.00	1.00
H4AFLEND	14945	0.00	0.09	-1.00	1.00
H5AFLEND	17326	0.00	0.06	-1.00	1.00

Categorical Variable Codes

Value		H1AFLEND	H2AFLEND	H3AFLEND	H4AFLEND	H5AFLEND
-1.No Imput:section not complete	İ	59	31		34	20
0.Not imputed	İ	15631	14026	15619	14834	17258
1.Imputed	1	5	6	104	77	48

How Constructed

 ${\tt HwALEND}$ captures the value of other debt at the household level. ${\tt HwALEND}$ includes the value of loans made out to others.

The informant for the subject or the couple is asked "Do you (and/or your spouse) have loans made out to others?". If the respondent answers yes, they are then asked if "Adding up all these accounts, what is the approximate total value?". HwALEND captures this reported value of loans made out to others.

For the question eliciting a value used in HwALEND, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.mhasweb.org for more details on the imputation method used, variables imputed, and covariates included.

In the case that the respondent reported not having any loans made out to others, HwALEND has a value of 0.

HWALEND is derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwALEND was not imputed because the respondent did not complete

the section. HwALEND is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFLEND is a flag variable indicating whether or not any component of HwALEND was imputed. A code of 0 indicates that no component of HwALEND was imputed. A code of 1 indicates that at least one component of HwALEND was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

This variable is not included in RAND HRS.

```
Wave 1:
   IMAMK29B
                  net capital assets 2 (imputed)
   K29BIMP
                   if imputed value
Wave 2:
   IMAMK31 2
                  net capital assets_2 (imputed)
   K31 2IMP
                   if imputed value
Wave 3:
    IMAMK33 2 12
                   Net value capital assets_2 (imputed)
                   Net value capital assets 2 (Flag if imputed value)
   K33 2 IMP 12
Wave 4:
    IMAMK33 2 15
                    Net value capital assets 2 (imputed)
                   Net value capital assets 2 (Flag if imputed value)
   K33 2 IMP 15
Wave 5:
   IMAMK33_2 18
                   Net value capital assets 2 (imputed)
                   Net value capital assets_2 (Flag if imputed value)
    K33 2 IMP 18
```

Net Value of Non-Housing Financial Wealth (Excluding IRAs)

Wave	Variable	Label	Туре
1	H1ATOTF	hlatotf:wl non-housing financial wealth	Cont
2	H2ATOTF	h2atotf:w2 non-housing financial wealth	Cont
3	H3ATOTF	h3atotf:w3 non-housing financial wealth	Cont
4	H4ATOTF	h4atotf:w4 non-housing financial wealth	Cont
5	H5ATOTF	h5atotf:w5 non-housing financial wealth	Cont
1	H1AFTOTF	hlaftotf:wl flag: non-housing financial wealth	Categ
2	H2AFTOTF	h2aftotf:w2 flag: non-housing financial wealth	Categ
3	H3AFTOTF	h3aftotf:w3 flag: non-housing financial wealth	Categ
4	H4AFTOTF	h4aftotf:w4 flag: non-housing financial wealth	Categ
5	H5AFTOTF	h5aftotf:w5 flag: non-housing financial wealth	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTF	15636	54159.22	166419.37	-312375.28	7000000.00
H2ATOTF	14032	67343.94	282598.13	-1560000.00	9777776.00
H3ATOTF	15723	123767.21	410467.39	-1734339.25	9000000.00
H4ATOTF	14911	121280.08	618240.80	-2921027.50	37117728.00
H5ATOTF	17306	142770.01	461210.76	-3000000.00	9000000.00
H1AFTOTF	15695	0.27	0.45	-1.00	1.00
H2AFTOTF	14063	0.25	0.44	-1.00	1.00
H3AFTOTF	15723	0.32	0.47	0.00	1.00
H4AFTOTF	14945	0.25	0.44	-1.00	1.00
H5AFTOTF	17326	0.26	0.44	-1.00	1.00

Categorical Variable Codes

Value		H1AFTOTF	H2AFTOTF	H3AFTOTF	H4AFTOTF	H5AFTOTF
-1.No Imput:section not complete		59	31		34	20
O.Not imputed		11363	10468	10711	11191	12735
1.Imputed		4273	3564	5012	3720	4571

How Constructed

HwATOTF captures the household's net value of non-housing financial wealth and is based on information from:

Value of bonds, shares, and stocks, as previously described

Value of checking, savings accounts, as previously described

Value of other assets, as previously described

Value of loans lent, as previously described

Value of other debts, as previously described

HwATOTF is constructed as the sum of the different wealth components minus the debt component: (Value of bonds, shares, and stocks + Value of checking, savings accounts + Value of other assets + Value of loans lent - Value of other debts). All the components of this variable are constructed at the household level and include imputed values. In MHAS, the household is a couple or a single person. Special missing .m is used if at least one component of HwATOTF was not imputed because the respondent did not complete the section. HwATOTF is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFTOTF is a flag variable based on the original flag variables (previously defined as HWABFDSTK, HWAFCHCK, HWAFOTHR, HWAFLEND, HWAFDEBT), indicating whether or not any component of HWATOTF was imputed. A code of 0 indicates that no component of HWATOTF was imputed. A code of 1 indicates that at least one component of HWATOTF was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Note: This total does NOT include the value of any real estate, vehicles, or businesses.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

See individual components.

Net value of non-housing financial wealth in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
                    other debts (imputed)
    IMAM82
    IMAMK29A
                   net capital assets 1 (imputed)
    IMAMK29B
                   net capital assets_2 (imputed)
                    total debt business_1 (imputed)
    IMAMK3 1
    IMAMK3 2
                    total debt business 2 (imputed)
    IMAMK42
                    net value other assets (imputed)
    IMAMK8 1
                   gross value business 1 (imputed)
    IMAMK8 2
                    gross value business 2 (imputed)
                    if imputed value
   K29AIMP
   K29BIMP
                   if imputed value
   K3 1IMP
                   if imputed value
                   if imputed value
   K3 2IMP
    K42IMP
                   if imputed value
    K82IMP
                   if imputed value
    K8 1IMP
                  if imputed value
    K8 2IMP
                   if imputed value
Wave 2:
                net capital assets_1 (imputed)
net capital assets_2 (imputed)
    IMAMK31 1
    IMAMK31 2
                    total debt business 1 (imputed)
    IMAMK3 1
                    total debt business 2 (imputed)
    IMAMK3 2
                  net value other assets (imputed)
    IMAMK44
    IMAMK85
                   other debts (imputed)
                  gross value business_1 (imputed)
    IMAMK8 1
   IMAMK8 2
                   gross value business 2 (imputed)
   K31 1IMP
                   if imputed value
   K31 2IMP
                   if imputed value
   K3 1IMP
                   if imputed value
   K3 2IMP
                   if imputed value
   K44TMP
                   if imputed value
                   if imputed value
    K85IMP
    K8 1IMP
                    if imputed value
                    if imputed value
   K8 2IMP
Wave 3:
    IMAMK33 1 12
                    Net value capital assets 1 (imputed)
    IMAMK33 2 12
                    Net value capital assets 2 (imputed)
    IMAMK44 12
                    Net value other assets (imputed)
    IMAMK4 \overline{1} 12
                    Total debt business 1 (imputed)
    IMAMK4 2 12
                    Total debt business 2 (imputed)
    IMAMK86 12
                    Other debts (imputed)
```

```
IMAMK8 1 12
                    Gross value business 1 (imputed)
    IMAMK8 2 12
                    Gross value business 2 (imputed)
    K33 1 IMP 12
                    Net value capital assets_1 (Flag if imputed value)
    K33 2 IMP 12
                    Net value capital assets 2 (Flag if imputed value)
    K44 IMP 12
                    Net value other assets (Flag if imputed value)
    K4 1 IMP 12
                    Total debt business 1 (Flag if imputed value)
    K4 2 IMP 12
                    Total debt business 2 (Flag if imputed value)
    K86 IMP 12
                    Other debts (Flag if imputed value)
    K8 1 IMP 12
                    Gross value business 1 (Flag if imputed value)
    K8_2_IMP_12
                    Gross value business_2 (Flag if imputed value)
Wave 4:
    IMAMK33_1_15
                    Net value capital assets_1 (imputed)
    IMAMK33_2_15
IMAMK44_15
                    Net value capital assets 2 (imputed)
                    Net value other assets (imputed)
    IMAMK4 1 15
                    Total debt business 1 (imputed)
    IMAMK4 2 15
                    Total debt business 2 (imputed)
    IMAMK86 15
                    Other debts (imputed)
    IMAMK8 1 15
                    Gross value business 1 (imputed)
    IMAMK8 2 15
                    Gross value business 2 (imputed)
   K33 1 IMP 15
                    Net value capital assets 1 (Flag if imputed value)
    K33 2 IMP 15
                    Net value capital assets 2 (Flag if imputed value)
   K44_IMP_15
                    Net value other assets (Flag if imputed value)
    K4 1 IMP 15
                    Total debt business 1 (Flag if imputed value)
    K4 2 IMP 15
                    Total debt business 2 (Flag if imputed value)
   K8\overline{6} IMP \overline{1}5
                    Other debts (Flag if imputed value)
    K8_1_IMP_15
                    Gross value business_1 (Flag if imputed value)
    K8 2 IMP 15
                    Gross value business 2 (Flag if imputed value)
Wave 5:
    IMAMK33 1 18
                    Net value capital assets 1 (imputed)
    IMAMK33<sup>2</sup>18
                    Net value capital assets 2 (imputed)
    IMAMK44_18
                    Net value other assets (imputed)
    IMAMK4 \overline{1} 18
                    Total debt business 1 (imputed)
    IMAMK4 2 18
                    Total debt business 2 (imputed)
    IMAMK86 18
                    Other debts (imputed)
    IMAMK8 1 18
                    Gross value business 1 (imputed)
    IMAMK8 2 18
                    Gross value business 2 (imputed)
    K33_1_IMP_18
                    Net value capital assets_1 (Flag if imputed value)
    K33_2_IMP 18
                    Net value capital assets 2 (Flag if imputed value)
    K44_IMP_18
                    Net value other assets (Flag if imputed value)
    K4_1_IMP_18
                    Total debt business_1 (Flag if imputed value)
    K4_2 IMP 18
                    Total debt business_2 (Flag if imputed value)
    K86 IMP 18
                    Other debts (Flag if imputed value)
    K8_1_IMP_18
K8_2_IMP_18
                    Gross value business 1 (Flag if imputed value)
                    Gross value business 2 (Flag if imputed value)
```

Total Wealth

Wave	Variable	Label	Type
1	H1ATOTB	hlatotb:w1 total all assets inc. 2nd hm	Cont
2	H2ATOTB	h2atotb:w2 total all assets inc. 2nd hm	Cont
3	H3ATOTB	h3atotb:w3 total all assets inc. 2nd hm	Cont
4	H4ATOTB	h4atotb:w4 total all assets inc. 2nd hm	Cont
5	H5ATOTB	h5atotb:w5 total all assets inc. 2nd hm	Cont
1	H1AFTOTB	hlaftotb:w1 flag total all assets inc. 2nd hm	Categ
2	H2AFTOTB	h2aftotb:w2 flag total all assets inc. 2nd hm	Categ
3	H3AFTOTB	h3aftotb:w3 flag total all assets inc. 2nd hm	Categ
4	H4AFTOTB	h4aftotb:w4 flag total all assets inc. 2nd hm	Categ
5	H5AFTOTB	h5aftotb:w5 flag total all assets inc. 2nd hm	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Std Dev Minimum	
н1АТОТВ	15636	395163.75	810017.64	-585000.00	26127040.00
H2ATOTB	14030	471755.19	893168.31	-1655000.00	20478304.00
H3ATOTB	15723	874499.38	1328057.53	-3995500.00	24049140.00
H4ATOTB	14911	1533868.87	3683096.90	-499247.13	110255000.00
H5ATOTB	17306	1023929.33	1413916.38	-3008000.00	21650000.00
H1AFTOTB	15697	0.50	0.51	-1.00	1.00
H2AFTOTB	14064	0.50	0.50	-1.00	1.00
H3AFTOTB	15723	0.57	0.49	0.00	1.00
H4AFTOTB	14945	0.45	0.50	-1.00	1.00
H5AFTOTB	17326	0.53	0.50	-1.00	1.00

Categorical Variable Codes

Value		H1AFTOTB	H2AFTOTB	H3AFTOTB	H4AFTOTB	H5AFTOTB
-1.No Imput:section not complete		59	33		34	20
0.Not imputed		7704	6930	6708	8116	8186
1.Imputed		7934	7101	9015	6795	9120

How Constructed

HWATOTB captures the household's total wealth and is based on information from:

Net value of primary residence, as described previously.

Net value of other real estate, as described previously.

Net value of transportation, as described previously.

Net value of business, as described previously.

Net value of non-housing financial wealth, as described previously.

HwATOTB is constructed as the sum of the different wealth components: (Net value of primary residence + Net value of other real estate + Net value of transportation + Net value of business + Net value of non-housing financial wealth). All the components of this variable are constructed at the household level and include imputed values. In MHAS, the household is a couple or a single person. Special missing .m is used if at least one component of HwATOTB was not imputed because the respondent did not complete the section. HwATOTB is set to blank missing (.) if the respondent did not participate in the current wave.

HWAFTOTB is a flag variable based on the original flag variables (previously defined as HWAFTOTF, HWAFRLES, HWAFTRAN, HWAFBSNS, HWAFTOTF), indicating whether or not any component of HWATOTB was imputed.

A code of 0 indicates that no component of HwATOTB was imputed. A code of 1 indicates that at least one component of HwATOTB was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

See cross wave differences with the Net Value of Real Estate (HwARLES).

Differences with the RAND HRS/Harmonized HRS

See individual components.

HWATOTB in the Harmonized MHAS does not include the value of individual retirement accounts, whereas HWATOTB in the RAND HRS does include the net value of individual retirement accounts. Whether the respondent is paying into an individual retirement account as part of their current job is asked in MHAS but the current amount of the account is not elicited.

Total family wealth in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAM82
                     other debts (imputed)
    IMAMK29A
                    net capital assets_1 (imputed)
                     net capital assets_2 (imputed)
    IMAMK29B
    IMAMK3 1
                     total debt business 1 (imputed)
                     total debt business 2 (imputed)
    IMAMK3 2
    IMAMK42
                    net value other assets (imputed)
    IMAMK8 1
                    gross value business_1 (imputed)
    IMAMK8 2
                    gross value business 2 (imputed)
    K29AIMP
                    if imputed value
    K29BIMP
                    if imputed value
                    if imputed value
    K3 1IMP
    K3 2IMP
                    if imputed value
    K42IMP
                    if imputed value
                    if imputed value
    K82IMP
    K8 1IMP
                    if imputed value
    K8_2IMP
                    if imputed value
Wave 2:
                 net capital assets_1 (imputed)
net capital assets_2 (imputed)
total debt business_1 (imputed)
total debt business_2 (imputed)
    IMAMK31 1
    IMAMK31
    IMAMK3 \overline{1}
    IMAMK3 2
    IMAMK44
                   net value other assets (imputed)
    IMAMK85
                    other debts (imputed)
    IMAMK8 1
                   gross value business 1 (imputed)
    IMAMK8 2
                   gross value business 2 (imputed)
    K31 1IMP
                    if imputed value
    K31 2IMP
                    if imputed value
    K3 1IMP
                    if imputed value
    K3 2IMP
                    if imputed value
    K44IMP
                    if imputed value
    K85IMP
                    if imputed value
    K8 1IMP
                     if imputed value
    K8 2IMP
                     if imputed value
Wave 3:
    IMAMK33 1 12
                     Net value capital assets 1 (imputed)
    IMAMK33 2 12
                     Net value capital assets 2 (imputed)
    IMAMK44 12
                     Net value other assets (imputed)
    IMAMK4 1 12
                     Total debt business 1 (imputed)
    IMAMK4 2 12
                     Total debt business 2 (imputed)
```

```
IMAMK86 12
                     Other debts (imputed)
    IMAMK8 \frac{1}{1} 12
                     Gross value business 1 (imputed)
    IMAMK8 2 12
                     Gross value business_2 (imputed)
    K33 1 IMP 12
                     Net value capital assets 1 (Flag if imputed value)
                     Net value capital assets 2 (Flag if imputed value)
    K33 2 IMP 12
    K44 IMP 12
                     Net value other assets (Flag if imputed value)
    K4 1 IMP 12
                     Total debt business 1 (Flag if imputed value)
    K4 2 IMP 12
                     Total debt business 2 (Flag if imputed value)
    K86 IMP 12
                     Other debts (Flag if imputed value)
    K8_{1}IMP_{12}
                     Gross value business_1 (Flag if imputed value)
    K8_2_IMP_12
                     Gross value business_2 (Flag if imputed value)
Wave 4:
    IMAMK33 1 15
                     Net value capital assets 1 (imputed)
    IMAMK33_2_15
IMAMK44_15
                     Net value capital assets 2 (imputed)
                     Net value other assets (imputed)
    IMAMK4 \overline{1} 15
                     Total debt business 1 (imputed)
    IMAMK4 2 15
                     Total debt business_2 (imputed)
    IMAMK86 15
                     Other debts (imputed)
    IMAMK8 1 15
                     Gross value business 1 (imputed)
    IMAMK8 2 15
                     Gross value business 2 (imputed)
    K33 1 IMP 15
                     Net value capital assets 1 (Flag if imputed value)
                     Net value capital assets 2 (Flag if imputed value)
    K33 2 IMP 15
    K44_IMP 15
                     Net value other assets (Flag if imputed value)
    K4_1_IMP_15
                     Total debt business_1 (Flag if imputed value)
    K4_2_IMP_15
                     Total debt business_2 (Flag if imputed value)
                     Other debts (Flag if imputed value)
    K86 IMP 15
    K8_1_IMP_15
K8_2_IMP_15
                     Gross value business_1 (Flag if imputed value)
                     Gross value business 2 (Flag if imputed value)
Wave 5:
    IMAMK33 1 18
                     Net value capital assets 1 (imputed)
    IMAMK33 2 18
                     Net value capital assets 2 (imputed)
    IMAMK44 18
                     Net value other assets (imputed)
    IMAMK4 \frac{1}{1} 18
                     Total debt business 1 (imputed)
    IMAMK4 2 18
                     Total debt business 2 (imputed)
    IMAMK86 18
                     Other debts (imputed)
    IMAMK8 1 18
                     Gross value business 1 (imputed)
    IMAMK8 2 18
                     Gross value business_2 (imputed)
    K33_1_IMP_18
                     Net value capital assets_1 (Flag if imputed value)
    K33_2_IMP_18
                     Net value capital assets_2 (Flag if imputed value)
    K44_IMP_18
                     Net value other assets (Flag if imputed value)
                     Total debt business_1 (Flag if imputed value)
Total debt business_2 (Flag if imputed value)
    K4_1_IMP_18
    K4 2 IMP 18
                     Other debts (Flag if imputed value)
    K86 IMP 18
    K8_{\overline{1}}IMP_{\overline{1}}
                     Gross value business_1 (Flag if imputed value)
    K8 2 IMP 18
                     Gross value business 2 (Flag if imputed value)
```

Section F: Income 358

Section F: Income

Section F: Income 359

Individual Earnings

Wave	Variable	Label	Type
1	R1IEARN	rliearn:wl Income:R Earnings from employment	Cont
2	R2IEARN	r2iearn:w2 Income:R Earnings from employment	Cont
3	R3IEARN	r3iearn:w3 Income:R Earnings from employment	Cont
4	R4IEARN	r4iearn:w4 Income:R Earnings from employment	Cont
5	R5IEARN	r5iearn:w5 Income:R Earnings from employment	Cont
1	S1IEARN	sliearn:wl Income:S Earnings from employment	Cont
2	S2IEARN	s2iearn:w2 Income:S Earnings from employment	Cont
3	S3IEARN	s3iearn:w3 Income:S Earnings from employment	Cont
4	S4IEARN	s4iearn:w4 Income:S Earnings from employment	Cont
5	S5IEARN	s5iearn:w5 Income:S Earnings from employment	Cont
1	R1IFEARN	rlifearn:wl IncFlag:R Earnings from employment	Categ
2	R2IFEARN	r2ifearn:w2 IncFlag:R Earnings from employment	Categ
3	R3IFEARN	r3ifearn:w3 IncFlag:R Earnings from employment	Categ
4	R4IFEARN	r4ifearn:w4 IncFlag:R Earnings from employment	Categ
5	R5IFEARN	r5ifearn:w5 IncFlag:R Earnings from employment	Categ
1	S1IFEARN	slifearn:wl IncFlag:S Earnings from employment	Categ
2	S2IFEARN	s2ifearn:w2 IncFlag:S Earnings from employment	Categ
3	S3IFEARN	s3ifearn:w3 IncFlag:S Earnings from employment	Categ
4	S4IFEARN	s4ifearn:w4 IncFlag:S Earnings from employment	Categ
5	S5IFEARN	s5ifearn:w5 IncFlag:S Earnings from employment	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IEARN	15126	17183.59	73539.49	0.00	4723420.00
R2IEARN	13662	12421.54	46357.16	0.00	2118000.00
R3IEARN	15721	16487.13	112209.83	0.00	6500000.00
R4IEARN	14745	16789.37	90379.57	0.00	6103403.00
R5IEARN	17094	21669.28	125743.12	0.00	9604000.00
S1IEARN	10632	20164.56	84570.50	0.00	4723420.00
S2IEARN	9547	14399.34	51584.09	0.00	2118000.00
S3IEARN	10590	19241.24	113510.10	0.00	6500000.00
S4IEARN	10343	19300.83	102511.76	0.00	6103403.00
S5IEARN	11969	24855.39	143942.00	0.00	9604000.00
R1IFEARN	15126	0.03	0.18	0.00	1.00
R2IFEARN	13673	0.02	0.15	-1.00	1.00
R3IFEARN	15723	0.03	0.16	-1.00	1.00
R4IFEARN	14745	0.02	0.14	0.00	1.00
R5IFEARN	17094	0.03	0.16	0.00	1.00
01.777.77	10000	0.01	0.05	1 00	1 00
S1IFEARN	10932	0.01	0.25	-1.00	1.00
S2IFEARN	9673	0.01	0.20	-1.00	1.00
S3IFEARN	10941	0.00	0.26	-1.00	1.00
S4IFEARN	10414	0.02	0.18	-1.00	1.00
S5IFEARN	12059	0.03	0.21	-1.00	1.00

Categorical Variable Codes

Value		Rlifearn	R2IFEARN	R3IFEARN	R4IFEARN	R5IFEARN
.m:Missing		60	31		34	20
-1.No Imput:section not complete	1		11	2		
0.Not imputed	1	14623	13377	15286	14443	16619

1.Imputed	I	503	285	435	302	475
Value		S1IFEARN	S2IFEARN	S3IFEARN	S4IFEARN	S5IFEARN
.m:Missing	J	51	22		22	9
.u:Unmar		4203	4009	4782	4343	5223
-1.No Imput:section not complete	1	300	126	351	71	90
0.Not imputed	1	10231	9293	10226	10063	11516
1.Imputed		401	254	364	280	453

How Constructed

RWIEARN and SwIEARN capture the respondent's and spouse's employment individual earnings at an annual-level, respectively. RWIEARN and SWIEARN include income from salary, commission, overtime, bonus and profit share for both the primary and secondary job. Employment earnings questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

The financial respondent is first asked "During last year, did you have a principal job?" If they answer yes, they are then asked "Excluding income you already mentioned, last year did you receive income from salary, commission, and overtime from your principal job?" If they answer yes, they are asked how much they earned per month. They are then asked "Excluding income you already mentioned, last year did you receive income from bonus and/or profit share from your principal job?" If they answer yes, they are asked about how much they earned yearly. For all respondents who are reported to have had a principal job during the last year, they are asked "During last year, did you have a secondary job?" If they answer yes, they are then asked "Excluding income you already mentioned, last year did you receive income from salary, commission, and overtime from your secondary job?". If they answer yes, they are asked how much they earned per month. They are then asked "Excluding income you already mentioned, last year did you receive income from bonus and/or profit share from your secondary job?". If they answer yes, they are asked about how much they earned yearly. At Wave 1 and 2, RwIEARN is derived as yearly income from employment earnings by multiplying the reported monthly amounts of salary, commission, and overtime by 12 and by adding the reported yearly amounts of bonus and profit share from both the primary and secondary job. Starting at Wave 3, RwIEARN is derived as yearly income from employment earnings by adding the reported monthly amounts of salary, commission, and overtime and the reported monthly amounts of bonus and profit share from both the primary and secondary job, and multiplying that amount by 12 to express a yearly value. In the case that the respondent did not have a primary job or that they did not receive any salary, commission, overtime, bonus and profit share for the primary or secondary job, RwIEARN has a value of 0. Special missing .m is used if at least one component of RwIEARN was not imputed because the section was not completed. RwIEARN is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is asked "During last year, did your spouse have a principal job?" If they answer yes, they are then asked "Excluding income you already mentioned, last year did your spouse receive income from salary, commission, and overtime from his/her principal job?" If they answer yes, they are asked how much he/she earned per month. They are then asked "Excluding income you already mentioned, last year did your spouse receive income from bonus and/or profit share from his/her principal job?" If they answer yes, they are asked about how much he/she earned yearly. For all spouses who are reported to have had a principal job during the last year, the informant is asked "During last year, did your spouse have a secondary job?" If they answer yes, they are then asked "Excluding income you already mentioned, last year did your spouse receive income from salary, commission, and overtime from his/her secondary job?". If they answer yes, they are asked how much he/she earned per month. They are then asked "Excluding income you already mentioned, last year did your spouse receive income from bonus and/or profit share from his/her secondary job?". If they answer yes, they are asked about how much he/she earned yearly. At Wave 1 and 2, SwIEARN is derived as yearly income from employment earnings by multiplying the reported monthly amounts of salary, commission, and overtime by 12 and by adding the reported yearly amounts of bonus and profit share from both the primary and secondary job. Starting at Wave 3, SwIEARN is derived as yearly income from employment earnings by adding the reported

monthly amounts of salary, commission, and overtime and the reported monthly amounts of bonus and profit share from both the primary and secondary job, and multiplying that amount by 12 to express a yearly value. In the case that the spouse did not have a primary job or that they did not receive any salary, commission, overtime, bonus and profit share for the primary or secondary job, SwIEARN has a value of 0. Special missing .m is used if at least one component of SwIEARN was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIEARN is set to blank missing (.) if the respondent did not participate in the current wave.

For questions eliciting a value included in RwIEARN and SwIEARN, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWIFEARN and SWIFEARN are flag variables indicating whether or not any component of RWIEARN or SWIFEARN was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

As part of MHAS imputation process at Wave 1 and 2, the imputed values of bonus and profit share from both the primary and secondary job were left as yearly amounts. Starting at Wave 3 imputation process, the imputed values of bonus and profit share from both the primary and secondary job were transformed to monthly amounts. RwIEARN and SwIEARN account for this change and include the values of bonus and profit share from both the primary and secondary job at the annual level in all waves.

Differences with the RAND HRS/Harmonized HRS

In the HRS respondents are asked to report employment earnings aside from self-employment income. The HRS then later specifically asks respondents about self-employment income. In the MHAS respondents are asked about all earnings from the principal and secondary job (regardless of whether the earnings are from self-employment). Therefore earnings from self-employment are captured in RwIEARN in the Harmonized MHAS while these earnings would not be captured in RwIEARN in the RAND HRS but instead are included as part of HwICAP in the RAND HRS.

In the HRS, respondents are instructed to report employment earnings before taxes and deductions. In the MHAS, employment earnings questions are asked without instruction as to whether these amounts should be reported before or after tax.

The individual earnings variable in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

```
IMAM44
               own earned income-1 (imputed)
IMAM45
                own earned income-2 (imputed)
IMAM47
                own earned income-3 (imputed)
                own earned income-4 (imputed)
TMAM48
                spouse's earned income-1 (imputed)
IMAM50
IMAM51
                spouse's earned income-2 (imputed)
                spouse's earned income-3 (imputed)
IMAM53
IMAM54
                spouse's earned income-4 (imputed)
K44IMP
                if imputed value
                if imputed value
K45IMP
K47IMP
               if imputed value
               if imputed value
K48IMP
               if imputed value
K50IMP
K51IMP
               if imputed value
```

```
K53IMP
                    if imputed value
                    if imputed value
    K54IMP
Wave 2:
    IMAM47
                    own earned income-1 (imputed)
    TMAM48
                    own earned income-2 (imputed)
                    own earned income-3 (imputed)
    IMAM51
                    own earned income-4 (imputed)
    IMAM53
                    spouse's earned income-1 (imputed)
                    spouse's earned income-2 (imputed)
    IMAM54
                    spouse's earned income-3 (imputed)
    TMAM56
    IMAM57
                    spouse's earned income-4 (imputed)
    K47IMP
                    if imputed value
                    if imputed value
    K48IMP
    K50IMP
                    if imputed value
    K51IMP
                    if imputed value
                    if imputed value
    K53IMP
                    if imputed value
    K54IMP
    K56IMP
                    if imputed value
    K57IMP
                    if imputed value
Wave 3:
    IMAMK47A 12
                    Own earned income-1 (imputed)
    IMAMK48A 12
                    Own earned income-2 (imputed)
    IMAMK50A 12
                    Own earned income-3 (imputed)
    IMAMK51A 12
                    Own earned income-4 (imputed)
    IMAMK53A_12
                    Spouse's earned income-1 (imputed)
    IMAMK54A_12
                    Spouse's earned income-2 (imputed)
    IMAMK56A 12
                    Spouse's earned income-3 (imputed)
    IMAMK57A 12
                    Spouse's earned income-4 (imputed)
    K47A_IMP_12
K48A_IMP_12
                    Own earned income-1 (Flag if imputed value)
                    Own earned income-2 (Flag if imputed value)
    K50A IMP 12
                    Own earned income-3 (Flag if imputed value)
    K51A IMP 12
                    Own earned income-4 (Flag if imputed value)
    K53A IMP 12
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 12
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 12
                    Spouse's earned income-1 (Flag if imputed value)
    K54A IMP 12
                    Spouse's earned income-2 (Flag if imputed value)
    K54A_IMP_12
                    Spouse's earned income-2 (Flag if imputed value)
    K54A_IMP_12
                    Spouse's earned income-2 (Flag if imputed value)
    K56A_IMP_12
                    Spouse's earned income-3 (Flag if imputed value)
                    Spouse's earned income-3 (Flag if imputed value)
    K56A_IMP_12
    K56A_IMP_12
                    Spouse's earned income-3 (Flag if imputed value)
    K57A_IMP_12
K57A_IMP_12
                    Spouse's earned income-4 (Flag if imputed value)
                    Spouse's earned income-4 (Flag if imputed value)
    K57A IMP 12
                    Spouse's earned income-4 (Flag if imputed value)
Wave 4:
    IMAMK47A 15
                    Own earned income-1 (imputed)
    IMAMK48A 15
                    Own earned income-2 (imputed)
                    Own earned income-3 (imputed)
    IMAMK50A 15
    IMAMK51A 15
                    Own earned income-4 (imputed)
    IMAMK53A 15
                    Spouse's earned income-1 (imputed)
    IMAMK54A_15
                    Spouse's earned income-2 (imputed)
    IMAMK56A 15
                    Spouse's earned income-3 (imputed)
    IMAMK57A 15
                    Spouse's earned income-4 (imputed)
    K47A_IMP_15
                    Own earned income-1 (Flag if imputed value)
    K48A_IMP_15
                    Own earned income-2 (Flag if imputed value)
    K50A_IMP_15
                    Own earned income-3 (Flag if imputed value)
    K51A IMP_15
                    Own earned income-4 (Flag if imputed value)
    K53A IMP 15
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 15
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 15
                    Spouse's earned income-1 (Flag if imputed value)
    K54A IMP 15
                    Spouse's earned income-2 (Flag if imputed value)
                    Spouse's earned income-2 (Flag if imputed value)
    K54A IMP 15
    K54A IMP 15
                    Spouse's earned income-2 (Flag if imputed value)
    K56A IMP 15
                    Spouse's earned income-3 (Flag if imputed value)
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K56A IMP 15
                    Spouse's earned income-3 (Flag if imputed value)
    K56A IMP 15
                    Spouse's earned income-3 (Flag if imputed value)
    K57A IMP 15
                    Spouse's earned income-4 (Flag if imputed value)
    K57A IMP 15
                    Spouse's earned income-4 (Flag if imputed value)
    K57A_IMP_15
                    Spouse's earned income-4 (Flag if imputed value)
Wave 5:
    IMAMK47A 18
                    Own earned income-1 (imputed)
    IMAMK48A 18
                    Own earned income-2 (imputed)
    IMAMK50A_18
                    Own earned income-3 (imputed)
                    Own earned income-4 (imputed)
    IMAMK51A_18
                    Spouse's earned income-1 (imputed)
    IMAMK53A_18
                    Spouse's earned income-2 (imputed)
    IMAMK54A_18
    IMAMK56A 18
                    Spouse's earned income-3 (imputed)
    IMAMK57A 18
                    Spouse's earned income-4 (imputed)
    K47A IMP 18
                    Own earned income-1 (Flag if imputed value)
    K48A IMP 18
                    Own earned income-2 (Flag if imputed value)
    K50A IMP 18
                    Own earned income-3 (Flag if imputed value)
    K51A IMP 18
                    Own earned income-4 (Flag if imputed value)
    K53A IMP 18
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 18
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 18
                    Spouse's earned income-1 (Flag if imputed value)
                    Spouse's earned income-2 (Flag if imputed value)
    K54A IMP 18
    K54A_IMP_18
                    Spouse's earned income-2 (Flag if imputed value)
    K54A_IMP_18
                    Spouse's earned income-2 (Flag if imputed value)
    K56A_IMP_18
                    Spouse's earned income-3 (Flag if imputed value)
    K56A_IMP_18
                    Spouse's earned income-3 (Flag if imputed value)
    K56A_IMP_18
                    Spouse's earned income-3 (Flag if imputed value)
    K57A_IMP_18
                    Spouse's earned income-4 (Flag if imputed value)
    K57A_IMP_18
K57A_IMP_18
                    Spouse's earned income-4 (Flag if imputed value)
                    Spouse's earned income-4 (Flag if imputed value)
```

Household Capital Income

Wave	Variable	Label	Туре
1	H1ISEMP	hlisemp:wl Income:H Earnings from business	Cont
	H2ISEMP	h2isemp:w2 Income:H Earnings from business	Cont
	H3ISEMP	h3isemp:w3 Income:H Earnings from business	Cont
	H4ISEMP	h4isemp:w4 Income:H Earnings from business	Cont
	H5ISEMP	h5isemp:w5 Income:H Earnings from business	Cont
J	ПЭТЭЕМЕ	noisemp.wo income.n mainings from business	COIIC
	H1IFSEMP	hlifsemp:wl IncFlag:H Earnings from business	Categ
	H2IFSEMP	h2ifsemp:w2 IncFlag:H Earnings from business	Categ
	H3IFSEMP	h3ifsemp:w3 IncFlag:H Earnings from business	Categ
	H4IFSEMP	h4ifsemp:w4 IncFlag:H Earnings from business	Categ
5	H5IFSEMP	h5ifsemp:w5 IncFlag:H Earnings from business	Categ
1	H1IRENT	hlirent:wl Income:H Rental income	Cont
2	H2IRENT	h2irent:w2 Income:H Rental income	Cont
3	H3IRENT	h3irent:w3 Income:H Rental income	Cont
4	H4IRENT	h4irent:w4 Income:H Rental income	Cont
5	H5IRENT	h5irent:w5 Income:H Rental income	Cont
1	H1IFRENT	hlifrent:wl IncFlag:H Rental income	Categ
2	H2IFRENT	h2ifrent:w2 IncFlag:H Rental income	Categ
3	H3IFRENT	h3ifrent:w3 IncFlag:H Rental income	Categ
4	H4IFRENT	h4ifrent:w4 IncFlag:H Rental income	Categ
5	H5IFRENT	h5ifrent:w5 IncFlag:H Rental income	Categ
1	H1ITREST	hlitrest:wl Income:H Interest income from financial assets	Cont
2	H2ITREST	h2itrest:w2 Income:H Interest income from financial assets	Cont
3	H3ITREST	h3itrest:w3 Income:H Interest income from financial assets	Cont
4	H4ITREST	h4itrest:w4 Income:H Interest income from financial assets	Cont
5	H5ITREST	h5itrest:w5 Income:H Interest income from financial assets	Cont
1	H1IFTREST	hliftrest:wl Impflag:H Interest income from financial assets	Categ
2	H2IFTREST	h2iftrest:w2 Impflag:H Interest income from financial assets	Categ
3	H3IFTREST	h3iftrest:w3 Impflag:H Interest income from financial assets	Categ
4	H4IFTREST	h4iftrest:w4 Impflag:H Interest income from financial assets	Categ
5	H5IFTREST	h5iftrest:w5 Impflag:H Interest income from financial assets	Categ
1	H1ICAP	hlicap:wl Income:H Capital Income	Cont
2	H2ICAP	h2icap:w2 Income:H Capital Income	Cont
3	H3ICAP	h3icap:w3 Income:H Capital Income	Cont
4	H4ICAP	h4icap:w4 Income:H Capital Income	Cont
	H5ICAP	h5icap:w5 Income:H Capital Income	Cont
1	H1IFCAP	hlifcap:wl IncFlag:H Capital Inc	Categ
	H2IFCAP	h2ifcap:w2 IncFlag:H Capital Inc	Categ
	H3IFCAP	h3ifcap:w3 IncFlag:H Capital Inc	Categ
	H4IFCAP	h4ifcap:w4 IncFlag:H Capital Inc	Categ
5	H5IFCAP	h5ifcap:w5 IncFlag:H Capital Inc	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ISEMP	15636	25154.95	469626.52	-6000000.00	27506664.00
H2ISEMP	14032	32822.81	525179.42	0.00	3000000.00
H3ISEMP	15723	25077.79	437181.01	0.00	36000000.00
H4ISEMP	14745	17888.44	134710.11	0.00	4800000.00
H5ISEMP	17094	39054.66	770823.51	0.00	60000000.00

H1IFSEMP	15186	0.06	0.25	-1.	0.0	1.00	
H2IFSEMP	13704	0.05	0.23	-1.		1.00	
H3IFSEMP	15723	0.03	0.17	0.		1.00	
H4IFSEMP	14779	0.02	0.16	-1.		1.00	
H5IFSEMP	17114	0.03	0.17	-1.	00	1.00	
H1IRENT	15636	21201.53	1098904.32	-6000000.	00 90000	000.00	
H2IRENT	14032	2434.64	29388.49	-300000.	00 960	000.00	
H3IRENT	15723	4906.16	168221.64	-1200000.		600.00	
						000.00	
H4IRENT	14745	5649.63	173288.62	-1200000.			
H5IRENT	17094	878.52	61420.95	-4800000.	00 900	000.00	
1	15106	0.00	0 11	1	0.0	1 00	
H1IFRENT	15186	0.00	0.11	-1.		1.00	
H2IFRENT	13704	0.01	0.11	-1.		1.00	
H3IFRENT	15723	0.01	0.12	0.	00	1.00	
H4IFRENT	14779	0.01	0.12	-1.	00	1.00	
H5IFRENT	17114	0.01	0.12	-1.		1.00	
1101111111	1,111	0.01	0.12	± •		1.00	
H1ITREST	15636	927.84	6500.70	0.	00 165	300.00	
H2ITREST	14032	460.72	4126.64	0.		923.75	
H3ITREST	15723	1327.33	30831.86	0.		000.00	
H4ITREST	14745	7690.25	559878.52	0.		464.00	
H5ITREST	17094	11349.16	258447.92	0.	00 10466	244.00	
111 T D D D O D	1 = 1 0 6	0.00	0 10	1	0.0	1 00	
H1IFTREST	15186	0.03	0.19	-1.		1.00	
H2IFTREST	13704	0.02	0.17	-1.		1.00	
H3IFTREST	15723	0.02	0.14	0.	00	1.00	
H4IFTREST	14779	0.01	0.14	-1.	00	1.00	
H5IFTREST	17114	0.01	0.13	-1.		1.00	
H1ICAP	15636	47284.32	1264500.12	-6000000.	00 90000	000.00	
H2ICAP	14032	35718.17	530366.33	-300000.	00 30474	000.00	
H3ICAP	15723	31311.28	469786.94	-1200000.	00 36000	000.00	
H4ICAP	14745	31228.32	644602.58	-1200000.		275.25	
H5ICAP	17094	51282.33	827681.05	-4800000.	00 60000	000.00	
H1IFCAP	15186	0.09	0.30	-1.	00	1.00	
H2IFCAP	13704	0.08	0.28	-1.		1.00	
H3IFCAP	15723	0.06	0.23	0.		1.00	
H4IFCAP	14779	0.04	0.21	-1.	00	1.00	
H5IFCAP	17114	0.05	0.23	-1.	00	1.00	
Categorical '	Variable Cod	es					
Value			H1IFSEMP	H2IFSEMP	H3IFSEMP	H4IFSEMP	H5IFSEMP
	ection not comp		59	31	11011 0111	34	20
0.Not imputed	secton nee comp	1	14194	12960	15237	14389	16616
_		l I	933	713	486	356	478
1.Imputed		I	933	713	400	330	470
Value			H1IFRENT	H2IFRENT	H3IFRENT	H4IFRENT	H5IFRENT
-1.No Imput:se	ection not comp	olete	59	31		34	20
0.Not imputed	-	· · · · · · · · · · · · · · · · · · ·	14993	13529	15501	14570	16851
1.Imputed		i	134	144	222	175	243
_							
		'	H1IFTREST	H2IFTREST	H3IFTREST	H4IFTREST	H5IFTREST
	ection not comp	plete	59	31		34	20
0.Not imputed			14598	13314	15391	14504	16836
1.Imputed			529	359	332	241	258

H1IFCAP

H2IFCAP

H3IFCAP

H4IFCAP

H5IFCAP

Value-----|

-1.No Imput:section not complete |

0.Not imputed
1.Imputed

How Constructed

HwISEMP captures the household's business income at an annual-level. At Wave 1, HwISEMP is derived using questions about income and expenses from a business or farm. Starting in Wave 2, HwISEMP is derived using questions about profits from a business or farm. Business income questions are asked without instruction as to whether these amounts should be reported before or after tax.

The informant for the subject or the couple is asked "do you (and/or spouse) own a business or farm?". If the respondent answers yes, they are then asked "during the last year, did this business generate income for you (and/or your spouse)?" If the business did generate income they are asked "about how much income did this business generate in a typical month? Consider income before expenses." All respondents who report owning a business/farm are also asked "about how much did you spend on this business in a typical month?". Starting in Wave 2, all respondents who report owning a business/farm are also asked "how much profit does this business give you (and/or your spouse) in a typical month?" At Wave 1, HwISEMP is derived as the gross monthly income minus the monthly expenses of the business, multiplied by 12. Starting in Wave 2, HwISEMP is derived as the profit of the business, multiplied by 12. In the case that neither the respondent nor the spouse owns a business, HwISEMP has a value of 0.

HwIRENT captures the household's rental income at an annual-level. At Wave 1, 2, and 3 HwIRENT includes gross income minus expenses from real estate property (other than the main and primary house), land, vacant lots, and properties for rent. In Wave 4 HwIRENT includes income generated from the current or secondary residence and gross income minus expenses from real estate property (other than the main and primary house), land, vacant lots, and properties for rent. Starting in Wave 5, respondents were asked to report both the gross income and the expenses on only one property, the most important one. Rental income questions are asked without instruction as to whether these amounts should be reported before or after tax.

The informant for the subject or the couple is asked "excluding your main house or second residence, do you (or your spouse) own any real estate property, such as land, vacant lots and/or properties for rent?". If the respondent answers yes, they are then asked "during the last year, did this property generate income for you (and/or your spouse)?" If the property did generate income they are asked "about how much income did this property generate in a typical month? Consider income before expenses." All respondents who report owning real estate are also asked "about how much did you spend on this property in a typical month?". Starting in Wave 4, MHAS added a question to all household respondents asking "Does the house you live in (or the second residence) generate you income?" If the respondent answers yes, they are then asked "About how much per month?" At Waves 1, and and 3 HwIRENT is derived as the gross monthly income minus the monthly expenses of the property, multiplied by 12. In the case that neither the respondent nor spouse owns real estate, HwIRENT has a value of 0. Starting at Wave 4 HwIRENT is derived as the rental income from the current or secondary residence plus the gross monthly income minus the monthly expenses of the property, all multiplied by 12. In the case that the current or secondary residence does not generate income and neither the respondent nor spouse owns real estate, HwIRENT has a value of 0.

HwITREST captures the household's income from financial assets at an annual-level. HwITREST includes income generated from checking, saving accounts, fixed investments, loans made to others, stocks, company shares, and bonds. Questions about income from financial assets are asked without instruction as to whether these amounts should be reported before or after tax.

The informant for the subject or the couple is asked "Do you (and/or your spouse) have checking or saving account, or fixed investment?". If the respondent answers yes, they are then asked "During the previous year, did these [assets] generate income for you (and/or your spouse)?" If the asset did generate income they are asked "about how much per month?" Next the informant for the subject or the couple is asked "Do you (and/or your spouse) have loans made out to others?". If the respondent answers yes, they are then asked "During the previous year, did these [assets] generate income for you (and/or your spouse)?" If the asset did generate income they are asked "about how much per month?" Next the informant for the subject or the couple is asked "Do you (and/or your spouse) have stocks, company shares or bonds?". If the respondent answers yes, they are then asked "During the previous year, did these [assets] generate income for you (and/or your spouse)?" If the asset did generate income they are asked "about how much per month?" HwIRENT is derived as the sum of the monthly income generated from checking or saving account, or fixed investment, loans made out to others, and stocks, company shares, or bonds, multiplied by 12. In the case that neither the respondent nor spouse has checking or saving account, fixed investment, loans made out to others, stocks, company shares, or bonds, or that the respondent or spouse have these assets but they did not generate any income from them in the last year, HwITREST has a value of 0.

For all questions eliciting a value included in HwISEMP, HwIRENT, or HwITREST the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

HwISEMP, HwIRENT, and HwITREST are derived at the household level. In MHAS this is a couple or a single person. Special missing .m is used if at least one component of HwISEMP, HwIRENT, and HwITREST was not imputed because the respondent did not complete the section. HwISEMP, HwIRENT, and HwITREST are set to blank missing (.) if the respondent did not participate in the current wave.

HwIFSEMP, HwIFRENT, and HwIFTREST are flag variables indicating whether or not any component of HwISEMP, HwIRENT, and HwITREST was imputed, respectively. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

HwICAP captures the household's total capital income at an annual-level and is based on information from:

Income from business earnings, as previously described

Income from rental income, as previously described

Income from financial assets, as previously described

HwICAP is constructed as the sum of the income from business earnings, rental income, and interest income from financial assets. All components of this variable are constructed at the household level and include imputed values. In MHAS, the household is a couple or a single person. Special missing .m is used if at least one component of HwICAP was not imputed because the respondent did not complete the section. HwICAP is set to blank missing (.) if the respondent did not participate in the current wave.

HwIFCAP is a flag variable based on the original flag variables (previously defined as HwIFSEMP, HwIFRENT, and HwIFTREST), indicating whether or not any component of HwICAP was imputed. A code of 0 indicates that no component of HwICAP was imputed. A code of 1 indicates that at least one component of HwICAP was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

Starting in Wave 2, the MHAS added a question which asked "How much profit does this business give you (and/or your spouse) in a typical month?" With this change the derivation of HwISEMP also changed so that starting in Wave 2 HwISEMP is derived using the monthly profit of the business multiplied by 12 instead of the gross monthly income minus the monthly expenses of the business, multiplied by 12 as was used at Wave 1. Due to this change, it is possible that HwISEMP takes negative values in Wave 2. However, the question regarding the business profit only allows positive values (thus the minumum possible value for HwISEMP is 0).

In Wave 4, MHAS added a question to all household respondents asking "Does the house you live in (or the second residence) generate you income?" If the respondent answers yes, they are then asked "About how much per month?" With this change the derivation of HwIRENT also changed so that starting in Wave 4 HwIRENT is derived by adding the income generated from the current or secondary residence to the gross monthly income minus the monthly expenses of the property, all multiplied by 12 instead of just the the gross monthly income minus the monthly expenses of the property multiplied by 12 as was used before Wave 4. Starting in Wave 5, respondents were asked to report both the gross income and the expenses on only one property, the most important one.

Differences with the RAND HRS/Harmonized HRS

In the HRS respondents are asked about income from household business or farm income, self-employment earnings, business income, gross rent, dividend and interest income, trust funds or royalties, and other asset income. In the MHAS, respondents are not specifically asked about self-employment earnings but are

asked about all earnings from the principal and secondary job. These values of all earnings are captured in RwIEARN. Also different, the MHAS does not ask about income from "other" assets.

In the HRS, respondents are instructed to report capital income before taxes and deductions. In the MHAS, capital income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Capital income in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

```
Wave 1:
   IMAM10 1
                   business income-1 (imputed)
                   business income-2 (imputed)
    IMAM10 2
    IMAM13 1
                   business expenditures-1 (imputed)
   IMAM13 2
                   business expenditures-2 (imputed)
    IMAM24 1
                   property rent income-1 (imputed)
   IMAM24 2
                  property rent income-2 (imputed)
    IMAM27 1
                  property expenditures-1 (imputed)
                  property expenditures-2 (imputed)
    IMAM27_2
    IMAM33
                   capital assets income-1 (imputed)
    IMAM33 2
                   capital assets income-2 (imputed)
   IMAM33<sup>-3</sup>
                   capital assets income-3 (imputed)
   K10 1IMP
                   if imputed value
   K10 2IMP
                   if imputed value
   K13 1IMP
                   if imputed value
   K13 2IMP
                   if imputed value
   K24 1IMP
                   if imputed value
   K24 2IMP
                   if imputed value
   K27 1IMP
                  if imputed value
   K27 2IMP
                  if imputed value
   K33 1IMP
                   if imputed value
                   if imputed value
   K33_2IMP
   K33 3IMP
                   if imputed value
Wave 2:
   IMAM15 1
                    business profits-1 (imputed)
    IMAM15 2
                    business profits-2 (imputed)
    IMAM26 1
                    property rent income-1 (imputed)
                   property rent income-2 (imputed)
   IMAM26 2
   IMAM29 1
                   property expenditures-1 (imputed)
   IMAM29 2
                   property expenditures-2 (imputed)
    IMAM35 1
                   capital assets income-1 (imputed)
   IMAM35 2
                   capital assets income-2 (imputed)
   IMAM35 3
                   capital assets income-3 (imputed)
   K15 1IMP
                   if imputed value
   K15 2IMP
                   if imputed value
   K26_1IMP
                   if imputed value
   K26_2IMP
                   if imputed value
   K29_1IMP
                   if imputed value
   K29 2IMP
                   if imputed value
   K35 1IMP
                   if imputed value
   K35 2IMP
                   if imputed value
   K35 3IMP
                   if imputed value
Wave 3:
   IMAMK15 1 12
                  Business profits-1 (imputed)
                 Business profits-2 (imputed)
    IMAMK15 2 12
    IMAMK27 1 12
                    Property rent income-1 (imputed)
    IMAMK27 2 12
                    Property rent income-2 (imputed)
    IMAMK29 1 12
                   Property expeditures-1 (imputed)
    IMAMK29_2_12
                  Property expeditures-2 (imputed)
    IMAMK36_1_12
                   Capital assets income-1 (imputed)
    IMAMK36 2 12
                   Capital assets income-2 (imputed)
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```
IMAMK36 3 12
                    Capital assets income-3 (imputed)
    K15 1 IMP 12
                    Business profits-1 (Flag if imputed value)
    K15 2 IMP 12
                    Business profits-2 (Flag if imputed value)
    K27 1 IMP 12
                    Property rent income-1 (Flag if imputed value)
    K27 2 IMP 12
                    Property rent income-2 (Flag if imputed value)
    K29 1 IMP 12
                    Property expeditures-1 (Flag if imputed value)
    K29 2 IMP 12
                    Property expeditures-2 (Flag if imputed value)
    K36 1 IMP 12
                    Capital assets income-1 (Flag if imputed value)
    K36 2 IMP 12
                    Capital assets income-2 (Flag if imputed value)
    K36_3_IMP_12
                    Capital assets income-3 (Flag if imputed value)
Wave 4:
    IMAMJ36B 15
                    Rent from residence (imputed)
    IMAMK15 1 15
                    Business profits-1 (imputed)
    IMAMK15_2_15
IMAMK27_1_15
                    Business profits-2 (imputed)
                    Property rent income-1 (imputed)
    IMAMK27 2 15
                    Property rent income-2 (imputed)
    IMAMK29 1 15
                    Property expeditures-1 (imputed)
    IMAMK29 2 15
                    Property expeditures-2 (imputed)
    IMAMK36 1 15
                    Capital assets income-1 (imputed)
    IMAMK36 2 15
                    Capital assets income-2 (imputed)
    IMAMK36 3 15
                    Capital assets income-3 (imputed)
    J36B IMP 15
                    Rent from residence (Flag if imputed value)
   K15 1 IMP 15
                    Business profits-1 (Flag if imputed value)
   K15_2_IMP_15
                    Business profits-2 (Flag if imputed value)
   K27_1_IMP_15
                    Property rent income-1 (Flag if imputed value)
    K27_2_IMP_15
                    Property rent income-2 (Flag if imputed value)
   K29_1_IMP_15
K29_2_IMP_15
                    Property expeditures-1 (Flag if imputed value)
                    Property expeditures-2 (Flag if imputed value)
    K36_1_IMP_15
K36_2_IMP_15
                    Capital assets income-1 (Flag if imputed value)
                    Capital assets income-2 (Flag if imputed value)
    K36 3 IMP 15
                    Capital assets income-3 (Flag if imputed value)
Wave 5:
    IMAMJ36B 18
                    Rent from residence (imputed)
    IMAMK15 1 18
                    Business profits-1 (imputed)
    IMAMK15 2 18
                    Business profits-2 (imputed)
    IMAMK27 1 18
                    Property rent income (imputed)
    IMAMK29 1_18
                    Property expeditures (imputed)
    IMAMK36_1_18
                    Capital assets income-1 (imputed)
                    Capital assets income-2 (imputed)
    IMAMK36_2_18
    IMAMK36_3_18
                    Capital assets income-3 (imputed)
    J36B IMP 18
                    Rent from residence (Flag if imputed value)
   K15_1_IMP_18
K15_2_IMP_18
K27_1_IMP_18
                    Business profits-1 (Flag if imputed value)
                    Business profits-2 (Flag if imputed value)
                    Property rent income (Flag if imputed value)
    K29 1 IMP 18
                    Property expeditures (Flag if imputed value)
    K36 1 IMP 18
                    Capital assets income-1 (Flag if imputed value)
    K36 2 IMP 18
                    Capital assets income-2 (Flag if imputed value)
                    Capital assets income-3 (Flag if imputed value)
```

K36 3 IMP 18

Individual Income from Private Pension

Wave	Variable	Label	Type
1	R1IPENA	rlipena:wl Income:R Pension + Annuity	Cont
2	R2IPENA	r2ipena:w2 Income:R Pension + Annuity	Cont
5	R5IPENA	r5ipena:w5 Income:R Pension + Annuity	Cont
1	S1IPENA	slipena:wl Income:S Pension + Annuity	Cont
2	S2IPENA	s2ipena:w2 Income:S Pension + Annuity	Cont
5	S5IPENA	s5ipena:w5 Income:S Pension + Annuity	Cont
1	R1IFPENA	rlifpena:wl ImpFlag:R Pension + Annuity	Categ
2	R2IFPENA	r2ifpena:w2 ImpFlag:R Pension + Annuity	Categ
5	S5IFPENA	s5ifpena:w5 ImpFlag:S Pension + Annuity	Categ
1	S1IFPENA	slifpena:wl ImpFlag:S Pension + Annuity	Categ
2	S2IFPENA	s2ifpena:w2 ImpFlag:S Pension + Annuity	Categ
5	S5IFPENA	s5ifpena:w5 ImpFlag:S Pension + Annuity	Cateq

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IPENA	15114	122.56	3945.22	0.00	360000.00
R2IPENA	13662	112.51	4207.83	0.00	324000.00
R5IPENA	16783	296.06	8896.13	0.00	540000.00
S1IPENA	10821	97.97	3968.60	0.00	360000.00
S2IPENA	9665	101.37	3534.96	0.00	216000.00
S5IPENA	11641	249.36	8805.09	0.00	540000.00
R1IFPENA	15114	0.00	0.01	0.00	1.00
R2IFPENA	13662	0.00	0.01	0.00	1.00
S5IFPENA	11641	0.00	0.01	0.00	1.00
S1IFPENA	10822	0.00	0.01	-1.00	1.00
S2IFPENA	9666	0.00	0.01	-1.00	1.00
S5IFPENA	11641	0.00	0.01	0.00	1.00

Categorical Variable Codes

Value	- R1IFPENA	R2IFPENA	S5IFPENA
.m:Missing	72	42	427
.u:Unmar	1		5223
0.Not imputed	15112	13661	11640
1.Imputed	2	1	1
Value	- S1IFPENA	S2IFPENA	S5IFPENA
.m:Missing	176	30	427
.u:Unmar	4188	4008	5223
-1.No Imput:section not complete	1	1	
0.Not imputed	10820	9664	11640
1.Imputed	1	1	1

How Constructed

RwIPENA and SwIPENA capture the respondent's and spouse's individual income from private pensions at an annual-level, respectively. RwIPENA and SwIPENA include income from all pensions from a private provider, including retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions. Private pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

The financial respondent is first asked "Excluding income you have already mentioned, during the last year did you receive income from retirement pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from widowhood pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from disability or work accident pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" The financial respondent is finally asked "Excluding income you have already mentioned, during the last year did you receive income from other pensions." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" RwIPENA is derived as yearly income from private pensions by adding the reported monthly private pension income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and then multiplying by 12. In the case that the respondent does not receive any pension income from a private provider, RwIPENA has a value of 0. Special missing .m is used if at least one component of RwIPENA was not imputed because the section was not completed. RwIPENA is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is first asked "Excluding income you have already mentioned, during the last year did your spouse receive income from retirement pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from widowhood pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from disability or work accident pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" The financial respondent is finally asked "Excluding income you have already mentioned, during the last year did your spouse receive income from other pensions." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "Private". If they answer "Private", they are asked "About how much was it in a typical month?" SwIPENA is derived as yearly income from private pensions by adding the reported monthly private pension income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and then multiplying by 12. In the case that the spouse does not receive any pension income from a private provider, SwIPENA has a value of 0. Special missing .m is used if at least one component of SwIPENA was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIPENA is set to blank missing (.) if the respondent did not participate in the current wave.

For questions eliciting a value included in RWIPENA and SWIPENA, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWIFPENA and SWIPENA are flag variables indicating whether or not any component of RWIPENA or SWIPENA was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RWIFPENA and SWIFPENA are set to blank missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

In Waves 1 and 2 of MHAS, respondents were allowed to identify a single pension type for retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and RwIPENA was able to be created. In Waves 3 and 4 of MHAS, respondents were allowed to identify multiple pension providers for each type of pension but were only asked one amount, regardless of how many different providers were identified. Given this, in Waves 3 and 4, it is not possible to identify private pension income exclusively from other pension providers and RwIPENA cannot be created. Starting in Wave 5, respondents were asked to report up to two pensions types for retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions and for each of these they had to select only one provider. Thus, it was possible to create RwIPENA again in Wave 5.

A total measure of pension income is available for all waves in the variable RWIPENT.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are instructed to report pension income before taxes and deductions. In the MHAS, pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Individual income from private pensions in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

```
Wave 1:
   IMAM55A
                    own pension income -retirement (imputed)
   IMAM55B
                    own pension income -widow (imputed)
    IMAM55C
                    own pension income -disability (imputed)
   IMAM55D
                    own other pension income
    TMAM61A
                    spouse's pension income -retirement (imputed)
    IMAM61B
                    spouse's pension income -widow (imputed)
                    spouse's pension income -disability (imputed)
    TMAM61C
    IMAM61D
                    spouse's other pension income (imputed)
                    if imputed value
   K55AIMP
   K55BIMP
                    if imputed value
                    if imputed value
   K55CIMP
   K55DIMP
                   if imputed value
   K56 1
                   source of retirement pension
                   source of widowhood pension
   K56 2
   K56 3
                   source of disability pension
   K56 4
                    source of other pension
   K61AIMP
                    if imputed value
   K61BIMP
                    if imputed value
   K61CIMP
                    if imputed value
   K61DTMP
                    if imputed value
   K62 1
                    source of retirement pension of spouse
   K62 2
                    source of widowhood pension of spouse
   K62 3
                    source of disability pension of spouse
   K62 4
                    source of other pension of spouse
Wave 2:
   IMAM58A
                    own pension income -retirement (imputed)
                    own pension income -widow (imputed)
    TMAM58B
                    own pension income -disability (imputed)
    IMAM58C
                    own other pension income
    IMAM58D
    IMAM64C
                    spouse's pension income -retirement (imputed)
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IMAM64D
                     spouse's pension income -widow (imputed)
                     spouse's pension income -disability (imputed)
    IMAM64E
                    spouse's other pension income (imputed)
    TMAM64F
    K58AIMP
                    if imputed value
                    if imputed value
    K58BTMP
    K58DIMP
                    if imputed value
    K59A
                    source of retirement pension
    K59B
                    source of widowhood pension
    K59C
                    source of disability pension
    K59D
                    source of other pension
    K64CIMP
                    if imputed value
    K64DIMP
                    if imputed value
    K64EIMP
                    if imputed value
    K64FIMP
                    if imputed value
    K65C
                    source of retirement pension of spouse
                    source of widowhood pension of spouse
    K65D
                    source of disability pension of spouse
    K65E
    K65F
                    source of other pension of spouse
Wave 5:
    IMAMK61 1 1 18 Own pension income -retirement 1 (imputed)
    IMAMK61 1 2 18 Own pension income -retirement 2 (imputed)
    IMAMK61 2 1 18 Own pension income -widow 1 (imputed)
    IMAMK61 2 2 18
                    Own pension income -widow 2 (imputed)
    IMAMK61_3_1_18
                    Own pension income -disability 1 (imputed)
    IMAMK61_3_2_18
                    Own pension income -disability 2 (imputed)
   IMAMK61_4_1_18
IMAMK61_4_2_18
IMAMK67_1_1_18
IMAMK67_1_2_18
IMAMK67_2_1_18
                    Own other pension income 1 (imputed)
                    Own other pension income 2 (imputed)
                    Spouse's pension income - retirement 1 (imputed)
                    Spouse's pension income - retirement 2 (imputed)
Spouse's pension income - widow 1 (imputed)
    IMAMK67 2 2 18
                    Spouse's pension income - widow 2 (imputed)
    IMAMK67 3 1 18
                    Spouse's pension income - disability 1 (imputed)
    IMAMK67 3 2 18
                    Spouse's pension income - disability 2 (imputed)
    IMAMK67 4 1 18
                    Spouse's other pension income 1 (imputed)
    IMAMK67 4 2 18
                    Spouse's other pension income 2 (imputed)
    K58A 18
                    Last year: Did respondent receive pension income from r
    K58B 18
                    Last year: Did respondent receive widowhood pension inc
    K58C_18
                    Last year: Did respondent receive disability pension in
    K58D 18
                    Last year: Did respondent receive income from other pen
    K59_1_1_18
K59_1_2_18
                    Respondent's retirement pension source (First Pension)
                    Respondent's retirement pension source (Second Pension)
    K59_2_1_18
K59_2_2_18
                    Respondent's widowhood pension source (First Pension)
                    Respondent's widowhood pension source (Second Pension)
    K59<sup>3</sup>1<sup>1</sup>8
                    Respondent's disability pension source (First Pension)
    K59 3 2 18
                    Respondent's disability pension source (Second Pension)
    K59 4 1 18
                    Respondent's other pension(s) source (First Pension)
    K59 4 2 18
                    Respondent's other pension(s) source (Second Pension)
                    Own pension income -retirement 1 (Flag if imputed value
    K61 1 1 IMP 18
    K61 1 2 IMP 18
                    Own pension income -retirement 2 (Flag if imputed value
    K61 2 1 IMP 18
                    Own pension income -widow 1 (Flag if imputed value)
    K61_2_2_IMP_18
                    Own pension income -widow 2 (Flag if imputed value)
    K61_3_1_IMP_18
                    Own pension income -disability 1 (Flag if imputed value
    K61_3_2_IMP_18
                    Own pension income -disability 2 (Flag if imputed value
    K61_4_1_IMP_18
                    Own other pension income 1 (Flag if imputed value)
    K61_4_2_IMP_18
                    Own other pension income 2 (Flag if imputed value)
    K64C 18
                    Last year: Did respondent's spouse receive retirement p
    K64D 18
                    Last year: Did respondent's spouse receive widowhood pe
    K64E 18
                    Last year: Did respondent's spouse receive disability p
    K64F 18
                    Last year: Did respondent's spouse receive income from
    K65 1 1 18
                    Spouse's retirement pension source (First Pension)
    K65 1 2 18
                    Spouse's retirement pension source (Second Pension)
    K65 2 1 18
                    Spouse's widowhood pension income source (First Pension
    K65 2 2 18
                     Spouse's widowhood pension income source (Second Pensio
    K65 3 1 18
                    Spouse's disability pension income source (First Pensio
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K65_3_2_18	Spouse's disability pension income source (Second Pensi
K65_4_1_18	Spouse's other pension(s) income source (First Pension)
K65_4_2_18	Spouse's other pension(s) income source (Second Pension
K67_1_1_IMP_18	Spouse's pension income - retirement 1 (Flag if imputed
K67_1_2_IMP_18	Spouse's pension income - retirement 2 (Flag if imputed
K67_2_1_IMP_18	Spouse's pension income - widow 1 (Flag if imputed valu
K67_2_2_IMP_18	Spouse's pension income - widow 2 (Flag if imputed valu
K67_3_1_IMP_18	Spouse's pension income - disability 1 (Flag if imputed
K67_3_2_IMP_18	Spouse's pension income - disability 2 (Flag if imputed
K67_4_1_IMP_18	Spouse's other pension income 1 (Flag if imputed value)
K67_4_2_IMP_18	Spouse's other pension income 2 (Flag if imputed value)

Individual Public Pension Income

Wave	Variable	Label	Type
1	R1ISRET	rlisret:wl Income:R Public Old Age + Survivor Pensions	Cont
	R2ISRET	r2isret:w2 Income:R Public Old Age + Survivor Pensions	Cont
	R5ISRET	r5isret:w5 Income:R Public Old Age + Survivor Pensions	Cont
Ü	110101121	Total Color Trade Trade Total Trade Trade Trade Total Total Total Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade Trade	00110
1	Slisret	slisret:wl Income:S Public Old Age + Survivor Pensions	Cont
	S2ISRET	s2isret:w2 Income:S Public Old Age + Survivor Pensions	Cont
	SSISRET	s5isret:w5 Income:S Public Old Age + Survivor Pensions	Cont
Ü	00101121	Coldidating income to replie the right burning remaining	00110
1	R1IFSRET	rlifsret:wl IncFlag:R Public Old Age + Survivor Pensions	Categ
2	R2IFSRET	r2ifsret:w2 IncFlag:R Public Old Age + Survivor Pensions	Categ
5	R5IFSRET	r5ifsret:w5 IncFlag:R Public Old Age + Survivor Pensions	Categ
			,
1	S1IFSRET	slifsret:wl IncFlag:S Public Old Age + Survivor Pensions	Categ
2	S2IFSRET	s2ifsret:w2 IncFlag:S Public Old Age + Survivor Pensions	Categ
5	S5IFSRET	s5ifsret:w5 IncFlag:S Public Old Age + Survivor Pensions	Categ
1	R1ISSDI	rlissdi:wl Income:R Public Disability Pensions	Cont
2	R2ISSDI	r2issdi:w2 Income:R Public Disability Pensions	Cont
5	R5ISSDI	r5issdi:w5 Income:R Public Disability Pensions	Cont
1	S1ISSDI	slissdi:wl Income:S Public Disability Pensions	Cont
2	S2ISSDI	s2issdi:w2 Income:S Public Disability Pensions	Cont
5	S5ISSDI	s5issdi:w5 Income:S Public Disability Pensions	Cont
	R1IFSSDI	rlifssdi:wl IncFlag:R Public Disability Pensions	Categ
2	R2IFSSDI	r2ifssdi:w2 IncFlag:R Public Disability Pensions	Categ
5	R5IFSSDI	r5ifssdi:w5 IncFlag:R Public Disability Pensions	Categ
	01		
	S1IFSSDI	slifssdi:w1 IncFlag:S Public Disability Pensions	Categ
	S2IFSSDI	s2ifssdi:w2 IncFlag:S Public Disability Pensions	Categ
5	S5IFSSDI	s5ifssdi:w5 IncFlag:S Public Disability Pensions	Categ
1	R1IPUBO	rlipubo:wl Income:R Other Public Pensions	Cont
	R2IPUBO	r2ipubo:w2 Income:R Other Public Pensions	Cont
	R5IPUBO	r5ipubo:w5 Income:R Other Public Pensions	Cont
Ü	1.011.020	101500000000000000000000000000000000000	00110
1	S1IPUBO	slipubo:wl Income:S Other Public Pensions	Cont
2	S2IPUBO	s2ipubo:w2 Income:S Other Public Pensions	Cont
5	S5IPUBO	s5ipubo:w5 Income:S Other Public Pensions	Cont
1	R1IFPUBO	rlifpubo:wl IncFlag:R Other Public Pensions	Categ
2	R2IFPUBO	r2ifpubo:w2 IncFlag:R Other Public Pensions	Categ
5	R5IFPUBO	r5ifpubo:w5 IncFlag:R Other Public Pensions	Categ
	S1IFPUBO	slifpubo:w1 IncFlag:S Other Public Pensions	Categ
	S2IFPUBO	s2ifpubo:w2 IncFlag:S Other Public Pensions	Categ
5	S5IFPUBO	s5ifpubo:w5 IncFlag:S Other Public Pensions	Categ
1	D1 T D11 D D D11	1' 1	a .
	R1IPUBPEN	rlipubpen:wl Income:R Public Pensions	Cont
	R2IPUBPEN	r2ipubpen:w2 Income:R Public Pensions	Cont
5	R5IPUBPEN	r5ipubpen:w5 Income:R Public Pensions	Cont
1	Q1 T DIID DENI	elinubnonewil Incomo. C Dublic Donaiona	Cont
	S1IPUBPEN	slipubpen:w1 Income:S Public Pensions	Cont
	S2IPUBPEN	s2ipubpen:w2 Income:S Public Pensions	Cont
5	S5IPUBPEN	s5ipubpen:w5 Income:S Public Pensions	Cont
1	R1IFPUBPEN	rlifpubpen:wl Impflag:R Public Pensions	Categ
2	R2IFPUBPEN	r2ifpubpen:w2 Impflag:R Public Pensions	Categ
5	R5IFPUBPEN	r5ifpubpen:w5 Impflag:R Public Pensions	Categ
J	VOTE FODE DIM	TOTTP AND PORT TIMP TRAY . A TRADITO TOTTO TO	categ

1	S1IFPUBPEN	s1ifpubpen:w1	IncFlag:S	Public	Pensions	Cat	teg
2	S2IFPUBPEN	s2ifpubpen:w2	<pre>IncFlag:S</pre>	Public	Pensions	Cat	teg
5	S5IFPUBPEN	s5ifpubpen:w5	<pre>IncFlag:S</pre>	Public	Pensions	Cat	teg

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ISRET	15118	3854.63	21732.07	0.00	1896648.00
R2ISRET	13662	5212.17	20224.69	0.00	672000.00
R5ISRET	16896	16239.70	61814.88	0.00	3600000.00
S1ISRET	10813	3250.01	15132.94	0.00	480000.00
S2ISRET	9655	4777.12	20858.89	0.00	672000.00
S5ISRET	12498	13525.45	55050.26	0.00	2400000.00
R1IFSRET	15118	0.01	0.07	0.00	1.00
R2IFSRET	13663	0.01	0.08	-1.00	1.00
R5IFSRET	16802	0.02	0.14	0.00	1.00
S1IFSRET	10826	0.00	0.08	-1.00	1.00
S2IFSRET	9666	0.00	0.08	-1.00	1.00
S5IFSRET	11651	0.02	0.14	0.00	1.00
R1ISSDI	15124	195.23	2837.93	0.00	144000.00
R2ISSDI	13673	165.90	2976.68	0.00	192000.00
R5ISSDI	16815	394.60	6968.83	0.00	336000.00
S1ISSDI	10828	191.58	2424.40	0.00	108000.00
S2ISSDI	9671	195.51	3371.06	0.00	192000.00
S5ISSDI	11658	399.19	6867.57	0.00	300000.00
R1IFSSDI	15124	0.00	0.02	0.00	1.00
R2IFSSDI	13673	-0.00	0.01	-1.00	0.00
R5IFSSDI	16814	0.00	0.02	0.00	1.00
S1IFSSDI	10828	0.00	0.02	0.00	1.00
S2IFSSDI	9671	0.00	0.00	0.00	0.00
S5IFSSDI	11658	0.00	0.02	0.00	1.00
R1IPUBO	15124	76.40	2437.76	0.00	240000.00
R2IPUBO	13673	84.94	2851.40	0.00	240000.00
R5IPUBO	16813	194.55	6590.08	0.00	540000.00
S1IPUBO	10826	40.86	1196.55	0.00	72000.00
S2IPUBO	9670	102.04	3342.12	0.00	240000.00
S5IPUBO	11657	220.61	7548.81	0.00	540000.00
R1IFPUBO	15124	0.00	0.01	0.00	1.00
R2IFPUBO	13673	-0.00	0.04	-1.00	0.00
R5IFPUBO	16813	0.00	0.02	0.00	1.00
S1IFPUBO	10826	0.00	0.00	0.00	0.00
S2IFPUBO	9556	-0.00	0.05	-1.00	0.00
S5IFPUBO	11657	0.00	0.02	0.00	1.00
R1IPUBPEN	15114	4126.51	22091.10	0.00	1896648.00
R2IPUBPEN	13662	5463.21	20946.85	0.00	672000.00
R5IPUBPEN	16794	16904.04	62635.11	0.00	3600000.00
S1IPUBPEN	10794	3487.56	15382.06	0.00	480000.00
S2IPUBPEN	9654	5075.68	21798.82	0.00	672000.00
S5IPUBPEN	11642	15119.45	57686.92	0.00	2400000.00

R1IFPUBPEN 15126	0.01	0.08	0.00	1.00	
R2IFPUBPEN 13673	0.00	0.09	-1.00	1.00	
R5IFPUBPEN 16821	0.02	0.14	0.00	1.00	
10111021211 10021	0.02	0.11	0.00	2.00	
S1IFPUBPEN 10813	0.00	0.08	-1.00	1.00	
S2IFPUBPEN 9671	0.00	0.09	-1.00	1.00	
S5IFPUBPEN 11658	0.02	0.14	0.00	1.00	
Categorical Variable Codes					
Categorical variable codes					
Value		R1IFSRET	R2IFSRET		R5IFSRET
.m:Missing	1	68	41		312
-1.No Imput:section not complete	I		2		
0.Not imputed	I	15033	13585		16482
1.Imputed		85	76		320
Value		S1IFSRET	S2IFSRET		S5IFSRET
.m:Missing	i	173	30		417
.u:Unmar	i	4187	4008		5223
-1.No Imput:section not complete	1	13	13		
0.Not imputed	1	10759	9605		11418
1.Imputed	I	54	48		233
Value	1	R1IFSSDI	R2IFSSDI		R5IFSSDI
.m:Missing		62	31		300
-1.No Imput:section not complete	i	02	1		300
0.Not imputed	i	15118	13672		16805
1.Imputed	i	6			9
-					
Value		S1IFSSDI	S2IFSSDI		S5IFSSDI
.m:Missing	I	171	25		410
.u:Unmar	<u> </u>	4187	4008		5223
0.Not imputed	ļ.	10824	9671		11652
1.Imputed	I	4			6
Value		R1IFPUBO	R2IFPUBO		R5IFPUBO
.m:Missing	i	62	31		301
-1.No Imput:section not complete	i		24		301
		45400	40640		1.0000

15122

2

4188

10826

15034

92

170

4203

13

5.8

10742

S1IFPUBPEN S2IFPUBPEN

S1IFPUBO

172

60

13649

140

4008

9533

23

27

13570

25

4008

36

9587

48

S2IFPUBO

R2IFPUBPEN

31

16808

S5IFPUBO

5

411 5223

11653

16489

332

405

5227

11417

2.41

R5IFPUBPEN

S5IFPUBPEN

How	Constru	hata

0.Not imputed

Value-----

Value-----

Value----- R1IFPUBPEN

-1.No Imput:section not complete

-1.No Imput:section not complete

-1.No Imput:section not complete

0.Not imputed

1.Imputed

.m:Missing

0.Not imputed

0.Not imputed

.u:Unmar

1.Imputed

.m:Missing

1.Imputed

.m:Missing

.u:Unmar

1.Imputed

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and

those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

RwISRET and SwISRET capture the respondent's and spouse's individual income from public retirement and widowhood pensions at an annual-level, respectively. RwISRET and SwISRET include income from retirement pensions and widowhood pensions from public providers. Public retirement and widowhood pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

The financial respondent is first asked "Excluding income you have already mentioned, during the last year did you receive income from retirement pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from widowhood pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" RWISRET is derived as yearly income from public retirement and widowhood pensions by adding the reported monthly public pension income from retirement pensions and widowhood pensions, and then multiplying by 12. In the case that the respondent does not receive any pension income from a public retirement or widowhood pension, RwISRET has a value of 0. Special missing .m is used if at least one component of RwISRET was not imputed because the section was not completed. RwISRET is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is first asked "Excluding income you have already mentioned, during the last year did your spouse receive income from retirement pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from widowhood pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" SwISRET is derived as yearly income from public retirement and widowhood pensions by adding the reported monthly public pension income from retirement pensions and widowhood pensions, and then multiplying by 12. In the case that the spouse does not receive any pension income from a public retirement or widowhood pension, SwISRET has a value of 0. Special missing .m is used if at least one component of SwISRET was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwISRET is set to blank missing (.) if the respondent did not participate in the current wave.

RWIFSRET and SWIFSRET are flag variables indicating whether or not any component of RWISRET or SWISRET was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RWIFSRET and SWIFSRET are set to blank missing (.) if the respondent did not participate in the current wave.

RwISSDI and SwISSDI capture the respondent's and spouse's income from public disability pensions at an annual-level, respectively. RwISSDI and SwISSDI capture income from disability or work accident pensions from public providers. Public disability pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from disability or work accident pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" RwISSDI is derived as yearly income from public disability pensions by multiplying the reported monthly public pension income from disability and work accident pensions by 12. In the case that the respondent does not receive any pension income from a public disability or work accident pension, RwISSDI has a value of 0. Special missing .m is used if at

least one component of RwISSDI was not imputed because the section was not completed. RwISSDI is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from disability or work accident pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" SwISSDI is derived as yearly income from public disability pensions by multiplying the reported monthly public pension income from disability and work accident pensions by 12. In the case that the spouse does not receive any pension income from a public disability or work accident pension, SwISSDI has a value of 0. Special missing .m is used if at least one component of SwISSDI was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwISSDI is set to blank missing (.) if the respondent did not participate in the current wave.

RwIFSSDI and SwIFSSDI are flag variables indicating whether or not any component of RwISSDI or SwISSDI was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RwIFSSDI and SwIFSSDI are set to blank missing (.) if the respondent did not participate in the current wave.

RwIPUBO and SwIPUBO capture the respondent's and spouse's income from other public pensions at an annual-level, respectively. RwIPUBO and SwIPUBO capture income from other pensions from public providers. Other public pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

The financial respondent is asked "Excluding income you have already mentioned, during the last year did you receive income from other pensions." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" RwIPUBO is derived as yearly income from other public pensions by multiplying the reported monthly public pension income from other pensions by 12. In the case that the respondent does not receive any pension income from other public pensions, RwIPUBO has a value of 0. Special missing .m is used if at least one component of RwIPUBO was not imputed because the section was not completed. RwIPUBO is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is asked "Excluding income you have already mentioned, during the last year did your spouse receive income from other pensions." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "IMSS", "ISSSTE", and "Other Public (PEMEX, DEFENSA, MARINA, CFE, BANXICO)". If they answer any of the public providers, they are asked "About how much was it in a typical month?" SwIPUBO is derived as yearly income from other public pensions by multiplying the reported monthly public pension income from other pensions by 12. In the case that the spouse does not receive any pension income from other public pensions, SwIPUBO has a value of 0. Special missing .m is used if at least one component of SwIPUBO was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIPUBO is set to blank missing (.) if the respondent did not participate in the current wave.

RWIFPUBO and SWIFPUBO are flag variables indicating whether or not any component of RWIPUBO or SWIPUBO was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RWIFPUBO and SWIFPUBO are set to blank missing (.) if the respondent did not participate in the current wave.

RWIPUBPEN and SwIPUBPEN capture the respondent's and spouse's total income from public pensions at an annual-level, respectively. RWIPUBPEN and SWIPUBPEN are based on information from:

Income from public retirement and widowhood pensions, as previously described.

Income from public disability pensions, as previously described.

Income from other public pensions, as previously described.

RWIPUBPEN and SwIPUBPEN are, respectively, constructed as the sum of respondent's or spouse's income from public retirement and widowhood pensions, public disability pensions, and other public pensions. All components of these variables are constructed at the respondent level and include imputed values. Special missing .m is used if at least one component of RwIPUBPEN or SwIPUBPEN was not imputed because the respondent did not complete the section. RwIPUBPEN and SwIPUBPEN are set to blank missing (.) if the respondent did not participate in the current wave.

RWIFPUBPEN and SWIFPUBPEN are flag variables indicating whether or not any component of RWIPUBPEN or SWIPUBPEN was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RWIFPUBPEN and SWIFPUBPEN are set to blank missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

In Waves 1 and 2 of MHAS, respondents were allowed to identify a single pension type for retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and RwIPUBPEN (and its components) were able to be created. In Waves 3 and 4 of MHAS, respondents were allowed to identify multiple pension providers for each type of pension but were only asked one amount, regardless of how many different providers were identified. Given this, it is not possible to identify pension income in Waves 3 and 4 exclusively from public providers and RwIPUBPEN (and its components) cannot be created. Starting in Wave 5, respondents were asked to report up to two pensions types for retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions and for each of these they had to select only one provider. Thus, it was possible to create RwIPUBPEN (and its components) again in Wave 5.

A total measure of pension income is available for all waves in the variable RWIPENT.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not include a variable capturing total public pension income like RwIPUBPEN in the Harmonized MHAS. While RwISRET and RwISSDI are generally comparable between Harmonized MHAS and RAND HRS, military pension income which can be included in RwISRET, RwISSDI, or RwIPUBO in the Harmonized MHAS is instead aggregated with other government transfers in RwIGXFR in the RAND HRS.

In the HRS, respondents are instructed to report pension income before taxes and deductions. In the MHAS, pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income from public pensions in MHAS is measured in nominal pesos, whereas public pension income in the RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

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Wave 1.
   IMAM55A
                    own pension income -retirement (imputed)
    IMAM55B
                    own pension income -widow (imputed)
                    own pension income -disability (imputed)
    IMAM55C
   IMAM55D
                    own other pension income
   IMAM61A
                    spouse's pension income -retirement (imputed)
   IMAM61B
                    spouse's pension income -widow (imputed)
   TMAM61C
                    spouse's pension income -disability (imputed)
                    spouse's other pension income (imputed)
   IMAM61D
   K55AIMP
                    if imputed value
   K55BIMP
                    if imputed value
   K55CIMP
                    if imputed value
   K55DIMP
                    if imputed value
   K56 1
                    source of retirement pension
   K56 2
                   source of widowhood pension
                   source of disability pension
   K56 3
                   source of other pension
   K56 4
   K61AIMP
                   if imputed value
```

```
K61BIMP
                     if imputed value
                     if imputed value
    K61CIMP
                     if imputed value
    K61DTMP
    K62 1
                     source of retirement pension of spouse
    K62 2
                     source of widowhood pension of spouse
    K62 3
                     source of disability pension of spouse
    K62 4
                     source of other pension of spouse
Wave 2:
    IMAM58A
                     own pension income -retirement (imputed)
                     own pension income -widow (imputed)
    TMAM58B
    IMAM58C
                     own pension income -disability (imputed)
    IMAM58D
                     own other pension income
    IMAM64C
                     spouse's pension income -retirement (imputed)
    IMAM64D
                     spouse's pension income -widow (imputed)
                     spouse's pension income -disability (imputed)
    IMAM64E
    IMAM64F
                     spouse's other pension income (imputed)
                     if imputed value
    K58ATMP
    K58BIMP
                     if imputed value
    K58DIMP
                     if imputed value
                     source of retirement pension
    K59A
    K59B
                     source of widowhood pension
    K59C
                     source of disability pension
    K59D
                     source of other pension
                     if imputed value
    K64CIMP
    K64DIMP
                     if imputed value
    K64EIMP
                     if imputed value
                     if imputed value
    K64FIMP
    K65C
                     source of retirement pension of spouse
    K65D
                     source of widowhood pension of spouse
                     source of disability pension of spouse
    K65E
                     source of other pension of spouse
    K65F
Wave 5:
    IMAMK61 1 1 18 Own pension income -retirement 1 (imputed)
    IMAMK61 1 2 18 Own pension income -retirement 2 (imputed)
    IMAMK61 2 1 18
                     Own pension income -widow 1 (imputed)
    IMAMK61 2 2 18
                     Own pension income -widow 2 (imputed)
                     Own pension income -disability 1 (imputed)
    IMAMK61_3_1_18
    IMAMK61_3_2_18
                     Own pension income -disability 2 (imputed)
                     Own other pension income 1 (imputed)
    IMAMK61_4_1_18
    IMAMK61_4_2_18 Own other pension income 2 (imputed)
IMAMK67_1_1_18 Spouse's pension income - retirement 1 (imp
IMAMK67_1_2_18 Spouse's pension income - retirement 2 (imp
IMAMK67_2_1_18 Spouse's pension income - widow 1 (imputed)
IMAMK67_2_2_18 Spouse's pension income - widow 2 (imputed)
                     Spouse's pension income - retirement 1 (imputed)
                     Spouse's pension income - retirement 2 (imputed)
    IMAMK67 3 1 18 Spouse's pension income - disability 1 (imputed)
    IMAMK67 3 2 18 Spouse's pension income - disability 2 (imputed)
    IMAMK67 4 1 18 Spouse's other pension income 1 (imputed)
    IMAMK67 4 2 18 Spouse's other pension income 2 (imputed)
    K58A 18
                     Last year: Did respondent receive pension income from r
    K58B 18
                     Last year: Did respondent receive widowhood pension inc
    K58C_18
                     Last year: Did respondent receive disability pension in
    K58D 18
                     Last year: Did respondent receive income from other pen
    K59_1_1_18
                     Respondent's retirement pension source (First Pension)
    K59_1_2_18
                     Respondent's retirement pension source (Second Pension)
    K59_2_1_18
K59_2_2_18
                     Respondent's widowhood pension source (First Pension)
                     Respondent's widowhood pension source (Second Pension)
    K59_3_1_18
                     Respondent's disability pension source (First Pension)
    K59 3 2 18
                     Respondent's disability pension source (Second Pension)
    K59 4 1 18
                     Respondent's other pension(s) source (First Pension)
    K59 4 2 18
                     Respondent's other pension(s) source (Second Pension)
    K61 1 1 IMP 18
                     Own pension income -retirement 1 (Flag if imputed value
    K61 1 2 IMP 18
                     Own pension income -retirement 2 (Flag if imputed value
    K61 2 1 IMP 18
                     Own pension income -widow 1 (Flag if imputed value)
    K61 2 2 IMP 18
                     Own pension income -widow 2 (Flag if imputed value)
```

```
K61 3 1 IMP 18
                Own pension income -disability 1 (Flag if imputed value
K61 3 2 IMP 18
                Own pension income -disability 2 (Flag if imputed value
K61 4 1 IMP 18
                Own other pension income 1 (Flag if imputed value)
K61 4 2 IMP 18
                Own other pension income 2 (Flag if imputed value)
                Last year: Did respondent's spouse receive retirement p
K64C 18
K64D 18
                Last year: Did respondent's spouse receive widowhood pe
K64E 18
                Last year: Did respondent's spouse receive disability p
K64F 18
                Last year: Did respondent's spouse receive income from
K65_1_1_18
                Spouse's retirement pension source (First Pension)
                Spouse's retirement pension source (Second Pension)
K65_1_2_18
K65_2_1_18
                Spouse's widowhood pension income source (First Pension
K65_2_2_18
                Spouse's widowhood pension income source (Second Pensio
K65_3_1_18
                Spouse's disability pension income source (First Pensio
K65_3_2_18
K65_4_1_18
                Spouse's disability pension income source (Second Pensi
                Spouse's other pension(s) income source (First Pension)
K65_4_2_18
                Spouse's other pension(s) income source (Second Pension
K67 1 1 IMP 18
                Spouse's pension income - retirement 1 (Flag if imputed
K67_1_2 IMP 18
                Spouse's pension income - retirement 2 (Flag if imputed
K67 2 1 IMP 18
                Spouse's pension income - widow 1 (Flag if imputed valu
K67 2 2 IMP 18
                Spouse's pension income - widow 2 (Flag if imputed valu
K67 3 1 IMP 18
                Spouse's pension income - disability 1 (Flag if imputed
K67 3 2 IMP 18
                Spouse's pension income - disability 2 (Flag if imputed
K67 4 1 IMP 18
                Spouse's other pension income 1 (Flag if imputed value)
K67 4 2 IMP 18 Spouse's other pension income 2 (Flag if imputed value)
```

Individual Other Pensions Income

Wave	Variable	Label	Туре
1	R1IPENO	<pre>rlipeno:wl Income:R Other Pensions r2ipeno:w2 Income:R Other Pensions r5ipeno:w5 Income:R Other Pensions</pre>	Cont
2	R2IPENO		Cont
5	R5IPENO		Cont
1	S1IPENO	<pre>slipeno:wl Income:S Other Pensions s2ipeno:w2 Income:S Other Pensions s5ipeno:w5 Income:S Other Pensions</pre>	Cont
2	S2IPENO		Cont
5	S5IPENO		Cont
1	R1IFPENO	rlifpeno:wl ImpFlag:R Other Pensions	Categ
2	R2IFPENO	r2ifpeno:w2 ImpFlag:R Other Pensions	Categ
5	R5IFPENO	r5ifpeno:w5 ImpFlag:R Other Pensions	Categ
1	S1IFPENO	<pre>slifpeno:wl ImpFlag:S Other Pensions s2ifpeno:w2 ImpFlag:S Other Pensions s5ifpeno:w5 ImpFlag:S Other Pensions</pre>	Categ
2	S2IFPENO		Categ
5	S5IFPENO		Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IPENO	15114	547.59	8133.50	0.00	453600.00
R2IPENO	13661	619.03	7199.61	0.00	240000.00
R5IPENO	16783	1787.01	18100.75	0.00	1056000.00
S1IPENO	10820	443.40	7957.30	0.00	453600.00
S2IPENO	9665	615.96	7716.95	0.00	240000.00
S5IPENO	11642	1384.66	15159.08	0.00	600000.00
R1IFPENO	15114	0.00	0.03	0.00	1.00
R2IFPENO	13662	0.00	0.03	-1.00	1.00
R5IFPENO	16783	0.00	0.05	0.00	1.00
S1IFPENO	10822	0.00	0.03	-1.00	1.00
S2IFPENO	9666	0.00	0.03	-1.00	1.00
S5IFPENO	11642	0.00	0.04	0.00	1.00

Categorical Variable Codes

Value	R1IFPENO	R2IFPENO	R5IFPENO
.m:Missing	72	42	331
-1.No Imput:section not complete		1	
0.Not imputed	15097	13649	16748
1.Imputed	17	12	35
Value	S1IFPENO	S2IFPENO	S5IFPENO
.m:Missing	176	30	426
.u:Unmar	4188	4008	5223
-1.No Imput:section not complete	2	1	
0.Not imputed	10814	9655	11619
1.Imputed	6	10	23

How Constructed

RwIPENO and SwIPENO capture the respondent's and spouse's individual income from other pensions at an annual-level, respectively. RwIPENO and SwIPENO include income from all pensions from an other type of pension provider (not specially a private provider or a public provider), including retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions. Other pension income

questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

The financial respondent is first asked "Excluding income you have already mentioned, during the last year did you receive income from retirement pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from widowhood pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from disability or work accident pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" The financial respondent is finally asked "Excluding income you have already mentioned, during the last year did you receive income from other pensions." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" RwIPENO is derived as yearly income from other pensions by adding the reported monthly other pension income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and then multiplying by 12. In the case that the respondent does not receive any pension income from a other pension provider, RwIPENO has a value of 0. Special missing .m is used if at least one component of RwIPENO was not imputed because the section was not completed. RwIPENO is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is first asked "Excluding income you have already mentioned, during the last year did your spouse receive income from retirement pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from widowhood pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from disability or work accident pension." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" The financial respondent is finally asked "Excluding income you have already mentioned, during the last year did your spouse receive income from other pensions." If they answer yes, they are then asked "This pension comes from...?" and are given 7 possible pension providers including "U.S. Social Security", "Other Institution", "A Person", or "Refused" or "Don't know" pension provider. If they answer any of these non-public, non-private pension providers, they are asked "About how much was it in a typical month?" SwIPENO is derived as yearly income from other pensions by adding the reported monthly other pension income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and then multiplying by 12. In the case that the spouse does not receive any pension income from an other pension provider, SwIPENO

has a value of 0. Special missing .m is used if at least one component of SwIPENO was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIPENO is set to blank missing (.) if the respondent did not participate in the current wave.

For questions eliciting a value included in RWIPENO and SWIPENO, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWIFPENO and SWIPENO are flag variables indicating whether or not any component of RWIPENO or SWIPENO was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RWIFPENO and SWIFPENO are set to blank missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

In Waves 1 and 2 of MHAS, respondents were allowed to identify a single pension type for retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and RwIPENO was able to be created. In Waves 3 and 4 of MHAS, respondents were allowed to identify multiple pension providers for each type of pension but were only asked one amount, regardless of how many different providers were identified. Given this, in Waves 3 and 4, it is not possible to identify pension income exclusively from other pension providers and RwIPENO cannot be created. Starting in Wave 5, respondents were asked to report up to two pensions and for each of these they had to select only one provider. Thus RwIPENO was possible to create.

A total measure of pension income is available for all waves in the variable RWIPENT.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not have an equivalent variable. All non-Social Security pension and annuity income in the RAND HRS is captured in RwIPENA.

In the HRS, respondents are instructed to report pension income before taxes and deductions. In the MHAS, pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income from other pensions in MHAS is measured in nominal pesos, whereas pension income in the RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

```
Wave 1:
   IMAM55A
                    own pension income -retirement (imputed)
   IMAM55B
                    own pension income -widow (imputed)
   IMAM55C
                    own pension income -disability (imputed)
   IMAM55D
                    own other pension income
   TMAM61A
                    spouse's pension income -retirement (imputed)
   IMAM61B
                    spouse's pension income -widow (imputed)
    IMAM61C
                    spouse's pension income -disability (imputed)
    IMAM61D
                    spouse's other pension income (imputed)
   K55AIMP
                    if imputed value
   K55BIMP
                    if imputed value
                    if imputed value
   K55CIMP
                    if imputed value
   K55DIMP
                   source of retirement pension
   K56 1
                   source of widowhood pension
   K56 2
   K56 3
                   source of disability pension
```

```
K56 4
                     source of other pension
                     if imputed value
    K61AIMP
                     if imputed value
    K61BTMP
    K61CIMP
                     if imputed value
    K61DIMP
                     if imputed value
    K62 1
                     source of retirement pension of spouse
    K62 2
                     source of widowhood pension of spouse
    K62 3
                     source of disability pension of spouse
    K62 4
                     source of other pension of spouse
Wave 2:
    IMAM58A
                     own pension income -retirement (imputed)
    IMAM58B
                     own pension income -widow (imputed)
                     own pension income -disability (imputed)
    IMAM58C
    IMAM58D
                     own other pension income
    IMAM64C
                     spouse's pension income -retirement (imputed)
                     spouse's pension income -widow (imputed)
    IMAM64D
                     spouse's pension income -disability (imputed)
    IMAM64E
    IMAM64F
                     spouse's other pension income (imputed)
    K58AIMP
                     if imputed value
                     if imputed value
    K58BTMP
    K58DIMP
                     if imputed value
    K59A
                     source of retirement pension
    K59B
                    source of widowhood pension
    K59C
                    source of disability pension
    K59D
                     source of other pension
    K64CIMP
                     if imputed value
    K64DIMP
                     if imputed value
    K64EIMP
                     if imputed value
    K64FIMP
                     if imputed value
    K65C
                     source of retirement pension of spouse
                     source of widowhood pension of spouse
    K65D
    K65E
                     source of disability pension of spouse
    K65F
                     source of other pension of spouse
    IMAMK61 1 1 18 Own pension income -retirement 1 (imputed)
    IMAMK61 1 2 18 Own pension income -retirement 2 (imputed)
    IMAMK61_2_1_18
                     Own pension income -widow 1 (imputed)
    IMAMK61_2_2_18
                     Own pension income -widow 2 (imputed)
    IMAMK61_3_1_18
                     Own pension income -disability 1 (imputed)
    IMAMK61_3_2_18
                     Own pension income -disability 2 (imputed)
    IMAMK61_4_1_18 Own other pension income 1 (imputed)
IMAMK61_4_2_18 Own other pension income 2 (imputed)
IMAMK67_1_1_18 Spouse's pension income - retirement 1 (imputed)
IMAMK67_1_2_18 Spouse's pension income - retirement 2 (imputed)
    IMAMK67 2 1 18 Spouse's pension income - widow 1 (imputed)
    IMAMK67 2 2 18 Spouse's pension income - widow 2 (imputed)
    IMAMK67 3 1 18 Spouse's pension income - disability 1 (imputed)
    IMAMK67 3 2 18 Spouse's pension income - disability 2 (imputed)
    IMAMK67 4 1 18 Spouse's other pension income 1 (imputed)
    IMAMK67 4 2 18 Spouse's other pension income 2 (imputed)
    K58A 18
                     Last year: Did respondent receive pension income from r
    K58B 18
                     Last year: Did respondent receive widowhood pension inc
    K58C_18
                     Last year: Did respondent receive disability pension in
    K58D 18
                     Last year: Did respondent receive income from other pen
    K59_1_1_18
K59_1_2_18
                     Respondent's retirement pension source (First Pension)
                     Respondent's retirement pension source (Second Pension)
    K59_2_1_18
K59_2_2_18
                     Respondent's widowhood pension source (First Pension)
                     Respondent's widowhood pension source (Second Pension)
    K59 3 1 18
                     Respondent's disability pension source (First Pension)
    K59 3 2 18
                     Respondent's disability pension source (Second Pension)
    K59 4 1 18
                     Respondent's other pension(s) source (First Pension)
    K59 4 2 18
                     Respondent's other pension(s) source (Second Pension)
                     Own pension income -retirement 1 (Flag if imputed value
    K61 1 1 IMP 18
    K61 1 2 IMP 18
                     Own pension income -retirement 2 (Flag if imputed value
```

```
K61 2 1 IMP 18
                Own pension income -widow 1 (Flag if imputed value)
K61_2_2_IMP_18
                Own pension income -widow 2 (Flag if imputed value)
K61 3 1 IMP 18
                Own pension income -disability 1 (Flag if imputed value
K61 3 2 IMP 18
                Own pension income -disability 2 (Flag if imputed value
K61 4 1 IMP 18
                Own other pension income 1 (Flag if imputed value)
K61 4 2 IMP 18
                Own other pension income 2 (Flag if imputed value)
K64C 18
                Last year: Did respondent's spouse receive retirement p
K64D 18
                Last year: Did respondent's spouse receive widowhood pe
K64E 18
                Last year: Did respondent's spouse receive disability p
K64F_18
                Last year: Did respondent's spouse receive income from
K65_1_1_18
                Spouse's retirement pension source (First Pension)
K65_1_2_18
                Spouse's retirement pension source (Second Pension)
K65_2_1_18
                Spouse's widowhood pension income source (First Pension
K65_2_2_18
K65_3_1_18
                Spouse's widowhood pension income source (Second Pensio
                Spouse's disability pension income source (First Pensio
K65 3 2 18
                Spouse's disability pension income source (Second Pensi
K65 4 1 18
                Spouse's other pension(s) income source (First Pension)
                Spouse's other pension(s) income source (Second Pension
K65 4 2 18
K67 1 1 IMP 18
                Spouse's pension income - retirement 1 (Flag if imputed
K67 1 2 IMP 18
                Spouse's pension income - retirement 2 (Flag if imputed
K67 2 1 IMP 18
                Spouse's pension income - widow 1 (Flag if imputed valu
K67 2 2 IMP 18
                Spouse's pension income - widow 2 (Flag if imputed valu
K67 3 1 IMP 18
                Spouse's pension income - disability 1 (Flag if imputed
K67_3_2_IMP_18
                Spouse's pension income - disability 2 (Flag if imputed
K67_4_1_IMP_18
                Spouse's other pension income 1 (Flag if imputed value)
K67 4 2 IMP 18 Spouse's other pension income 2 (Flag if imputed value)
```

Individual Total Pensions Income

Wave	Variable	Label	Type
1	R1IPENT	rlipent:wl Income:R Total Pensions	Cont
2	R2IPENT	r2ipent:w2 Income:R Total Pensions	Cont
3	R3IPENT	r3ipent:w3 Income:R Total Pensions	Cont
4	R4IPENT	r4ipent:w4 Income:R Total Pensions	Cont
5	R5IPENT	r5ipent:w5 Income:R Total Pensions	Cont
1	Slipent	slipent:wl Income:S Total Pensions	Cont
2	S2IPENT	s2ipent:w2 Income:S Total Pensions	Cont
3	S3IPENT	s3ipent:w3 Income:S Total Pensions	Cont
4	S4IPENT	s4ipent:w4 Income:S Total Pensions	Cont
5	S5IPENT	s5ipent:w5 Income:S Total Pensions	Cont
1	R1IFPENT	rlifpent:wl Impflag:R Total Pensions	Categ
2	R2IFPENT	r2ifpent:w2 Impflag:R Total Pensions	Categ
3	R3IFPENT	r3ifpent:w3 Impflag:R Total Pensions	Categ
4	R4IFPENT	r4ifpent:w4 Impflag:R Total Pensions	Categ
5	R5IFPENT	r5ifpent:w5 Impflag:R Total Pensions	Categ
1	S1IFPENT	slifpent:wl IncFlag:S Total Pensions	Categ
2	S2IFPENT	s2ifpent:w2 IncFlag:S Total Pensions	Categ
3	S3IFPENT	s3ifpent:w3 IncFlag:S Total Pensions	Categ
4	S4IFPENT	s4ifpent:w4 IncFlag:S Total Pensions	Categ
5	S5IFPENT	s5ifpent:w5 IncFlag:S Total Pensions	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IPENT	15126	4808.71	23989.14	0.00	1896648.00
R2IPENT	13662	6242.92	22519.06	0.00	672000.00
R3IPENT	15721	13151.05	46446.20	0.00	2400000.00
R4IPENT	14745	33634.35	1159588.49	0.00	108000000.00
R5IPENT	17094	18893.92	65537.60	0.00	3600000.00
Slipent	10632	4104.51	18209.60	0.00	516000.00
S2IPENT	9547	5898.99	23486.08	0.00	672000.00
S3IPENT	10590	12365.07	49709.32	0.00	240000.00
S4IPENT	10343	27921.65	888056.79	0.00	9000000.00
S5IPENT	11969	16905.07	60165.14	0.00	2400000.00
R1IFPENT	15126	0.01	0.09	0.00	1.00
R2IFPENT	13673	0.01	0.09	-1.00	1.00
R3IFPENT	15723	0.02	0.15	-1.00	1.00
R4IFPENT	14745	0.02	0.15	0.00	1.00
R5IFPENT	17094	0.04	0.19	0.00	1.00
Slifpent	10932	-0.02	0.18	-1.00	1.00
S2IFPENT	9673	-0.01	0.14	-1.00	1.00
S3IFPENT	10941	-0.01	0.23	-1.00	1.00
S4IFPENT	10414	0.02	0.17	-1.00	1.00
S5IFPENT	12059	0.04	0.23	-1.00	1.00

Categorical Variable Codes

Value		Rlifpent	R2IFPENT	R3IFPENT	R4IFPENT	R5IFPENT
.m:Missing		60	31		34	20
-1.No Imput:section not complete			11	2		
0.Not imputed		15014	13570	15337	14417	16424

1.Imputed	I	112	92	384	328	670
Value		S1IFPENT	S2IFPENT	S3IFPENT	S4IFPENT	S5IFPENT
.m:Missing		51	23		22	9
.u:Unmar		4203	4008	4782	4343	5223
-1.No Imput:section not complete		300	126	351	71	90
0.Not imputed		10565	9488	10339	10100	11372
1.Imputed		67	59	251	243	597

How Constructed

RWIPENT and SwIPENT capture the respondent's and spouse's total income from pensions at an annual-level, respectively. RwIPENT and SwIPENT include income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, regardless of the provider. These variables were created to specifically capture pension income after Wave 2, given that it is not possible to separate income from different types of pension providers in Waves 3 and 4. For all other waves, RwIPENA, RwIPUBPEN, and RwIPUBO, as a group, also capture total income from pensions. Pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

The financial respondent is first asked "Excluding income you have already mentioned, during the last year did you receive income from retirement pension." If they answer yes, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from widowhood pension." If they answer yes, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did you receive income from disability or work accident pension." If they answer yes, they are asked "About how much was it in a typical month?" The financial respondent is finally asked "Excluding income you have already mentioned, during the last year did you receive income from other pensions." If they answer yes, they are asked "About how much was it in a typical month?" RwIPENT is derived as yearly income from pensions by adding the reported monthly pension income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and then multiplying by 12. In the case that the respondent does not receive any pension income, RwIPENT has a value of 0. Special missing .m is used if at least one component of RwIPENT was not imputed because the section was not completed. RwIPENT is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is first asked "Excluding income you have already mentioned, during the last year did your spouse receive income from retirement pension." If they answer yes, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from widowhood pension." If they answer yes, they are asked "About how much was it in a typical month?" The financial respondent is next asked "Excluding income you have already mentioned, during the last year did your spouse receive income from disability or work accident pension." If they answer yes, they are asked "About how much was it in a typical month?" The financial respondent is finally asked "Excluding income you have already mentioned, during the last year did your spouse receive income from other pensions." If they answer yes, they are asked "About how much was it in a typical month?" SwIPENT is derived as yearly income from pensions by adding the reported monthly pension income from retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions, and then multiplying by 12. In the case that the spouse does not receive any pension income, SwIPENT has a value of O. Special missing .m is used if at least one component of SwIPENT was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIPENT is set to blank missing (.) if the respondent did not participate in the current wave.

For questions eliciting a value included in RWIPENT and SWIPENT, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made

available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWIFPENT and SWIFPENT are flag variables indicating whether or not any component of RWIPENT or SWIPENT was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing. RWIFPENT and SWIFPENT are set to blank missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

In Waves 1 and 2 of MHAS, respondents were allowed to identify a single pension type for retirement pensions, widowhood pensions, disability or work accident pensions, or other pensions. In Wave 3, respondents were allowed to identify multiple pension providers for each type of pension but were only asked one amount, regardless of how many different providers were identified. In Wave 4, respondents were also allowed indentify multiple providers for up to three pensions. Respondents were also asked to provide the amount for up to three pensions, however, since the respondent could select multiple providers it is not possible to associate one amount for public or private providers. In Wave 5, respondents were asked to report up to two pensions and for each of these they had to select only one provider.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS does not have an equivalent variable.

In the HRS, respondents are instructed to report pension income before taxes and deductions. In the MHAS, pension income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income from pensions in MHAS is measured in nominal pesos, whereas pension income in the RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

```
Wave 1:
    TMAM55A
                    own pension income -retirement (imputed)
    TMAM55B
                    own pension income -widow (imputed)
    IMAM55C
                    own pension income -disability (imputed)
    IMAM55D
                    own other pension income
    IMAM61A
                    spouse's pension income -retirement (imputed)
    IMAM61B
                    spouse's pension income -widow (imputed)
                    spouse's pension income -disability (imputed)
    IMAM61C
    TMAM61D
                    spouse's other pension income (imputed)
   K55AIMP
                    if imputed value
   K55BIMP
                    if imputed value
   K55CIMP
                    if imputed value
   K55DIMP
                    if imputed value
   K56 1
                    source of retirement pension
   K56 2
                    source of widowhood pension
   K56 3
                    source of disability pension
   K56 4
                    source of other pension
   K61AIMP
                    if imputed value
    K61BIMP
                    if imputed value
    K61CIMP
                    if imputed value
    K61DIMP
                    if imputed value
    K62 1
                    source of retirement pension of spouse
    K62 2
                    source of widowhood pension of spouse
    K62 3
                   source of disability pension of spouse
    K62 4
                   source of other pension of spouse
Wave 2:
```

```
IMAM58A
                     own pension income -retirement (imputed)
                     own pension income -widow (imputed)
    IMAM58B
    IMAM58C
                     own pension income -disability (imputed)
    IMAM58D
                     own other pension income
    TMAM64C
                     spouse's pension income -retirement (imputed)
    IMAM64D
                     spouse's pension income -widow (imputed)
    IMAM64E
                     spouse's pension income -disability (imputed)
    IMAM64F
                     spouse's other pension income (imputed)
                     if imputed value
    K58AIMP
    K58BIMP
                     if imputed value
    K58DIMP
                    if imputed value
    K59A
                     source of retirement pension
    K59B
                    source of widowhood pension
    K59C
                    source of disability pension
   K59D
                    source of other pension
                    if imputed value
    K64CIMP
                    if imputed value
    K64DTMP
    K64EIMP
                    if imputed value
    K64FIMP
                    if imputed value
                    source of retirement pension of spouse
    K65C
    K65D
                    source of widowhood pension of spouse
    K65E
                    source of disability pension of spouse
    K65F
                     source of other pension of spouse
Wave 3:
    IMAMK61_1_12
                    Own pension income -retirement (imputed)
    IMAMK61_2_12
IMAMK61_3_12
IMAMK61_4_12
                     Own pension income -widow (imputed)
                     Own pension income -disability (imputed)
                     Own other pension income (imputed)
    IMAMK67_1_12
IMAMK67_2_12
                     Spouse's pension income - retirement (imputed)
Spouse's pension income - widow (imputed)
    IMAMK67 3 12
                     Spouse's pension income - disability (imputed)
    IMAMK67 4 12
                     Spouse's other pension income (imputed)
    K61 1 IMP 12
                     Own pension income -retirement (Flag if imputed value)
    K61 2 IMP 12
                     Own pension income -widow (Flag if imputed value)
    K61 3 IMP 12
                     Own pension income -disability (Flag if imputed value)
    K61 4 IMP 12
                     Own other pension income (Flag if imputed value)
    K67_1_IMP_12
                     Spouse's pension income - retirement (Flag if imputed v
    K67_2_IMP_12
                     Spouse's pension income - widow (Flag if imputed value)
                     Spouse's pension income - disability (Flag if imputed v
    K67_3_IMP_12
    K67_4_IMP_12
                     Spouse's other pension income (Flag if imputed value)
Wave 4:
                     Own pension income -retirement 1(imputed)
    IMAMK61 1 1 15
    IMAMK61_1_2_15
IMAMK61_1_3_15
                     Own pension income -retirement 2(imputed)
                     Own pension income -retirement 3(imputed)
    IMAMK61 2 1 15
                     Own pension income -widow 1 (imputed)
    IMAMK61 2 2 15
                    Own pension income -widow 2 (imputed)
    IMAMK61 2 3 15 Own pension income -widow 3 (imputed)
    IMAMK61 3 1 15
                     Own pension income -disability 1 (imputed)
    IMAMK61 3 2 15
                     Own pension income -disability 2 (imputed)
    IMAMK61 3 3 15
                     Own pension income -disability 3(imputed)
    IMAMK61_4_1_15
                     Own other pension income 1(imputed)
    IMAMK61_4_2_15
                     Own other pension income 2 (imputed)
    IMAMK61_4_3_15
                     Own other pension income 3(imputed)
    IMAMK67_1_1_15
                     Spouse's pension income - retirement 1(imputed)
    IMAMK67_1_2_15
IMAMK67_1_3_15
IMAMK67_2_1_15
IMAMK67_2_2_15
                     Spouse's pension income - retirement 2(imputed)
                     Spouse's pension income - retirement 3(imputed)
                     Spouse's pension income - widow 1(imputed)
                     Spouse's pension income - widow 2(imputed)
    IMAMK67 2 3 15
                    Spouse's pension income - widow 3 (imputed)
    IMAMK67 3 1 15
                    Spouse's pension income - disability 1(imputed)
    IMAMK67 3 2 15 Spouse's pension income - disability 2(imputed)
    IMAMK67 3 3 15 Spouse's pension income - disability 3(imputed)
    IMAMK67 4 1 15 Spouse's other pension income 1(imputed)
    IMAMK67 4 2 15 Spouse's other pension income 2(imputed)
```

```
IMAMK67 4 3 15
                     Spouse's other pension income 3 (imputed)
    K61 1 1 IMP 15
                     Own pension income -retirement 1(Flag if imputed value)
    K61 1 2 IMP 15
                     Own pension income -retirement 2(Flag if imputed value)
    K61 1 3 IMP 15
                     Own pension income -retirement 3(Flag if imputed value)
    K61 2 1 IMP 15
                     Own pension income -widow 1(Flag if imputed value)
    K61 2 2 IMP 15
                     Own pension income -widow 2 (Flag if imputed value)
    K61 2 3 IMP 15
                     Own pension income -widow 3 (Flag if imputed value)
    K61_3_1_IMP_15
                     Own pension income -disability 1(Flag if imputed value)
    K61 3 2 IMP 15
                     Own pension income -disability 2(Flag if imputed value)
    K61_3_3_IMP_15
                     Own pension income -disability 3(Flag if imputed value)
    K61_4_1_IMP_15
                     Own other pension income 1(Flag if imputed value)
    K61_4_2_IMP_15
                     Own other pension income 2(Flag if imputed value)
    K61_4_3_IMP_15
                     Own other pension income 3 (Flag if imputed value)
   K67_1_1_IMP_15
K67_1_2_IMP_15
                     Spouse's pension income - retirement 1(Flag if imputed Spouse's pension income - retirement 2(Flag if imputed
    K67 1 3 IMP 15
                     Spouse's pension income - retirement 3 (Flag if imputed
    K67 2 1 IMP 15
                     Spouse's pension income - widow 1(Flag if imputed value
    K67 2 2 IMP 15
                     Spouse's pension income - widow 2 (Flag if imputed value
    K67 2 3 IMP 15
                     Spouse's pension income - widow 3(Flag if imputed value
    K67 3 1 IMP 15
                     Spouse's pension income - disability 1(Flag if imputed
    K67 3 2 IMP 15
                     Spouse's pension income - disability 2(Flag if imputed
    K67_3_3_IMP_15
                     Spouse's pension income - disability 3(Flag if imputed
                     Spouse's other pension income 1(Flag if imputed value)
    K67 4 1 IMP 15
    K67_4_2_IMP_15
                     Spouse's other pension income 2(Flag if imputed value)
    K67_4_3_IMP_15
                     Spouse's other pension income 3(Flag if imputed value)
Wave 5:
    IMAMK61_1_1 18
                     Own pension income -retirement 1 (imputed)
    IMAMK61_1_1_18
IMAMK61_2_1_18
IMAMK61_2_2_18
                     Own pension income -retirement 2 (imputed)
                     Own pension income -widow 1 (imputed)
                     Own pension income -widow 2 (imputed)
    IMAMK61 3 1 18
                     Own pension income -disability 1 (imputed)
    IMAMK61 3 2 18
                     Own pension income -disability 2 (imputed)
    IMAMK61 4 1 18
                     Own other pension income 1 (imputed)
    IMAMK61 4 2 18
                     Own other pension income 2 (imputed)
    IMAMK67 1 1 18
                     Spouse's pension income - retirement 1 (imputed)
    IMAMK67 1 2 18
                     Spouse's pension income - retirement 2 (imputed)
                     Spouse's pension income - widow 1 (imputed)
    IMAMK67_2_1_18
                     Spouse's pension income - widow 2 (imputed)
    IMAMK67_2_2_18
    IMAMK67_3_1_18
                     Spouse's pension income - disability 1 (imputed)
    IMAMK67_3_2_18
IMAMK67_4_1_18
IMAMK67_4_2_18
                     Spouse's pension income - disability 2 (imputed)
                     Spouse's other pension income 1 (imputed)
                     Spouse's other pension income 2 (imputed)
    K61_1_1_IMP_18
K61_1_2_IMP_18
                     Own pension income -retirement 1 (Flag if imputed value
                     Own pension income -retirement 2 (Flag if imputed value
    K61_2_1 IMP 18
                     Own pension income -widow 1 (Flag if imputed value)
    K61 2 2 IMP 18
                     Own pension income -widow 2 (Flag if imputed value)
    K61 3 1 IMP 18
                     Own pension income -disability 1 (Flag if imputed value
    K61 3 2 IMP 18
                     Own pension income -disability 2 (Flag if imputed value
    K61 4 1 IMP 18
                     Own other pension income 1 (Flag if imputed value)
    K61 4 2 IMP 18
                     Own other pension income 2 (Flag if imputed value)
    K67_1_1_IMP_18
                     Spouse's pension income - retirement 1 (Flag if imputed
    K67_1_2_IMP_18
                     Spouse's pension income - retirement 2 (Flag if imputed
    K67_2_1_IMP_18
                     Spouse's pension income - widow 1 (Flag if imputed valu
    K67_2_2_IMP_18
                     Spouse's pension income - widow 2 (Flag if imputed valu
   K67 3 1 IMP 18
K67 3 2 IMP 18
K67 4 1 IMP 18
K67 4 2 IMP 18
                     Spouse's pension income - disability 1 (Flag if imputed
                     Spouse's pension income - disability 2 (Flag if imputed
                     Spouse's other pension income 1 (Flag if imputed value)
                     Spouse's other pension income 2 (Flag if imputed value)
```

Individual Income from Other Government Transfers

Wave	Variable	Label	Type
1	R1IGXFR	rligxfr:wl Income:R Other Government Transfers	Cont
2	R2IGXFR	r2igxfr:w2 Income:R Other Government Transfers	Cont
3	R3IGXFR	r3igxfr:w3 Income:R Other Government Transfers	Cont
4	R4IGXFR	r4igxfr:w4 Income:R Other Government Transfers	Cont
5	R5IGXFR	r5igxfr:w5 Income:R Other Government Transfers	Cont
1	S1IGXFR	sligxfr:wl Income:S Other Government Transfers	Cont
2	S2IGXFR	s2igxfr:w2 Income:S Other Government Transfers	Cont
3	S3IGXFR	s3igxfr:w3 Income:S Other Government Transfers	Cont
4	S4IGXFR	s4igxfr:w4 Income:S Other Government Transfers	Cont
5	S5IGXFR	s5igxfr:w5 Income:S Other Government Transfers	Cont
1	R1IFGXFR	rlifgxfr:wl IncFlag:R Other Government Transfers	Categ
2	R2IFGXFR	r2ifgxfr:w2 IncFlag:R Other Government Transfers	Categ
3	R3IFGXFR	r3ifgxfr:w3 IncFlag:R Other Government Transfers	Categ
4	R4IFGXFR	r4ifgxfr:w4 IncFlag:R Other Government Transfers	Categ
4	R4IFGXFR	r5ifgxfr:w4 IncFlag:R Other Government Transfers	Categ
1	S1IFGXFR	slifgxfr:wl IncFlag:S Other Government Transfers	Categ
2	S2IFGXFR	s2ifgxfr:w2 IncFlag:S Other Government Transfers	Categ
3	S3IFGXFR	s3ifgxfr:w3 IncFlag:S Other Government Transfers	Categ
4	S4IFGXFR	s4ifgxfr:w4 IncFlag:S Other Government Transfers	Categ
5	S5IFGXFR	s5ifgxfr:w5 IncFlag:S Other Government Transfers	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IGXFR	15126	806.65	9039.99	0.00	672000.00
R2IGXFR	13662	3403.59	85719.23	0.00	9333312.00
R3IGXFR			13935.49		
	15721	1740.54		0.00	960000.00
R4IGXFR	14745	2272.67	11667.32	0.00	636000.00
R5IGXFR	17094	2529.68	11044.10	0.00	960000.00
S1IGXFR	10632	821.35	9732.48	0.00	672000.00
S2IGXFR	9547	3582.35	100684.41	0.00	9333312.00
S3IGXFR	10590	1558.95	8587.16	0.00	504000.00
S4IGXFR	10343	2063.04	11926.47	0.00	636000.00
S5IGXFR	11969	2389.03	12500.03	0.00	960000.00
R1IFGXFR	15126	0.00	0.07	0.00	1.00
R2IFGXFR	13673	0.01	0.09	-1.00	1.00
R3IFGXFR	15723	0.01	0.09	-1.00	1.00
R4IFGXFR	14745	0.01	0.09	0.00	1.00
R5IFGXFR	17094	0.03	0.16	0.00	1.00
S1IFGXFR	10932	-0.02	0.18	-1.00	1.00
S2IFGXFR	9673	-0.01	0.14	-1.00	1.00
S3IFGXFR	10941	-0.03	0.19	-1.00	1.00
S4IFGXFR	10414	0.00	0.12	-1.00	1.00
S5IFGXFR	12059	0.03	0.21	-1.00	1.00

Categorical Variable Codes

Value		Rlifgxfr	R2IFGXFR	R3IFGXFR	R4IFGXFR	R5IFGXFR
.m:Missing		60	31		34	20
-1.No Imput:section not complete			11	2		
0.Not imputed		15052	13554	15596	14634	16658

1.Imputed	I	74	108	125	111	436
Value		S1IFGXFR	S2IFGXFR	S3IFGXFR	S4IFGXFR	S5IFGXFR
.m:Missing	1	51	22		22	9
.u:Unmar	I	4203	4009	4782	4343	5223
-1.No Imput:section not complete	I	300	126	351	71	90
0.Not imputed	I	10591	9470	10522	10257	11534
1.Imputed	1	41	77	68	86	435

How Constructed

RwIGXFR and SwIGXFR capture the respondent's and spouse's other government transfer individual income at an annual-level, respectively. RwIGXFR and SwIGXFR include any monetary or in-kind transfer from public institutions, not already mentioned. Government transfer income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

At all waves the financial respondent is first asked "Excluding income you have already mentioned, during the last year did you receive any monetary or in-kind transfer from public institutions such as Procampo, Progresa, INSEN, Seguro Popular?" In Wave 1 -4 if they answer yes, they are then asked "About how much was it in a typical month?" Starting in Wave 5 if they answer yes, they are then asked seperately for up to two transfers "About how much was it in a typical month?" RwIGXFR is derived as yearly income from other government transfers by multiplying the reported monthly amount by 12. In the case that the respondent did not receive any monetary or in-kind transfers from public institutions, RwIGXFR has a value of 0. Special missing .m is used if at least one component of RwIGXFR was not imputed because the section was not completed. RwIGXFR is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is asked "Excluding income you have already mentioned, during the last year did your spouse receive any monetary or in-kind transfer from public institutions such as Procampo, Progresa, INSEN, Seguro Popular?" If they answer yes, they are then asked "About how much was it in a typical month?" SwIGXFR is derived as yearly income from other government transfers by multiplying the reported monthly amount by 12. In the case that the spouse did not receive any monetary or in-kind transfers from public institutions, SwIGXFR has a value of 0. Special missing .m is used if at least one component of SwIGXFR was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIGXFR is set to blank missing (.) if the respondent did not participate in the current wave.

For questions eliciting a value included in RwIGXFR and SwIGXFR, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWIFGXFR and SWIGXFR are flag variables indicating whether or not any component of RWIGXFR or SWIGXFR was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

In Waves 1-4, MHAS asked the respondent to report the total amount of government transfers in a single values. Starting in Wave 5, MHAS asked the respondent to report up to two government transfers.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are asked to report income from veterans' benefits, welfare, and food stamps. In the MHAS, respondents are asked to report any monetary or in-kind transfer from public institutions such as Procampo, Progresa, INSEN, Seguro Popular. Since Seguro Popular started to be implemented in 2003, this institution is only listed starting in wave 2. This difference implies that what is captured in RWIGXFR in the Harmonized MHAS might differ from what is captured by RWIGXFR in the RAND HRS.

In the HRS, respondents are instructed to report other government transfer income before taxes and deductions. In the MHAS, other government transfer income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Other government transfers in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

MHAS Variables Used

```
Wave 1:
    IMAM76A
                    own transfer income from institutions (imputed)
                    spouse's transfer income from institutions (imputed)
    TMAM79A
    K76AIMP
                    if imputed value
                    if imputed value
   K79AIMP
Wave 2:
    IMAM79A
                    own transfer income from institutions (imputed)
                    spouse's transfer income from institutions (imputed)
    IMAM82C
   K79AIMP
                    if imputed value
                    if imputed value
   K82CIMP
Wave 3:
                    Own transfer income from institutions (imputed)
    IMAMK80 1 12
    IMAMK83_1_12
                    Spouse's transfer income from institutions (imputed)
    K80_1_IMP_12
                    Own transfer income from institutions (Flag if imputed
                    Spouse's transfer income from institutions (Flag if imp
    K83_1_IMP_12
Wave 4:
    IMAMK80 1 15
                    Own transfer income from institutions (imputed)
    IMAMK83 1 15
                    Spouse's transfer income from institutions (imputed)
    K80_1_IMP_15
                    Own transfer income from institutions (Flag if imputed
   K83 1 IMP 15
                    Spouse's transfer income from institutions (Flag if imp
Wave 5:
                    Own transfer income from institutions 1 (imputed)
    IMAMK80 1 1 18
    IMAMK80 1 2 18
                    Own transfer income from institutions 2 (imputed)
    IMAMK83 1 1 18
                    Spouse's transfer income from institutions 1 (imputed)
    IMAMK83 1 2 18
                    Spouse's transfer income from institutions 2 (imputed)
                    Own transfer income from institutions 1 (Flag if impute
    K80_1_1_IMP_18
    K80_1_2_IMP_18
                    Own transfer income from institutions 2 (Flag if impute
   K83_1_1_IMP_18
                    Spouse's transfer income from institutions 1 (Flag if i
                    Spouse's transfer income from institutions 2 (Flag if i
    K83 1 2 IMP 18
```

All Other Income

Wave	Variable	Label	Туре
1	R1IOTHR	rliothr:wl Income:R Other Income	Cont
2	R2IOTHR	r2iothr:w2 Income:R Other Income	Cont
3	R3IOTHR	r3iothr:w3 Income:R Other Income	Cont
4	R4IOTHR	r4iothr:w4 Income:R Other Income	Cont
5	R5IOTHR	r5iothr:w5 Income:R Other Income	Cont
1	S1IOTHR	sliothr:wl Income:S Other Income	Cont
2	S2IOTHR	s2iothr:w2 Income:S Other Income	Cont
3	S3IOTHR	s3iothr:w3 Income:S Other Income	Cont
4	S4IOTHR	s4iothr:w4 Income:S Other Income	Cont
5	S5IOTHR	s5iothr:w5 Income:S Other Income	Cont
1	R1IFOTHR	rlifothr:wl IncFlag:R Other Income	Categ
2	R2IFOTHR	r2ifothr:w2 IncFlag:R Other Income	Categ
3	R3IFOTHR	r3ifothr:w3 IncFlag:R Other Income	Categ
4	R4IFOTHR	r4ifothr:w4 IncFlag:R Other Income	Categ
5	R5IFOTHR	r5ifothr:w5 IncFlag:R Other Income	Categ
1	S1IFOTHR	slifothr:wl IncFlag:S Other Income	Categ
2	S2IFOTHR	s2ifothr:w2 IncFlag:S Other Income	Categ
3	S3IFOTHR	s3ifothr:w3 IncFlag:S Other Income	Categ
4	S4IFOTHR	s4ifothr:w4 IncFlag:S Other Income	Categ
5	S5IFOTHR	s5ifothr:w5 IncFlag:S Other Income	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IOTHR	15126	55.01	1310.06	0.00	60000.00
R2IOTHR	13662	4862.05	132496.59	0.00	600000.00
R3IOTHR	15721	12181.17	276542.81	0.00	16800000.00
		8227.42	212717.13		
R4IOTHR	14745			0.00	14400000.00
R5IOTHR	17094	26926.96	657457.31	0.00	48000000.00
S1IOTHR	10632	5.77	346.83	0.00	33600.00
S2IOTHR	9547	4090.11	119606.70	0.00	6000000.00
S3IOTHR	10590	10489.39	266187.48	0.00	16800000.00
S4IOTHR	10343	8339.55	231241.51	0.00	14400000.00
S5IOTHR	11969	26141.80	612089.55	0.00	3000000.00
R1IFOTHR	15126	0.00	0.01	0.00	1.00
R2IFOTHR	13673	-0.00	0.04	-1.00	1.00
R3IFOTHR	15723	0.01	0.08	-1.00	1.00
R4IFOTHR	14745	0.00	0.06	0.00	1.00
R5IFOTHR	17094	0.02	0.13	0.00	1.00
S1IFOTHR	10928	-0.03	0.16	-1.00	1.00
S2IFOTHR	9673	-0.01	0.11	-1.00	1.00
S3IFOTHR	10941	-0.03	0.19	-1.00	1.00
S4IFOTHR	10414	-0.00	0.11	-1.00	1.00
S5IFOTHR	12059	0.02	0.18	-1.00	1.00

Categorical Variable Codes

Value		Rlifothr	R2IFOTHR	R3IFOTHR	R4IFOTHR	RSIFOTHR
.m:Missing		60	31		34	20
-1.No Imput:section not complete			11	2		
0.Not imputed	1	15123	13656	15627	14688	16784

1.Imputed	I	3	6	94	57	310
Value		S1IFOTHR	S2IFOTHR	S3IFOTHR	S4IFOTHR	S5IFOTHR
.m:Missing	1	55	22		22	9
.u:Unmar	I	4203	4009	4782	4343	5223
-1.No Imput:section not complete	I	296	126	351	71	90
0.Not imputed	I	10630	9545	10544	10284	11642
1.Imputed	1	2	2	46	59	327

How Constructed

RWIOTHR and SwIOTHR capture the respondent's and spouse's other individual income at an annual-level, respectively. The questions eliciting other income have changed over the different waves of MAHS. In Wave 1 RWIOTHR and SWIOTHR include any divorce, separation, or survival pensions, not already mentioned. In waves 2-4 RWIOTHR and SWIOTHR include any divorce, separation, or survival pensions, not already mentioned and any income from the sale of some good such as property, a gift, or an inheritance. Starting in Wave 5, RWIOTHR and SWIOTHR only include any income from the sale of some good such as property, a gift, or an inheritance. Other income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Income questions about the respondent and the respondent's spouse (if applicable) are asked separately, but both are answered by the financial respondent. If the financial respondent is the respondent, then questions the financial respondent answers about him/herself are assigned to the respondent and those about their spouse are assigned to the spouse. However, if the financial respondent is the respondent's spouse, then questions the financial respondent answers about him/herself are assigned to the spouse and those concerning their spouse are assigned to the respondent. Proxy respondents can also answer these income questions in the place of the respondent or their spouse and, in the case that they do, they are asked to answer about the respondent and their spouse (if applicable), and financial information is then assigned respectively.

In waves 1-4 The financial respondent is first asked "Excluding income you have already mentioned, during the last year did you receive any divorce, separation or survival pension?" If they answer yes, they are then asked "About how much was it in a typical month?" Starting in Wave 2, the financial respondent is then asked "Excluding income you have already mentioned, during the last year did you receive income for the sale of some good such as property, a gift, or an inheritance?" If they answer yes, they are then asked "About how much was it in a typical month?" Starting in Wave 5, income from divorce, separation or survival pension is no longer asked about and only income from the the sale of some good like a property, a gift, or an inheritance. In wave 1, RwIOTHR is derived as yearly other income by multiplying the reported monthly amount by 12. In waves 2-4, RwIOTHR is derived as yearly other income by multiplying the reported monthly amounts of income from divorce, separation, or survival pensions and income from the sale of some good such as property, a gift, or an inheritance by 12. In Wave 5, RWIOTHR is derived as yearly other income by multiplying the reported monthly amounts of income from the sale of some good such as property, a gift, or an inheritance by 12. In the case that the respondent did not receive any income from divorce, separation, or survival pensions (up until Wave 4) or income from the sale of some good such as property, a gift, or an inheritance (starting in Wave 2), RwIOTHR has a value of 0. Special missing .m is used if at least one component of RwIOTHR was not imputed because the section was not completed. RWIOTHR is set to blank missing (.) if the respondent did not participate in the current wave.

If the respondent has a spouse, the financial respondent is asked "Excluding income you have already mentioned, during the last year did your spouse receive any divorce, separation or survival pension?" If they answer yes, they are then asked "About how much was it in a typical month?" Starting in Wave 2, the financial respondent is then asked "Excluding income you have already mentioned, during the last year did your spouse receive income for the sale of some good such as property, a gift, or an inheritance?" If they answer yes, they are then asked "About how much was it in a typical month?" In wave 1, SwIOTHR is derived as yearly other income by multiplying the reported monthly amount by 12. Starting in Wave 2, SwIOTHR is derived as yearly other income by multiplying the reported monthly amounts of income from divorce, separation, or survival pensions and income from the sale of some good such as property, a gift, or an inheritance by 12. In the case that the spouse did not receive any income from divorce, separation, or survival pensions or income from the sale of some good such as property, a gift, or an inheritance (starting in Wave 2), SwIOTHR has a value of 0. Special missing .m is used if at least one component of SwIOTHR was not imputed because the section was not completed. Special missing value .u is used when the respondent does not have a spouse at this wave. SwIOTHR is set to blank missing (.) if the respondent did not participate in the current wave.

For questions eliciting a value included in RwIOTHR and SwIOTHR, the MHAS used unfolding bracket questions when the respondent was unsure of the exact value. Using the information provided by the unfolding brackets, unknown amounts were replaced with imputed values using the imputed variables made available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

RWIFOTHR and SWIOTHR are flag variables indicating whether or not any component of RWIOTHR or SWIOTHR was imputed. A code of 0 indicates that no component was imputed. A code of 1 indicates that at least one component was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

In Wave 1, MHAS asks respondents about income they received from any divorce, separation or survival pension. Starting in Wave 2, MHAS added a question that asks respondents about income they received from the sale of some good such as property, a gift, or an inheritance. Therefore, RwIOTHR in Wave 1 only takes into account income received from divorce, separation or survival pension, but starting in Wave 2, RwIOTHR takes into account income received from divorce, separation or survival pension and income received from the sale of some good such as property, a gift, or an inheritance. Also, starting in Wave 5, respondents were not asked about any income from divorce, separation or survival pension.

Differences with the RAND HRS/Harmonized HRS

In the HRS, respondents are asked to report income from alimony, other income, and lump sums from insurance, pension, and inheritance. In the MHAS, respondents are asked to report income from divorce, separation, or survival pensions and income from the sale of some good such as property, a gift, or an inheritance (starting in Wave 2). This difference implies that what is captured in RwIOTHR in the Harmonized MHAS might differ from what is captured by RwIOTHR in the RAND HRS.

In the HRS, respondents are instructed to report other income before taxes and deductions. In the MHAS, other income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Other income in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAM76B
                    own transfer income from individuals (imputed)
    IMAM79B
                    spouse's transfer income from individuals (imputed)
    K76BTMP
                    if imputed value
    K79BIMP
                    if imputed value
Wave 2:
    IMAM79B
                    own transfer income from individuals (imputed)
                    own transfer income from properties (imputed)
    IMAM79C
    IMAM82D
                    spouse's transfer income from individuals (imputed)
    IMAM82E
                    spouse's transfer income from properties (imputed)
    K79BIMP
                    if imputed value
    K79CTMP
                    if imputed value
    K82DIMP
                    if imputed value
   K82EIMP
                    if imputed value
Wave 3:
    IMAMK80 2 12
                    Own transfer income from individuals (imputed)
    IMAMK80_3_12
IMAMK83_2_12
                    Own transfer income from properties (imputed)
                    Spouse's transfer income from individuals (imputed)
    IMAMK83 3 12
                    Spouse's transfer income from properties (imputed)
    K80_2_IMP 12
                    Own transfer income from individuals (Flag if imputed v
    K80 3 IMP 12
                    Own transfer income from properties (Flag if imputed va
    K83 2 IMP 12
                    Spouse's transfer income from individuals (Flag if impu
```

K83_3_IMP_12	Spouse's transfer income from properties (Flag if imput
Wave 4:	
IMAMK80_2_15	Own transfer income from individuals (imputed)
IMAMK80 3 15	Own transfer income from properties (imputed)
IMAMK83 2 15	Spouse's transfer income from individuals (imputed)
IMAMK83 3 15	Spouse's transfer income from properties (imputed)
K80 2 IMP 15	Own transfer income from individuals (Flag if imputed v
· · · · ·	
K80_3_IMP_15	Own transfer income from properties (Flag if imputed va
K83_2_IMP_15	Spouse's transfer income from individuals (Flag if impu
K83_3_IMP_15	Spouse's transfer income from properties (Flag if imput
Wave 5:	
IMAMK80 2 18	
IMAMK80_3_18	Own transfer income from properties (imputed)
IMAMK83 2 18	Spouse's transfer income from properties (imputed)
IMAMK83 3 18	
K80 2 IMP 18	
K80 3 IMP 18	Own transfer income from properties (Flag if imputed va
K83_2_IMP_18	Spouse's transfer income from properties (Flag if imput
K83_3_IMP_18	

Total Household Income (respondent & spouse)

Wave	Variable	Label	Type
1	H1ITOT	hlitot:wl Incm:H Total Income	Cont
2	H2ITOT	h2itot:w2 Incm:H Total Income	Cont
3	H3ITOT	h3itot:w3 Incm:H Total Income	Cont
4	H4ITOT	h4itot:w4 Incm:H Total Income	Cont
5	H5ITOT	h5itot:w5 Incm:H Total Income	Cont
1	H1IFTOT	hliftot:wl IncFlag:H Total Inc	Categ
2	H2IFTOT	h2iftot:w2 IncFlag:H Total Inc	Categ
3	H3IFTOT	h3iftot:w3 IncFlag:H Total Inc	Categ
4	H4IFTOT	h4iftot:w4 IncFlag:H Total Inc	Categ
5	H5IFTOT	h5iftot:w5 IncFlag:H Total Inc	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ITOT	14824	88577.16	1304117.63	-5990400.00	90000000.00
H2ITOT	13539	82340.75	616644.39	-222000.00	34334852.00
H3ITOT	15370	104728.19	627940.14	-1194747.88	36021600.00
H4ITOT	14674	132437.77	1555378.87	-650309.00	108000000.00
H5ITOT	17004	170284.54	1198125.37	-4118774.50	60000000.00
H1IFTOT	15184	0.13	0.40	-1.00	1.00
H2IFTOT	13703	0.12	0.36	-1.00	1.00
H3IFTOT	15723	0.11	0.38	-1.00	1.00
H4IFTOT	14779	0.11	0.33	-1.00	1.00
H5IFTOT	17114	0.16	0.39	-1.00	1.00

Categorical Variable Codes

Value		H1IFTOT	H2IFTOT	H3IFTOT	H4IFTOT	H5IFTOT
.m:Missing	j	2	1			
-1.No Imput:section not complete	J	359	164	353	105	110
0.Not imputed	J	12522	11774	13270	13007	14084
1.Imputed		2303	1765	2100	1667	2920

How Constructed

HwITOT captures the household's total income at an annual-level and is based on information from:

Respondent's and spouse's employment earnings, as previously described

Household's total capital income, as previously described

Respondent's and spouse's income from private pensions, as previously described

Respondent's and spouse's income from public pensions, as previously described

Respondent's and spouse's income from other pensions, as previously described

Respondent's and spouse's other government transfer income, as previously described

Respondent's and spouse's other income, as previously described

For unpartnered and unmarried respondents HwITOT is constructed as the sum of the respondent's employment earnings, households' total capital income, respondent's income from private pensions, respondent's income from public pensions, respondent's income from other pensions, respondent's income from other government transfers, and respondent's income from other income. For married/partnered respondents HwITOT

is constructed as the sum of the respondent's and spouse's employment earnings, households' total capital income, respondent's and spouse's income from private pensions, respondent's and spouse's income from public pensions, respondent's and spouse's income from other pensions, respondent's and spouse's income from other government transfers, and respondent's and spouse's income from other income. All components of this variable are constructed at the household level and include imputed values. In MHAS, the household is a couple or a single person. Also special missing .m is used if at least one component of HwITOT was not imputed because the respondent did not complete the section. HwITOT is set to blank missing (.) if the respondent did not participate in the current wave.

HWIFTOT is a flag variable based on the original flag variables (previously defined as RwIFEARN, SwIEARN, HWIFCAP, RWIFPENA, SWIPENA, RWIFPUBPEN, SWIFPUBPEN, RWIFPENO, SWIPENO, RWIFGXFR, SWIGXFR, RWIFOTHR, SWIOTHR), indicating whether or not any component of HWITOT was imputed. A code of 0 indicates that no component of HWITOT was imputed. A code of 1 indicates that at least one component of HWITOT was imputed. A code of -1 indicates that at least one component was not imputed because the respondent did not complete the section and this value has been left missing.

Both the MHAS created income variable (available to the public at www.MHASweb.org) and HwITOT are derived from the same components. However, there are two main differences between these two variables. The MHAS income variable represents the total individual income per month and HwITOT captures the household's total income at an annual-level. Therefore, the MHAS income variable only considers the individual income for those who completed the interview while HwITOT includes the reported spouse income for spouses even if they did not complete the interview.

Please see the 2001 (here), 2003 (here), 2012 (here), 2015 (here), and 2018 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on how the MHAS income variable was created.

Cross Wave Differences in MHAS

See individual components.

Starting in Wave 3 of MHAS, respondents were allowed to identify multiple pension providers for each type of pension but were only asked one amount, regardless of how many different providers were identified. Given this, after Wave 2 it was not possible to identify pension income by the type of pension provider as we have for earlier waves. As a result, starting in Wave 3, HwITOT is constructed using respondent's and spouses total pension income instead of respondent's and spouse's income from private pensions, respondent's and spouse's income from public pensions, and respondent's and spouse's income from other pensions. This should not affect what is captured by HwITOT in waves after Wave 2 as compared to Waves 1 and 2.

Differences with the RAND HRS/Harmonized HRS

See individual components.

In the HRS, respondents are instructed to report income before taxes and deductions. In the MHAS, income questions are asked without instruction as to whether these amounts should be reported before or after tax.

Total family income in MHAS is measured in nominal pesos, whereas the equivalent measure in RAND HRS is in nominal dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

```
Wave 1:
    IMAM10 1
                    business income-1 (imputed)
    IMAM10 2
                    business income-2 (imputed)
    IMAM13 1
                    business expenditures-1 (imputed)
    IMAM13 2
                    business expenditures-2 (imputed)
    IMAM24 1
                    property rent income-1 (imputed)
    IMAM24 2
                    property rent income-2 (imputed)
    IMAM27 1
                    property expenditures-1 (imputed)
    IMAM27 2
                    property expenditures-2 (imputed)
```

```
IMAM33 1
                capital assets income-1 (imputed)
IMAM33 2
                capital assets income-2 (imputed)
IMAM33<sup>3</sup>
                capital assets income-3 (imputed)
IMAM44
                own earned income-1 (imputed)
TMAM45
                own earned income-2 (imputed)
IMAM47
               own earned income-3 (imputed)
IMAM48
                own earned income-4 (imputed)
IMAM50
                spouse's earned income-1 (imputed)
                spouse's earned income-2 (imputed)
IMAM51
IMAM53
                spouse's earned income-3 (imputed)
IMAM54
                spouse's earned income-4 (imputed)
IMAM55A
                own pension income -retirement (imputed)
                own pension income -widow (imputed)
IMAM55B
IMAM55C
                own pension income -disability (imputed)
IMAM55D
                own other pension income
IMAM61A
                spouse's pension income -retirement (imputed)
                spouse's pension income -widow (imputed)
TMAM61B
IMAM61C
                spouse's pension income -disability (imputed)
IMAM61D
                spouse's other pension income (imputed)
                own transfer income from institutions (imputed)
TMAM76A
IMAM76B
                own transfer income from individuals (imputed)
IMAM76B
                own transfer income from individuals (imputed)
                spouse's transfer income from institutions (imputed)
IMAM79A
IMAM79B
                spouse's transfer income from individuals (imputed)
IMAM79B
                spouse's transfer income from individuals (imputed)
K10 1IMP
                if imputed value
{\tt K10\_2IMP}
                if imputed value
K13 1IMP
                if imputed value
K13 2IMP
                if imputed value
K24 1IMP
                if imputed value
K24<sup>2</sup>IMP
                if imputed value
K27 1IMP
                if imputed value
K27 2IMP
                if imputed value
K33 1IMP
                if imputed value
K33 2IMP
                if imputed value
K33 3IMP
                if imputed value
                if imputed value
K44IMP
                if imputed value
K45IMP
K47IMP
                if imputed value
K48IMP
                if imputed value
                if imputed value
K50IMP
K51IMP
                if imputed value
K53IMP
                if imputed value
               if imputed value
K54IMP
               if imputed value
K55AIMP
K55BTMP
               if imputed value
K55CIMP
               if imputed value
K55DIMP
               if imputed value
K56 1
               source of retirement pension
K56 2
               source of widowhood pension
K56 3
               source of disability pension
K56 4
                source of other pension
                if imputed value
K61AIMP
K61BIMP
                if imputed value
                if imputed value
K61CIMP
K61DIMP
                if imputed value
K62 1
                source of retirement pension of spouse
K62 2
                source of widowhood pension of spouse
K62<sup>3</sup>
                source of disability pension of spouse
K62 4
                source of other pension of spouse
K76AIMP
                if imputed value
K76BIMP
                if imputed value
K76BIMP
                if imputed value
K79AIMP
                if imputed value
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```
K79BIMP
                    if imputed value
    K79BIMP
                    if imputed value
Wave 2:
    IMAM10 1
                    business income-1 (imputed)
    IMAM10 2
                    business income-2 (imputed)
    IMAM13 1
                    business expenditures-1 (imputed)
    IMAM13 2
                    business expenditures-2 (imputed)
    IMAM26 1
                    property rent income-1 (imputed)
    IMAM26 2
                    property rent income-2 (imputed)
    IMAM29 1
                    property expenditures-1 (imputed)
    IMAM29 2
                    property expenditures-2 (imputed)
    IMAM35_1
                    capital assets income-1 (imputed)
    IMAM35 2
                    capital assets income-2 (imputed)
    IMAM35 3
                    capital assets income-3 (imputed)
    IMAM47
                    own earned income-1 (imputed)
                   own earned income-2 (imputed)
    IMAM48
                   own earned income-3 (imputed)
    TMAM50
    IMAM51
                   own earned income-4 (imputed)
    IMAM53
                   spouse's earned income-1 (imputed)
                    spouse's earned income-2 (imputed)
    TMAM54
    IMAM56
                    spouse's earned income-3 (imputed)
    IMAM57
                    spouse's earned income-4 (imputed)
                    own transfer income from institutions (imputed)
    IMAM79A
    IMAM79B
                    own transfer income from individuals (imputed)
    IMAM79C
                    own transfer income from properties (imputed)
    IMAM82C
                    spouse's transfer income from institutions (imputed)
    IMAM82D
                    spouse's transfer income from individuals (imputed)
    IMAM82E
                    spouse's transfer income from properties (imputed)
    K10 1IMP
                    if imputed value
    K10 2IMP
                    if imputed value
    K13 1IMP
                    if imputed value
    K13 2IMP
                    if imputed value
    K26 1IMP
                   if imputed value
    K26 2IMP
                    if imputed value
    K29 1IMP
                    if imputed value
    K29 2IMP
                    if imputed value
    K35 1IMP
                    if imputed value
    K35_2IMP
                    if imputed value
    K35 3IMP
                    if imputed value
    K47IMP
                    if imputed value
    K48IMP
                    if imputed value
    K50IMP
                   if imputed value
    K51IMP
                   if imputed value
                   if imputed value
    K53IMP
                   if imputed value
    K54IMP
   K56TMP
                   if imputed value
    K57IMP
                   if imputed value
    K79AIMP
                   if imputed value
    K79BIMP
                   if imputed value
    K79CIMP
                   if imputed value
    K82CIMP
                    if imputed value
    K82DTMP
                    if imputed value
    K82EIMP
                    if imputed value
Wave 3:
    IMAMK11 1 12
                    Business income-1 (imputed)
    IMAMK11_2_12
IMAMK13_1_12
IMAMK13_2_12
                    Business income-2 (imputed)
                    Business expenditures-1 (imputed)
                    Business expenditures-2 (imputed)
    IMAMK27 1 12
                    Property rent income-1 (imputed)
    IMAMK27 2 12
                    Property rent income-2 (imputed)
    IMAMK29 1 12
                    Property expeditures-1 (imputed)
    IMAMK29 2 12
                    Property expeditures-2 (imputed)
    IMAMK36 1 12
                    Capital assets income-1 (imputed)
    IMAMK36 2 12
                    Capital assets income-2 (imputed)
```

```
IMAMK36 3 12
                 Capital assets income-3 (imputed)
IMAMK47A 12
                 Own earned income-1 (imputed)
IMAMK48A 12
                 Own earned income-2 (imputed)
IMAMK50A 12
                 Own earned income-3 (imputed)
IMAMK51A 12
                 Own earned income-4 (imputed)
IMAMK53A 12
                 Spouse's earned income-1 (imputed)
IMAMK54A 12
                 Spouse's earned income-2 (imputed)
IMAMK56A 12
                 Spouse's earned income-3 (imputed)
IMAMK57A 12
                 Spouse's earned income-4 (imputed)
IMAMK61_1_12
                 Own pension income -retirement (imputed)
IMAMK61_2_12
                 Own pension income -widow (imputed)
IMAMK61_3_12
                 Own pension income -disability (imputed)
IMAMK61_4_12
IMAMK67_1_12
IMAMK67_2_12
                 Own other pension income (imputed)
                 Spouse's pension income - retirement (imputed)
Spouse's pension income - widow (imputed)
IMAMK67 3 12
                 Spouse's pension income - disability (imputed)
IMAMK67 4 12
                 Spouse's other pension income (imputed)
IMAMK80 1 12
                 Own transfer income from institutions (imputed)
IMAMK80 2 12
                 Own transfer income from individuals (imputed)
IMAMK80 3 12
                 Own transfer income from properties (imputed)
IMAMK83 1 12
                 Spouse's transfer income from institutions (imputed)
IMAMK83_2 12
                 Spouse's transfer income from individuals (imputed)
IMAMK83 3 12
                 Spouse's transfer income from properties (imputed)
K11 1 IMP 12
                 Business income-1 (Flag if imputed value)
K11_2_IMP_12
                 Business income-2 (Flag if imputed value)
                 Business expenditures-1 (Flag if imputed value)
K13_1_IMP_12
K13_2_IMP_12
K27_1_IMP_12
K27_2_IMP_12
K29_1_IMP_12
                 Business expenditures-2 (Flag if imputed value)
                 Property rent income-1 (Flag if imputed value)
                 Property rent income-2 (Flag if imputed value)
                 Property expeditures-1 (Flag if imputed value)
K29 2 IMP 12
                 Property expeditures-2 (Flag if imputed value)
K36 1 IMP 12
                 Capital assets income-1 (Flag if imputed value)
K36 2 IMP 12
                 Capital assets income-2 (Flag if imputed value)
K36 3 IMP 12
                 Capital assets income-3 (Flag if imputed value)
K47A IMP 12
                 Own earned income-1 (Flag if imputed value)
K48A IMP 12
                 Own earned income-2 (Flag if imputed value)
K50A_IMP_12
                 Own earned income-3 (Flag if imputed value)
K51A_IMP_12
                 Own earned income-4 (Flag if imputed value)
K53A_IMP_12
                 Spouse's earned income-1 (Flag if imputed value)
K53A_IMP_12
                 Spouse's earned income-1 (Flag if imputed value)
K53A_IMP_12
                 Spouse's earned income-1 (Flag if imputed value)
                 Spouse's earned income-2 (Flag if imputed value)
K54A_IMP_12
                 Spouse's earned income-2 (Flag if imputed value)
K54A IMP
         12
K54A IMP 12
                 Spouse's earned income-2 (Flag if imputed value)
K56A_IMP_12
                 Spouse's earned income-3 (Flag if imputed value)
K56A IMP 12
                 Spouse's earned income-3 (Flag if imputed value)
                 Spouse's earned income-3 (Flag if imputed value)
K56A IMP 12
K57A IMP 12
                 Spouse's earned income-4 (Flag if imputed value)
K57A IMP 12
                 Spouse's earned income-4 (Flag if imputed value)
K57A IMP 12
                 Spouse's earned income-4 (Flag if imputed value)
K61_1_IMP_12
                 Own pension income -retirement (Flag if imputed value)
K61_2_IMP_12
                 Own pension income -widow (Flag if imputed value)
K61_3_IMP_12
                 Own pension income -disability (Flag if imputed value)
K61_4_IMP_12
                 Own other pension income (Flag if imputed value)
K67_1_IMP_12
K67_2_IMP_12
K67_3_IMP_12
K67_4_IMP_12
                 Spouse's pension income - retirement (Flag if imputed v
                 Spouse's pension income - widow (Flag if imputed value)
                 Spouse's pension income - disability (Flag if imputed v
                 Spouse's other pension income (Flag if imputed value)
K80 1 IMP 12
                 Own transfer income from institutions (Flag if imputed
K80 2 IMP 12
                 Own transfer income from individuals (Flag if imputed v
K80 3 IMP 12
                 Own transfer income from properties (Flag if imputed va
K83 1 IMP 12
                 Spouse's transfer income from institutions (Flag if imp
K83 2 IMP 12
                 Spouse's transfer income from individuals (Flag if impu
K83 3 IMP 12
                 Spouse's transfer income from properties (Flag if imput
```

```
Wave 4:
    IMAMK11_1 15
                     Business income-1 (imputed)
    IMAMK11 2 15
                     Business income-2 (imputed)
    IMAMK13 1 15
                     Business expenditures-1 (imputed)
    IMAMK13 2 15
                     Business expenditures-2 (imputed)
    IMAMK27 1 15
                     Property rent income-1 (imputed)
    IMAMK27 2 15
                     Property rent income-2 (imputed)
    IMAMK29 1_15
                     Property expeditures-1 (imputed)
    IMAMK29 2 15
                     Property expeditures-2 (imputed)
    IMAMK36_1_15
                     Capital assets income-1 (imputed)
                     Capital assets income-2 (imputed)
    IMAMK36_2_15
    IMAMK36_3_15
                     Capital assets income-3 (imputed)
    IMAMK47\overline{A} \overline{15}
                     Own earned income-1 (imputed)
    IMAMK48A 15
                     Own earned income-2 (imputed)
    IMAMK50A 15
                     Own earned income-3 (imputed)
    IMAMK51A 15
                     Own earned income-4 (imputed)
    IMAMK53A 15
                     Spouse's earned income-1 (imputed)
    IMAMK54A 15
                     Spouse's earned income-2 (imputed)
    IMAMK56A 15
                     Spouse's earned income-3 (imputed)
    IMAMK57A 15
                     Spouse's earned income-4 (imputed)
    IMAMK61 1 1 15 Own pension income -retirement 1(imputed)
    IMAMK61 1 2 15
                     Own pension income -retirement 2(imputed)
    IMAMK61 1 3 15
                     Own pension income -retirement 3(imputed)
    IMAMK61_2_1_15
                     Own pension income -widow 1(imputed)
    IMAMK61_2_2_15
                     Own pension income -widow 2(imputed)
    IMAMK61 2 3 15

IMAMK61 3 1 15

IMAMK61 3 2 15

IMAMK61 3 3 15

IMAMK61 4 1 15
                     Own pension income -widow 3(imputed)
                     Own pension income -disability 1(imputed)
                     Own pension income -disability 2(imputed)
                     Own pension income -disability 3 (imputed)
                     Own other pension income 1(imputed)
    IMAMK61 4 2 15
                     Own other pension income 2(imputed)
    IMAMK61 4 3 15
                     Own other pension income 3(imputed)
    IMAMK67 1 1 15
                     Spouse's pension income - retirement 1(imputed)
    IMAMK67 1 2 15
                     Spouse's pension income - retirement 2 (imputed)
    IMAMK67 1 3 15
                     Spouse's pension income - retirement 3 (imputed)
    IMAMK67 2 1 15
                     Spouse's pension income - widow 1(imputed)
    IMAMK67_2_2_15
                     Spouse's pension income - widow 2(imputed)
                     Spouse's pension income - widow 3 (imputed)
    IMAMK67_2_3_15
    IMAMK67_3_1_15
                     Spouse's pension income - disability 1(imputed)
    IMAMK67_3_15
IMAMK67_3_3_15
IMAMK67_4_1_15
IMAMK67_4_2_15
IMAMK67_4_3_15
                     Spouse's pension income - disability 2(imputed)
                     Spouse's pension income - disability 3(imputed)
                     Spouse's other pension income 1 (imputed)
                     Spouse's other pension income 2(imputed)
                     Spouse's other pension income 3 (imputed)
    IMAMK80 1 15
                     Own transfer income from institutions (imputed)
    IMAMK80 2 15
                     Own transfer income from individuals (imputed)
    IMAMK80 3 15
                     Own transfer income from properties (imputed)
    IMAMK83 1 15
                     Spouse's transfer income from institutions (imputed)
    IMAMK83 2 15
                     Spouse's transfer income from individuals (imputed)
    IMAMK83 3 15
                     Spouse's transfer income from properties (imputed)
    K11_1_IMP_15
                     Business income-1 (Flag if imputed value)
    K11_2_IMP_15
                     Business income-2 (Flag if imputed value)
    K13_1_IMP_15
                     Business expenditures-1 (Flag if imputed value)
    K13_2_IMP_15
                     Business expenditures-2 (Flag if imputed value)
   K27_1_IMP_15
K27_2_IMP_15
K29_1_IMP_15
K29_2_IMP_15
K36_1_IMP_15
                     Property rent income-1 (Flag if imputed value)
                     Property rent income-2 (Flag if imputed value)
                     Property expeditures-1 (Flag if imputed value)
                     Property expeditures-2 (Flag if imputed value)
                     Capital assets income-1 (Flag if imputed value)
    K36 2 IMP 15
                     Capital assets income-2 (Flag if imputed value)
    K36 3 IMP 15
                     Capital assets income-3 (Flag if imputed value)
    K47A IMP 15
                     Own earned income-1 (Flag if imputed value)
    K48A IMP 15
                     Own earned income-2 (Flag if imputed value)
    K50A IMP 15
                     Own earned income-3 (Flag if imputed value)
```

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K51A IMP 15
                    Own earned income-4 (Flag if imputed value)
    K53A IMP 15
                     Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 15
                    Spouse's earned income-1 (Flag if imputed value)
                    Spouse's earned income-1 (Flag if imputed value)
    K53A IMP 15
    K54A IMP 15
                     Spouse's earned income-2 (Flag if imputed value)
    K54A IMP 15
                    Spouse's earned income-2 (Flag if imputed value)
    K54A IMP 15
                    Spouse's earned income-2 (Flag if imputed value)
    K56A IMP 15
                    Spouse's earned income-3 (Flag if imputed value)
    K56A IMP 15
                    Spouse's earned income-3 (Flag if imputed value)
    K56A_IMP_15
                    Spouse's earned income-3 (Flag if imputed value)
    K57A_IMP_15
                    Spouse's earned income-4 (Flag if imputed value)
                     Spouse's earned income-4 (Flag if imputed value)
    K57A_IMP_15
    K57A IMP 15
                     Spouse's earned income-4 (Flag if imputed value)
    K61_1_1_IMP_15
K61_1_2_IMP_15
                    Own pension income -retirement 1(Flag if imputed value)
                    Own pension income -retirement 2(Flag if imputed value)
    K61 1 3 IMP 15
                    Own pension income -retirement 3(Flag if imputed value)
    K61 2 1 IMP 15
                    Own pension income -widow 1(Flag if imputed value)
    K61 2 2 IMP 15
                    Own pension income -widow 2(Flag if imputed value)
    K61 2 3 IMP 15
                    Own pension income -widow 3(Flag if imputed value)
    K61 3 1 IMP 15
                    Own pension income -disability 1(Flag if imputed value)
    K61 3 2 IMP 15
                    Own pension income -disability 2(Flag if imputed value)
                    Own pension income -disability 3(Flag if imputed value)
    K61 3 3 IMP 15
    K61 4 1 IMP 15
                    Own other pension income 1(Flag if imputed value)
    K61_4_2_IMP_15
                    Own other pension income 2(Flag if imputed value)
    K61_4_3_IMP_15
                    Own other pension income 3(Flag if imputed value)
   K67 1 1 IMP 15
K67 1 2 IMP 15
K67 1 3 IMP 15
K67 2 1 IMP 15
K67 2 2 IMP 15
                    Spouse's pension income - retirement 1(Flag if imputed
                    Spouse's pension income - retirement 2(Flag if imputed
                    Spouse's pension income - retirement 3(Flag if imputed
                    Spouse's pension income - widow 1(Flag if imputed value
                    Spouse's pension income - widow 2 (Flag if imputed value
    K67 2 3 IMP 15
                    Spouse's pension income - widow 3(Flag if imputed value
    K67 3 1 IMP 15
                    Spouse's pension income - disability 1(Flag if imputed
    K67 3 2 IMP 15
                    Spouse's pension income - disability 2(Flag if imputed
    K67 3 3 IMP 15
                    Spouse's pension income - disability 3(Flag if imputed
    K67 4 1 IMP 15
                    Spouse's other pension income 1(Flag if imputed value)
    K67 4 2 IMP 15
                    Spouse's other pension income 2(Flag if imputed value)
    K67_4_3 IMP 15
                    Spouse's other pension income 3(Flag if imputed value)
    K80_1_IMP_15
                    Own transfer income from institutions (Flag if imputed
    K80_2_IMP_15
                    Own transfer income from individuals (Flag if imputed v
    K80_3_IMP_15
K83_1_IMP_15
K83_2_IMP_15
                    Own transfer income from properties (Flag if imputed va
                     Spouse's transfer income from institutions (Flag if imp
                     Spouse's transfer income from individuals (Flag if impu
    K83_3_IMP_15
                    Spouse's transfer income from properties (Flag if imput
Wave 5:
    IMAMK11 1 18
                    Business income-1 (imputed)
    IMAMK11 2 18
                    Business income-2 (imputed)
    IMAMK13 1 18
                    Business expenditures-1 (imputed)
    IMAMK13 2 18
                    Business expenditures-2 (imputed)
    IMAMK27 1 18
                    Property rent income (imputed)
    IMAMK27 2 18
    IMAMK29_1_18
                    Property expeditures (imputed)
    IMAMK29_2_18
    IMAMK36_1_18
                    Capital assets income-1 (imputed)
    IMAMK36_2_18
                    Capital assets income-2 (imputed)
    IMAMK36_3_18
IMAMK47A_18
                    Capital assets income-3 (imputed)
                    Own earned income-1 (imputed)
    IMAMK48A 18
                    Own earned income-2 (imputed)
    IMAMK50A 18
                    Own earned income-3 (imputed)
                    Own earned income-4 (imputed)
    IMAMK51A 18
    IMAMK53A 18
                    Spouse's earned income-1 (imputed)
    IMAMK54A 18
                    Spouse's earned income-2 (imputed)
    IMAMK56A 18
                    Spouse's earned income-3 (imputed)
    IMAMK57A 18
                    Spouse's earned income-4 (imputed)
    IMAMK61 1 1 18
                    Own pension income -retirement 1 (imputed)
```

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IMAMK61 1 2 18 Own pension income -retirement 2 (imputed)
IMAMK61 2 1 18
                 Own pension income -widow 1 (imputed)
IMAMK61 2 2 18
                 Own pension income -widow 2 (imputed)
IMAMK61 3 1 18
                 Own pension income -disability 1 (imputed)
IMAMK61 3 2 18
                 Own pension income -disability 2 (imputed)
IMAMK61 4 1 18
                 Own other pension income 1 (imputed)
IMAMK61 4 2 18
                 Own other pension income 2 (imputed)
IMAMK67_1_1 18
                 Spouse's pension income - retirement 1 (imputed)
IMAMK67 1 2 18
                 Spouse's pension income - retirement 2 (imputed)
IMAMK67_2_1_18
                 Spouse's pension income - widow 1 (imputed)
IMAMK67_2_2_18
                 Spouse's pension income - widow 2 (imputed)
IMAMK67_3_1_18
IMAMK67_3_2_18
IMAMK67_4_1_18
IMAMK67_4_2_18
                 Spouse's pension income - disability 1 (imputed)
Spouse's pension income - disability 2 (imputed)
                 Spouse's other pension income 1 (imputed)
                 Spouse's other pension income 2 (imputed)
IMAMK80 1 18
IMAMK80 2 18
IMAMK80 3 18
                 Own transfer income from properties (imputed)
IMAMK83 1 18
IMAMK83 2 18
                 Spouse's transfer income from properties (imputed)
IMAMK83 3 18
                 Business income-1 (Flag if imputed value)
K11 1 IMP 18
K11 2 IMP 18
                 Business income-2 (Flag if imputed value)
K13_1_IMP_18
                 Business expenditures-1 (Flag if imputed value)
K13_2_IMP_18
                 Business expenditures-2 (Flag if imputed value)
K27_1_IMP_18
K27_2_IMP_18
K29_1_IMP_18
K29_2_IMP_18
K36_1_IMP_18
                 Property rent income (Flag if imputed value)
                 Property expeditures (Flag if imputed value)
                 Capital assets income-1 (Flag if imputed value)
K36 2 IMP 18
                 Capital assets income-2 (Flag if imputed value)
K36 3 IMP 18
                 Capital assets income-3 (Flag if imputed value)
K47A IMP 18
                 Own earned income-1 (Flag if imputed value)
K48A IMP 18
                 Own earned income-2 (Flag if imputed value)
K50A IMP 18
                 Own earned income-3 (Flag if imputed value)
K51A IMP 18
                 Own earned income-4 (Flag if imputed value)
K53A_IMP 18
                 Spouse's earned income-1 (Flag if imputed value)
K53A_IMP_18
                 Spouse's earned income-1 (Flag if imputed value)
K53A_IMP_18
                 Spouse's earned income-1 (Flag if imputed value)
K54A_IMP_18
                 Spouse's earned income-2 (Flag if imputed value)
                 Spouse's earned income-2 (Flag if imputed value)
K54A_IMP_18
K54A IMP 18
                 Spouse's earned income-2 (Flag if imputed value)
K56A IMP 18
                 Spouse's earned income-3 (Flag if imputed value)
K56A IMP 18
                 Spouse's earned income-3 (Flag if imputed value)
K56A IMP 18
                 Spouse's earned income-3 (Flag if imputed value)
K57A IMP 18
                 Spouse's earned income-4 (Flag if imputed value)
K57A IMP 18
                 Spouse's earned income-4 (Flag if imputed value)
K57A IMP 18
                 Spouse's earned income-4 (Flag if imputed value)
K61 1 1 IMP 18
                 Own pension income -retirement 1 (Flag if imputed value
K61 1 2 IMP 18
                 Own pension income -retirement 2 (Flag if imputed value
K61_2_1_IMP_18
                 Own pension income -widow 1 (Flag if imputed value)
K61_2_2_IMP_18
                 Own pension income -widow 2 (Flag if imputed value)
K61_3_1_IMP_18
                 Own pension income -disability 1 (Flag if imputed value
K61_3_2_IMP_18
                 Own pension income -disability 2 (Flag if imputed value
K61_4_1_IMP_18
K61_4_2_IMP_18
K67_1_1_IMP_18
K67_1_2_IMP_18
                 Own other pension income 1 (Flag if imputed value)
                 Own other pension income 2 (Flag if imputed value)
                 Spouse's pension income - retirement 1 (Flag if imputed
                 Spouse's pension income - retirement 2 (Flag if imputed Spouse's pension income - widow 1 (Flag if imputed valu
K67 2 1 IMP 18
K67 2 2 IMP 18
                 Spouse's pension income - widow 2 (Flag if imputed valu
K67_3_1_IMP_18
                 Spouse's pension income - disability 1 (Flag if imputed
                 Spouse's pension income - disability 2 (Flag if imputed
K67 3 2 IMP 18
K67 4 1 IMP 18
                 Spouse's other pension income 1 (Flag if imputed value)
K67 4 2 IMP 18
                 Spouse's other pension income 2 (Flag if imputed value)
```

K80_1_IMP_18	
K80_2_IMP_18	
K80_3_IMP_18	Own transfer income from properties (Flag if imputed va
K83_1_IMP_18	
K83_2_IMP_18	Spouse's transfer income from properties (Flag if imput
K83_3_IMP_18	

Total Household Consumption (full household)

Wave	Variable	Label	Type
1	HH1CTOT1M	hhlctotlm:wl Hhold monthly total consumption	Cont
2	HH2CTOT1M	hh2ctot1m:w2 Hhold monthly total consumption	Cont
3	HH3CTOT1M	hh3ctot1m:w3 Hhold monthly total consumption	Cont
4	HH4CTOT1M	hh4ctot1m:w4 Hhold monthly total consumption	Cont
5	HH5CTOT1M	hh5ctot1m:w5 Hhold monthly total consumption	Cont
1	HH1CFTOT1M	hhlcftotlm:wlFlag: Hhold monthly total consumption	Categ
2	HH2CFTOT1M	hh2cftot1m:w2Flag: Hhold monthly total consumption	Categ
3	HH3CFTOT1M	hh3cftot1m:w3Flag: Hhold monthly total consumption	Categ
4	HH4CFTOT1M	hh4cftot1m:w4Flag: Hhold monthly total consumption	Categ
5	HH5CFTOT1M	hh5cftot1m:w5Flag: Hhold monthly total consumption	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CTOT1M	15636	3860.09	27795.23	1.00	2222100.00
HH2CTOT1M	14032	3719.21	19469.46	0.00	1500212.00
HH3CTOT1M	15723	3742.95	4989.94	1.00	250000.00
HH4CTOT1M	14745	5319.53	60484.67	1.00	5000000.00
HH5CTOT1M	17094	6571.82	40053.95	15.54	5000000.00
HH1CFTOT1M	15186	0.08	0.28	-1.00	1.00
HH2CFTOT1M	13704	0.09	0.29	-1.00	1.00
HH3CFTOT1M	15723	0.09	0.29	0.00	1.00
HH4CFTOT1M	14779	0.06	0.24	-1.00	1.00
HH5CFTOT1M	17114	0.08	0.27	-1.00	1.00

Categorical Variable Codes

Value		HH1CFTOT1M	HH2CFTOT1M	HH3CFTOT1M	HH4CFTOT1M	HH5CFTOT1M
-1.No Imput:section not complete		59	31		34	20
0.Not imputed		13857	12470	14258	13887	15732
1.Imputed	- 1	1270	1203	1465	858	1362

How Constructed

HHwCTOT1M captures the full household's total consumption at the monthly-level. HHwCTOT1M includes all household expenditures but does not include the value of goods produced for home consumption.

The financial informant is asked "In total, about how much do you spend in a month for household expenditures? Exclude the value of what you produce for home consumption." HHwCTOT1M is derived as this reported monthly value of the full household's total consumption. HHwCTOT1M is derived at the household level but is assumed to include expenditures for all members of the household, meaning that its value represents the full household not just the respondent and or/spouse. Special missing .m is used if HHwCTOT1M was not imputed because the respondent did not complete the section. HHwCTOT1M is set to blank missing (.) if the respondent did not participate in the current wave.

 ${\rm HHwCTOT1M}$ is a flag variable indicating whether or not ${\rm HHwCTOT1M}$ was imputed. A code of 0 indicates that ${\rm HHwCTOT1M}$ was not imputed. A code of 1 indicates that ${\rm HHwCTOT1M}$ was not imputed because the respondent did not complete the section and this value has been left missing.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The HRS does not have an equivalent variable.

Wave 1:	
IMAM85	total household consumption (imputed)
K85IMP	if imputed value
Wave 2:	
IMAMK88	total household consumption (imputed)
K88IMP	if imputed value
Wave 3:	
IMAMK88 12	Total cost household consumption (imputed)
K88 IMP 12	Total cost household consumption (Flag if imputed value
Wave 4:	
IMAMK88 15	Total cost household consumption (imputed)
K88 IMP 15	Total cost household consumption (Flag if imputed value
Wave 5:	
IMAMK88 18	Total cost household consumption (imputed)
K88_IMP_18	Total cost household consumption (Flag if imputed value

Section G: Family Structure

Number of People Living in Household

Wave	Variable	Label	Type
1	H1HHRES	h1hhres: w1 Number of people in HH	Cont
2	H2HHRES	h2hhres: w2 Number of people in HH	Cont
3	H3HHRES	h3hhres: w3 Number of people in HH	Cont
4	H4HHRES	h4hhres: w4 Number of people in HH	Cont
5	H5HHRES	h5hhres: w5 Number of people in HH	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1HHRES	15186	4.11	2.29	1.00	19.00
H2HHRES	13704	3.09	2.24	1.00	19.00
H3HHRES	15723	3.00	2.20	1.00	19.00
H4HHRES	14779	2.45	1.74	1.00	19.00
H5HHRES	17114	2.40	1.65	1.00	17.00

How Constructed

HwHHRES counts the number of people living in the household, including the respondents. The number of residents living in a household is obtained using the Household Roster Section (TRH) which includes all members reported to live in the household, as identified by the household respondent, whether or not they are eligible for the MHAS. In Wave 1, the number of household members was derived by counting the number of people reported in the Household Roster. However, starting in Wave 2, the number was obtained from the variable included in the Roster that indicates the number of people living in the household. In the case that the respondent and the spouse (if any) lived alone the number was obtained from the HwHHRESP. HwHHRES is set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

In Wave 1, the Household Roster included the respondent and spouse. Thus, the number of household residents was derived from the count of people reported in the Roster. Starting in Wave 2, the Household Roster did not include the respondent and spouse and the list included only other residents, if any. The new questionnaire included a variable to report the number of household residents. These variables were used to obtain HwHHRES. Also, starting in Wave 2, if the respondent and the spouse (if any) lived alone, the Household Roster was not completed and the number of household members was completed using the HwHHRESP variable available in the Demographics section.

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each household variable accounts for both the follow-up and the new samples.

Differences with the RAND HRS/Harmonized HRS

No differences known.

```
Wave 1:
    TRH2
                    registration number of household member
Wave 2:
    TRH2_1
                    total number of people listed
Wave 3:
    NTRH2B 12
                    Interviewer: Report the total number of listed individua
    TRH2B 12
                    Interviewer: Report the total number of listed individua
Wave 4:
    NTRH2B 15
                    Interviewer: Report the total number of listed individua
    TRH2B 15
                    Interviewer: Report the total number of listed individua
Wave 5:
```

NTRH2B_18 (New person) Interviewer:Report total number of individ TRH2B_18 (Follow-up) Interviewer:Report total number of individu

Number of Living Children

Wave	Variable	Label	Type
1	H1CHILD	hlchild: w1 Number of living children R/P	Cont
2	H2CHILD	h2child: w2 Number of living children R/P	Cont
3	H3CHILD	h3child: w3 Number of living children R/P	Cont
4	H4CHILD	h4child: w4 Number of living children R/P	Cont
5	H5CHILD	h5child: w5 Number of living children R/P	Cont
1	H1SON	hlson: wl Number of living sons R/P	Cont
2	H2SON	h2son: w2 Number of living sons R/P	Cont
3	H3SON	h3son: w3 Number of living sons R/P	Cont
4	H4SON	h4son: w4 Number of living sons R/P	Cont
5	H5SON	h5son: w5 Number of living sons R/P	Cont
1	H1DAU	hldau: wl Number of living daughters R/P	Cont
2	H2DAU	h2dau: w2 Number of living daughters R/P	Cont
3	H3DAU	h3dau: w3 Number of living daughters R/P	Cont
4	H4DAU	h4dau: w4 Number of living daughters R/P	Cont
5	H5DAU	h5dau: w5 Number of living daughters R/P	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CHILD	15186	5.27	3.12	0.00	21.00
H2CHILD	13704	5.45	3.15	0.00	21.00
H3CHILD	15723	4.78	2.93	0.00	21.00
H4CHILD	14779	4.79	2.89	0.00	21.00
H5CHILD	17114	4.29	2.71	0.00	22.00
H1SON	15186	2.65	1.93	0.00	13.00
H2SON	13704	2.75	1.96	0.00	13.00
H3SON	15723	2.39	1.82	0.00	13.00
H4SON	14779	2.39	1.80	0.00	13.00
H5SON	17114	2.13	1.68	0.00	14.00
H1DAU	15186	2.62	1.94	0.00	13.00
H2DAU	13704	2.70	1.96	0.00	13.00
H3DAU	15723	2.39	1.84	0.00	12.00
H4DAU	14779	2.40	1.84	0.00	13.00
H5DAU	17114	2.15	1.73	0.00	12.00

How Constructed

HwSON is the number of living sons of the respondent and their spouse or partner. HwDAU is the number of living daughters of the respondent and their spouse or partner. HwCHILD provides the number of living children of the respondent and their spouse or partner. The number of children is obtained by counting anyone in the Household Roster (TRH) who is a child, step child, adopted child, or foster child, using the relationship variable included in this module. In addition, the variable included the count of non-resident children reported in the Non-Resident Children (MHAS Section B) module. All of the respondent's and spouse's living children are counted in one total. The number of sons and daughters is obtained following the same process in addition to the reported gender for each child. HwSON, HwDAU, and HwCHILD are set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each household variable accounts for both the follow-up and the new samples.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS ask respondents to identify foster children in the Household Roster, and they are included in the count of living children.

```
Wave 1:
   В3
                    registration number of nonresident child
    B5
                    sex of nonresident child
                    relationship of nonresident child to sampled person
                    relationship of nonresident child to spouse of sampled
    TRH2
                    registration number of household member
    TRH5
                    sex of household member
    TRH6
                    relationship of household member to selected person
    TRH7
                    relationship of household member to spouse of sel. pers
Wave 2:
    вЗ
                    registration number
    В5
    В7
                    residency status
    TRH10
                    relationship with spouse
    TRH3
                    registration number
    TRH8
                    gender
    TRH9
                    relationship
Wave 3:
    B3 12
                    Follow-up respondent's registration number
    B5 12
                    Sex of non-resident child
   B7 12
                    Residency status of non-resident child
   NB3 12
                    New respondent's registration number
   NB5 12
                    Sex of non-resident child
   NB6_12
                    Non-resident child's relationship to you
   NB7 12
                    Non-resident child's relationship to respondent's spous
   NTRH3 12
                    Resident's registration number
   NTRH5 12
                    Sex of resident
   NTRH6 12
                    Resident's relationship to respondent
   NTRH7 12
                    Resident's relationship with respondent's spouse
   TRH10 12
                    Resident's relationship to respondent's spouse
    TRH3 12
                    Household Resident registration number
    TRH8 12
                    Resident's Sex
                    Resident's relationship to respondent
    TRH9 12
Wave 4:
   ВЗ 15
                    Non-resident Child: Registration number
   B5 15
                    Non-resident Child: Sex
   В7 15
                    Non-resident Child: Residency status of non-resident ch
   NB3_15
                    Non-resident Child: Registration number
   NB5_15
                    Non-resident Child: Sex
   {\rm NB}\, 6_-\, 15
                    Non-resident Child: Relationship to Respondent
   NB7 15
                    Non-resident Child: Relationship to Respondent's spouse
   NTRH3 15
                    Resident's registration number
   NTRH5 15
                    Sex of resident
   NTRH6 15
                    Resident's relationship to respondent
   NTRH7 15
                    Resident's relationship with respondent's spouse
    TRH10 15
                    Resident's relationship to respondent's spouse
    TRH3 15
                    Household resident registration number
    TRH8 15
                    Resident's sex
    TRH9 15
                    Resident's relationship to respondent
Wave 5:
                    Non-resident Child: Registration number
    В3 18
    B5_18
                    Non-resident Child: Sex
    B7_18
                    Non-resident Child: Residency status of non-resident ch
                    Non-resident Child: Registration number
    NB3 18
                    Non-resident Child: Sex (Male=1)
    NB5_18
   NB6 18
                    Non-resident Child: Relationship to Respondent
    NB7 18
                    Non-resident Child: Relationship to Respondent's spouse
```

NTRH3_18	Household resident registration number
NTRH5_18	Resident's sex (Male=1)
NTRH6_18	Resident's relationship to respondent
NTRH7_18	Resident's relationship to respondent's spouse
TRH10_18	Resident's relationship to respondent's spouse
TRH3_18	Household resident registration number
TRH8_18	Resident's sex (Male=1)
TRH9_18	Resident's relationship to respondent

Number of Deceased Children

Wave	Variable	Label							Type
1	H1DCHILD	h1dchild:	w1	Number	of	deceased	children	R/P	Cont
2	H2DCHILD	h2dchild:	w2	Number	of	deceased	children	R/P	Cont
3	H3DCHILD	h3dchild:	wЗ	Number	of	deceased	children	R/P	Cont
4	H4DCHILD	h4dchild:	w4	Number	of	deceased	children	R/P	Cont
5	H5DCHILD	h5dchild:	w5	Number	of	deceased	children	R/P	Cont.

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1DCHILD	15186	0.75	1.31	0.00	11.00
H2DCHILD	13704	0.76	1.31	0.00	11.00
H3DCHILD	15723	0.61	1.19	0.00	12.00
H4DCHILD	14779	0.61	1.18	0.00	15.00
H5DCHILD	17114	0.49	1.07	0.00	15.00

How Constructed

HwDCHILD indicates the number of deceased children of the respondent and their spouse or partner.

In Wave 1, the number of deceased children is obtained by counting all the deceased children listed in the 'Deceased Children' section that is part of the Non-Resident Children (MHAS Section B) module.

In Wave 2, HwDCHILD was obtained by counting the additional deceased children reported in the Household Roster (TRH) and the Non-Resident Children (MHAS Section B) sections. A residential status variable included in the TRH was used to identify the deceased children listed in the Household Roster in the previous wave. In addition, a residential status variable included in Section B was used to identify the deceased children listed in the Non-Resident Children roster. The counts of resident and non-resident children were used to update the number of deceased children in Wave 2, adding the total count to the number reported in the previous wave.

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, HwDCHILD was constructed in different ways for the follow-up and the new samples. Similar to Wave 1, HwDCHILD was obtained for the new sample by counting the number of all the deceased children listed in the 'Deceased Children' section that is part of the Non-Resident Children (MHAS Section B) module. Similar to Wave 2, HwDCHILD was obtained for the follow-up sample by updating the number of deceased children.

HwDCHILD is set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

In Wave 2, the 'Deceased Children' section was not asked since the study only included the follow-up sample (as well as new spouses) in this wave. However, both the Household Roster (TRH) and the Non-Resident Children (MHAS Section B) sections included a variable to establish the new status in the wave and update the rosters. The residential status variable in the TRH included the following options: Still lives here or temporarily absent, Permanently absent, Deceased, Listed by mistake, and New resident. The residential status in Section B included the following options: Still lives elsewhere, Omitted non-resident child, Deceased, Resides in residence of respondent, Listed by mistake. These statuses were used to establish the deceased children not accounted for in the previous wave.

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each household variable accounts for both the follow-up and the new sample. In a similar way to Wave 2, the count of deceased children for follow-up households was updated using the residential status variables.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS ask respondents to identify foster children in the Household Roster, and they are included in the count of living children.

```
Wave 1:
   B25
                    registration number of deceased children
Wave 2:
    В1
                    code of respondent
    TRH10
                    relationship with spouse
    TRH3
                    registration number
    TRH5
                    current situation
   TRH9
                    relationship
Wave 3:
   B21B 12
                    Deceased CHILD: registration number
   B3 12
                    Follow-up respondent's registration number
   в7 12
                    Residency status of non-resident child
   NB25 12
                    New respondent's registration number
   TRH10 12
                    Resident's relationship to respondent's spouse
   TRH3 12
                    Household Resident registration number
    TRH5 12
                    Former Resident's current residential status
    TRH9 12
                    Resident's relationship to respondent
Wave 4:
    B21B 15
                    Deceased Child: Registration number
    ВЗ 15
                    Non-resident Child: Registration number
   в7 15
                    Non-resident Child: Residency status of non-resident ch
   NB25 15
                    Deceased Child: Registration number
    TRH10 15
                    Resident's relationship to respondent's spouse
    TRH3_15
                    Household resident registration number
    TRH5 15
                    Former resident's current residential status
    TRH9_15
                    Resident's relationship to respondent
Wave 5:
    B21B 18
   B3 18
                    Non-resident Child: Registration number
   в7 18
                    Non-resident Child: Residency status of non-resident ch
    NB25 18
                    Deceased Child: Registration number
    TRH10 18
                    Resident's relationship to respondent's spouse
    TRH3 18
                    Household resident registration number
    TRH5 18
                    Former resident's current residential status
    TRH9 18
                   Resident's relationship to respondent
```

Number of Children Ever Born

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Wave	Variable	Label	Type
1	RAEVBRN	raevbrn: R Number of children ever born	Cont
1	S1EVBRN	slevbrn: w1 S Number of children ever born	Cont
2	S2EVBRN	s2evbrn: w2 S Number of children ever born	Cont
3	S3EVBRN	s3evbrn: w3 S Number of children ever born	Cont
4	S4EVBRN	s4evbrn: w4 S Number of children ever born	Cont
5	S5EVBRN	s5evbrn: w5 S Number of children ever born	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAEVBRN	26776	4.85	3.28	0.00	27.00
S1EVBRN S2EVBRN	10635 9835	5.94 6.01	3.47 3.48	0.00	23.00
S3EVBRN	10555	5.03	3.07	0.00	23.00
S4EVBRN	9814	4.96	2.97	0.00	22.00
S5EVBRN	7461	4.94	2.93	0.00	20.00

How Constructed

RAEVBRN provides the number of children ever born to the respondent. Number of children ever born does not include stepchildren, adoptions or miscarriages. RAEVBRN is based on responses to the question, "How many children have you had that were born alive?". RAEVBRN is obtained using the number of children reported in Section A (Demographics), for each respondent. The number is not calculated using the number of children reported the Household Roster (TRH) and in the Non-Resident Children (MHAS Section B) modules. When respondents don't know, refuse, or their answer is missing for another reason RAEVBRN is assigned special missing values .d, .r, or .m. respectively. RAEVBRN is set to plain missing (.) for respondents who did not respond to the current wave.

The spouse variable SwEVBRN is taken from the Wave 'w' spouse's RAEVBRN variable. 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 MHAS

In Wave 2, the number of children ever born was asked only to new subjects. However, starting in Wave 3, the question was asked to new subjects and for follow-up interviews, and an additional question was included to verify the number of children ever born reported in the previous waves. If the respondent declared that the number was incorrect the question was asked again. Thus, the variable RAEVBRN was updated with the correct number of children reported.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS explicitly asks respondents to report the number of live births.

```
Wave 1:

Al9 number of children born alive

Wave 2:

AA19 how many children born alive do you have

Wave 3:

A7_1_12 Respondent's stated number of children born alive corre

A7 2 12 Correct number of children born alive
```

AA19_12	Respondent's number of children born alive
Wave 4:	
A7 1 15	Respondent's stated number of children born alive - Cor
A7 2 15	Correct number of children born alive
AA19 15	Respondent's number of children born alive
Wave 5:	
A7A 18	Correct number of children born alive
A7 $\frac{1}{18}$	R's stated number of children born alive - Correct
$AA\overline{1}9 18$	R's number of children born alive
_	

Number of Grandchildren

Wave	Variable	Label						Type
1	H1GRCHILD	h1grchild: w	v1 N	Number	of	grandchildren	R/P	Cont
2	H2GRCHILD	h2grchild: w	12 N	Number	of	grandchildren	R/P	Cont
3	H3GRCHILD	h3grchild: w	v3 N	Number	of	grandchildren	R/P	Cont
4	H4GRCHILD	h4grchild: w	74 N	Number	of	grandchildren	R/P	Cont
5	H5GRCHILD	h5grchild: w	75 N	Number	of	grandchildren	R/P	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1GRCHILD	15186	9.37	10.39	0.00	89.00
H2GRCHILD	13704	10.27	10.49	0.00	79.00
H3GRCHILD	15723	8.00	8.53	0.00	50.00
H4GRCHILD	14779	9.12	8.79	0.00	50.00
H5GRCHILD	17114	7.35	8.07	0.00	50.00

How Constructed

HwGRCHILD provides the number of grandchildren of the respondent and their spouse (if any). The variable was obtained by adding the number of grandchildren for each resident child (from the Household Roster-TRH) and non-resident children (from the Non-resident Children-Section B). In both rosters, if the respondent listed children, for each child 12 years or older, the MHAS asks the respondent how many children the child has. HwGRCHILD is set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each household variable accounts for both the follow-up and the new sample.

Differences with the RAND HRS/Harmonized HRS

The total number of grandchildren is provided in HwGRCHILD in the Harmonized HRS, while the the number of grandchildren from each child is provided in KwNKID in the RAND HRS Family Data. Unlike the HRS, in MHAS the number of grandchildren is only asked for each child 12 years or older.

```
Wave 1:
    B16
                    number of children of nonresident child
                    number of children of household member
    TRH15
Wave 2:
                    number of children
    R15
    TRH17
                    number of children - resident children
Wave 3:
    B15 12
                    How many children does non-resident child 12 years or o
    NB16 12
                    How many children does non-resident child have
                    Number of children resident has
    NTRH15 12
    TRH17 \overline{1}2
                    Resident CHILD age 12+: number of children
Wave 4:
    B15 15
                    Non-resident Child 12 years+: Number of children
                    Non-resident Child 12 years+: Number of children
    NB16 15
    NTRH15 15
                    Number of children resident has
    TRH17 15
                    Resident CHILD 12 years+: Number of children
Wave 5:
                    Non-resident Child 12 years+: Number of children
    B15 18
                    Non-resident Child 12 years+: Number of children
    NB16 18
```

NTRH15_18 Resident CHILD 12 years+: Number of children TRH17_18 Resident CHILD 12 years+: Number of children

Number of Living Siblings

Wave	Variable	Label						ŗ	Гуре
1	R1LIVSIB	rllivsib:	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
5	R5LIVSIB	r5livsib:	w5 R	Number	of	living	siblings	(Cont
1	S1LIVSIB	sllivsib:	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
5	S5LIVSIB	s5livsib:	w5 S	Number	of	living	siblings	(Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIVSIB	14826	4.71	3.07	0.00	21.00
R2LIVSIB	13413	4.64	3.03	0.00	21.00
R3LIVSIB	14268	5.06	3.12	0.00	24.00
R4LIVSIB	13474	4.91	3.05	0.00	23.00
R5LIVSIB	15568	5.14	3.04	0.00	24.00
S1LIVSIB	10436	5.02	3.08	0.00	21.00
S2LIVSIB	9399	4.96	3.05	0.00	21.00
S3LIVSIB	9757	5.32	3.10	0.00	21.00
S4LIVSIB	8991	5.19	3.02	0.00	23.00
S5LIVSIB	6812	5.13	3.02	0.00	22.00

How Constructed

RwLIVSIB is the number of the respondent's living siblings. In both Wave 1 and Wave 2, all participants are asked, "How many siblings who were born alive do you have?". They are then asked, "Of your siblings who were born alive, how many are living now?" In the case that the respondent reports not having any siblings born alive RwLIVSIB is set to 0. In all other cases, RwLIVSIB records the number of living siblings. In Wave 3, follow-up participants were only asked "Of your siblings who were born alive, how many are living now?" and only if they reported having a sibling in a previous wave or if they didn't know or refused to answer the questions in the previous wave. Starting in Wave 4, all participants (follow-up and new sample) were asked both questions. When respondents don't know, refuse, or their answer is missing for another reason, RwLIVSIB is assigned special missing values .d, .r, or .m, respectively. Also starting in Wave 3, RwLIVSIB is set to special missing .p if the sibling questions were skipped because the interview was by proxy. RwLIVSIB is set to plain missing (.) for respondents who did not respond to the current wave.

SwLIVSIB is the number of the spouse's siblings. They are taken from the spouse's RwLIVSIB. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Starting in Wave 3, proxy interviews skipped these questions. Also in Wave 3, the number of siblings ever born was pre-loaded for follow-up interviews. If the subject reported having siblings in the previous waves they were asked how many are living now. If the subject reported no siblings they skipped the number of living sibling's question. Thus, for follow-up interviews, the total number of living siblings was obtained using the number of siblings ever born reported in the previous waves as well as the number of living siblings reported in wave 3. For the new sample, the total number was obtained similar to the previous waves. Starting in Wave 4, all participants (follow-up and new sample) were asked both questions.

Differences with the RAND HRS/Harmonized HRS

In Waves 1, 2H, 3H, 4 and 5 of the HRS, this information is provided by the Family Respondent. In all other HRS Waves, each respondent reports the number of their living siblings.

Wave 1:	
F30	siblings born alive
F31	siblings still alive
Wave 2:	
F34	how many siblings were born alive
F36	how many siblings are still alive
Wave 3:	
F34_12	Respondent's number of siblings born alive
F36_12	Currently: How many of the respondent's siblings are liv
Wave 4:	
F34 15	Respondent's number of siblings born alive
F36 15	Currently: Of the siblings born alive, how many are sti
Wave 5:	
F34 18	R's number of siblings born alive
F36 18	Currently: Of the siblings born alive, how many are sti
_	

Number of Deceased Siblings

Wave	Variable	Label	Туре
1	R1DECSIB	rldecsib: 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
5	R5DECSIB	r5decsib: w5 R Number of deceased siblings	Cont
1	S1DECSIB	sldecsib: 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
5	S5DECSIB	s5decsib: w5 S Number of deceased siblings	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DECSIB	14826	1.79	2.36	0.00	20.00
R2DECSIB	13413	1.93	2.40	0.00	20.00
R3DECSIB	15706	1.71	2.45	0.00	21.00
R4DECSIB	13474	1.73	2.25	0.00	22.00
R5DECSIB	15568	1.59	2.17	0.00	22.00
S1DECSIB	10436	1.63	2.24	0.00	18.00
S2DECSIB	9399	1.76	2.29	0.00	20.00
S3DECSIB	10580	1.59	2.34	0.00	21.00
S4DECSIB	8991	1.61	2.17	0.00	22.00
S5DECSIB	6812	1.73	2.23	0.00	22.00

How Constructed

RwDECSIB is the number of the respondent's deceased siblings. In both Wave 1 and Wave 2, all participants are asked "How many siblings who were born alive do you have?" They are then asked "Of your siblings who were born alive, how many are living now?" In Wave 3, follow-up participants were only asked "Of your siblings who were born alive, how many are living now?" and only if they reported having a sibling in a previous wave or if they didn't know or refused to answer the questions in the previous wave. Starting in Wave 4, all participants (follow-up and new sample) were asked both questions. RwDECSIB was obtained by subtracting the number of living siblings by the number of siblings ever born. In the case that the respondent reports not having any siblings born alive, RwDECSIB is set to 0. There are cases in which respondents report more living siblings than the number of siblings ever born, in these cases RwDECSIB is assigned a 0 value. When respondents don't know, refuse, or their answer is missing for another reason, RwDECSIB is assigned special missing values .d, .r, or .m. respectively. RwDECSIB is set to special missing (.p) if the sibling questions were skipped because the interview was by proxy. RwDECSIB is set to plain missing (.) for respondents who did not respond to the current wave.

SwDECSIB is the number of the spouse's deceased siblings. They are taken from the spouse's RwDECSIB. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Starting in Wave 3, proxy interviews skipped these questions. Also in Wave 3, the number of siblings ever born was pre-loaded for follow-up interviews. If the subject reported having siblings in the previous waves they were asked how many are living now. If the subject reported no siblings they skipped the number of living siblings question. Thus, for follow-up interviews, the total number of deceased siblings was obtained using the number of sibling's ever born reported in the most recent previous wave as well as the number of living siblings reported in Wave 3. For the new sample, the total number was obtained

similar to the previous waves. Starting in Wave 4, all participants (follow-up and new sample) were asked both questions.

Differences with the RAND HRS/Harmonized HRS

In Waves 1, 2H, 3H, 4 and 5 of the HRS, this information is provided by the Family Respondent. In all other HRS Waves, each respondent reports the number of their living siblings.

siblings born alive
siblings still alive
how many siblings were born alive
how many siblings are still alive
Respondent's number of siblings born alive
Currently: How many of the respondent's siblings are liv
Respondent's number of siblings born alive
Currently: Of the siblings born alive, how many are sti
R's number of siblings born alive
Currently: Of the siblings born alive, how many are sti

Number of Living Parents

Wave	Variable	Label	Type
1	R1LIVPAR	rllivpar: 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
5	R5LIVPAR	r5livpar: w5 R Number of living parents	Cont
1	S1LIVPAR	sllivpar: w1 S 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
5	S5LIVPAR	s5livpar: w5 S Number of living parents	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIVPAR	14904	0.43	0.66	0.00	2.00
R2LIVPAR	13404	0.38	0.62	0.00	2.00
R3LIVPAR	15551	0.52	0.69	0.00	2.00
R4LIVPAR	14582	0.33	0.58	0.00	2.00
R5LIVPAR	16920	0.41	0.64	0.00	2.00
S1LIVPAR	10483	0.51	0.69	0.00	2.00
S2LIVPAR	9381	0.45	0.66	0.00	2.00
S3LIVPAR	10471	0.58	0.71	0.00	2.00
S4LIVPAR	9541	0.38	0.62	0.00	2.00
S5LIVPAR	7401	0.29	0.55	0.00	2.00

How Constructed

RwLIVPAR provides the number of the living parents for the respondent. The following is asked in all waves: "Is your mother/father alive now?". RwLIVPAR is coded as 0 if neither parent is alive, 1 if one parent is alive, and 2 if both parents are alive. When respondents don't know, refuse, or their answer is missing for another reason RwLIVPAR is assigned special missing values .d, .r, or .m. respectively. RwLIVPAR is set to plain missing (.) for respondents who did not respond to the current wave.

SwLIVPAR records the number of living parents of the spouse in the current wave. It is taken from the spouse's RwLIVPAR. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

In Wave 3, for follow-up interviews an additional question was added to verify the mother and father status. The new question is "In the last interview, you said your mother/father (was alive/had passed away). Is this correct?" The information from previous waves was preloaded and the options were: "She/he was alive" or "She/he had passed away". This reported status was also used to construct the R3LIVPAR and S3LIVPAR variables. If the subject reported the mother/father had passed away these follow-up questions were skipped. Starting in Wave 4, follow-up and new respondents were asked the same questions.

Differences with the RAND HRS/Harmonized HRS

No differences known.

MHAS Variables Used

Wave 1:

F10	father alive
F3	mother alive
Wave 2:	
F12	father presently alive
F3	mother presently alive
Wave 3:	
F10A 12	Last interview: Was respondent's father living
$F12 \overline{1}2$	Currently:Is respondent's father living
F1A 12	Last interview: Was respondent's mother living
F3 12	Currently:Is respondent's mother living
Wave 4:	
F12 15	Is respondent's father alive
F3 15	Is respondent's mother alive
Wave 5:	
F12 18	Is R's father alive
F3_18	Is R's mother alive

Parental Mortality

Wave	Variable	Label	Type
1	R1MOMLIV	rlmomliv: 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
5	R5MOMLIV	r5momliv: w5 R Mother Alive	Categ
1	S1MOMLIV	slmomliv: 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
5	S5MOMLIV	s5momliv: w5 S Mother Alive	Categ
1	R1DADLIV	rldadliv: 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
5	R5DADLIV	r5dadliv: w5 R Father Alive	Categ
1	S1DADLIV	sldadliv: 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
5	S5DADLIV	s5dadliv: w5 S Father Alive	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MOMLIV	15045	0.28	0.45	0.00	1.00
R2MOMLIV	13588	0.25	0.43	0.00	1.00
R3MOMLIV	15665	0.34	0.47	0.00	1.00
R4MOMLIV	14705	0.22	0.41	0.00	1.00
R5MOMLIV	17050	0.26	0.44	0.00	1.00
S1MOMLIV	10567	0.32	0.47	0.00	1.00
S2MOMLIV	9493	0.29	0.45	0.00	1.00
S3MOMLIV	10554	0.37	0.48	0.00	1.00
S4MOMLIV	9614	0.25	0.43	0.00	1.00
S5MOMLIV	7438	0.19	0.39	0.00	1.00
R1DADLIV	14852	0.15	0.36	0.00	1.00
R2DADLIV	13388	0.13	0.34	0.00	1.00
R3DADLIV	15499	0.18	0.39	0.00	1.00
R4DADLIV	14557	0.11	0.31	0.00	1.00
R5DADLIV	16845	0.15	0.35	0.00	1.00
S1DADLIV	10433	0.18	0.39	0.00	1.00
S2DADLIV	9364	0.16	0.36	0.00	1.00
S3DADLIV	10424	0.21	0.41	0.00	1.00
S4DADLIV	9521	0.13	0.33	0.00	1.00
S5DADLIV	7386	0.09	0.29	0.00	1.00

Categorical Variable Codes

Value	R1MOMLIV	R2MOMLIV	R3MOMLIV	R4MOMLIV	R5MOMLIV
.d:DK	103	89	47	33	36
.m:Missing	34	23		36	17
.r:Refuse	4	4	11	5	11

How Constructed

.v:SP NR

0.No

1.Yes

RwMOMLIV and RwDADLIV indicate whether the respondent's mother or father is alive at the current wave. These variables are taken from the Section F, Parents and Help to Parents. A code of 0 indicates that the respondent's mother or father is not alive and a code of 1 indicates that the respondent's mother or father is alive. When respondents don't know or refuse to answer, RwMOMLIV and RwDADLIV are assigned special missing values .d or .r respectively. The variables are also assigned special missing value .m for the cases that failed to complete Section F (Parents and Help to Parents). RwMOMLIV and RwDADLIV are set to plain missing (.) for respondents who did not respond to the current wave.

SwMOMLIV and SwDADLIV indicate whether the current wave's spouse's father is alive at the current wave. It is taken from the spouse's RwMOMLIV and RwDADLIV, respectively. In addition to the special missing codes used in RwMOMLIV and RwDADLIV, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

Information about parental mortality is reported in the Section F, Parents and Help to Parents. In Waves 1 and 2, the respondents are asked whether their mother/father is alive. However in Wave 3, follow-up respondents are asked "In the last interview, you said your mother/father (was alive/had passed away). Is this correct?". Respondents can indicate whether they were alive or had passed away. If they indicate the mother/father was alive they are asked a follow-up question to establish if they are alive in the current wave. For new interviews the question remains the same as in the first two waves. Starting in Wave 4, follow-up and new respondents were asked the same questions.

Differences with the RAND HRS/Harmonized HRS

No differences known.

wave 1:			
F10	father	alive	
F3	mother	alive	
Wave 2:			
F12	father	presently	alive
F3	mother	presently	alive

Wave 3:	
F10A_12	Last interview: Was respondent's father living
F12_12	Currently:Is respondent's father living
F1A_12	Last interview: Was respondent's mother living
F3_12	Currently: Is respondent's mother living
Wave 4:	
F12_15	Is respondent's father alive
F3_15	Is respondent's mother alive
Wave 5:	
F12_18	Is R's father alive
F3_18	Is R's mother alive

Parents' Current Age or Age at Death

Wave	Variable	Label							Type
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
5	R5MOMAGE	r5momage:	w5 R	Mother's	age	-	current/at	death	Cont
1	S1MOMAGE	_			_		current/at		Cont
2	S2MOMAGE						current/at		Cont
3	S3MOMAGE						current/at		Cont
4	S4MOMAGE	_			_		current/at		Cont
5	S5MOMAGE	s5momage:	w5 S	Mother's	age	-	current/at	death	Cont
1	R1DADAGE	r1dadage:	w1 R	Father's	age	-	current/at	death	Cont
2	R2DADAGE	_			_		current/at		Cont
3	R3DADAGE	_			_		current/at		Cont
4	R4DADAGE	r4dadage:	w4 R	Father's	age	-	current/at	death	Cont
5	R5DADAGE	r5dadage:	w5 R	Father's	age	-	current/at	death	Cont
1	S1DADAGE	s1dadage:	w1 S	Father's	age	-	current/at	death	Cont
2	S2DADAGE	_			_		current/at		Cont
3	S3DADAGE						current/at		Cont
4	S4DADAGE	s4dadage:	w4 S	Father's	age	-	current/at	death	Cont
5	S5DADAGE	s5dadage:	w5 S	Father's	age	-	current/at	death	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MOMAGE	13431	70.85	16.24	15.00	128.00
R2MOMAGE	11906	71.82	16.45	15.00	131.00
R3MOMAGE	14296	73.20	15.95	15.00	128.00
R4MOMAGE	13479	74.69	16.25	15.00	130.00
R5MOMAGE	15534	74.42	15.37	15.00	130.00
S1MOMAGE	9546	70.63	15.61	16.00	128.00
S2MOMAGE	8426	71.68	15.92	15.00	128.00
S3MOMAGE	9703	72.97	15.58	15.00	128.00
S4MOMAGE	8927	74.53	15.86	15.00	130.00
S5MOMAGE	6734	75.07	15.91	15.00	128.00
R1DADAGE	12629	70.59	16.34	16.00	130.00
R2DADAGE	11181	71.48	16.36	15.00	131.00
R3DADAGE	13537	72.48	15.96	15.00	130.00
R4DADAGE	12721	73.63	16.53	15.00	130.00
R5DADAGE	14680	73.83	15.79	17.00	130.00
S1DADAGE	9091	70.83	15.98	18.00	130.00
S2DADAGE	8082	71.67	16.02	16.00	130.00
S3DADAGE	9289	72.70	15.64	18.00	120.00
S4DADAGE	8504	73.79	16.10	15.00	115.00
S5DADAGE	6429	74.63	15.98	19.00	116.00

How Constructed

RwMOMAGE and RwDADAGE are the respondent's mother's or father's current age in years if the mother or father is still alive or the respondent's mother's or father's age at death. When respondents don't know or refuse to answer, RwMOMAGE and RwDADAGE are assigned special missing values .d or .r respectively. The variables are also assigned special missing value .m for the cases that failed to complete Section F

(Parents and Help to Parents). RwMOMAGE and RwDADAGE are set to plain missing (.) for respondents who did not respond to the current wave.

SwMOMAGE and SwDADAGE are the spouse's mother's or father's current age or age at death. It is taken from the spouse's values to RwMOMAGE and RwDADAGE. In addition to the special missing codes used in RwMOMAGE and RwDADAGE, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

```
Wave 1:
                    age father
    F11
    F14
                    age father when died
    F4
                    age mother
    F7
                    age mother when died
Wave 2:
   F13
                    age of father
    F17
                    age of father when he passed away
    F4
                    age of mother
    F8
                    age of mother when she passed away
Wave 3:
   F13 12
                    Currently: Age of respondent's father
    F17 12
                    At death: How old was respondent's father
    F4 12
                    Currently: Age of respondent's mother
    F8 12
                    At death: How old was respondent's mother
Wave 4:
    F12 15
                    Is respondent's father alive
    F13 15
                    Respondent's father age
    F17_15
                    How old was respondent's father when he died
    F3 15
                    Is respondent's mother alive
    F4_15
                    Respondent's mother age
    F8 15
                    How old was respondent's mother when she died
Wave 5:
    F12 18
                    Is R's father alive
    F13 18
                    R's father age
    F17<sup>-</sup>18
                    How old was R's father when he died
    F3_18
                    Is R's mother alive
    F4 18
                    R's mother age
    F8 18
                    How old was R's mother when she died
```

Parents' Education

Wave	Variable	Label	Type
1	RAMEDUC_M	rameduc_m: R Mother's Education	Categ
1	S1MEDUC M	s1meduc m: w1 S Mother's Education	Categ
2	S2MEDUC M	s2meduc m: w2 S Mother's Education	Categ
3	S3MEDUC M	s3meduc m: w3 S Mother's Education	Categ
4	S4MEDUC_M	s4meduc_m: w4 S Mother's Education	Categ
5	S5MEDUC_M	s5meduc_m: w5 S Mother's Education	Categ
1	RAFEDUC_M	rafeduc_m: R Father's Education	Categ
1	S1FEDUC M	slfeduc m: wl S Father's Education	Categ
2	S2FEDUC M	s2feduc m: w2 S Father's Education	Categ
3	S3FEDUC_M	s3feduc_m: w3 S Father's Education	Categ
4	S4FEDUC_M	s4feduc_m: w4 S Father's Education	Categ
5	S5FEDUC_M	s5feduc_m: w5 S Father's Education	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAMEDUC_M	22882	1.73	0.88	1.00	4.00
S1MEDUC_M S2MEDUC_M S3MEDUC_M	9177 8527 9124	1.62 1.61 1.69	0.81 0.80 0.83	1.00 1.00 1.00	4.00 4.00 4.00
S4MEDUC_M S5MEDUC_M	8375 6402	1.71 1.69	0.84	1.00	4.00
RAFEDUC_M	22122	1.86	0.94	1.00	4.00
S1FEDUC_M S2FEDUC M	9019 8372	1.74 1.72	0.89 0.87	1.00	4.00 4.00
S3FEDUC_M S4FEDUC_M	8876 8146	1.82 1.83	0.90 0.91	1.00	4.00 4.00
S5FEDUC M	6226	1.79	0.89	1.00	4.00

Categorical Variable Codes

Value	RAMEDUC M				
.d:DK	2154				
.m:Missing	1111				
.p:Proxy interview, not asked	625				
.r:Refuse	67				
1.None	11335				
2.Some primary	7592				
3.Primary	2643				
4.More than primary	1312				
Value	S1MEDUC M	S2MEDUC M	S3MEDUC M	S4MEDUC M	S5MEDUC M
.d:DK	7 8 5	7 2 6	824	8 2 5	6 <u>2</u> 6
.m:Missing	672	601	328	330	211
.p:Proxy interview, not asked		54	284	258	197
.r:Refuse	14	14	32	33	25
.u:Unmar	4205	3755	4782	4846	5227
.v:SP NR	333	27	349	112	501
1.None	5053	4728	4570	4139	3231
2.Some primary	2886	2707	3196	2959	2242
3.Primary	872	774	936	877	638
4.More than primary	366	318	422	400	291

Value	RAFEDUC_M				
.d:DK	2900				
.m:Missing	1111				
.p:Proxy interview, not asked	625				
.r:Refuse	81				
1.None	9658				
2.Some primary	7874				
3.Primary	2657				
4.More than primary	1933				
Value	S1FEDUC M	S2FEDUC M	S3FEDUC M	S4FEDUC M	S5FEDUC M
.d:DK	9 3 9	8 7 7	$10\overline{7}3$	10 5 6	8 <u>0</u> 2
.m:Missing	672	601	328	330	211
.p:Proxy interview, not asked		54	284	258	197
.r:Refuse	18	18	31	31	25
.u:Unmar	4205	3755	4782	4846	5227
.v:SP NR	333	27	349	112	501
1.None	4443	4178	3944	3561	2800
2.Some primary	3082	2886	3253	3026	2323
3.Primary	880	798	1033	961	683
4.More than primary	614	510	646	598	420

How Constructed

RAMEDUC_M and RAFEDUC_M are the parent's education variables. They are assigned by looking at reports from the Parents and Help to Parents section (Section F). These variables are constructed by looking at all waves of data for the first non-missing values. A code of 1 indicates no education; a code of 2 indicates 'some primary'; a code of 3 indicates 'primary'; and a code of 4 indicates 'more than primary'. When respondents don't know, refuse, or their answer is missing for another reason, RAMEDUC_M and RAFEDUC_M are assigned special missing values .d, .r, or .m. respectively. They are also set to special missing (.p) if the parents' education question was skipped because the interview was by proxy. RAMEDUC_M and RAFEDUC M are set to plain missing (.) for respondents who did not respond to the current wave.

SwMEDUC_M and SwFEDUC_M indicate the current wave's spouse's parent's education level. It is taken from the spouse's variables RAMEDUC_M and RAFEDUC_M. If the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the parent's education question in the MHAS does not ask for the number years of education, but for the education level. The MHAS variable is categorical and includes 4 categories to indicate whether the respondent's parents completed 'some primary', 'primary', 'more than primary', or did not complete any formal education.

```
Wave 1:
   F1
                    mother's education
    F8
                    father's education
Wave 2:
                    mother"s education
    F1
    F10
                    father"s education
Wave 3:
   F10B 12
                    Respondent's father education level
    F1B 12
                    Respondent's mother education level
Wave 4:
    F10 15
                    Respondent's father education level
    F1 15
                    Respondent's mother education level
Wave 5:
    F10 18
                    R's father education level
```

F1_18

R's mother education level

Any Child Co-Resides with Respondent

Wave	Variable	Label						Type
1	H1CORESD	h1coresd: w1	Any	child	co-resides	with	R/P	Categ
2	H2CORESD	h2coresd: w2	2 Any	child	co-resides	with	R/P	Categ
3	H3CORESD	h3coresd: w3	3 Any	child	co-resides	with	R/P	Categ
4	H4CORESD	h4coresd: w4	Any	child	co-resides	with	R/P	Categ
5	H5CORESD	h5coresd: w5	Anv	child	co-resides	wit.h	R/P	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CORESD	14847	0.75	0.43	0.00	1.00
H2CORESD	13408	0.78	0.41	0.00	1.00
H3CORESD	15073	0.79	0.41	0.00	1.00
H4CORESD	14369	0.73	0.44	0.00	1.00
H5CORESD	16306	0.72	0.45	0.00	1.00

Categorical Variable Codes

Value	H1CORESD	H2CORESD	H3CORESD	H4CORESD	H5CORESD
.k:no kids	740	573	650	550	808
0.No	3686	2954	3135	3873	4608
1.Yes	11161	10454	11938	10496	11698

How Constructed

HwcoresD indicates if the respondent and the spouse co-reside with children. When at least one child (natural, step, adopted, or foster) is listed in the MHAS Household Roster (TRH), a code of 1 is assigned to indicate child co-residence. If no children are included in the MHAS Household Roster, a code of 0 is assigned to indicate no child co-residence. Special missing code .k is assigned if the respondent and spouse (if any) reports not having any living children. HwcoresD is set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each variable accounts for both the follow-up and the new sample.

Differences with the RAND HRS/Harmonized HRS

Whether any child co-resides is included in the RAND HRS Family Data.

```
Wave 1:
                    registration number of household member
   TRH2
    TRH6
                    relationship of household member to selected person
                    relationship of household member to spouse of sel. pers
   TRH7
Wave 2:
   TRH10
                    relationship with spouse
    TRH3
                    registration number
   TRH9
                    relationship
Wave 3:
   NTRH3 12
                    Resident's registration number
   NTRH6 12
                    Resident's relationship to respondent
   NTRH7 12
                    Resident's relationship with respondent's spouse
    TRH10 12
                    Resident's relationship to respondent's spouse
```

TRH3_12 TRH9 12	Household Resident registration number Resident's relationship to respondent
Wave 4:	Resident's lefationship to respondent
NTRH3 15	Resident's registration number
NTRH6 15	Resident's relationship to respondent
NTRH7 15	Resident's relationship with respondent's spouse
TRH10 15	Resident's relationship to respondent's spouse
TRH3 15	Household resident registration number
TRH9 15	Resident's relationship to respondent
Wave 5:	
NTRH3 18	Household resident registration number
NTRH6 18	Resident's relationship to respondent
NTRH7 ⁻ 18	Resident's relationship to respondent's spouse
TRH10 18	Resident's relationship to respondent's spouse
TRH3 18	Household resident registration number
TRH9_18	Resident's relationship to respondent

Any Children Living in the Same City

Wave	Variable	Label									Type
1	H1LVNEAR	h1lvnear:	w1	Any	child	lives	in	the	same	city	Categ
2	H2LVNEAR	h2lvnear:	w2	Any	child	lives	in	the	same	city	Categ
3	H3LVNEAR	h31vnear:	wЗ	Any	child	lives	in	the	same	city	Categ
4	H4LVNEAR	h4lvnear:	w4	Any	child	lives	in	the	same	city	Categ
5	H5LVNEAR	h5lvnear:	w5	Anv	child	lives	in	the	same	city	Cated

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1LVNEAR	14947	0.97	0.18	0.00	1.00
H2LVNEAR	13488	0.97	0.17	0.00	1.00
H3LVNEAR	15073	0.97	0.17	0.00	1.00
H4LVNEAR	14397	0.96	0.19	0.00	1.00
H5LVNEAR	16306	0.95	0.21	0 - 00	1.00

Categorical Variable Codes

Value		H1LVNEAR	H2LVNEAR	H3LVNEAR	H4LVNEAR	H5LVNEAR
.k:no kids		739	573	650	550	808
0.No		485	415	470	548	776
1.Yes	I	14462	13073	14603	13849	15530

How Constructed

HwLVNEAR indicates if the respondent and the spouse (if any) live in the same city with at least one of their children. If the respondent and the spouse (if any) co-reside with at least one child (natural, step, adopted, or foster), that is if HwCORESD has a value of 1, a code of 1 is assigned to indicate that the respondent and the spouse live near their children. Also, if the respondent and the spouse list non-resident children in the Non-Resident Children Module (Section B), the MHAS asks "Where does (NAME) live?". A code of 1 was assigned to HwLVNEAR if the respondent and the spouse (if any) indicate that at least one child lives in the same house or building, same locality or neighborhood, or different locality or neighborhood but in the same city. A code of 0 indicates none of the children reported in the Non-Resident Children Module live in the same house or building, same locality or neighborhood, or different locality or neighborhood but in the same city. Special missing code .k is assigned if the respondent and spouse (if any) reports not having any living children. HwLVNEAR is set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each variable accounts for both the follow-up and the new sample.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS Family Data includes RwLVNEAR which is a categorical variable indicating how closely the child lives to the respondent's home, whether co-resides, lives within 10 miles, or lives more than 10 miles away. Different from the RAND HRS variable, HwLVNEAR in the Harmonized MHAS indicates whether any child lives within the same city as the respondent and/or spouse.

Wave 1:	
B18	where does nonresident child liv
Wave 2:	
B17	where person lives

Wave 3:	
B17 12	Where does non-resident child 12 years or older live
NB18 12	Where non-resident child lives
Wave 4:	
B17 15	Non-resident Child 12 years+: Where does he/she live
NB18 15	Non-resident Child 12 years+: Where does he/she live
Wave 5:	
B17 18	Non-resident Child 12 years+: Where does he/she live
NB18 18	Non-resident Child 12 years+: Where does he/she live
-	

Any Weekly Contact with Children

Wave	Variable	Label									Type
1	H1KCNT	h1kcnt:	w1	Any	weekly	contact	w/	children	in	person/phone/em	Categ
2	H2KCNT	h2kcnt:	w2	Any	weekly	contact	w/	children	in	person/phone/em	Categ
3	H3KCNT	h3kcnt:	wЗ	Any	weekly	contact	w/	children	in	person/phone/em	Categ
4	H4KCNT	h4kcnt:	w4	Any	weekly	contact	w/	children	in	person/phone/em	Categ
5	H5KCNT	h5kcnt:	w5	Anv	weeklv	contact.	w/	children	in	person/phone/em	Cated

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1KCNT	14947	0.96	0.19	0.00	1.00
H2KCNT	13485	0.97	0.17	0.00	1.00
H3KCNT	15073	0.98	0.15	0.00	1.00
H4KCNT	14403	0.98	0.15	0.00	1.00
H5KCNT	16306	0.98	0.15	0.00	1.00

Categorical Variable Codes

Value		H1KCNT	H2KCNT	H3KCNT	H4KCNT	H5KCNT
.k:no kids		739	573	650	550	808
0.No		565	420	365	317	382
1.Yes	1	14382	13065	14708	14086	15924

How Constructed

HwKCNT indicates whether the respondent and the spouse (if any) have weekly contact with any of their children on a regular basis. If the respondent and the spouse (if any) co-reside with at least one child (natural, step, adopted, or foster), that is if HwCORESD has a value of 1, a code 1 is assigned to indicate contact with children. Also, if the respondent and the spouse (if any) list non-resident children in the Non-Resident children module (Section B), the MHAS asks "How often did you (or your spouse) have contact with (NAME) either in person, by mail, or by telephone?" for each listed child. A code of 1 is assigned to HwKCNT if they report weekly contact, that is one or more times per week, 4 or more times per month, or 52 times or more per year. A code of 0 indicates that the respondent has less than weekly contact with all of the children reported in the Non-Resident Children Module. Special missing code .k is assigned if the respondent and spouse (if any) report not having any living children. HwKCNT is set to plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

Starting in Wave 3, the MHAS has separate modules for follow-up and new sample interviews. Thus, each variable accounts for both the follow-up and the new sample.

Differences with the RAND HRS/Harmonized HRS

The RAND HRS Family Data includes KwCONTYR, which records the frequency of contact with children per year. The Harmonized HRS includes HwKCNT, which indicates any weekly contact with children in person or electronically, and RwKCNTF, which indicates any weekly contact in person with their children. HwKCNT in the Harmonized MHAS indicates whether the respondent has weekly contact with their children.

B10_2	contact - per period
Wave 3:	
B10_1_12	Frequent contact with non-resident child 12 years or ol
B10 2 12	Frequent contact with non-resident child 12 years or ol
NB10 1 12	Last two years, how often contact non-resident child -
NB10 2 12	Last two years, how often contact non-resident child -
Wave 4:	
B10 1 15	Non-resident Child 12 years+: Frequency of contact - Ti
B10 2 15	Non-resident Child 12 years+: Frequency of contact - Pe
NB10 1 15	Non-resident Child 12 years+: Frequency of contact - Ti
NB10 2 15	Non-resident Child 12 years+: Frequency of contact - Pe
Wave 5:	
B10 1 18	Non-resident Child 12 years+: Frequency of contact - Ti
B10 2 18	Non-resident Child 12 years+: Frequency of contact - Pe
$NB1\overline{0} \ \overline{1} \ 18$	Non-resident Child 12 years+: Frequency of contact - Ti
NB10_2_18	Non-resident Child 12 years+: Frequency of contact - Pe

Frequent or Weekly Contact with Relatives and Friends

Wave	Variable	Label	Туре
4	R3RFCNT R4RFCNT R5RFCNT	r3rfcnt: w3 R Any weekly contact w/friends and relatives r4rfcnt: w4 R Any weekly contact w/friends and relatives r5rfcnt: w5 R Any weekly contact w/friends and relatives	Categ Categ Categ
3 4 5	S3RFCNT S4RFCNT S5RFCNT	s3rfcnt: w3 S Any weekly contact w/friends and relatives s4rfcnt: w4 S Any weekly contact w/friends and relatives s5rfcnt: w5 S Any weekly contact w/friends and relatives	Categ Categ Categ
3	R3RFCNTX M	r3rfcntx m: w3 R Freq contact w/friends and relatives	Categ
4	R4RFCNTX M	r4rfcntx m: w4 R Freq contact w/friends and relatives	Categ
5	R5RFCNTX_M	r5rfcntx_m: w5 R Freq contact w/friends and relatives	Categ
3	S3RFCNTX M	s3rfcntx m: w3 S Freq contact w/friends and relatives	Categ
4	S4RFCNTX M	s4rfcntx m: w4 S Freq contact w/friends and relatives	Categ
5	S5RFCNTX_M	s5rfcntx_m: w5 S Freq contact w/friends and relatives	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3RFCNT	14417	0.56	0.50	0.00	1.00
R4RFCNT	13800	0.68	0.47	0.00	1.00
R5RFCNT	15767	0.72	0.45	0.00	1.00
S3RFCNT	9845	0.56	0.50	0.00	1.00
S4RFCNT	9161	0.69	0.46	0.00	1.00
S5RFCNT	6895	0.71	0.45	0.00	1.00
R3RFCNTX M	14417	4.98	3.27	1.00	9.00
R4RFCNTX M	13800	4.10	3.09	1.00	9.00
R5RFCNTX_M	15767	3.76	3.07	1.00	9.00
S3RFCNTX M	9845	4.95	3.25	1.00	9.00
S4RFCNTX M	9161	4.03	3.04	1.00	9.00
S5RFCNTX_M	6895	3.88	3.07	1.00	9.00

Categorical Variable Codes

Value	R3RFCNT	R4RFCNT	R5RFCNT
.d:DK	4	9	3
.i:Invalid	22	16	10
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	5	2	6
0.No	6378	4407	4342
1.Yes	8039	9393	11425
Value	S3RFCNT	S4RFCNT	S5RFCNT
.d:DK	4	5	1
.i:Invalid	15	9	3
.m:Missing		5	
.p:Proxy interview, not asked	726	470	560
.r:Refuse	2	2	2
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
0.No	4312	2842	1985
1.Yes	5533	6319	4910
Value	R3RFCNTX_M	R4RFCNTX_M	R5RFCNTX_M
.d:DK	4	9	3

Section G: Family Structure			444
•			
.i:Invalid	22	16	10
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	1 5	2	6
1.Almost every day	3506	4490	6125
2.4 or more times a week	768	868	1001
3.2 or 3 times a week	2157	2333	2471
4.Once a week	1409	1526	1646
5.4 or more times a month	199	176	182
6.2 or 3 times a month	[629	614	564
7.Once a month	578	758	565
8.Almost Never, sporadic	1 676		
9.Never	4495	3035	3213
Value	S3RFCNTX M	S4RFCNTX M	S5RFCNTX M
.d:DK	4	_5	_1
.i:Invalid	15	9	3
.m:Missing		5	
.p:Proxy interview, not asked	726	470	560
.r:Refuse	2	2	2
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Almost every day	2408	2980	2473
2.4 or more times a week	510	575	458
3.2 or 3 times a week	1488	1612	1166
4.Once a week	982	1029	731
5.4 or more times a month	145	123	82
6.2 or 3 times a month	446	427	277
7.Once a month	413	516	260

How Constructed

8.Almost Never, sporadic

9.Never

RWRFCNTX M indicates the frequency of contacting with relatives and friends: 1.almost every day, 2.four or more times per week, 3.two or three times a week, 4.once a week, 5.four or more times a month, 6.two or three times a month, 7.once a month, 8.almost never/sporadic, or 9.never.

474

2979

1899

1448

RWRFCNT indicates whether the respondent has weekly contact with relatives and friends. A code of 1 indicates the respondent has contact with relatives and friends at least once a week, that is RwRFCNTX M is either almost every day, once a week, two or three times a week, four or more times a week, or four or more times per month. Otherwise, RwRFCNT is assigned a code of 0 indicating no weekly contact.

RWRFCNTX M and RWRFCNT are assigned special missing values .d or .r if respondents don't know or refuse to answer, respectively. The variables are also assigned special missing value .p, for proxy interviews. The variables are assigned special missing value .m for the cases that failed to complete Section D. In addition, RwRFCNTX M is assigned special misssing value .i to indicate inconsistent frequency, if the respondent reports contact with relatives and friends more than 21 times per week or more than 81 times per month (that is more than 3 times per day). $RwRFCNTX_M$ and RwRFCNT are set to plain missing (.) for respondents who did not respond to the current wave.

SWRFCNTX M and SWRFCNT are the respective contact with relatives and friends variables for the respondent's spouse or partner. SwRFCNTX M and SwRFCNT are taken from the Wave 'w' spouse's value for RWRFCNTX M and RWRFCNT. In addition to the special missing codes used in RWRFCNTX M and RWRFCNT, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The contact with friends and relatives information was derived from the 'Use of Time' battery included in Section D (Control and Health Services). This battery was included starting in Wave 3. In Wave 3, there is a code to indicate that the respondent had contact with friends and relatives sporadically in the past year. Starting in Wave 4, this code is no longer present.

Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwRFCNT, which indicates whether the respondent had any weekly contact with relatives or friends in person or electronically, which is comparable to RwRFCNT in the Harmonized MHAS. The Harmonized MHAS also includes RwRFCNTF and RwRFCNTPM, which indicate whether the respondent had weekly contact with relatives and friends in person or electronically, respectively. While the Harmonized MHAS includes RwRFCNTX_M indicating the frequency of contact with friends and relatives.

Wave 3:	
D34I1 12	Does respondent communicate with relatives/friends via
D34I2 12	Number of times respondent communicates with his/her re
D34I3_12	Respondent's time period to report communicating with h
Wave 4:	
D34I1_15	Does respondent talk to relatives or friends via phone,
D34I2_15	Number of times respondent has talked with relatives or
D34I3_15	Respondent's time period talking with relatives or frie
Wave 5:	
D34I1_18	Does R talk to relatives or friends via phone, computer
D34I2_18	Number of times R has talked with relatives or friends
D34I3_18	R's time period talking with relatives or friends

Any Weekly Social Activities or Participate in Religious Groups

Wave	Variable	Label	Type
4	R3SOCWK R4SOCWK R5SOCWK	r3socwk: w3 R Any weekly social activities r4socwk: w4 R Any weekly social activities r5socwk: w5 R Any weekly social activities	Categ Categ Categ
	S3SOCWK S4SOCWK S5SOCWK	s3socwk: w3 S Any weekly social activities s4socwk: w4 S Any weekly social activities s5socwk: w5 S Any weekly social activities	Categ Categ Categ
4	R3SOCACT_M R4SOCACT_M R5SOCACT_M	r3socact_m: w3 R Freq social activities r4socact_m: w4 R Freq social activities r5socact_m: w5 R Freq social activities	Categ Categ Categ
3 4 5	S3SOCACT_M S4SOCACT_M S5SOCACT_M	s3socact_m: w3 S Freq social activities s4socact_m: w4 S Freq social activities s5socact_m: w5 S Freq social activities	Categ Categ Categ
4	R3RELGWK R4RELGWK R5RELGWK	r3relgwk: w3 R Any weekly participation in religious service r4relgwk: w4 R Any weekly participation in religious service r5relgwk: w5 R Any weekly participation in religious service	Categ Categ Categ
	S3RELGWK S4RELGWK S5RELGWK	s3relgwk: w3 S Any weekly participation in religious service s4relgwk: w4 S Any weekly participation in religious service s5relgwk: w5 S Any weekly participation in religious service	Categ Categ Categ
2 3 4	R1RELGIMP R2RELGIMP R3RELGIMP R4RELGIMP R5RELGIMP	r1relgimp:w1 R importance of religion r2relgimp:w2 R importance of religion r3relgimp:w3 R importance of religion r4relgimp:w4 R importance of religion r5relgimp:w5 R importance of religion	Categ Categ Categ Categ Categ
2	S1RELGIMP S2RELGIMP S3RELGIMP S4RELGIMP S5RELGIMP	s1relgimp:w1 S importance of religion s2relgimp:w2 S importance of religion s3relgimp:w3 S importance of religion s4relgimp:w4 S importance of religion s5relgimp:w5 S importance of religion	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3SOCWK	14446	0.42	0.49	0.00	1.00
R4SOCWK	13826	0.45	0.50	0.00	1.00
R5SOCWK	15781	0.45	0.50	0.00	1.00
S3SOCWK	9864	0.43	0.50	0.00	1.00
S4SOCWK	9176	0.47	0.50	0.00	1.00
S5SOCWK	6900	0.43	0.50	0.00	1.00
R3SOCACT M	14446	5.89	3.49	1.00	9.00
R4SOCACT M	13826	5.69	3.47	1.00	9.00
R5SOCACT_M	15781	5.72	3.49	1.00	9.00
S3SOCACT M	9864	5.77	3.51	1.00	9.00
S4SOCACT M	9176	5.53	3.46	1.00	9.00
S5SOCACT_M	6900	5.81	3.49	1.00	9.00
R3RELGWK	14444	0.36	0.48	0.00	1.00
R4RELGWK	13845	0.39	0.49	0.00	1.00

R5RELGWK	15772	0.32	0.47	0.00	1.00	
S3RELGWK	9863	0.36	0.48	0.00	1.00	
S4RELGWK	9179	0.38	0.49	0.00	1.00	
S5RELGWK	6898	0.35	0.48	0.00	1.00	
R1RELGIMP	14098	1.34	0.54	1.00	3.00	
R2RELGIMP	12343	1.27	0.50	1.00	3.00	
R3RELGIMP	14423	1.33	0.54	1.00	3.00	
R4RELGIMP	13835	1.34	0.54	1.00	3.00	
R5RELGIMP	15763	1.36	0.56	1.00	3.00	
S1RELGIMP	9949	1.35	0.55	1.00	3.00	
S2RELGIMP	8576	1.28	0.51	1.00	3.00	
S3RELGIMP	9852	1.34	0.55	1.00	3.00	
S4RELGIMP	9177	1.35	0.55	1.00	3.00	
S5RELGIMP	6895	1.33	0.54	1.00	3.00	

Categorical Variable Codes

Value	R3SOCWK	R4SOCWK	R5SOCWK
.d:DK	2	1	1
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse			4
0.No	8425	7647	8740
1.Yes	6021	6179	7041
Value	S3SOCWK	S4SOCWK	S5SOCWK
.d:DK	2	1	
.m:Missing		5	
.p:Proxy interview, not asked	726	470	560
.r:Refuse			1
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
0.No	5609	4874	3915
1.Yes	4255	4302	2985
Value	R3SOCACT M	R4SOCACT M	R5SOCACT M
.d:DK	2	_1	_1
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse			4
1.Almost every day	3496	3270	3788
2.4 or more times a week	663	799	877
3.2 or 3 times a week	961	1119	1181
4.Once a week	697	762	984
5.4 or more times a month	204	229	211
6.2 or 3 times a month	247	352	318
7.Once a month	420	726	725
8.Almost Never, sporadic	691	65.60	7.607
9.Never	7067	6569	7697
Value	S3SOCACT_M	S4SOCACT_M	S5SOCACT_M
.d:DK	2	1	
.m:Missing		5	
.p:Proxy interview, not asked	726	470	560
.r:Refuse	4500		1
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Almost every day	2499	2241	1629
2.4 or more times a week	452	566	390
3.2 or 3 times a week	684	786 550	471
4. Once a week	482 138		405
5.4 or more times a month 6.2 or 3 times a month	138	159 256	90 136
7. Once a month	298	523	312
	298 1	323	312
8.Almost Never, sporadic 9.Never	4648	4095	3467
J.MC.AGT	4040	4033	240/

Value			R3RELGWK	R4RELGWK	R5RELGWK
.d:DK				1	7
.p:Proxy interview, not asked			1275	929	1328
.r:Refuse			4	4	7
0.No			9191	8477	10711
1.Yes			5253	5368	5061
Value			S3RELGWK	S4RELGWK	S5RELGWK
.d:DK				1	1
.p:Proxy interview, not asked			726	470	560
.r:Refuse			3	2	2
.u:Unmar			4782	4847	5227
.v:SP NR			349	280	501
0.No			6326	5655	4499
1.Yes			3537	3524	2399
Value	R1RELGIMP	R2RELGIMP	R3RELGIMP	R4RELGIMP	R5RELGIMP
.d:DK	27	13	8	4	15
.m:Missing		163			
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	29	7	17	11	8
1.very important	9853	9404	10222	9673	10722
2.somewhat important	3748	2590	3672	3679	4377
3.not important	497	349	529	483	664
Value	S1RELGIMP	S2RELGIMP	S3RELGIMP	S4RELGIMP	S5RELGIMP
.d:DK	17	10	5	2	4
.m:Missing		151			
.p:Proxy interview, not asked	660	821	726	470	560
r:Refuse	22	6	9	3	2
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
1.very important	6777	6446	6882	6311	4871
2.somewhat important	2819	1869	2600	2534	1767
3.not important	353	261	370	332	257
J. HOC IMPOLCANC	555	201	510	JJ2	231

How Constructed

RwSOCACT_M indicates the frequency of participating in social activities including the following: 'Caring for a sick or disabled adult', 'Caring for children under 12 years old', 'Work(ing) as a volunteer or help with a non-profit organization without pay or compensation', 'Attend(ing) a lecture, seminar or class', and 'Attend(ing) a sport or social club". The frequency is coded as: 1.almost every day, 2.four or more times per week, 3.two or three times a week, 4.once a week, 5.four or more times a month, 6.two or three times a month, 7.once a month, 8.almost never/sporadic, or 9.never.

RwSOCWK indicates whether the respondent participates weekly in these social activities. A code of 1 indicates the respondent participates in any of these activities at least once a week, that is RwSOCACT_M is either almost every day, once a week, two or three times a week, four or more times a week, or four or more times per month. Otherwise, RwSOCWK is assigned a code of 0 indicating no weekly contact.

RWRELGWK indicates whether the respondent participates weekly in 'activities organized by the church'. A code of 1 indicates the respondent participates one or more times per week, while a code of 0 indicates the respondent participates less than weekly.

RwSOCACT_M, RwSOCWK, and RwRELGWK are assigned special missing values .d or .r if respondents don't know or refuse to answer, respectively. The variables are also assigned special missing value .p, for proxy interviews. The variables are assigned special missing value .m for the cases that failed to complete Section D. In addition, RwSOCACT_M is assigned special missing value .i to indicate inconsistent frequency, if the respondent reports contact with relatives and friends more than 21 times per week or more than 81 times per month (that is more than 3 times per day). RwSOCACT_M, RwSOCWK, and RwRELGWK are set to plain missing (.) for respondents who did not respond to the current wave.

SwSOCACT_M, SwSOCWK, and SwRELGWK are the respective social and religious activities variables for the respondent's spouse or partner. SwSOCACT_M, SwSOCWK, and SwRELGWK are taken from the Wave 'w' spouse's value for RwSOCACT_M, RwSOCWK, and RwRELGWK. In addition to the special missing codes used in RwSOCACT_M, RwSOCWK, and RwRELGWK, if the respondent is not designated as coupled in the current wave and assumed to

be single, a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The social activity information was derived from the 'Use of Time' battery included in Section D (Control and Health Services). This battery was included starting in Wave 3. In Wave 3, there is a code to indicate that the respondent did activities sporadically in the past year. Starting in Wave 4, this code is no longer present.

Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwSOCWK, which indicates whether the respondent participates in weekly social activities, and is comparable to RwSOCWK in the Harmonized MHAS. The Harmonized HRS also includes RwSOCMN, which indicates whether the respondent participates in monthly social activities, while the Harmonized MHAS includes RwSOCACT M indicating the frequency of participating in social activities.

The HRS includes doing activities with grandchildren or other children, while the MHAS includes caring for children under 12 years old. The HRS includes doing volunteer work with children or young people, and doing any other volunteer or charity work, while the MHAS includes only volunteer work or supporting an organization without pay or reward. The HRS includes attending an education or training course, while the MHAS includes attending a training course, lecture or class. The HRS includes going to a sport/social/other club and attending meetings of non-religious organizations, while the MHAS includes only attending a sporting or social club. Despite this slight differences, the variables contain largely comparable activities.

The Harmonized HRS includes RwRELGWK, which indicates whether the respondent participates in weekly religious services, and is comparable to RwRELGWK in the Harmonized MHAS. The Harmonized HRS also includes RwSOCRELG_H, which indicates the frequency the respondent attends religious services, and RwRELGIMP, which indicates how important religion is to the respondent.

Wave 1:	
A39	importance of religion
Wave 2:	
A36	importance of religion
Wave 3:	
A35B_12	Frequency of respondent participating in church activit
A36_12	Importance of religion
AA39_12	Importance of religion to respondent
D34A1_12	Does respondent care for a sick/disabled adult
D34A2_12	Respondent's frequency caring for a sick/disabled adult
D34A3_12	Respondent's time period caring for a sick/disabled adu
D34B1_12	Does respondent care for children under 12 years old
D34B2_12	Respondent's frequency caring for children under 12 yea
D34B3_12	Respondent's time period caring for children under 12 y
D34C1_12	Does respondent volunteer/support an organization witho
D34C2_12	Number of times respondent volunteers
D34C3_12	Respondent's time period used to report volunteering
D34D1_12	Does respondent attend a training course
D34D2_12	Number of times respondent has attended a training cour
D34D3_12	Respondent's time period to report a training course
D34E1_12	Does respondent attend a sporting/social club
D34E2_12	Number of times respondent has attended a sporting/soci
D34E3_12	Respondent's time period used to report sporting/social
Wave 4:	
A36_15	Importance of religion in respondent's life
AA39_15	Importance of religion to respondent
D34A1_15	Does respondent care for a sick or disabled adult
D34A2_15	Respondent's frequency caring for a sick or disabled ad
D34A3_15	Respondent's time period caring for a sick or disabled
D34B1_15	Does respondent care for children under 12 years old

	D34B2_15 D34B3_15 D34C1_15 D34C2_15 D34C3_15 D34D1_15 D34D2_15 D34D3_15 D34E1_15 D34E2_15 D34E3_15	Respondent's frequency caring for children under 12 yea Respondent's time period caring for children under 12 y Does respondent volunteer/help with a non- profit organ Number of times respondent volunteers/helps Respondent's time period volunteering/helping Does respondent assist a lecture, seminar or class Number of times respondent has assisted a lecture, semi Respondent's time period assisting a lecture, seminar o Does respondent assisting a sport or social club Number of times respondent has assisted a sport or social cl Respondent's time period assisting a sport or social cl
Wav	e 5:	
	A36_18	Importance of religion in R's life
	AA39_18	Importance of religion to R
	D34A1_18	Does R care for a sick or disabled adult
	D34A2_18	R's frequency caring for a sick or disabled adult
	D34A3_18	R's time period caring for a sick or disabled adult
	D34B1_18	Does R care for children under 12 years old
	D34B2_18	R's frequency caring for children under 12 years old
	D34B3_18	R's time period caring for children under 12 years old
	D34C1_18	Does R volunteer/help with a non-profit organization wi
	D34C2_18	Number of times R volunteers/helps
	D34C3_18	R's time period volunteering/helping
	D34D1_18	Does R assist a lecture, seminar or class
	D34D2_18	Number of times R has assisted a lecture, seminar or cl
	D34D3_18	R's time period assisting a lecture, seminar or class
	D34E1_18	Does R assisting a sport or social club
	D34E2_18	Number of times R has assisted a sport or social club
	D34E3_18	R's time period assisting a sport or social club

Financial Transfer from Children

Wave	Variable	Label	Туре
1	H1FCANY	hlfcany: w1 Any transfer from children	Categ
2	H2FCANY	h2fcany: w2 Any transfer from children	Categ
3	H3FCANY	h3fcany: w3 Any transfer from children	Categ
4	H4FCANY	h4fcany: w4 Any transfer from children	Categ
5	H5FCANY	h5fcany: w5 Any transfer from children	Categ
1	H1FCAMT	hlfcamt: wl Financial transfer from children	Cont
2	H2FCAMT	h2fcamt: w2 Financial transfer from children	Cont
3	H3FCAMT	h3fcamt: w3 Financial transfer from children	Cont
4	H4FCAMT	h4fcamt: w4 Financial transfer from children	Cont
1	H1FCFLAG	hlfcflag: wl Financial transfer from children - Flag	Categ
2	H2FCFLAG	h2fcflag: w2 Financial transfer from children - Flag	Categ
3	H3FCFLAG	h3fcflag: w3 Financial transfer from children - Flag	Categ
4	H4FCFLAG	h4fcflag: w4 Financial transfer from children - Flag	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FCANY	15513	0.33	0.47	0.00	1.00
H2FCANY	14028	0.43	0.49	0.00	1.00
H3FCANY	15668	0.33	0.47	0.00	1.00
H4FCANY	14883	0.39	0.49	0.00	1.00
H5FCANY	17048	0.32	0.47	0.00	1.00
H1FCAMT	15513	23481.06	158530.73	0.00	8542800.00
H2FCAMT	14028	33280.46	282892.18	0.00	26699024.00
H3FCAMT	15314	7102.34	27010.39	0.00	1704000.00
H4FCAMT	14593	9135.04	26314.98	0.00	1396321.88
H1FCFLAG	14931	0.05	0.22	0.00	1.00
H2FCFLAG	13450	0.06	0.24	0.00	1.00
H3FCFLAG	14570	0.04	0.19	0.00	1.00
H4FCFLAG	13964	0.02	0.14	0.00	1.00

Categorical Variable Codes

Value	H1FCANY	H2FCANY	H3FCANY	H4FCANY	H5FCANY
.d:DK	125	6	18	9	37
.m:Missing	11165	12800	11116	34	20
.r:Refuse	36	5	37	19	9
0.No	10408	8011	10441	9143	11643
1.Yes	5105	6017	5227	5740	5405
Value	H1FCFLAG	H2FCFLAG	H3FCFLAG	H4FCFLAG	
.d:DK			2	4	
.k:no children	743	589	744	629	
.m:Missing	11165	12800	11521	347	
.r:Refuse			2		
0.Not imputed	14186	12592	14052	13697	
1.Imputed	745	858	518	267	

How Constructed

HwFCANY indicates whether the respondent and spouse received any financial help from their children/grandchildren in the last two years. Respondents are asked: "In the last two years, have you (or your spouse) received financial or in-kind support from any of your children and/or grandchildren (and those of your spouse)?". HwFCANY is coded as 0 if the respondent and spouse did not receive any financial

support from their children/grandchildren or if they have no living children, and is coded as 1 if they did receive financial support from their children/grandchildren.

HwFCAMT is the total imputed financial transfer amount the respondent and spouse received from their children/grandchildren in the last year. The monetary or in-kind transfers were reported in weekly, monthly, yearly, or as a unique transfer. At Waves 1 and 2, the amounts were imputed and calculated to a total amount in a 2-year period by the MHAS team and the imputed variables are available in the study website. Please see the 2001 (here) and 2003 (here) for more details on the imputation method used, variables imputed, and covariates included. At these early waves HwFCAMT represents the sum of the imputed amounts (up to seven different children/grandchildren) divided by 2, so that a yearly value is expressed.

At Waves 3 and 4, the amounts were imputed and calculated to a monthly amount by the MHAS team and the imputed variables are available in the study website. Please see the 2012 (here) and 2015 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. In Waves 3 and 4, HwFCAMT represents the sum of the imputed amounts (up to seven different children/grandchildren) multiplied by 12, so that a yearly value is expressed. HwFCAMT is assigned a value of 0 if the respondent and spouse do not have any living children.

HwFCFLAG indicates whether the derived variable, HwFCAMT, used at least one imputed amount or not. HwFCFLAG is coded as 0 if none of the values were imputed and is coded as 1 if at least one of the values were imputed. HwFCFLAG is assigned special missing value .k if the respondent and spouse have no living children.

HwFCANY, HwFCAMT and HwFCFLAG are assigned special missing values .d or .r, if they answered don't know or refused, respectively. The variables are also assigned special missing value .m for the cases that failed to complete Section G (Help and Children). The variables are set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in MHAS

As part of MHAS imputation process at Waves 1 and 2, the imputed values of financial help from children/grandchildren were left as two-year amounts. In Waves 3 and 4, the imputed values of financial help from children/grandchildren were transformed to monthly amounts during the imputation process. HwFCAMT accounts for this change and includes the values of financial help from children/grandchildren at a one-year level in all waves.

In Wave 5, the respondent is not asked the amount of monetary transfers from their children/grandchildren.

Differences with the RAND HRS/Harmonized HRS

Comparable variables are not available in the RAND HRS, but are available in the RAND Family data.

The MHAS imputed all the variables used as components of RwFCAMT and RwTCFLAG. Please see the 2001 (here), 2003 (here), 2012 (here), and 2015 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

```
Wave 1:
   G17
                   help from children
   G18
                   help from children 5,000
                   if imputed value
   G18 1IMP
    G18_2IMP
                   if imputed value
   G18_3IMP
                   if imputed value
   G18 4IMP
                   if imputed value
                   if imputed value
   G18 5IMP
   G18 6IMP
                  if imputed value
   G18 7IMP
                  if imputed value
    IMAM18 1
                   family help income 1 (imputed)
```

```
IMAM18 2
                     family help income 2 (imputed)
    IMAM18 3
                     family help income 3 (imputed)
    IMAM18 4
                     family help income_4 (imputed)
    IMAM18 5
                     family help income_5 (imputed)
                     family help income 6 (imputed)
    IMAM18 6
    IMAM18 7
                     family help income 7 (imputed)
Wave 2:
    G17
                     received financial support from (grand) children
    G17 1IMP
                     if imputed value
    G17_2IMP
                     if imputed value
    G17_3IMP
                     if imputed value
    G17_4IMP
                     if imputed value
    G17_5IMP
                     if imputed value
   G17_6IMP
G17_7IMP
                     if imputed value
                    if imputed value
    IMAM17 1
                     family help income 1 (imputed)
    IMAM17 2
                     family help income_2 (imputed)
   IMAM17 3
                     family help income 3 (imputed)
    IMAM17 4
                   family help income 4 (imputed)
    IMAM17 5
                     family help income 5 (imputed)
    IMAM17 6
                     family help income 6 (imputed)
    IMAM17 7
                    family help income 7 (imputed)
Wave 3:
    G17 12
                     Last 2 years: Respondent received financial assistance f
    G19_1_IMP_12
    G19_2_IMP_12
    G19_3_IMP_12
G19_4_IMP_12
G19_5_IMP_12
G19_6_IMP_12
    G19 7 IMP 12
    IMAMG19 1 12
                     MonthlyReceived 1
    IMAMG19 2 12
                     MonthlyReceived 2
    IMAMG19 3 12
                    MonthlyReceived 3
    IMAMG19 4 12
                    MonthlyReceived 4
    IMAMG19 5 12
                  MonthlyReceived 5
    IMAMG19 6 12
                  MonthlyReceived 6
    IMAMG19 7 12
                    MonthlyReceived 7
Wave 4:
    \mathsf{G17}\_15
                     Last 2 years: Respondent received financial assistance f
    G19_1_IMP_15
                     Family help income 1 (Flag if imputed value)
                     Family help income_2 (Flag if imputed value)
    G19_2_IMP_15
    G19_3_IMP_15
G19_4_IMP_15
                     Family help income 3 (Flag if imputed value)
                     Family help income_4 (Flag if imputed value)
    G19 5 IMP 15
                     Family help income 5 (Flag if imputed value)
                     Family help income_6 (Flag if imputed value)
    G19_6 IMP 15
                     Family help income 7 (Flag if imputed value)
    G19 7 IMP 15
                     Family help income 1 (imputed)
    IMAMG19 1 15
    IMAMG19 2 15
                     Family help income 2 (imputed)
    IMAMG19 3 15
                     Family help income 3 (imputed)
    IMAMG19 4 15
                     Family help income_4 (imputed)
    IMAMG19_5_15
                     Family help income_5 (imputed)
    IMAMG19_6_15
                     Family help income 6 (imputed)
    IMAMG19_7_15
                    Family help income_7 (imputed)
Wave 5:
    G17 18
                     Last 2 years: R/spouse received financial assistance fro
```

Financial Transfer to Children

Wave	Variable	Label	Type
1	H1TCANY	hltcany: wl Any transfer to children	Categ
2	H2TCANY	h2tcany: w2 Any transfer to children	Categ
3	H3TCANY	h3tcany: w3 Any transfer to children	Categ
4	H4TCANY	h4tcany: w4 Any transfer to children	Categ
5	H5TCANY	h5tcany: w5 Any transfer to children	Categ
1	H1TCAMT	hltcamt: wl Financial transfer to children	Cont
2	H2TCAMT	h2tcamt: w2 Financial transfer to children	Cont
3	H3TCAMT	h3tcamt: w3 Financial transfer to children	Cont
4	H4TCAMT	h4tcamt: w4 Financial transfer to children	Cont
1	H1TCFLAG	hltcflag: w1 Financial transfer to children - Flag	Categ
2	H2TCFLAG	h2tcflag: w2 Financial transfer to children - Flag	Categ
3	H3TCFLAG	h3tcflag: w3 Financial transfer to children - Flag	Categ
4	H4TCFLAG	h4tcflag: w4 Financial transfer to children - Flag	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TCANY	15544	0.16	0.37	0.00	1.00
H2TCANY	14039	0.17	0.38	0.00	1.00
H3TCANY	15676	0.22	0.42	0.00	1.00
H4TCANY	14883	0.24	0.42	0.00	1.00
H5TCANY	17050	0.22	0.42	0.00	1.00
H1TCAMT	15544	14304.41	131919.23	0.00	8736000.00
H2TCAMT	14039	19906.13	446587.10	0.00	31200000.00
H3TCAMT	15620	6201.96	27803.34	0.00	1260000.00
H4TCAMT	14856	6076.07	29575.55	0.00	1000000.00
H1TCFLAG	14931	0.03	0.17	0.00	1.00
H2TCFLAG	13450	0.02	0.15	0.00	1.00
H3TCFLAG	14876	0.03	0.16	0.00	1.00
H4TCFLAG	14227	0.02	0.13	0.00	1.00

Categorical Variable Codes

Value	H1TCANY	H2TCANY	H3TCANY	H4TCANY	H5TCANY
.d:DK	89		17	12	21
.m:Missing	11165	12800	11116	33	20
.r:Refuse	41		30	18	23
0.No	13066	11629	12200	11367	13259
1.Yes	2478	2410	3476	3516	3791
Value	H1TCFLAG	H2TCFLAG	H3TCFLAG	H4TCFLAG	
.d:DK			2	4	
.k:no children	743	589	744	629	
.m:Missing	11165	12800	11214	86	
.r:Refuse			3		
0.Not imputed	14466	13120	14486	13972	
1.Imputed	465	330	390	255	

How Constructed

HwTCANY indicates whether the respondent and spouse gave any financial help to their children/grandchildren in the last two years. Respondents are asked: "In the last two years, have you (or your spouse) given financial or in-kind support to any of your children and/or grandchildren (and to those of your spouse)? Include help for education; exclude housing or shared meals and other basic daily

expenses". HwTCANY is coded as 0 if the respondent and spouse did not give any financial help to their children or if they have no living children, and is coded as 1 if they gave some financial help to their children.

HwTCAMT is the total imputed financial transfer amount the respondent and spouse gave to their children/grandchildren in the last year. The monetary or in-kind transfers were reported in weekly, monthly, yearly, or as a unique transfer. At Waves 1 and 2, the amounts were imputed and calculated to a total amount in a 2-year period by the MHAS team and the imputed variables are available in the study website. Please see the 2001 (here) and 2003 (here) for more details on the imputation method used, variables imputed, and covariates included. At these early waves HwTCAMT represents the sum of the imputed amounts (up to seven different children/grandchildren) divided by 2, so that a yearly value is expressed.

At Waves 3 and 4, the amounts were imputed and calculated to a monthly amount by the MHAS team and the imputed variables are available in the study website. Please see the 2012 (here) and 2015 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. In Waves 3 and 4, HwTCAMT represents the sum of the imputed amounts (up to seven different children/grandchildren) multiplied by 12, so that a yearly value is expressed. HwTCAMT is assigned a value of 0 if they have no living children.

HWTCFLAG indicates whether the derived variable, HwTCAMT, used at least one imputed amount or not. HwTCFLAG is coded as 0 if none of the values were imputed and is coded as 1 if at least one of the values were imputed. HwTCFLAG is assigned special missing value .k if the respondent and spouse had no living children.

HwTCANY, HwTCAMT and HwTCFLAG are assigned special missing values .d or .r, if they answered don't know or refused, respectively. The variables are also assigned special missing .m for the cases that failed to complete Section G (Help and Children). The variables are set to plain missing (.) for respondents who did not respond to the current wave.

Cross Wave Differences in MHAS

As part of MHAS imputation process at Waves 1 and 2, the imputed values of financial help to children/grandchildren were left as two-year amounts. In Waves 3 and 4, the imputed values of financial help to children/grandchildren were transformed to monthly amounts during the imputation process. HwTCAMT accounts for this change and includes the values of financial help to children/grandchildren at a one-year level in all waves.

In Wave 5, the respondent is not asked the amount of monetary transfers to their children/grandchildren.

Differences with the RAND HRS/Harmonized HRS

Comparable variables are not available in the RAND HRS, but are available in the RAND Family data.

The MHAS imputed all the variables used as components of RwTCAMT and RwTCFLAG. Please see the 2001 (here), 2003 (here), 2012 (here), and 2015 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

```
Wave 1:
   G17
                    help from children
   G18
                    help from children 5,000
   G18 1IMP
                    if imputed value
    G18_2IMP
                   if imputed value
    G18_3IMP
                   if imputed value
                   if imputed value
   G18 4IMP
   G18 5IMP
                   if imputed value
   G18 6IMP
                   if imputed value
    G18 7IMP
                   if imputed value
    IMAM18 1
                   family help income 1 (imputed)
```

```
IMAM18 2
                     family help income 2 (imputed)
    IMAM18 3
                     family help income 3 (imputed)
    IMAM18 4
                     family help income_4 (imputed)
    IMAM18 5
                     family help income_5 (imputed)
    IMAM18 6
                     family help income 6 (imputed)
    IMAM18 7
                     family help income 7 (imputed)
Wave 2:
    G17
                     received financial support from (grand) children
    G17 1IMP
                     if imputed value
    G17_2IMP
                     if imputed value
    G17_3IMP
                     if imputed value
    G17_4IMP
                     if imputed value
    G17_5IMP
                     if imputed value
    G17_6IMP
G17_7IMP
                     if imputed value
                     if imputed value
    IMAM17 1
                     family help income 1 (imputed)
    IMAM17 2
                     family help income_2 (imputed)
    IMAM17 3
                     family help income 3 (imputed)
    IMAM17 4
                     family help income 4 (imputed)
    IMAM17 5
                     family help income 5 (imputed)
    IMAM17 6
                     family help income 6 (imputed)
    IMAM17 7
                     family help income 7 (imputed)
Wave 3:
    G7 12
                     Last 2 years: Did respondent/spouse financially assist c
    G8B1_IMP_12
    G8B2_IMP_12
    G8B3_IMP_12
G8B4_IMP_12
G8B5_IMP_12
G8B6_IMP_12
    G8B7 IMP 12
    IMAMG8B1 12
    IMAMG8B2 12
    IMAMG8B3 12
    IMAMG8B4 12
    IMAMG8B5 12
    IMAMG8B6 12
    IMAMG8B7 12
Wave 4:
    G7 15
                     Last 2 years: Did respondent/spouse financially assist c
    G8B1 IMP 15
                     Financial assistance given 1 (Flag if imputed value)
    G8B2_IMP_15
G8B3_IMP_15
G8B4_IMP_15
                     Financial assistance given_2 (Flag if imputed value)
                     Financial assistance given 3 (Flag if imputed value)
                     Financial assistance given_4 (Flag if imputed value)
    G8B5 IMP 15
                     Financial assistance given 5 (Flag if imputed value)
    G8B6 IMP 15
                     Financial assistance given_6 (Flag if imputed value)
                     Financial assistance given 7 (Flag if imputed value)
    G8B7 IMP 15
                     Financial assistance given 1 (imputed)
    IMAMG8B1 15
    IMAMG8B2 15
                     Financial assistance given 2 (imputed)
    IMAMG8B3 15
                     Financial assistance given 3 (imputed)
    IMAMG8B4_15
                     Financial assistance given_4 (imputed)
    {\tt IMAMG8B5\_15}
                     Financial assistance given 5 (imputed)
    IMAMG8B6_15
                     Financial assistance given 6 (imputed)
                     Financial assistance given_7 (imputed)
    IMAMG8B7 15
Wave 5:
    G7 18
                     Last 2 years:Did respondent/spouse financially assist c
```

Financial Transfer to Parents

Wave	Variable	Label	Туре
1	R1TPANY	rltpany: w1 R Any transfer to parents	Categ
2	R2TPANY	r2tpany: w2 R Any transfer to parents	Categ
3	R3TPANY	r3tpany: w3 R Any transfer to parents	Categ
4	R4TPANY	r4tpany: w4 R Any transfer to parents	Categ
5	R5TPANY	r5tpany: w5 R Any transfer to parents	Categ
1	S1TPANY	s1tpany: w1 S Any transfer to parents	Categ
2	S2TPANY	s2tpany: w2 S Any transfer to parents	Categ
3	S3TPANY	s3tpany: w3 S Any transfer to parents	Categ
4	S4TPANY	s4tpany: w4 S Any transfer to parents	Categ
5	S5TPANY	s5tpany: w5 S Any transfer to parents	Categ
1	R1TPAMT	r1tpamt: w1 R Financial transfer amount to parents	Cont
2	R2TPAMT	r2tpamt: w2 R Financial transfer amount to parents	Cont
3	R3TPAMT	r3tpamt: w3 R Financial transfer amount to parents	Cont
4	R4TPAMT	r4tpamt: w4 R Financial transfer amount to parents	Cont
1	S1TPAMT	s1tpamt: w1 S Financial transfer amount to parents	Cont
2	S2TPAMT	s2tpamt: w2 S Financial transfer amount to parents	Cont
3	S3TPAMT	s3tpamt: w3 S Financial transfer amount to parents	Cont
4	S4TPAMT	s4tpamt: w4 S Financial transfer amount to parents	Cont
2	R2TPFLAG	r2tpflag: w2 R Financial transfer to parents - Flag	Categ
3	R3TPFLAG	r3tpflag: w3 R Financial transfer to parents - Flag	Categ
4	R4TPFLAG	r4tpflag: w4 R Financial transfer to parents - Flag	Categ
2	S2TPFLAG	s2tpflag: w2 S Financial transfer to parents - Flag	Categ
3	S3TPFLAG	s3tpflag: w3 S Financial transfer to parents - Flag	Categ
4	S4TPFLAG	s4tpflag: w4 S Financial transfer to parents - Flag	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1TPANY	14108	0.16	0.36	0.00	1.00
R2TPANY	12500	0.14	0.35	0.00	1.00
R3TPANY	7685	0.26	0.44	0.00	1.00
R4TPANY	14439	0.13	0.33	0.00	1.00
R5TPANY	16635	0.16	0.37	0.00	1.00
SITPANY	9965	0.18	0.38	0.00	1.00
S2TPANY	8734	0.17	0.37	0.00	1.00
S3TPANY	5837	0.26	0.44	0.00	1.00
S4TPANY	9441	0.15	0.35	0.00	1.00
S5TPANY	7297	0.12	0.32	0.00	1.00
R1TPAMT	13810	432.06	7570.31	0.00	560251.50
R2TPAMT	12502	678.07	5714.56	0.00	400000.00
R3TPAMT	15723	554.68	3593.30	0.00	240000.00
R4TPAMT	14763	596.14	3496.98	0.00	110000.00
S1TPAMT	9724	524.56	8889.89	0.00	560251.50
S2TPAMT	8735	813.71	6587.81	0.00	400000.00
S3TPAMT	10592	600.90	3974.80	0.00	240000.00
S4TPAMT	9650	630.90	3498.33	0.00	110000.00
R2TPFLAG	3799	0.12	0.33	0.00	1.00
R3TPFLAG	6298	0.06	0.25	0.00	1.00

Section G: Family Stru	icture						458
R4TPFLAG	4065	0.04	0.21	0.	.00	1.00	
S2TPFLAG	3080	0.12	0.33	0.	.00	1.00	
S3TPFLAG	4682	0.06	0.24	0.	.00	1.00	
S4TPFLAG	3008	0.04	0.20	0.	.00	1.00	
Categorical Varia	ble Codes						
Value			R1TPANY	R2TPANY	R3TPANY	R4TPANY	R5TPANY
.d:DK		į	8	4	162	152	144
.m:Missing			33	22	6796	36	16
<pre>.p:Proxy interview,</pre>	not asked		1032	1178	1071	145	296
.r:Refuse			5		9	7	23
0.No			11918	10707	5671	12620	13951
1.Yes		I	2190	1793	2014	1819	2684
Value			S1TPANY	S2TPANY	S3TPANY	S4TPANY	S5TPANY
.d:DK			7	3	116	99	41
.m:Missing			12	6	4075	8	2
.p:Proxy interview,	not asked		660	821	558	100	112
.r:Refuse			4	4000	6	4	9
.u:Unmar			4205	4009	4782	4847	5227
.v:SP NR			333	131	349	280	501
0.No		!	8174	7257	4292	8045	6437
1.Yes		I	1791	1477	1545	1396	860
Value				R2TPFLAG	R3TPFLAG	R4TPFLAG	
.m:Missing				24		16	
.n:no parents				8703	9425	10698	
.p:Proxy interview,	not asked			1178			
0.Not imputed				3336	5891	3884	
1.Imputed		I		463	407	181	
Value				S2TPFLAG	S3TPFLAG	S4TPFLAG	
.m:Missing				8		2	
.n:no parents				5655	5910	6642	
.p:Proxy interview,	not asked	1		821			

How Constructed

.u:Unmar .v:SP NR

1.Imputed

0.Not imputed

RwTPANY indicates whether the respondent and spouse gave any financial help to their parents in the last two years. Respondents are asked: "In the last 2 years, have you (and/or your spouse) given financial assistance to your parent(s)?". RwTPANY is coded as 0 if the respondent and spouse did not give any financial help to their parents or if they have no living parents, and is coded as 1 if they have given financial help to their parents.

4009

131

2705

375

4782

349

4391

2.91

4847

280

127

In Wave 1, RwTPAMT is financial transfer amount the respondent and spouse gave to their parents in the last two years, divided by two. In Waves 2 through 4, the monetary or in-kind transfers were imputed by the MHAS team and the imputed variables are available in the study website. Please see the 2001 (here), 2003 (here), 2012 (here), and 2015 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included. RwTPAMT is given a value of 0 if the respondent has no living parents.

RWTPFLAG indicates whether the derived variable, RwTPAMT, used an imputed amount or not. RwTPFLAG is coded as 0 if the amount was not imputed, and is coded as 1 if the amount was imputed. RwTPFLAG is assigned special missing .n if the respondent has no living parents. RwTPFLAG is only available starting in Wave 2.

RwTPANY, RwTPAMT and RwTPFLAG are assigned special missing values .d or .r, if they answered don't know or refused, respectively. The variables are also assigned special missing value .m for the cases that failed to complete Section F (Parents and Help to Parents). The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwTPANY, SwTPAMT and SwTPFLAG are taken from the Wave 'w' spouse's value for RwTPANY, RwTPAMT and RwTPFLAG. In addition to the special missing codes used in RwTPANY, RwTPAMT and RwTPFLAG, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

In Wave 1, RwTPAMT is the financial transfer amount the respondent and spouse gave to their parents in the last two years, divided by two.

In Waves 2 through 4, the monetary or in-kind transfers were imputed by the MHAS team and the imputed variables are available in the study website.

In Wave 5, the respondent is not asked the amount of monetary transfers to their parents.

Differences with the RAND HRS/Harmonized HRS

Comparable variables are not available in the RAND HRS, but are available in the RAND Family data.

The MHAS imputed all the variables used as components of RwTPAMT and RwTPFLAG. Please see the 2001 (here), 2003 (here), 2012 (here), and 2015 (here) MHAS documents titled "Imputation of Non-Response on Economic Variables in the MHAS", available in the study website www.MHASweb.org for more details on the imputation method used, variables imputed, and covariates included.

Wave 1:	
F34	economic help to parents
F35	help to parents 5,000
F36	amount help to parents
Wave 2:	
F40	financial assistance to parents in last two years
F40IMP	if imputed value
IMAMF40	economic help to parents (imputed)
Wave 3:	
F40_12	Last 2 years:Did respondent/spouse provideassistance
F41_IMP_12	
IMAMF41_12	total expense for assiating parent(s)
Wave 4:	
F40_15	In the last 2 years: Has respondent (and/or spouse) giv
F41_IMP_15	Economic Help to Parents (Flag if imputed value)
IMAMF41_15	Economic Help to Parents (imputed)
Wave 5:	
F40_18	In the last 2 years: Has R (and/or spouse) given any fi

Section H: Employment History

Currently Working for Pay

Wave	Variable	Label							Т	'уре
1	R1WORK	r1wor	: w1	R	Currently	working	for	pay	C	ateg
2	R2WORK	r2worl	: w2	R	Currently	working	for	pay	C	ateg
3	R3WORK	r3wor1	: w3	R	Currently	working	for	pay	C	ateg
4	R4WORK	r4wor]	: w4	R	Currently	working	for	pay	C	ateg
5	R5WORK	r5wor	: w5	R	Currently	working	for	pay	С	ateg
1	S1WORK	s1wor	: w1	S	Currently	working	for	pay	C	ateg
2	S2WORK	s2worl	: w2	S	Currently	working	for	pay	C	ateg
3	S3WORK	s3worl	: w3	S	Currently	working	for	pay	C	ateg
4	S4WORK	s4wor	: w4	S	Currently	working	for	pay	C	ateg
5	S5WORK	s5wor]	: w5	S	Currently	working	for	pay	C	ateg

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORK	15094	0.44	0.50	0.00	1.00
R2WORK	13652	0.42	0.49	0.00	1.00
R3WORK	15712	0.36	0.48	0.00	1.00
R4WORK	14679	0.38	0.49	0.00	1.00
R5WORK	17067	0.41	0.49	0.00	1.00
S1WORK	10601	0.48	0.50	0.00	1.00
S2WORK	9537	0.46	0.50	0.00	1.00
S3WORK	10586	0.40	0.49	0.00	1.00
S4WORK	9594	0.42	0.49	0.00	1.00
S5WORK	7443	0.36	0.48	0.00	1.00

Categorical Variable Codes

Value	R1WORK	R2WORK	R3WORK	R4WORK	R5WORK
.d:DK	21	17	3	53	7
.m:Missing	42	29		40	18
.r:Refuse	29	6	8	7	22
O.Not working for pay	8426	7870	10027	9108	10016
1.Working for pay	6668	5782	5685	5571	7051
Value	S1WORK	S2WORK	S3WORK	S4WORK	S5WORK
.d:DK	10	15	1	44	2
.m:Missing	14	7		10	3
.r:Refuse	23	5	5	4	13
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.Not working for pay	5550	5132	6379	5555	4778
1.Working for pay	5051	4405	4207	4039	2665

How Constructed

RwWORK indicates whether the respondent is working in the current wave. R1WORK is derived from the question: 'Last week did you... Worked, Did not work but you had a job, Looked for work, Were a student, Dedicated self to household chores, or Did not work?'. The 'Worked' and 'Did not work but had a job' answers were treated as currently 'Working for pay'. The rest of the answers were treated as 'Not working for pay'. Starting in Wave 2, RwWORK was derived from the question: 'Are you currently... Working, Looking for work, or Don't work'. The 'Looking for work' and 'Don't work' answers were treated as currently 'Not Working for pay'. RwWORK is coded as 0 if the respondent is not working and as 1 if the respondent is working. RwWORK is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwWORK is also assigned special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwWORK is taken from the Wave 'w' spouse's value for RwWORK. In addition to the special missing codes used in RwWORK, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. First, the content of the section was revised and modified each wave. Second, the dynamics of the section (determined by the skip patterns) was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' and 'Principal Occupation' questions. Also, in Wave 1 respondents were asked 'Last week did you... Worked, Did not work but you had a job, Looked for work, Were a student, Dedicated self to household chores, or Did not work?'. After Wave 2, respondents were asked 'Are you currently... Working, Looking for work, or Don't work'.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable.

Wave 1:	
I1	ever had a job
I2	job without payment
I5	worked previous week
Wave 2:	
I16	work status
I3	ever worked without pay
Wave 3:	
I16_12	Current work status
I3_12	Have you ever/since last time we spoke, worked without
Wave 4:	
I16_15	Current labor force status
I3_15	Has respondent ever helped in a business, farm, or ranc
Wave 5:	
I16_18	Current labor force status
I3_18	Has R ever helped in a business/farm/ranch without rece

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
3	R3SLFEMP	r3slfemp: w3 R Whether Self-Employed	Categ
4	R4SLFEMP	r4slfemp: w4 R Whether Self-Employed	Categ
5	R5SLFEMP	r5slfemp: w5 R Whether Self-Employed	Categ
1	S1SLFEMP	s1s1femp: w1 S Whether Self-Employed	Categ
2	S2SLFEMP	s2slfemp: w2 S Whether Self-Employed	Categ
3	S3SLFEMP	s3slfemp: w3 S Whether Self-Employed	Categ
4	S4SLFEMP	s4slfemp: w4 S Whether Self-Employed	Categ
5	S5SLFEMP	s5slfemp: w5 S Whether Self-Employed	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SLFEMP	6668	0.33	0.47	0.00	1.00
R2SLFEMP	1702	0.40	0.49	0.00	1.00
R3SLFEMP	5682	0.36	0.48	0.00	1.00
R4SLFEMP	5519	0.45	0.50	0.00	1.00
R5SLFEMP	7016	0.39	0.49	0.00	1.00
S1SLFEMP	5045	0.33	0.47	0.00	1.00
S2SLFEMP	1299	0.38	0.49	0.00	1.00
S3SLFEMP	4205	0.35	0.48	0.00	1.00
S4SLFEMP	3993	0.46	0.50	0.00	1.00
S5SLFEMP	2648	0.47	0.50	0.00	1.00

Categorical Variable Codes

Value	R1SLFEMP	R2SLFEMP	R3SLFEMP	R4SLFEMP	R5SLFEMP
.d:DK	17	30	4	103	9
.m:Missing	42	29		40	18
.r:Refuse	32	7	10	9	55
.s:Skip		4066			
.w:not working	8427	7870	10027	9108	10016
0.Not self-employed	4471	1018	3643	3016	4301
1.Self-employed	2197	684	2039	2503	2715
Value	S1SLFEMP	S2SLFEMP	S3SLFEMP	S4SLFEMP	S5SLFEMP
.d:DK	12	27	2	89	4
.m:Missing	14	7		10	3
.r:Refuse	27	6	6	5	28
.s:Skip		3093			
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.w:not working	5550	5132	6379	5555	4778
0.Not self-employed	3400	801	2722	2171	1408
1.Self-employed	1645	498	1483	1822	1240

How Constructed

RwSLFEMP indicates whether the respondent is self-employed in the current wave. RwSLFEMP is derived from the question: 'In your current primary job you are a(n)...' with the possible responses: boss, self-employed, employee in a co-op, employee with fixed salary, employee working on commission, non-family worker without pay, family worker without pay'. RwSLFEMP is coded as 0 if the respondent is not self-employed and coded as 1 if the respondent is self-employed. RwSLFEMP is set to .w, if the respondent is currently not working (that is if RwWORK is 0). In Wave 2, RwSLFEMP is also set to special missing value .s to indicate that the 'Principal Occupation' questions are not available because they were skipped for

follow-up interviews. RwSLFEMP is also assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. RwSLFEMP is set to plain missing (.) for respondents who did not respond to the current wave.

SwSLFEMP is taken from the Wave 'w' spouse's value for RwSLFEMP. In addition to the special missing codes used in RwSLFEMP, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable.

Wave 1:	
I1	ever had a job
I10	main position
12	job without payment
Wave 2:	
I16	work status
I19	current work roles similar to past roles
I21	type of employee
I7	type of employee
Wave 3:	
I16 12	Current work status
I19 ⁻ 12	Current work activities are similar to activities over
I21 ¹ 2	Current job: position at work
I3_12	Have you ever/since last time we spoke, worked without
I7 <u>_</u> 12	In this main job, what has been (was) your position at
Wave 4:	
I16_15	Current labor force status
I19_15	Current occupation: Are activities at respondent's cure
I21 <u></u> 15	Respondent's position in his/her current primary job
I3_15	Has respondent ever helped in a business, farm, or ranc
I7 <u>_</u> 15	Respondent's position in this primary job
Wave 5:	
I16_18	Current labor force status
I19 <u></u> 18	Are activities at R's current job like those done in ma
I21 <u></u> 18	R's position in his/her current primary job
I3_18	Has R ever helped in a business/farm/ranch without rece
I7 <u></u> 18	R's position in this primary job

Labor Force Status

Wave	Variable	Label	Type
1	R1LBRF_M	rllbrf_m: w1 R Labor force status	Categ
2	R2LBRF_M	r2lbrf_m: w2 R Labor force status	Categ
3	R3LBRF_M	r3lbrf_m: w3 R Labor force status	Categ
4	R4LBRF_M	r4lbrf_m: w4 R Labor force status	Categ
5	R5LBRF_M	r5lbrf_m: w5 R Labor force status	Categ
1	S1LBRF_M	sllbrf_m: w1 S Labor force status	Categ
2	S2LBRF_M	s2lbrf_m: w2 S Labor force status	Categ
3	S3LBRF_M	s3lbrf_m: w3 S Labor force status	Categ
4	S4LBRF_M	s4lbrf_m: w4 S Labor force status	Categ
5	S5LBRF_M	s5lbrf_m: w5 S Labor force status	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LBRF M	15094	3.42	2.18	1.00	6.00
R2LBRF M	13659	2.99	1.84	1.00	5.00
R3LBRF M	15715	3.17	1.78	1.00	5.00
R4LBRF M	14701	3.06	1.76	1.00	5.00
R5LBRF_M	17068	2.96	1.78	1.00	5.00
S1LBRF M	10601	3.28	2.21	1.00	6.00
S2LBRF M	9543	2.85	1.84	1.00	5.00
S3LBRF M	10588	3.05	1.80	1.00	5.00
S4LBRF M	9611	2.92	1.78	1.00	5.00
S5LBRF M	7444	3.11	1.74	1.00	5.00

Categorical Variable Codes

Value	- R1LBRF M	R2LBRF M	R3LBRF M	R4LBRF M	R5LBRF M
.d:DK	$\overline{2}1$	$\overline{1}$ 1	_3	32	_7
.m:Missing	42	29		40	18
.r:Refuse	1 29	5	5	6	21
1.Working	1 6667	5782	5685	5571	7051
2.Unemployed		284	255	206	289
3.Retired		1305	1869	2106	2133
4.Disabled		835	1555	1473	1517
5.Not in labor force	5551	5453	6351	5345	6078
6.Unemployed, Retired or Disabled	2876				
Value	- S1LBRF M	S2LBRF M	S3LBRF M	S4LBRF M	S5LBRF M
.d:DK	1 10	10	33HBRF_F1	27	22TDKL_M
.m:Missing	1 14	7	_	10	3
.r:Refuse	1 23	Δ	3	4	12
.u:Unmar	1 4205	4009	4782	4847	5227
.v:SP NR	1 333	131	349	280	501
1.Working	5051	4405	4207	4039	2665
2.Unemployed	1 3031	212	184	139	128
3.Retired	I I	878	1204	1305	1146
4.Disabled	I I	516	900	789	708
5.Not in labor force	3529	3532	4093	3339	2797
6.Unemployed, Retired or Disabled	1 2021	3332	4093	3339	2191
o.oncmproyed, necried or bisabled	1 2021				

How Constructed

RwLBRF_M is an MHAS specific variable; it summarizes the labor force status for the respondent at each wave indicating one of the following statuses: 1 working, 2 unemployed, 3 retired, 4 disabled, 5 not in the labor force. In Wave 1, RwLBRF_M includes an additional status that indicates if the respondent is

either unemployed, retired, or disabled. This extra category had to be created because the questions included in Wave 1, did not allow to distinguish between categories 2, 3 and 4.

RwLBRF_M is derived from different questions that are available each wave. These questions allow us to establish if the respondent has ever worked and if they are currently working. An additional question also indicates the main reason the respondent is not currently working. The following are the different reasons for not currently working: dedicated to household chores, retired, old age, sick or temporarily disabled, unable to work for rest of life, and doesn't have customers or can't find work. The reason for not working question is not included in Wave 1.

If the respondent indicates they are currently working, RwLBRF_M is set to working. If the respondent indicates they are currently looking for work, or does not work but 'doesn't have customers or can't find work', RwLBRF_M is set to unemployed. If the respondent indicates they are retired, regardless if they are currently working, RwLBRF_M is set to retired. If the respondent is 'sick or temporarily disabled' or 'unable to work for rest of life', RwLBRF_M is set to disabled. Otherwise, RwLBRF_M is set to "not in the labor force".

RwLBRF_M is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwLBRF_M is also assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwLBRF_M summarizes the labor force status for the respondent's spouse or partner. SwLBRF_M is taken from the Wave 'w' spouse's value for RwLBRF_M. In addition to the special missing codes used in RwLBRF_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

In particular, the reason for not working question is not included in Wave 1. This affects the derivation of RwLBRF_M and an additional category had to be created because it was not possible to distinguish between unemployed, retired and disabled.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable. Also, the reason for not working question is not asked if the respondent reported they are currently working.

```
Wave 1:
   I1
                    ever had a job
                    job without payment
   Ι5
                    worked previous week
Wave 2:
   T16
                    work status
   I26
                    main reason for not working
                    ever worked without pay
   I3
Wave 3:
   I16 12
                    Current work status
    I26_2_12
                    Reason for not working - retired
    I26 4 12
                    Reason for not working - sick or temporary disability
    I26 5 12
                    Reason for not working - unable to work rest of life
                    Reason for not working - no customers or work
    I26 6 12
   I3 12
                    Have you ever/since last time we spoke, worked without
Wave 4:
```

I16_15 I26_2_15 I26_4_15 I26_5_15 I26_6_15 I3 15	Current labor force status Reason respondent does not work: Retired Reason respondent does not work: Sick or temporarily di Reason respondent does not work: Unable to work for res Reason respondent does not work: Doesn't have customers Has respondent ever helped in a business, farm, or ranc
Wave 5:	
I16 18	Current labor force status
I26_2_18	Reason R does not work: Retired
I26 <u>_</u> 4_18	Reason R does not work: Sick or temporarily disabled
I26_5_18	Reason R does not work: Unable to work for rest of life
126_6_18	Reason R does not work: Doesn't have customers or can't
I3_18	Has R ever helped in a business/farm/ranch without rece

In the Labor Force

Wave	Variable	Label	Type
2	R2INLBRF	r2inlbrf: w2 R In the Labor Force	Categ
3	R3INLBRF	r3inlbrf: w3 R In the Labor Force	Categ
4	R4INLBRF	r4inlbrf: w4 R In the Labor Force	Categ
5	R5INLBRF	r5inlbrf: w5 R In the Labor Force	Categ
2	S2INLBRF	s2inlbrf: w2 S In the Labor Force	Categ
3	S3INLBRF	s3inlbrf: w3 S In the Labor Force	Categ
4	S4INLBRF	s4inlbrf: w4 S In the Labor Force	Categ
5	S5INLBRF	s5inlbrf: w5 S In the Labor Force	Cateo

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2INLBRF	13659	0.44	0.50	0.00	1.00
R3INLBRF	15715	0.38	0.48	0.00	1.00
R4INLBRF	14701	0.39	0.49	0.00	1.00
R5INLBRF	17068	0.43	0.50	0.00	1.00
S2INLBRF	9543	0.48	0.50	0.00	1.00
S3INLBRF	10588	0.41	0.49	0.00	1.00
S4INLBRF	9611	0.43	0.50	0.00	1.00
S5INLBRF	7444	0.38	0.48	0.00	1.00

Categorical Variable Codes

Value	R2INLBRF	R3INLBRF	R4INLBRF	R5INLBRF
.d:DK	11	3	32	6
.m:Missing	29		40	18
.r:Refuse	5	5	6	22
0.No	7593	9775	8924	9728
1.Yes	6066	5940	5777	7340
Value	S2INLBRF	S3INLBRF	S4INLBRF	S5INLBRF
.d:DK	10	1	27	2
.m:Missing	7		10	3
.r:Refuse	4	3	4	12
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
0.No	4926	6197	5433	4651
1.Yes	4617	4391	4178	2793

How Constructed

RWINLBRF is an indicator for whether the respondent is considered part of the labor force as defined by the Bureau of Labor Statistics (BLS). Briefly, this definition considers those who are working for pay or those who are not working but actively seeking work as part of the labor force.

RWINLBRF is derived using the summary of the labor force status variable for the respondent at each wave, RWLBRF_M. RwLBRF_M indicates one of the following statuses: 1 working, 2 unemployed, 3 retired, 4 disabled, 5 not in the labor force. Since the questions included in Wave 1 did not allow to distinguish between categories unemployed, retired, and disabled status, RWINLBRF is only available starting Wave 2. Reflecting the BLS definition of being in the labor force, RWINLBRF is categorized as 1 if the respondent is working or unemployed and RWINLBRF is categorized as 2 for all other labor force statuses.

RwINLBRF is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwINLBRF is also assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwINLBRF is an indicator for whether the respondent's spouse is considered part of the labor force. SwINLBRF is taken from the Wave 'w' spouse's value for RwINLBRF. In addition to the special missing codes used in RwINLBRF, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

Since the questions included in Wave 1 did not allow us to distinguish between the categories of unemployed, retired, and disabled statuses, RwINLBRF is only available starting in Wave 2.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable.

```
Wave 2:
   I16
                   work status
   I26
                   main reason for not working
                    ever worked without pay
   Ι3
Wave 3:
   I16 12
                    Current work status
   I26<sup>2</sup> 12
                    Reason for not working - retired
   I26 4 12
                   Reason for not working - sick or temporary disability
                   Reason for not working - unable to work rest of life
   I26 5 12
                   Reason for not working - no customers or work
   I26 6 12
   I26 8 12
                   Reason for not working - RF
    I26 9 12
                    Reason for not working - DK
   I3 12
                    Have you ever/since last time we spoke, worked without
Wave 4:
   I16 15
                    Current labor force status
   I26_2_15
                    Reason respondent does not work: Retired
   I26_4_15
                    Reason respondent does not work: Sick or temporarily di
   I26_5_15
                    Reason respondent does not work: Unable to work for res
   I26 6 15
                    Reason respondent does not work: Doesn't have customers
    I26 8 15
                    Reason respondent does not work: RF
    I26 9 15
                   Reason respondent does not work: DK
   I3 15
                   Has respondent ever helped in a business, farm, or ranc
Wave 5:
   I16 18
                   Current labor force status
   I26 2 18
                   Reason R does not work: Retired
   126 4 18
                    Reason R does not work: Sick or temporarily disabled
   I26 5 18
                    Reason R does not work: Unable to work for rest of life
   126 6 18
                    Reason R does not work: Doesn't have customers or can't
   I26 8 18
                    Reason R does not work: RF
   I26 9 18
                    Reason R does not work: DK
    I3 18
                    Has R ever helped in a business/farm/ranch without rece
```

Unemployment Status

Wave	Variable	Label	Туре
1	R1UNEMP	rlunemp: w1 R Unemployed	Categ
2	R2UNEMP	r2unemp: w2 R Unemployed	Categ
3	R3UNEMP	r3unemp: w3 R Unemployed	Categ
4	R4UNEMP	r4unemp: w4 R Unemployed	Categ
5	R5UNEMP	r5unemp: w5 R Unemployed	Categ
1	S1UNEMP	slunemp: w1 S Unemployed	Categ
2	S2UNEMP	s2unemp: w2 S Unemployed	Categ
3	S3UNEMP	s3unemp: w3 S Unemployed	Categ
4	S4UNEMP	s4unemp: w4 S Unemployed	Categ
5	S5UNEMP	s5unemp: w5 S Unemployed	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1UNEMP	6728	0.01	0.09	0.00	1.00
R2UNEMP	6104	0.05	0.22	0.00	1.00
R3UNEMP	5982	0.05	0.22	0.00	1.00
R4UNEMP	5808	0.04	0.20	0.00	1.00
R5UNEMP	7386	0.05	0.21	0.00	1.00
Slunemp	5094	0.01	0.09	0.00	1.00
S2UNEMP	4643	0.05	0.22	0.00	1.00
S3UNEMP	4421	0.05	0.21	0.00	1.00
S4UNEMP	4200	0.04	0.19	0.00	1.00
S5UNEMP	2809	0.05	0.22	0.00	1.00

Categorical Variable Codes

Value		RIUNEMP	R2UNEMP	R3UNEMP	R4UNEMP	R5UNEMP
.d:DK	1	21	11	3	32	7
.m:Missing	1	42	29		40	18
.r:Refuse	1	29	5	5	6	21
.x:Not working/never worked	1	8366	7555	9733	8893	9682
0.No	1	6668	5782	5685	5571	7051
1.Yes	T	60	322	297	237	335
Value		S1UNEMP	S2UNEMP	S3UNEMP	S4UNEMP	S5UNEMP
.d:DK	1	10	10	1	27	2
.m:Missing	1	14	7		10	3
.r:Refuse	1	23	4	3	4	12
.u:Unmar		4205	4009	4782	4847	5227
.v:SP NR	1	333	131	349	280	501
.x:Not working/never worked	1	5507	4900	6167	5411	4635
0.No		5051	4405	4207	4039	2665
1.Yes	T	43	238	214	161	144

How Constructed

RwUNEMP indicates whether the respondent is considered unemployed, including the respondents that report they are not working but seeking work as unemployed. The derivation uses questions about current work status and reason for not working.

If the respondent reports they are currently 'looking for work', RwUNEMP is set to 'unemployed'. If the respondent indicates they 'do not work' and the reason for not working is 'doesn't have customers or can't find work', RwUNEMP is also set to unemployed. Otherwise, RwUNEMP is set to 0.

RwUNEMP is assigned special missing values .d or .r, if they answered don't know or refused, respectively. If the respondent is not working and the reason for not working isn't 'doesn't have customers or can't find work' or if they have never worked, RwUNEMP is also assigned special missing values .x. RwUNEMP is also assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwUNEMP is taken from the Wave 'w' spouse's value for RwUNEMP. In addition to the special missing codes used in RwUNEMP, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

In particular, the reason for not working question is not included in Wave 1. This affects the derivation of the RwLBRF_M and an additional category had to be created because it was not possible to distinguish between unemployed, retired, and disabled. Also, in Wave 1 respondents were asked 'Last week did you... Worked, Did not work but you had a job, Looked for work, Were a student, Dedicated self to household chores, or Did not work?'. After Wave 2, respondents were asked 'Are you currently... Working, Looking for work, or Don't work'.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable. Also different to the HRS, the reason for not working question is not asked if the respondent reported they are currently working.

```
Wave 1:
   I1
                    ever had a job
   Ι2
                    job without payment
    T.5
                    worked previous week
Wave 2:
   T16
                   work status
   I26
                    main reason for not working
   Ι3
                    ever worked without pay
Wave 3:
   I16 12
                    Current work status
    I26 6 12
                    Reason for not working - no customers or work
   I3 12
                    Have you ever/since last time we spoke, worked without
Wave 4:
   I16 15
                    Current labor force status
    I26 6 15
                    Reason respondent does not work: Doesn't have customers
   I3 15
                    Has respondent ever helped in a business, farm, or ranc
Wave 5:
   I16 18
                    Current labor force status
    I26 6 18
                    Reason R does not work: Doesn't have customers or can't
   I3 18
                    Has R ever helped in a business/farm/ranch without rece
```

Retired Employment Status

Wave	Variable	Label					Type
2	R2RETEMP	r2retemp:	w2 :	R Retired	employment	status	Categ
3	R3RETEMP	r3retemp:	w3	R Retired	employment	status	Categ
4	R4RETEMP	r4retemp:	w4	R Retired	employment	status	Categ
5	R5RETEMP	r5retemp:	w5	R Retired	employment	status	Categ
2	S2RETEMP	s2retemp:	w2	S Retired	employment	status	Categ
3	S3RETEMP	s3retemp:	wЗ	S Retired	employment	status	Categ
4	S4RETEMP	s4retemp:	w4	S Retired	employment	status	Categ
5	S5RETEMP	s5retemp:	w5	S Retired	emplovment	status	Cated

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RETEMP	13632	0.10	0.29	0.00	1.00
R3RETEMP	15714	0.15	0.41	0.00	2.00
R4RETEMP	14695	0.17	0.43	0.00	2.00
R5RETEMP	17068	0.15	0.42	0.00	2.00
S2RETEMP	9517	0.09	0.29	0.00	1.00
S3RETEMP	10587	0.14	0.39	0.00	2.00
S4RETEMP	9607	0.16	0.40	0.00	2.00
S5RETEMP	7444	0.19	0.45	0.00	2.00

Categorical Variable Codes

Value	- R2RETEMP	R3RETEMP	R4RETEMP	R5RETEMP
.d:DK	14	3	38	7
.m:Missing	52		40	18
.r:Refuse	1	6	6	21
0.Working	12327	13736	12496	14830
1.Retired	1305	1628	1891	1856
2.Retired and other status		350	308	382
Value	- S2RETEMP	S3RETEMP	S4RETEMP	S5RETEMP
.d:DK	12	1	31	2
.m:Missing	30		10	3
.r:Refuse	5	4	4	12
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
0.Working	8639	9315	8252	6239
1.Retired	878	1086	1204	1022
2.Retired and other status		186	151	183

How Constructed

RWRETEMP is derived from two different questions available only starting in Wave 2. Also, starting in Wave 3 the respondent can report a retired status alone or in addition to other statuses, such as disabled, doesn't have customers or can't find work, or dedicated to household chores. In Wave 1, RWRETEMP is only set to 1 if the respondent reports a retired status. Likewise in Wave 1, RWRETEMP is only set to 0 if no retirement status is reported at all. However, starting in Wave 2, RWRETEMP is set to 1 if the respondent reports only a retired status, to 2 if they report being retired in addition to other statuses, or to 0 if no retirement status is reported at all.

RWRETEMP is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwRETEMP is also assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SWRETEMP is taken from the Wave 'w' spouse's value for RwRETEMP. In addition to the special missing codes used in RwRETEMP, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

In particular, the reason for not working question is not included in Wave 1. This affects the derivation of the RwLBRF_M and an additional category had to be created because it was not possible to distinguish between unemployed, retired and disabled.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable. Also different to the HRS, the reason for not working question is not asked if the respondent reported he/she is currently working.

```
Wave 2:
    I16
                   work status
    I26
                   main reason for not working
    Ι3
                    ever worked without pay
Wave 3:
   I16 12
                    Current work status
    I26 1 12
                   Reason for not working - dedicated to household chores
   I26 2 12
                   Reason for not working - retired
   I26 3 12
                  Reason for not working - old age
                   Reason for not working - sick or temporary disability
   I26 4 12
   I26 5 12
                   Reason for not working - unable to work rest of life
    I26 6 12
                   Reason for not working - no customers or work
    I26 7 12
                    Reason for not working - other
    I3 12
                   Have you ever/since last time we spoke, worked without
Wave 4:
    I16 15
                    Current labor force status
                    Reason respondent does not work: Dedicated to household
    I26_1_15
    126_2 15
                    Reason respondent does not work: Retired
    I26 3 15
                    Reason respondent does not work: Old age
    I26 4 15
                   Reason respondent does not work: Sick or temporarily di
    I26 5 15
                   Reason respondent does not work: Unable to work for res
                   Reason respondent does not work: Doesn't have customers
    I26 6 15
    I26 7 15
                   Reason respondent does not work: Other
    I3 15
                   Has respondent ever helped in a business, farm, or ranc
Wave 5:
   I16 18
                    Current labor force status
    I26 1 18
                    Reason R does not work: Dedicated to household chores
    I26_2_18
                   Reason R does not work: Retired
    I26_3_18
                   Reason R does not work: Old age
    I26_4_18
                    Reason R does not work: Sick or temporarily disabled
    I26_5_18
                    Reason R does not work: Unable to work for rest of life
    I26 6 18
                    Reason R does not work: Doesn't have customers or can't
    I26_7_18
                    Reason R does not work: Other
    I3 18
                    Has R ever helped in a business/farm/ranch without rece
```

Hours at Main Job

Wave	Variable	Label	Туре
1	R1JHOURSD	rljhoursd: w1 R Hours/day worked at main job	Cont
1	S1JHOURSD	sljhoursd: w1 S Hours/day worked at main job	Cont
2	R2JHOURS	r2jhours: w2 R Hours/week worked at main job	Cont
3	R3JHOURS	r3jhours: w3 R Hours/week worked at main job	Cont
4	R4JHOURS	r4jhours: w4 R Hours/week worked at main job	Cont
5	R5JHOURS	r5jhours: w5 R Hours/week worked at main job	Cont
2	S2JHOURS	s2jhours: w2 S Hours/week worked at main job	Cont
3	S3JHOURS	s3jhours: w3 S Hours/week worked at main job	Cont
4	S4JHOURS	s4jhours: w4 S Hours/week worked at main job	Cont
5	S5JHOURS	s5jhours: w5 S Hours/week worked at main job	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JHOURSD	6590	8.13	2.98	1.00	24.00
S1JHOURSD	4990	8.30	2.96	1.00	24.00
R2JHOURS R3JHOURS R4JHOURS R5JHOURS	5782 16771 17613 16718	44.03 14.91 13.31 18.71	20.29 24.25 22.86 25.85	1.00 0.00 0.00 0.00	99.00 168.00 168.00 168.00
S2JHOURS S3JHOURS S4JHOURS S5JHOURS	4405 4180 4234 2638	45.32 45.27 41.21 43.74	19.96 20.78 22.25 21.07	1.00 0.00 0.00 0.00	99.00 168.00 168.00 168.00

How Constructed

RWJHOURSD is the number of hours per day the respondent works in a normal day, and it ranges from 0 to 24. RwJHOURSD was only determined for Wave 1 using the following question: 'About how many hours do you work in a usual day?'. Respondents were not asked to provide the number of hours per day they worked each day in a normal week, but only to indicate a number of hours in one normal day as an average. RwJHOURSD is set to .w, if the respondent is currently not working (that is if RwWORK is 0). RwJHOURSD is also assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. RwJHOURSD is set to plain missing (.) for respondents who did not respond to the current wave.

While in Wave 1 it was only possible to determine the number of hours in a normal day, after Wave 2, the question was changed indicating the number of hours per day, in a normal week, for each day of the week. Therefore, a second variable RwJHOURS was created to indicate the number of hours per week the respondents work.

RwJHOURS indicates the number of hours per week the respondent works in a normal week, at their main job, and it has possible values from 0 to 168. After Wave 2, Respondents were asked 'Normally, which days and how many hours do you spend at your primary job?'. Respondents are then asked to give a number of hours for each day of week. RwJHOURS is the sum of the number of hours for each day of the week the respondent reported normally working. RwJHOURS is set to .w, if the respondent is currently not working (that is if RwWORK is 0). RwJHOURS is also assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. RwJHOURS is set to plain missing (.) for respondents who did not respond to the current wave.

SwJHOURS and SwJHOURSD are taken from the Wave 'w' spouse's value for RwJHOURS and RwJHOURSD. In addition to the special missing codes used in RwJHOURS and RwJHOURSD, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

In Wave 1, respondents were only asked to indicate a number of hours in one normal day (as an average). After Wave 2, the question was changed and respondents were asked to indicate the number of hours per day, in a normal week, for each day of the week. Therefore, two different variables were created, RwJHOURSD and RwJHOURS, to indicate the number of hours per day or per week (respectively) the respondents work.

Differences with the RAND HRS/Harmonized HRS

In the HRS, hours worked per week was collocated at all waves. Unlike the HRS, in the MHAS hours worked per week was only collected since Wave 2.

```
Wave 1:
    I1
                    ever had a job
    Ι2
                    job without payment
    Ι5
                    worked previous week
    Ι6
                    hours worked
Wave 2:
    I16
                    work status
    I17
                    when work at primary job
    I3
                    ever worked without pay
Wave 3:
    I16 12
                    Current work status
    I17_1_12
                    Normally: hours worked primary job - Monday
    I17_2_12
                    Normally: hours worked primary job - Tuesday
    I17_3_12
                    Normally: hours worked primary job - Wednesday
    I17_4_12
I17_5_12
                    Normally: hours worked primary job - Thursday
                    Normally: hours worked primary job - Friday
    I17_6_12
I17_7_12
                    Normally: hours worked primary job - Saturday
                    Normally: hours worked primary job - Sunday
                    Have you ever/since last time we spoke, worked without
    I3 12
Wave 4:
   I16 15
                    Current labor force status
    I17 1 15
                    Regularly, number of hours worked at primary job - Mond
    I17 2 15
                    Regularly, number of hours worked at primary job - Tues
    I17 3 15
                    Regularly, number of hours worked at primary job - Wedn
    I17 4 15
                    Regularly, number of hours worked at primary job - Thur
    I17 5 15
                    Regularly, number of hours worked at primary job - Frid
    I17_6_15
                    Regularly, number of hours worked at primary job - Satu
    I17_7_15
                    Regularly, number of hours worked at primary job - Sund
    I3 15
                    Has respondent ever helped in a business, farm, or ranc
Wave 5:
    I16 18
                    Current labor force status
    I17 1 18
                    Regularly, number of hours worked at primary job - Mond
    117 2 18
                    Regularly, number of hours worked at primary job - Tues
    117 3 18
                    Regularly, number of hours worked at primary job - Wedn
    I17 4 18
                    Regularly, number of hours worked at primary job - Thur
    117_5_18
                    Regularly, number of hours worked at primary job - Frid
```

I17_6_18	Regularly,	number	of	hours	worked	at	primary	job	-	Satu
I17_7_18	Regularly,	number	of	hours	worked	at	primary	job	-	Sund
I3_18	Has R ever	helped	in	a bus:	iness/fa	arm,	/ranch w	ithou	ıt	rece

Main Activity Years of Tenure

Wave	Variable	Label	Type
1	R1JCTEN	rljcten: w1 R Current job tenure	Cont
2	R2JCTEN	r2jcten: w2 R Current job tenure	Cont
3	R3JCTEN	r3jcten: w3 R Current job tenure	Cont
4	R4JCTEN	r4jcten: w4 R Current job tenure	Cont
5	R5JCTEN	r5jcten: w5 R Current job tenure	Cont
1	S1JCTEN	sljcten: w1 S Current job tenure	Cont
2	S2JCTEN	s2jcten: w2 S Current job tenure	Cont
3	S3JCTEN	s3jcten: w3 S Current job tenure	Cont
4	S4JCTEN	s4jcten: w4 S Current job tenure	Cont
5	S5JCTEN	s5jcten: w5 S Current job tenure	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JCTEN	6561	25.92	14.67	0.00	85.00
R2JCTEN	5709	24.54	17.13	1.00	80.00
R3JCTEN	5604	25.15	16.79	1.00	87.00
R4JCTEN	5505	24.55	18.04	1.00	85.00
R5JCTEN	6873	23.71	16.70	1.00	93.00
S1JCTEN	4965	25.82	14.34	0.00	85.00
S2JCTEN	4350	24.70	17.02	1.00	77.00
S3JCTEN	4148	25.60	16.69	1.00	85.00
S4JCTEN	3982	25.27	18.13	1.00	82.00
S5JCTEN	2604	26.70	18.63	1.00	93.00

How Constructed

RWJCTEN is the respondent's number of years of tenure on their current job. RWJCTEN is set to .w, if the respondent is currently not working (that is if RWWORK is 0). RWJCTEN is set to .i, if the number of years is greater than the respondent's age in the current wave. RWJCTEN is also assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. RWJCTEN is set to plain missing (.) for respondents who did not respond to the current wave.

SwJCTEN is taken from the Wave 'w' spouse's value for RwJCTEN. In addition to the special missing codes used in RwJCTEN, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2. Despite the differences across waves, the changes in the questions and dynamics of the section did not affect the outcome of RwJCTEN.

Differences with the RAND HRS/Harmonized HRS

No differences known.

Wave 1:	
I1	ever had a job
I13	years in main job
I2	job without payment
I5	worked previous week
Wave 2:	
I16	work status
I24	number of years at current primary job
I3	ever worked without pay
Wave 3:	
I16_12	Current work status
124_12	Number of years has worked on this type of activities/j
I3_12	Have you ever/since last time we spoke, worked without
Wave 4:	
I10_15	Number of years respondent has worked doing these type
I16_15	Current labor force status
I19_15	Current occupation: Are activities at respondent's cure
124_15	Number of years respondent has worked doing these type
I3_15	Has respondent ever helped in a business, farm, or ranc
Wave 5:	
I10_18	Number of years R has worked doing these type of activi
I16_18	Current labor force status
I19_18	Are activities at R's current job like those done in ma
124_18	Number of years R has worked doing these type of activi
I3_18	Has R ever helped in a business/farm/ranch without rece

Job Allows Move to Less Demanding Work

Wave	Variable	Label										Type
2	R2JREDHR	r2jredhr:	w2	R	Job	allows	move	to	less	demanding	work	Categ
3	R3JREDHR	r3jredhr:	wЗ	R	Job	allows	move	to	less	demanding	work	Categ
4	R4JREDHR	r4jredhr:	w4	R	Job	allows	move	to	less	demanding	work	Categ
5	R5JREDHR	r5jredhr:	w5	R	Job	allows	move	to	less	demanding	work	Categ
2	S2JREDHR	s2jredhr:	w2	S	Job	allows	move	to	less	demanding	work	Categ
3	S3JREDHR	s3jredhr:	wЗ	S	Job	allows	move	to	less	demanding	work	Categ
4	S4JREDHR	s4jredhr:	w4	S	Job	allows	move	to	less	demanding	work	Categ
5	S5JREDHR	s5iredhr:	w5	S	Job	allows	move	to	less	demanding	work	Cateo

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2JREDHR	5264	0.54	0.50	0.00	1.00
R3JREDHR	5354	0.46	0.50	0.00	1.00
R4JREDHR	5392	0.47	0.50	0.00	1.00
R5JREDHR	6651	0.44	0.50	0.00	1.00
S2JREDHR	3965	0.53	0.50	0.00	1.00
S3JREDHR	3937	0.45	0.50	0.00	1.00
S4JREDHR	3897	0.47	0.50	0.00	1.00
S5JREDHR	2492	0.49	0.50	0.00	1.00

Categorical Variable Codes

Value	R2JREDHR	R3JREDHR	R4JREDHR	R5JREDHR
.d:DK	36	11	55	25
.m:Missing	26		40	17
.p:Proxy interview, not asked	1178	1275	929	1328
.r:Refuse	21	. 9	8	41
<pre>.x:Not working/never worked</pre>	7179	9074	8355	9052
0.No	2424	2901	2833	3692
1.Yes	2840	2453	2559	2959
Value	S2JREDHF	s sjredhr	S4JREDHR	S5JREDHR
.d:DK	27	6	47	8
.m:Missing			10	2
.p:Proxy interview, not asked	821	. 726	470	560
.r:Refuse	14	6	5	17
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
.x:Not working/never worked	4731	5917	5223	4382
0.No	1872	2167	2075	1283
1.Yes	2093	1770	1822	1209

How Constructed

RwJREDHR indicates if the respondent could reduce the number of hours at work if they wanted, even if the salary would be reduced as well, and is set to 0.No or 1.Yes. RwJREDHR is only available starting in Wave 2. RwJREDHR is set to .x, if the respondent is currently not working (that is if RwWORK is 0). RwJREDHR is also assigned special missing values .d or .r, if they answered don't know or refused, respectively and it is also set to .p for proxy interviews. Other missing responses are assigned special missing value .m. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwJREDHR is taken from the Wave 'w' spouse's value for RwJREDHR. In addition to the special missing codes used in RwJREDHR, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. Starting in Wave 2, the question regarding the possibility of reducing the number of hours was added to the 'Current Work' questions.

Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes RwJGRREDHRA, which indicates the respondent's agreement that they would prefer to gradually reduce their hours. RwJREDHR indicates whether the respondent could reduce the number of hours of work if they wanted to. As such, these variables are not directly comparable and thus use different variable names.

Wave 2:	
I16	work status
I18	possible to decrease work hours
13	ever worked without pay
Wave 3:	
I16 12	Current work status
I18 ⁻ 12	If you wanted, could you decrease work hours
$\overline{13}$ $\overline{1}2$	Have you ever/since last time we spoke, worked without
Wave 4:	
I16 15	Current labor force status
I18 15	If respondent wanted to, could he/she decrease the numb
$13 \ \overline{1}5$	Has respondent ever helped in a business, farm, or ranc
Wave 5:	
I16 18	Current labor force status
I18 18	If R wanted to, could he/she decrease hours worked, eve
$13 \ \overline{1}8$	Has R ever helped in a business/farm/ranch without rece

Occupation Code for Job with Longest Reported Tenure

Wave	Variable	Label	Type
	R1JLOCC_M R2JLOCC M	r1jlocc_m: w1 R Longest job occupation code r2jlocc m: w2 R Longest job occupation code	Categ Categ
3	R3JLOCC M	r3jlocc m: w3 R Longest job occupation code	Categ
4	R4JLOCC M	r4jlocc m: w4 R Longest job occupation code	Categ
5	R5JLOCC_M	r5jlocc_m: w5 R Longest job occupation code	Categ
1	S1JLOCC M	sljlocc m: wl S Longest job occupation code	Categ
2	S2JLOCC M	s2jlocc m: w2 S Longest job occupation code	Categ
3	S3JLOCC M	s3jlocc m: w3 S Longest job occupation code	Categ
4	S4JLOCC M	s4jlocc m: w4 S Longest job occupation code	Categ
5	S5JLOCC_M	s5jlocc_m: w5 S Longest job occupation code	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JLOCC M	6667	9.62	4.60	1.00	19.00
R2JLOCC M	1771	12.11	4.37	1.00	19.00
R3JLOCC M	8460	10.49	4.81	1.00	18.00
R4JLOCC M	5641	10.35	4.73	1.00	18.00
R5JLOCC_M	8040	10.42	4.80	1.00	18.00
S1JLOCC M	5051	9.31	4.48	1.00	19.00
S2JLOCC M	1363	11.96	4.38	1.00	19.00
S3JLOCC M	6165	10.15	4.73	1.00	18.00
S4JLOCC M	4085	9.98	4.62	1.00	18.00
S5JLOCC M	2654	9.91	4.59	1.00	18.00

Categorical Variable Codes

Value	R1JLOCC M	R2JLOCC M	R3JLOCC M	R4JLOCC M	R5JLOCC M
.c: Job not classifiable	_	_	- 57	84	70
.d:DK	21	17	3	53	7
.m:Missing	42	30	1	42	22
.r:Refuse	29	6	6	6	18
.s:Skip		4066		2	4
.w:not working	8427	7814	7196	8951	8953
1.Professionals	222	13	267	187	226
2.Technicians	186	25	204	126	320
3.Educators	235	22	362	187	304
4.Workers in Art, Shows, and Sports	49	10	43	30	42
5.Officials and Directors Public, Privat	154	52	163	126	91
6.Workers in Agriculture, Livestock, For	1410	146	1198	932	1090
7.Bosses/Supervisors etc in Artistic, In	87	16	93	58	91
8.Artisans and Workers in Production, Re	1251	275	1535	1088	1558
9.Operators of Fixed Machinery and Equip	169	29	213	67	233
10.Asst/Laborers etc in Ind. Production,	170	41	191	80	164
11.Drivers and Asst Drivers of Mobile Ma	339	63	385	268	364
12.Department Heads/Coordinators/Supervi	127	17	117	72	111
13.Administrative Support Staff	292	80	517	232	443
14.Merchants and Sales Representatives	831	375	904	732	880
15.Traveling Salespeople and Traveling S	207	135	473	412	456
16.Workers in the Service Industry	348	219	797	567	796
17.Domestic Workers	420	137	748	358	671
18.Safety and Security Personnel	135	92	250	119	200
19.Other Workers	35	24			
Value	S1JLOCC_M	S2JLOCC_M	S3JLOCC_M	S4JLOCC_M	S5JLOCC_M
.c: Job not classifiable			46	71	<u>2</u> 9
.d:DK	10	15	1	44	2
.m:Missing	14	8	1	11	6

.r:Refuse	23	5	3	4	13
.s:Skip	23	3093	9	2	3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.w:not working	5550	5080	4376	5435	4754
1.Professionals	185	9	203	144	57
2.Technicians	136	23	145	81	98
3.Educators	180	14	269	136	70
4.Workers in Art, Shows, and Sports	39	5	33	24	14
5.Officials and Directors Public, Privat	125	42	130	94	42
6.Workers in Agriculture, Livestock, For	1141	125	963	775	560
7.Bosses/Supervisors etc in Artistic, In	76	15	75	47	22
8.Artisans and Workers in Production, Re	967	210	1175	810	564
9.Operators of Fixed Machinery and Equip	137	25	177	58	42
10.Asst/Laborers etc in Ind. Production,	134	34	148	63	39
11.Drivers and Asst Drivers of Mobile Ma	298	59	336	231	117
12.Department Heads/Coordinators/Supervi	96	14	86	57	32
13.Administrative Support Staff	209	66	346	158	97
14.Merchants and Sales Representatives	604	279	625	499	306
15.Traveling Salespeople and Traveling S	136	94	317	280	188
16.Workers in the Service Industry	240	169	518	353	223
17.Domestic Workers	211	86	416	183	122
18.Safety and Security Personnel	112	73	203	92	61
19.Other Workers	25	21			

How Constructed

RwJLOCC_M is the occupation code for the primary job performed most of their life. RwJLOCC_M was determined using the Mexican Classification of Occupations provided for the 2001 and 2003 data, and available at the MHAS website using the following links: (here) and (here).

RwJLOCC_M is set to .w, if the respondent is currently not working (that is if RwWORK is 0). In Wave 2, RwJLOCC_M is also set to special missing value .s to indicate that the 'Principal Occupation' questions are not available because they were skipped for follow-up interviews. RwJLOCC_M is also assigned special missing values .d or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. RwJLOCC_M is set to plain missing (.) for respondents who did not respond to the current wave.

SwJLOCC_M is taken from the Wave 'w' spouse's value for RwJLOCC_M. In addition to the special missing codes used in RwJLOCC_M, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable.

RwJLOCC_M was determined using the occupation codes provided in the MHAS raw variables and the occupations classification from the Mexican Classification of Occupations provided for the 2001 and 2003 data. Since the codes included in the Mexican classification of occupations are particular to Mexico and considered different from the set of codes used to create the RAND HRS variable, RwJLOCC_M was created as an MHAS specific variable.

MHAS Variables Used

Wave 1:

I1 ever had a job

I2	job without payment
I5	worked previous week
I9	main job
Wave 2:	
I19	current work roles similar to past roles
I20	principal functions in current primary job
I3	ever worked without pay
I6	principal functions at primary job
Wave 3:	
I20 12	
$\overline{13}$ $\overline{1}2$	Have you ever/since last time we spoke, worked without
I6 ¹ 2	
Wave 4:	
I16 15	Current labor force status
I19 ⁻ 15	Current occupation: Are activities at respondent's cure
I20 ⁻ 15	Classification of occupation for respondent's current p
I3 15	Has respondent ever helped in a business, farm, or ranc
I6 ⁻ 15	Classification of occupation for respondent's primary j
Wave 5:	
I16 18	Current labor force status
I19 ⁻ 18	Are activities at R's current job like those done in ma
I20 <u>1</u> 8	Classification of occupation for R's current primary jo
I3_ 1 8	Has R ever helped in a business/farm/ranch without rece
 I6 18	Classification of occupation for R's primary job

Year Last Job Ended

Wave	Variable	Label	Type
2	R2JLASTY	r2jlasty: w2 R Year last job ended	Cont
3	R3JLASTY	r3jlasty: w3 R Year last job ended	Cont
4	R4JLASTY	r4jlasty: w4 R Year last job ended	Cont
5	R5JLASTY	r5jlasty: w5 R Year last job ended	Cont
2	S2JLASTY	s2jlasty: w2 S Year last job ended	Cont
3	S3JLASTY	s3jlasty: w3 S Year last job ended	Cont
4	S4JLASTY	s4jlasty: w4 S Year last job ended	Cont
5	S5JLASTY	s5jlasty: w5 S Year last job ended	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2JLASTY	2353	1988.76	13.97	1917.00	2003.00
R3JLASTY	2429	1991.43	19.54	1907.00	2012.00
R4JLASTY	3698	1988.66	23.09	1922.00	2015.00
R5JLASTY	2887	1993.47	21.97	1918.00	2019.00
S2JLASTY	1515	1988.87	13.88	1917.00	2003.00
S3JLASTY	1656	1992.38	18.69	1907.00	2012.00
S4JLASTY	2253	1990.50	22.11	1932.00	2015.00
S5JLASTY	1132	1992.56	22.86	1932.00	2019.00

How Constructed

RwJLASTY is the year when the respondent last worked. RwJLASTY is not available for Wave 1. In Wave 2, RwJLASTY is the year reported by the respondent. Starting in Wave 3, RwJLASTY is the year reported by the respondent or it is calculated using the reported number of years since they last worked and the year of the interview. RwJLASTY is set to .s, if the respondent is currently working (that is if RwWORK is 1) and .n if the respondent has never worked. It is also set to .p for proxy interviews. RwJLASTY is set to .i if the year is after the year of the current interview. RwJLASTY is also assigned special missing values .d, or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. RwJLASTY is set to plain missing (.) for respondents who did not respond to the current wave.

SwJLASTY is taken from the Wave 'w' spouse's value for RwJLASTY. In addition to the special missing codes used in RwJLASTY, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are slightly different from the questions used to determine the RAND HRS variable. In the MHAS, the question regarding the year last job ended is only asked if the respondent reported they are not currently working and is skipped for proxy interviews, without regard to the working status reported in the previous interview (if any). However, in the HRS, in an interview where the respondent is not working they are asked when the previous interview job ended.

Wave 2:	
I16	work status
127	ever worked without pay
129	when leave last job
I3	ever worked without pay
Wave 3:	
A2A2_3_12	Correct year of birth
AA2_3_12	Year of birth
I16_1 2	Current work status
I27 ⁻ 12	(Follow-up person) Ever worked without pay
I29 ⁻ 1 12	In what year did you leave your last job
129_2_12	How many years ago did you leave your last job
I3 12	Have you ever/since last time we spoke, worked without
Wave 4:	
A2A2_3_15	Correct year of birth
AA2_3_15	Year of birth
I16_1 5	Current labor force status
127_15	(Only for follow-up interviews) Has respondent ever wor
I29 <u>_</u> 1_15	Year the respondent left his/her last job
129_2_15	How many years ago did respondent leave his/her last jo
I3_15	Has respondent ever helped in a business, farm, or ranc
Wave 5:	
A2A2_3_18	Correct year of birth
AA2_3_18	Year of birth
I16_1 8	Current labor force status
127_18	(Follow-ups only) R ever worked in firm/self-employed a
129_1_18	Year the R left his/her last job
129_2_18	How many years ago did R leave his/her last job
I3_18	Has R ever helped in a business/farm/ranch without rece
-	

Reason Job Ended

Wave	Variable	Label	Type
2	R2JRSLEFT	r2jrsleft: w2 R Reason last job ended	Categ
3	R3JRSLEFT	r3jrsleft: w3 R Reason last job ended	Categ
4	R4JRSLEFT	r4jrsleft: w4 R Reason last job ended	Categ
5	R5JRSLEFT	r5jrsleft: w5 R Reason last job ended	Categ
2	S2JRSLEFT	s2jrsleft: w2 S Reason last job ended	Cateq
3	S3JRSLEFT	s3jrsleft: w3 S Reason last job ended	Categ
4	S4JRSLEFT	s4jrsleft: w4 S Reason last job ended	Categ
5	S5JRSLEFT	s5jrsleft: w5 S Reason last job ended	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2JRSLEFT	2433	4.15	2.21	1.00	8.00
R3JRSLEFT	2505	4.34	2.44	1.00	8.00
R4JRSLEFT	3748	4.16	2.45	1.00	8.00
R5JRSLEFT	3068	4.13	2.34	1.00	8.00
S2JRSLEFT	1558	4.05	2.20	1.00	8.00
S3JRSLEFT	1707	4.30	2.45	1.00	8.00
S4JRSLEFT	2281	4.09	2.47	1.00	8.00
S5JRSLEFT	1192	3.87	2.40	1.00	8.00

Categorical Variable Codes

Value	- R2JRSLEFT	R3JRSLEFT	R4JRSLEFT	R5JRSLEFT
.d:DK	1	3	44	15
.m:Missing	1 26		40	17
.n:never worked	4752	6566	4606	5941
.p:Proxy interview, not asked	1178	1275	929	1328
.r:Refuse	4	11	7	48
.w:working	5305	5363	5405	6697
1.Retired	536	543	962	714
3.Laid off	259	393	430	411
4.Health reason	552	437	835	735
5.Family reason	705	548	727	623
8.Other	381	584	794	585
Value	- S2JRSLEFT	S3JRSLEFT	S4JRSLEFT	S5JRSLEFT
.d:DK	1	1	39	1
.m:Missing	1		10	2
.n:never worked	3182	4208	2941	3181
.p:Proxy interview, not asked	821	726	470	560
.r:Refuse	1	7	4	18
.u:Unmar	4009	4782	4847	5227
.v:SP NR	131	349	280	501
.w:working	3992	3943	3907	2507
1.Retired	367	387	623	345
3.Laid off	177	273	255	162
4.Health reason	331	272	490	291
5.Family reason	459	382	439	179
8.Other	224	393	474	215

How Constructed

RwJRSLEFT indicates the reason the respondent left their last job and is only available starting in Wave 2. Starting in Wave 2, this question is asked to every respondent, from the follow-up and new sample, that is not working and has ever worked. RwJRSLEFT is set to 1. if the respondent retired, 2. if fired, 3. if laid off (including source of work closed, temporary work ended, or business moved), 4. for health

reason or due to sickness, 5. for family reason or to care for children, 6. if got a new job, 7. if respondent quit, and 8. if any other reason (including made too little money, schedule was inconvenient, job was not related to studies or training). RwJRSLEFT is set to .w, if the respondent is currently working (that is if RwWORK is 1) and .n if the respondent reported in the current wave that they have never worked. It is also set to .p for proxy interviews. RwJRSLEFT is also assigned special missing values .d, or .r, if they answered don't know or refused, respectively. Other missing responses are assigned special missing value .m. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwJRSLEFT are taken from the Wave 'w' spouse's value for RwJRSLEFT. In addition to the special missing codes used in RwJRSLEFT, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment Section changed between Wave 1, 2 and 3. Starting in Wave 2, the 'Reason the Respondent left last job' questions were added for both follow-up ad new sample interviews.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are slightly different from the questions used to determine the RAND HRS variable. In the MHAS, the question regarding the year last job ended is only asked if the respondent reported they are not currently working and is skipped for proxy interviews, without regard to the working status reported in the previous interview (if any). However, in the HRS, in an interview where the respondent is not working they are asked when the previous interview job ended.

```
Wave 2:
    T16
                    work status
    I27
                    ever worked without pay
    I28
                    reason for leaving last job
    Ι3
                    ever worked without pay
Wave 3:
    I16 12
                    Current work status
    I27 12
                    (Follow-up person) Ever worked without pay
    I28 01 12
                    Reason left last job - work closed/bankrupt
                    Reason left last job - it was temporary
    I28 02 12
    I28 03 12
                    Reason left last job - the business moved
                    Reason left last job - made too little money
    I28_04_12
                    Reason left last job - inconvenient work schedule
    I28 05 12
    128 06 12
                    Reason left last job - not related to training/studies
                    Reason left last job - to care for children/family memb
    128_07_12
    I28 08 12
                    Reason left last job - due to sickness
                    Reason left last job - retirement
    I28 09 12
                    Reason left last job - other
    I28 10 12
                    Reason left last job - RF
    I28 88 12
    I28 99 12
                    Reason left last job - DK
    I3 12
                    Have you ever/since last time we spoke, worked without
Wave 4:
    I16 15
                    Current labor force status
    127_15
                    (Only for follow-up interviews) Has respondent ever wor
    I28 01 15
                    Reason respondent left his/her last job: Source of work
                    Reason respondent left his/her last job: It was tempora
    I28 02 15
                    Reason respondent left his/her last job: The business {\tt m}
    I28 03 15
    I28 04 15
                    Reason respondent left his/her last job: Made too littl
    128 05 15
                    Reason respondent left his/her last job: The work sched
    I28 06 15
                    Reason respondent left his/her last job: It wasn't rela
                    Reason respondent left his/her last job: To care for \operatorname{ch}
    128 07 15
    I28 08 15
                    Reason respondent left his/her last job: Due to sicknes
    I28 09 15
                    Reason respondent left his/her last job: Retirement
```

```
I28 10 15
                    Reason respondent left his/her last job: Other
    128 88 15
                    Reason respondent left his/her last job: RF
    128 99 15
                    Reason respondent left his/her last job: DK
    I3_15
                    Has respondent ever helped in a business, farm, or ranc
Wave 5:
   I16 18
                    Current labor force status
   I27 18
                    (Follow-ups only) R ever worked in firm/self-employed a
   I28 01 18
                    Reason R left last job: Source of work closed down/cut
   I28_02_18
                    Reason R left his/her last job: It was temporary and th
   128_03_18
                    Reason R left his/her last job: The business moved
   128_04_18
                    Reason R left his/her last job: Made too little money
                    Reason R left his/her last job: The work schedule was i
   I28_05_18
   I28_06_18
                    Reason R left his/her last job: It wasn't related to hi
    I28 07 18
                    Reason R left his/her last job: To care for children or
   128_08_18
                    Reason R left his/her last job: Due to sickness
   128_09_18
                    Reason R left his/her last job: Retirement
   128 10 18
                    Reason R left his/her last job: Other
   I28_88_18
                    Reason R left his/her last job: RF
   128_99_18
                    Reason R left his/her last job: DK
   I3_18
                    Has R ever helped in a business/farm/ranch without rece
```

Section I: Retirement

Whether Retired: Retirement year, if says retired

Wave	Variable	Label	Type
2	R2RETYR	r2retyr: w2 R Whether retired: Retirement year	Cont
3	R3RETYR	r3retyr: w3 R Whether retired: Retirement year	Cont
4	R4RETYR	r4retyr: w4 R Whether retired: Retirement year	Cont
5	R5RETYR	r5retyr: w5 R Whether retired: Retirement year	Cont
2	S2RETYR	s2retyr: w2 S Whether retired: Retirement year	Cont
3	S3RETYR	s3retyr: w3 S Whether retired: Retirement year	Cont
4	S4RETYR	s4retyr: w4 S Whether retired: Retirement year	Cont
5	S5RETYR	s5retyr: w5 S Whether retired: Retirement year	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RETYR	596	1993.20	7.58	1957.00	2003.00
R3RETYR	654	1998.40	15.56	1935.00	2012.00
R4RETYR	1245	2001.56	13.42	1941.00	2015.00
R5RETYR	861	2002.69	16.55	1942.00	2018.00
S2RETYR	406	1994.31	6.79	1957.00	2003.00
S3RETYR	452	1998.45	16.16	1935.00	2012.00
S4RETYR	773	2002.99	12.63	1941.00	2015.00
S5RETYR	401	2002.82	15.80	1942.00	2018.00

How Constructed

RWRETYR is derived only for respondents who reported they are retired, and it is only available starting in Wave 2. In Wave 2, it is directly taken from the year reported by the respondent. However, starting in Wave 3 the respondent was allowed to give the year of retirement or the number of years they have been retired. If the respondent reported the number of years, RwRETYR was derived using the year of the interview and the reported number of years since retirement.

RWRETYR is assigned special missing values .d or .r, if they answered don't know or refused, respectively. It is assigned .p for proxy interviews. RWRETYR is set to special missing value .n if the respondent reported they have never worked, is currently unemployed, or is currently working. RWRETYR is also assigned the special missing value .m if the section was not completed. RWRETYR is set to plain missing (.) for respondents who did not respond to the current wave.

SwRETYR is taken from the Wave 'w' spouse's value for RwRETYR. In addition to the special missing codes used in RwRETYR, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

The retirement questions are only included after Wave 2. In addition, starting at Wave 3 respondents are allowed to give either the year of retirement or the number of years since they retired.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from

the questions used to determine the RAND HRS variable. MHAS does not consider any different retirement statuses such as partial retirement. Also, MHAS does not ask any questions regarding the probability of retirement or expectations related to the respondents' future retirement.

Wave 2:	
I16	work status
126	main reason for not working
I28	reason for leaving last job
I29	when leave last job
13	ever worked without pay
Wave 3:	1 1
I16 12	Current work status
I26 ² 12	Reason for not working - retired
127 12	(Follow-up person) Ever worked without pay
I28 09 12	Reason left last job - retirement
129 1 12	In what year did you leave your last job
I29 2 12	How many years ago did you leave your last job
12 12	Have you ever/since last time we spoke, worked for pay
I3 12	Have you ever/since last time we spoke, worked without
Wave 4:	have you every bilined labe time we opone, worked without
I16 15	Current labor force status
126 2 15	Reason respondent does not work: Retired
127 15	(Only for follow-up interviews) Has respondent ever wor
I28 09 15	Reason respondent left his/her last job: Retirement
129 1 15	Year the respondent left his/her last job
129 2 15	How many years ago did respondent leave his/her last jo
12 15	Has respondent ever had a job for which he/she received
I3 15	Has respondent ever helped in a business, farm, or rance
Wave 5:	has respondent ever herped in a business, raim, or raine
I16 18	Current labor force status
126 2 18	Reason R does not work: Retired
120_2_10	(Follow-ups only) R ever worked in firm/self-employed a
128 09 18	Reason R left his/her last job: Retirement
120_05_10	Year the R left his/her last job
I29_2_18	How many years ago did R leave his/her last job
I2_18	Has R ever had a job for which he/she received a paymen
13_18	Has R ever helped in a business/farm/ranch without rece

Whether Retired: Retirement age, if says retired

Wave	Variable	Label							T	Гуре
2	R2RETAGE	r2retage:	w2	R	Whether	retired:	Retirement	age		Cont
3	R3RETAGE	r3retage:	wЗ	R	Whether	retired:	Retirement	age		Cont
4	R4RETAGE	r4retage:	w4	R	Whether	retired:	Retirement	age		Cont
5	R5RETAGE	r5retage:	w5	R	Whether	retired:	Retirement	age	C	Cont
2	S2RETAGE	s2retage:	w2	S	Whether	retired:	Retirement	age		Cont
3	S3RETAGE	s3retage:	wЗ	S	Whether	retired:	Retirement	age		Cont
4	S4RETAGE	s4retage:	w4	S	Whether	retired:	Retirement	age		Cont
5	S5RETAGE	s5retage:	w5	S	Whether	retired:	Retirement	aσe		Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2RETAGE	595	58.57	9.31	21.00	89.00
R3RETAGE	653	51.87	15.30	0.00	82.00
R4RETAGE	1245	56.94	12.75	0.00	89.00
R5RETAGE	858	53.79	15.87	1.00	86.00
S2RETAGE	405	58.41	8.57	31.00	85.00
S3RETAGE	451	51.41	15.90	0.00	81.00
S4RETAGE	773	57.29	12.58	0.00	89.00
S5RETAGE	401	56.43	15.15	1.00	86.00

How Constructed

RWRETAGE indicates the age the respondent retired, is derived only for respondents who reported they are retired, and it is only available starting in Wave 2. In Wave 2, it is derived using the year of retirement reported by the respondent and the birth year (taken from RABYEAR). Starting in Wave 3 the respondent was allowed to give the year of retirement or the number of years they have been retired. If the respondent reported their year of retirement, RwRETAGE is derived in the same way it was constructed in Wave 2, using the year of retirement reported by the respondent and the birth year (taken from RABYEAR). However, if the respondent reported the number of years, RwRETAGE was derived using the age and the reported number of years since retirement.

RWRETAGE is assigned special missing values .d or .r, if they answered don't know or refused, respectively. It is assigned .p for proxy interviews. RwRETAGE is set to special missing value .n if the respondent reported they have never worked, is currently unemployed, or is currently working. RwRETAGE is also assigned the special missing value .m if the section was not completed. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SWRETAGE is taken from the Wave 'w' spouse's value for RwRETAGE. In addition to the special missing codes used in RwRETAGE, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The MHAS Employment section changed between Wave 1, 2 and 3. The wording of the questions was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' questions. Also the dynamics of the section, determined by the skip patterns, was modified across these waves. In Wave 2, the 'Work History' and 'Principal Occupation' questions are only asked to new subjects. The number of questions included in the section also changed after Wave 2.

The retirement questions are only included after Wave 2. In addition, starting at Wave 3 respondents are allowed to give either the year of retirement or the number of years since they retired.

Differences with the RAND HRS/Harmonized HRS

The questions used from the MHAS to determine this harmonized variable are significantly different from the questions used to determine the RAND HRS variable. MHAS does not consider any different retirement statuses such as partial retirement. Also, MHAS does not ask any questions regarding the probability of retirement or expectations related to the respondents' future retirement.

```
Wave 2:
    AA2 2
                     dob - month
    AA2 3
                     dob - year
    I16
                     work status
    T26
                     main reason for not working
    I28
                     reason for leaving last job
                     when leave last job
    I29
                     ever worked without pay
    Ι3
Wave 3:
    A2A2 2 12
                     Correct month of birth
    A2A2 3 12
                     Correct year of birth
    AA2 \overline{2} \overline{1}2
                     Month of birth
    AA2 3 12
                     Year of birth
    116^{-}1\overline{2}
                     Current work status
    I26 2 12
                     Reason for not working - retired
    I27 12
                     (Follow-up person) Ever worked without pay
    I28 09 12
                     Reason left last job - retirement
    I29 1 12
                     In what year did you leave your last job
    I29 2 12
                     How many years ago did you leave your last job
    I2 12
                     Have you ever/since last time we spoke, worked for pay
    I3_12
                     Have you ever/since last time we spoke, worked without
Wave 4:
    A2A2 2 15
                     Correct month of birth
    A2A2_3_15
                     Correct year of birth
    AA2 2 15
                     Month of birth
    AA2 3 15
                     Year of birth
    I16 15
                     Current labor force status
    I26 2 15
                     Reason respondent does not work: Retired
    I27 15
                     (Only for follow-up interviews) Has respondent ever wor
    I28 09 15
                     Reason respondent left his/her last job: Retirement
    I29 1 15
                     Year the respondent left his/her last job
    I29 2 15
                     How many years ago did respondent leave his/her last jo
    I2 15
                     Has respondent ever had a job for which he/she received
    I3 15
                     Has respondent ever helped in a business, farm, or ranc
Wave 5:
    A2A2_2_18
                     Correct month of birth
    A2A2_3_18
                     Correct year of birth
    AA2_{\overline{2}}\overline{18}

AA2_{\overline{3}}18
                     Month of birth
                     Year of birth
    I16 18
                     Current labor force status
    I26 2 18
                     Reason R does not work: Retired
    I27 18
                     (Follow-ups only) R ever worked in firm/self-employed a
    I28 09 18
                     Reason R left his/her last job: Retirement
    I29 1 18
                     Year the R left his/her last job
    129 2 18
                     How many years ago did R leave his/her last job
    I2 18
                     Has R ever had a job for which he/she received a paymen
    I3 18
                     Has R ever helped in a business/farm/ranch without rece
```

Section J: Pension

Whe	ther	R	Parian	Puh	lic	Pension
** 110		17.		,		1 61121011

Wave	Variable	Label	Type
1	R1PUBPEN	rlpubpen: w1 R Whether receives public pension	Categ
2	R2PUBPEN	r2pubpen: w2 R Whether receives public pension	Categ
3	R3PUBPEN	r3pubpen: w3 R Whether receives public pension	Categ
4	R4PUBPEN	r4pubpen: w4 R Whether receives public pension	Categ
5	R5PUBPEN	r5pubpen: w5 R Whether receives public pension	Categ
1	S1PUBPEN	slpubpen: w1 S Whether receives public pension	Categ
2	S2PUBPEN	s2pubpen: w2 S Whether receives public pension	Categ
3	S3PUBPEN	s3pubpen: w3 S Whether receives public pension	Categ
4	S4PUBPEN	s4pubpen: w4 S Whether receives public pension	Categ
5	S5PUBPEN	s5pubpen: w5 S Whether receives public pension	Cated

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUBPEN	15326	0.13	0.33	0.00	1.00
R2PUBPEN	13665	0.16	0.36	0.00	1.00
R3PUBPEN	15691	0.19	0.39	0.00	1.00
R4PUBPEN	14718	0.22	0.42	0.00	1.00
R5PUBPEN	16819	0.19	0.39	0.00	1.00
S1PUBPEN	10833	0.10	0.30	0.00	1.00
S2PUBPEN	9551	0.12	0.33	0.00	1.00
S3PUBPEN	10581	0.15	0.36	0.00	1.00
S4PUBPEN	9643	0.18	0.39	0.00	1.00
S5PUBPEN	7447	0.20	0.40	0.00	1.00

Categorical Variable Codes

Value	R1PUBPEN	R2PUBPEN	R3PUBPEN	R4PUBPEN	R5PUBPEN
.d:DK	2	5	18	17	261
.m:Missing	59	31	2	34	20
.r:Refuse	3	3	12	10	14
0.No	13355	11544	12781	11429	13573
1.Yes	1971	2121	2910	3289	3246
Value	S1PUBPEN	S2PUBPEN	S3PUBPEN	S4PUBPEN	S5PUBPEN
.d:DK	1	3	3	2	9
.m:Missing	16	8	2	4	
.r:Refuse	2	2	6	3	5
.u:Unmar	4051	4009	4782	4847	5227
.v:SP NR	283	131	349	280	501
0.No	9759	8362	8987	7862	5928
1.Yes	1074	1189	1594	1781	1519

How Constructed

RWPUBPEN indicates whether the respondent is currently receiving any public pension, from retirement or widowhood. Public pension refers only to retirement and it includes pensions from IMSS, ISSSTE, or other public institution (PEMEX, DEFENSE, NAVY, CFE, BANXICO). Other pensions such as Disability or Work Accident, or Other Pensions are included in the MHAS but not in the construction of RwPUBPEN.

A value 0 indicates the respondent is not receiving any public pension. A value of 1 indicates the respondent is receiving at least one public pension. RwPUBPEN is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwPUBPEN is also assigned the special missing

value .m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwPUBPEN indicates whether the current wave's spouse is receiving any public pension, and is taken from the spouse's values of RwPUBPEN. In addition to the special missing codes used in RwPUBPEN, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Pension questions are asked only to the financial respondent about the financial respondent's pension income and, if married, the financial respondent's spouse's pension income. If the respondent is the financial respondent, then measures concerning the financial respondent are assigned to the respondent and those about the financial respondent's spouse are assigned to the respondent's spouse. However, if the respondent's spouse is the financial respondent, then measures about the financial respondent are assigned to the respondent's spouse and those concerning the financial respondent's spouse are assigned to the respondent.

Cross Wave Differences in MHAS

The pension income questions in the MHAS, from Section K (Pension, Income and Assets), changed across waves. In Waves 1 and 2, the financial respondent had the option to report only one pension. In Waves 3 and 4 they can report up to three different pensions, for both retirement and widowhood pensions. Starting in Wave 5 they can report up to two different pensions, for both retirement and widowhood pensions.

Differences with the RAND HRS/Harmonized HRS

RWPUBPEN in the MHAS is comparable to RASSRECV in the RAND HRS. While RwPUBPEN indicates whether the MHAS respondent is receiving any public pension at each wave, RASSRECV indicates whether the respondent to HRS received social security income at any wave. Components included in Harmonized MHAS and RAND HRS are slightly different for public pensions representing different institutional arrangements in each country. However, we kept the concepts included as comparable as possible. In the MHAS, any public pension includes pensions from IMSS, ISSSTE, or other public institution (PEMEX, DEFENSE, NAVY, CFE, BANXICO).

```
Wave 1:
   K55A
                    retirement pension
   K56 1
                    source of retirement pension
    K61A
                    spouse received retirement pension
   K62 1
                    source of retirement pension of spouse
Wave 2:
   K58A
                    retirement pension
                    source of retirement pension
   K59A
    K64C
                    spouse received retirement pension
   K65C
                    source of retirement pension of spouse
Wave 3:
   K58A 12
                    Last year: Respondent retirement income pension
   K59_1_01_12
                    Respondent's retirement pension source_IMSS
   K59_1_02_12
                    Respondent's retirement pension source ISSSTE
   K59_1_03_12
                    Respondent's retirement pension source Other Public Sec
    K64C_12
                    Last year: Respondent's spouse received retirement pen
   K65 1 01 12
                    Spouse's retirement pension source IMSS
   K65 1 02 12
                    Spouse's retirement pension source ISSSTE
   K65 1 03 12
                    Spouse's retirement pension source Other Public Service
Wave 4:
                    Last year: Did respondent receive pension income from r
   K58A 15
                    Respondent's retirement pension source: IMSS
   K59 1 01 15
   K59 1 02 15
                    Respondent's retirement pension source: ISSSTE
   K59 1 03 15
                    Respondent's retirement pension source: Other Public
    K59 2 01 15
                    Respondent's widowhood pension source: IMSS
   K59 2 02 15
                    Respondent's widowhood pension source: ISSSTE
```

K59_2_03_15 K64C_15 K65_1_01_15 K65_1_02_15 K65_1_03_15 K65_2_01_15 K65_2_02_15 K65_2_03_15 Wave 5:	Respondent's widowhood pension source: Other Public Last year: Did respondent's spouse receive retirement p Spouse's retirement pension source: IMSS Spouse's retirement pension source: ISSSTE Spouse's retirement pension source: Other Public Spouse's widowhood pension income source: IMSS Spouse's widowhood pension income source: ISSSTE Spouse's widowhood pension income source: Other Public
K58A_18	Last year: Did respondent receive pension income from r
K59_1_1_18	Respondent's retirement pension source (First Pension)
K59 1 2 18	Respondent's retirement pension source (Second Pension)
K59 2 1 18	Respondent's widowhood pension source (First Pension)
K59 2 2 18	Respondent's widowhood pension source (Second Pension)
K64C 18	Last year: Did respondent's spouse receive retirement p
к65 <u>Т</u> 1 18	Spouse's retirement pension source (First Pension)
K65 1 2 18	Spouse's retirement pension source (Second Pension)
K65 2 1 18	Spouse's widowhood pension income source (First Pension
K65_2_2_18	Spouse's widowhood pension income source (Second Pensio

Wave	Variable	Label	Type
1	R1PENINC	rlpeninc: w1 R Whether receives private pension	Categ
2	R2PENINC	r2peninc: w2 R Whether receives private pension	Categ
3	R3PENINC	r3peninc: w3 R Whether receives private pension	Categ
4	R4PENINC	r4peninc: w4 R Whether receives private pension	Categ
5	R5PENINC	r5peninc: w5 R Whether receives private pension	Categ
1	S1PENINC	slpeninc: w1 S Whether receives private pension	Categ
2	S2PENINC	s2peninc: w2 S Whether receives private pension	Categ
3	S3PENINC	s3peninc: w3 S Whether receives private pension	Categ
4	S4PENINC	s4peninc: w4 S Whether receives private pension	Categ
5	S5PENINC	s5peninc: w5 S Whether receives private pension	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PENINC	15326	0.00	0.04	0.00	1.00
R2PENINC	13665	0.00	0.04	0.00	1.00
R3PENINC	15691	0.00	0.04	0.00	1.00
R4PENINC	14718	0.00	0.04	0.00	1.00
R5PENINC	16819	0.00	0.04	0.00	1.00
S1PENINC	10833	0.00	0.04	0.00	1.00
S2PENINC	9551	0.00	0.04	0.00	1.00
S3PENINC	10581	0.00	0.03	0.00	1.00
S4PENINC	9643	0.00	0.02	0.00	1.00
S5PENINC	7447	0.00	0.04	0.00	1.00

Categorical Variable Codes

Value	R1PENINC	R2PENINC	R3PENINC	R4PENINC	R5PENINC
.d:DK	2	5	18	17	261
.m:Missing	59	31	2	34	20
.r:Refuse	3	3	12	10	14
0.No	15299	13646	15669	14699	16790
1.Yes	27	19	22	19	29
77-1	C1 DENTING	CODENING	CODENTING	CADENING	GEDENING
Value	S1PENINC	S2PENINC	S3PENINC	S4PENINC	S5PENINC
.d:DK	1	3	3	2	9
.m:Missing	16	8	2	4	
.r:Refuse	2	2	6	3	5
.u:Unmar	4051	4009	4782	4847	5227
.v:SP NR	283	131	349	280	501
0.No	10819	9538	10572	9637	7434
1.Yes	14	13	9	6	13

How Constructed

RWPENINC indicates whether the respondent is currently receiving a private pension, from retirement or widowhood. Other pensions such as Disability or Work Accident, or Other Pensions are included in the MHAS but not in the construction of RwPENINC.

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. RwPENINC is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwPENINC is also assigned the special missing value .m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwPENINC indicates whether the current wave's spouse is receiving a private pension, and is taken from the spouse's values of RwPENINC. In addition to the special missing codes used in RwPENINC, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Pension questions are asked only to the financial respondent about the financial respondent's pension income and, if married, the financial respondent's spouse's pension income. If the respondent is the financial respondent, then measures concerning the financial respondent are assigned to the respondent and those about the financial respondent's spouse are assigned to the respondent's spouse. However, if the respondent's spouse is the financial respondent, then measures about the financial respondent are assigned to the respondent's spouse and those concerning the financial respondent's spouse are assigned to the respondent.

Cross Wave Differences in MHAS

The pension income questions in the MHAS, from Section K (Pension, Income and Assets), changed across waves. In Waves 1 and 2, the financial respondent had the option to report only one pension. In Waves 3 and 4 they can report up to three different pensions, for both retirement and widowhood pensions. Starting in Wave 5 they can report up to two different pensions, for both retirement and widowhood pensions.

Differences with the RAND HRS/Harmonized HRS

Components included in Harmonized MHAS 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.

```
Wave 1:
   K55A
                    retirement pension
   K56 1
                    source of retirement pension
   K61A
                    spouse received retirement pension
                    source of retirement pension of spouse
   K62 1
Wave 2:
   K58A
                    retirement pension
    K59A
                    source of retirement pension
    K64C
                    spouse received retirement pension
   K65C
                    source of retirement pension of spouse
Wave 3:
   K58A 12
                    Last year: Respondent retirement income pension
   K59 1 04 12
                    Respondent's retirement pension source Private
    K64C 12
                    Last year: Respondent's spouse received retirement pen
   K65 1 04 12
                    Spouse's retirement pension source Private
Wave 4:
   K58A 15
                    Last year: Did respondent receive pension income from r
   K59 1 04 15
                    Respondent's retirement pension source: Private
   K59_2_04_15
                    Respondent's widowhood pension source: Private
   K64C 15
                    Last year: Did respondent's spouse receive retirement p
   K65_1_04_15
                    Spouse's retirement pension source: Private
   K65_2_04_15
                    Spouse's widowhood pension income source: Private
Wave 5:
   K58A 18
                    Last year: Did respondent receive pension income from r
   K59 1 1_18
                    Respondent's retirement pension source (First Pension)
   K59 1 2 18
                    Respondent's retirement pension source (Second Pension)
   K59 2 1 18
                    Respondent's widowhood pension source (First Pension)
   K59 2 2 18
                    Respondent's widowhood pension source (Second Pension)
   K64C 18
                    Last year: Did respondent's spouse receive retirement p
   K65 1 1 18
                    Spouse's retirement pension source (First Pension)
   K65 1 2 18
                    Spouse's retirement pension source (Second Pension)
```

Wheth	ier R	eceives	Other	Pension

Wave	Variable	Label								Type
1	R1OPEN	rlopen:	w1	R	Whether	receives	any	other	pension	Categ
2	R2OPEN	r2open:	w2	R	Whether	receives	any	other	pension	Categ
3	R30PEN	r3open:	wЗ	R	Whether	receives	any	other	pension	Categ
4	R4OPEN	r4open:	w4	R	Whether	receives	any	other	pension	Categ
5	R5OPEN	r5open:	w5	R	Whether	receives	any	other	pension	Categ
1	S1OPEN	slopen:	w1	S	Whether	receives	any	other	pension	Categ
2	S2OPEN	s2open:	w2	S	Whether	receives	any	other	pension	Categ
3	S30PEN	s3open:	wЗ	S	Whether	receives	any	other	pension	Categ
4	S4OPEN	s4open:	w4	S	Whether	receives	any	other	pension	Categ
5	S50PEN	s5open:	w5	S	Whether	receives	any	other	pension	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OPEN	15326	0.01	0.09	0.00	1.00
R2OPEN	13665	0.01	0.10	0.00	1.00
R30PEN	15691	0.01	0.10	0.00	1.00
R4OPEN	14718	0.01	0.11	0.00	1.00
R50PEN	16819	0.02	0.13	0.00	1.00
S1OPEN	10833	0.01	0.09	0.00	1.00
S2OPEN	9551	0.01	0.10	0.00	1.00
S30PEN	10581	0.01	0.09	0.00	1.00
S4OPEN	9643	0.01	0.10	0.00	1.00
S50PEN	7447	0.02	0.12	0.00	1.00

Categorical Variable Codes

Value	R1OPEN	R2OPEN	R3OPEN	R4OPEN	R50PEN
.d:DK	2	5	18	17	261
.m:Missing	59	31	2	34	20
.r:Refuse	3	3	12	10	14
0.No	15188	13519	15517	14548	16539
1.Yes	138	146	174	170	280
Value	S10PEN	S2OPEN	S3OPEN	S4OPEN	S50PEN
.d:DK	1	3	3	2	9
.m:Missing	16	8	2	4	
.r:Refuse	2	2	6	3	5
.u:Unmar	4051	4009	4782	4847	5227
.v:SP NR	283	131	349	280	501
0.No	10754	9463	10486	9546	7333
1.Yes	79	88	95	97	114

How Constructed

RWOPEN indicates whether the respondent is currently receiving any retirement or widowhood pension not already included in public and private pensions (RwPUBPEN and RwPENINC). RwOPEN considers pensions from the US Social Security, other institutions (different from the ones included in RwPUBPEN and RwPENINC), and a pension from an individual. Other pensions such as Disability or Work Accident, or Other Pensions are included in the MHAS but not in the construction of RwOPEN.

A value of 0 indicates the respondent is not receiving any other pension. A value of 1 indicates the respondent is receiving at least one other pension. RwOPEN is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwOPEN is also assigned the special missing value

.m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwOPEN indicates whether the current wave's spouse is receiving any other pension, and is taken from the spouse's values of RwOPEN. In addition to the special missing codes used in RwOPEN, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Pension questions are asked only to the financial respondent about the financial respondent's pension income and, if married, the financial respondent's spouse's pension income. If the respondent is the financial respondent, then measures concerning the financial respondent are assigned to the respondent and those about the financial respondent's spouse are assigned to the respondent's spouse. However, if the respondent's spouse is the financial respondent, then measures about the financial respondent are assigned to the respondent's spouse and those concerning the financial respondent's spouse are assigned to the respondent.

Cross Wave Differences in MHAS

The pension income questions in the MHAS, from Section K (Pension, Income and Assets), changed across waves. In Waves 1 and 2, the financial respondent had the option to report only one pension. However, starting in Wave 3 they can report up to three different pensions, for both retirement and widowhood pensions.

Differences with the RAND HRS/Harmonized HRS

Components included in Harmonized MHAS and RAND HRS are slightly different representing different institutional arrangements in each country. In the MHAS, RWOPEN was created to supplement the information in RwPUBPEN and RwPENINC. In particular, to include other institutional arrangements such as the US Social Security, other institutions (different from the ones included in RwPUBPEN and RwPENINC), and a pension from an individual.

```
Wave 1:
   K55A
                    retirement pension
   K56 1
                    source of retirement pension
   K61A
                    spouse received retirement pension
   K62 1
                    source of retirement pension of spouse
Wave 2:
   K58A
                    retirement pension
                    source of retirement pension
   K59A
   K64C
                    spouse received retirement pension
   K65C
                    source of retirement pension of spouse
Wave 3:
   K58A 12
                    Last year: Respondent retirement income pension
   K59 1 05 12
                    Respondent's retirement pension source US Social Securi
   K59 1 06 12
                    Respondent's retirement pension source_Other Institutio
   K59 1 07 12
                    Respondent's retirement pension source A Person
   K64C_12
                    Last year: Respondent's spouse received retirement pen
   K65_1_05_12
                    Spouse's retirement pension source_US Social Security
   K65_1_06_12
                    Spouse's retirement pension source Other Institution
   K65_1_07_12
                    Spouse's retirement pension source A Person
Wave 4:
   K58A 15
                    Last year: Did respondent receive pension income from r
   K59_1 05 15
                    Respondent's retirement pension source: US Social Secur
   K59 1 06 15
                    Respondent's retirement pension source: Other Instituti
   K59 1 07 15
                    Respondent's retirement pension source: A Person
   K59 2 05 15
                    Respondent's widowhood pension source: US Social Securi
    K59 2 06 15
                    Respondent's widowhood pension source: Other Institutio
    K59 2 07 15
                    Respondent's widowhood pension source: A Person
   K64C 15
                    Last year: Did respondent's spouse receive retirement p
```

K65_1_05_15 K65_1_06_15 K65_1_07_15 K65_2_05_15 K65_2_06_15 K65_2_07_15 Wave 5:	Spouse's retirement pension source: US Social Security Spouse's retirement pension source: Other Institution Spouse's retirement pension source: A Person Spouse's widowhood pension income source: US Social Sec Spouse's widowhood pension income source: Other Institu Spouse's widowhood pension income source: A Person
K58A_18	Last year: Did respondent receive pension income from r
K59_1_1_18	Respondent's retirement pension source (First Pension)
K59_1_2_18	Respondent's retirement pension source (Second Pension)
K59 2 1 18	Respondent's widowhood pension source (First Pension)
K59_2_2_18	Respondent's widowhood pension source (Second Pension)
K64C_18	Last year: Did respondent's spouse receive retirement p
K65_1_1_18	Spouse's retirement pension source (First Pension)
K65_1_2_18	Spouse's retirement pension source (Second Pension)
K65_2_1_18	Spouse's widowhood pension income source (First Pension
K65_2_2_18	Spouse's widowhood pension income source (Second Pensio

Age When Started to Receive a Public Pension

Wave	Variable	Label										Туре
1	R1PUBAGE	rlpubage:	w1	R	Age	when	started	to	receive	public	pension	Cont
2	R2PUBAGE	r2pubage:	w2	R	Age	when	started	to	receive	public	pension	Cont
5	R5PUBAGE	r5pubage:	w5	R	Age	when	started	to	receive	public	pension	Cont
1	S1PUBAGE	s1pubage:	w1	S	Age	when	started	to	receive	public	pension	Cont
2	S2PUBAGE	s2pubage:	w2	S	Age	when	started	to	receive	public	pension	Cont
5	S5PUBAGE	s5pubage:	w5	S	Age	when	started	t.o	receive	public	pension	Cont.

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PUBAGE	1866	58.42	9.76	9.00	89.00
R2PUBAGE	1983	58.05	9.39	8.00	93.00
R5PUBAGE	2305	59.70	9.89	10.00	99.00
S1PUBAGE	1023	58.27	8.65	9.00	87.00
S2PUBAGE	1124	58.04	8.40	8.00	83.00
S5PUBAGE	752	58.68	8.86	10.00	82.00

How Constructed

RWPUBAGE indicates the age when the respondent started receiving a public pension, from retirement or widowhood. RwPUBAGE was derived using the year the respondent reported they started to receive a pension and the respondent's birth year or age, if they currently receive a public pension. RwPUBAGE is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwPUBAGE is also assigned special missing values .n if the respondent is currently not receiving a public pension and .i if the year reported is beyond each wave (i.e. higher than 2001 in Wave 1). It is also assigned the special missing value .m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwPUBAGE indicates the current wave's spouse age when they started receiving a public pension, and is taken from the spouse's values of RwPUBAGE. In addition to the special missing codes used in RwPUBAGE, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Pension questions are asked only to the financial respondent about the financial respondent's pension income and, if married, the financial respondent's spouse's pension income. If the respondent is the financial respondent, then measures concerning the financial respondent are assigned to the respondent and those about the financial respondent's spouse are assigned to the respondent's spouse. However, if the respondent's spouse is the financial respondent, then measures about the financial respondent are assigned to the respondent's spouse and those concerning the financial respondent's spouse are assigned to the respondent.

Cross Wave Differences in MHAS

The pension income information is obtained from the MHAS, Section K (Pension, Income and Assets) changed across waves. In Waves 1 and 2, the financial respondent had the option to report only one pension. In Waves 3 and 4 they can report up to three different pensions, for both retirement and widowhood pensions. Starting in Wave 5 they can report up to two different pensions, for both retirement and widowhood pensions.

In Waves 1 to 3, the financial respondent could only give information about the year they started receiving the pension, the income received, and whether the spouse (if married) could continue to receive the pension after the death of the respondent for one pension. Since at Waves 3 and 4 respondents can

report up to three different pensions, for both retirement and widowhood pensions, and it was not possible to trace if the reported years belong to a public, private, or other pension, RwPUBAGE was not created in those waves. Starting in Wave 5, since respondents were able to report up to two pensions and it was possible to correctly identify the year for each type of pension, RwPUBAGE was constructed again.

Differences with the RAND HRS/Harmonized HRS

Components included in RwPUBAGE in the Harmonized MHAS and RwSSAGEB in the RAND HRS are slightly different for public pensions representing different institutional arrangements in each country. However, we kept the concepts included as comparable as possible.

Wave 1:	
K56 1	source of retirement pension
K56 ²	source of widowhood pension
K57 ⁻ 1	start of retirement pension
K62 ⁻ 1	source of retirement pension of spouse
K62 ⁻ 2	source of widowhood pension of spouse
к63 [—] 1	start of retirement pension of spouse
Wave 2:	
K59A	source of retirement pension
K59B	source of widowhood pension
K60A	start of retirement pension
K65C	source of retirement pension of spouse
K65D	source of widowhood pension of spouse
K66C	start of retirement pension of spouse
Wave 5:	
K58A_18	Last year: Did respondent receive pension income from r
K59_1_1_18	Respondent's retirement pension source (First Pension)
K59_1_2_18	Respondent's retirement pension source (Second Pension)
K59_2_1_18	Respondent's widowhood pension source (First Pension)
K59_2_2_18	Respondent's widowhood pension source (Second Pension)
K60_1_1_18	Year respondent started to receive his/her (first) reti
K60_1_2_18	Year respondent started to receive his/her (second) ret
K60_2_1_18	Year respondent started to receive (first) widowhood pe
K60_2_2_18	Year respondent started to receive (second) widowhood p
K64C_18	Last year: Did respondent's spouse receive retirement p
K65_1_1_18	Spouse's retirement pension source (First Pension)
K65_1_2_18	Spouse's retirement pension source (Second Pension)
K65_2_1_18	Spouse's widowhood pension income source (First Pension
K65_2_2_18	Spouse's widowhood pension income source (Second Pensio
K66_1_1_18	Year spouse started to receive (first) retirement pensi
K66_1_2_18	Year spouse started to receive (second) retirement pens
K66_2_1_18	Year spouse started to receive (first) widowhood pensio
K66_2_2_18	Year spouse started to receive (second) widowhood pensi

Age When Started to Receive a Private Pension

Wave	Variable	Label										Type
1	R1PENAGE	rlpenage:	w1	R	Age	when	started	to	receive	private	pension	Cont
2	R2PENAGE	r2penage:	w2	R	Age	when	started	to	receive	private	pension	Cont
5	R5PENAGE	r5penage:	w5	R	Age	when	started	to	receive	private	pension	Cont
1	S1PENAGE	s1penage:	w1	S	Age	when	started	to	receive	private	pension	Cont
2	S2PENAGE	s2penage:	w2	S	Age	when	started	to	receive	private	pension	Cont
5	S5PENAGE	s5penage:	w5	S	Age	when	started	t.o	receive	private	pension	Cont.

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PENAGE	26	54.12	8.89	31.00	70.00
R2PENAGE	17	58.41	10.95	37.00	82.00
R5PENAGE	13	54.77	9.90	39.00	81.00
S1PENAGE	14	53.36	8.50	31.00	68.00
S2PENAGE	1.2	59.83	12.33	37.00	82.00
S5PENAGE	4	63.00	13.29	49.00	81.00

How Constructed

RWPENAGE indicates the age when the respondent started receiving a private pension, from retirement or widowhood. RwPENAGE was derived using the year the respondent reported they started to receive a pension and the respondent's birth year or age, if they currently receives a private pension. RwPENAGE is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwPENAGE is also assigned special missing values .n if the respondent is currently not receiving a private pension and .i if the year reported is beyond each wave (i.e. higher than 2001 in Wave 1). It is also assigned the special missing value .m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwPENAGE indicates the current wave's spouse age when they started receiving a private pension, and is taken from the spouse's values of RwPENAGE. In addition to the special missing codes used in RwPENAGE, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Pension questions are asked only to the financial respondent about the financial respondent's pension income and, if married, the financial respondent's spouse's pension income. If the respondent is the financial respondent, then measures concerning the financial respondent are assigned to the respondent and those about the financial respondent's spouse are assigned to the respondent's spouse. However, if the respondent's spouse is the financial respondent, then measures about the financial respondent are assigned to the respondent's spouse and those concerning the financial respondent's spouse are assigned to the respondent.

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The pension income information is obtained from the MHAS, Section K (Pension, Income and Assets) changed across waves. In Waves 1 and 2, the financial respondent had the option to report only one pension. In Waves 3 and 4 they can report up to three different pensions, for both retirement and widowhood pensions. Starting in Wave 5 they can report up to two different pensions.

In Waves 1 to 3, the financial respondent could only give information about the year they started receiving the pension, the income received, and whether the spouse (if married) could continue after the death of the respondent for one pension. Since at Waves 3 and 4 respondents can report up to three different pensions, for both retirement and widowhood pensions, and it was not possible to trace if the

reported years belong to a public, private, or other pension, RwPENAGE was not created in Waves 3 and 4. Starting in Wave 5, since respondents were able to report up to two pensions and it was possible to correctly identify the year for each type of pension, RwPENAGE was constructed again.

Differences with the RAND HRS/Harmonized HRS

Components included in Harmonized MHAS 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.

Wave 1:	
K56 1	source of retirement pension
K56 ²	source of widowhood pension
K57 ⁻ 1	start of retirement pension
K62 ⁻ 1	source of retirement pension of spouse
K62 ⁻ 2	source of widowhood pension of spouse
K63 ¹	start of retirement pension of spouse
Wave 2:	
K59A	source of retirement pension
K59B	source of widowhood pension
K60A	start of retirement pension
K65C	source of retirement pension of spouse
K65D	source of widowhood pension of spouse
K66C	start of retirement pension of spouse
Wave 5:	
K58A_18	Last year: Did respondent receive pension income from r
K59_1_1_18	Respondent's retirement pension source (First Pension)
K59_1_2_18	Respondent's retirement pension source (Second Pension)
K59_2_1_18	Respondent's widowhood pension source (First Pension)
K59 <u>2</u> 218	Respondent's widowhood pension source (Second Pension)
K60_1_1_18	Year respondent started to receive his/her (first) reti
K60_1_2_18	Year respondent started to receive his/her (second) ret
K60_2_1_18	Year respondent started to receive (first) widowhood pe
K60_2_2_18	Year respondent started to receive (second) widowhood p
K64C_18	Last year: Did respondent's spouse receive retirement p
K65_1_1_18	Spouse's retirement pension source (First Pension)
K65_1_2_18	Spouse's retirement pension source (Second Pension)
K65_2_1_18	Spouse's widowhood pension income source (First Pension
K65_2_2_18	Spouse's widowhood pension income source (Second Pensio
K66_1_1_18	Year spouse started to receive (first) retirement pensi
K66_1_2_18	Year spouse started to receive (second) retirement pens
K66_2_1_18	Year spouse started to receive (first) widowhood pensio
K66_2_2_18	Year spouse started to receive (second) widowhood pensi

Wave	Variable	Label									Type
2	R1SSIC R2SSIC R5SSIC	r2ssic:	w2	R	Whether	current	public	pension	can	continue continue continue	Categ Categ Categ
2	S1SSIC S2SSIC S5SSIC	s2ssic:	w2	S	Whether	current	public	pension	can	continue continue continue	Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SSIC	10625	0.07	0.26	0.00	1.00
R2SSIC	9484	0.10	0.30	0.00	1.00
R5SSIC	11021	0.13	0.33	0.00	1.00
S1SSIC	10625	0.07	0.26	0.00	1.00
S2SSIC	9484	0.10	0.30	0.00	1.00
S5SSIC	7370	0.17	0.38	0.00	1.00

Categorical Variable Codes

Value	R1SSIC	R2SSIC	R5SSIC
.d:DK	112	68	353
.m:Missing	16	8	
.n:not married	4538	4140	5728
.r:Refuse	83	4	12
0.No	9861	8512	9636
1.Yes	764	972	1385
Value	SISSIC	S2SSIC	S5SSIC
.d:DK	112	68	85
.m:Missing	16	8	
.r:Refuse	83	4	6
.u:Unmar	4065	4009	5227
.v:SP NR	285	131	501
0.No	9861	8512	6122
1.Yes	764	972	1248

How Constructed

RwSSIC indicates whether the respondent's spouse could receive part of the respondent's current public pension(s), from retirement or widowhood, if the respondent were to die. RwSSIC is coded as 0 for no and 1 for yes. RwSSIC is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwSSIC is assigned special missing value .n if the respondent is currently not married. It is also assigned the special missing value .m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwSSIC indicates whether the current wave's spouse's public pension(s) can continue if the respondent's spouse were to die, and is taken from the spouse's values of RwSSIC. In addition to the special missing codes used in RwSSIC, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Pension questions are asked only to the financial respondent about the financial respondent's pension income and, if married, the financial respondent's spouse's pension income. If the respondent is the financial respondent, then measures concerning the financial respondent are assigned to the respondent

and those about the financial respondent's spouse are assigned to the respondent's spouse. However, if the respondent's spouse is the financial respondent, then measures about the financial respondent are assigned to the respondent's spouse and those concerning the financial respondent's spouse are assigned to the respondent.

Cross Wave Differences in MHAS

The pension income information is obtained from the MHAS, Section K (Pension, Income and Assets) changed across waves. In Waves 1 and 2, the financial respondent had the option to report only one pension. In Waves 3 and 4 they can report up to three different pensions, for both retirement and widowhood pensions. Starting in Wave 5 they can report up to two different pensions, for both retirement and widowhood pensions.

In Waves 1 and 2, the financial respondent could only give information regarding the year they started receiving the pension, the income received, and whether the spouse (if married) could continue to receive the pension after the death of the respondent for one pension. In Waves 3 and 4 respondents can report up to three different pensions, for both retirement and widowhood pensions, and it was not possible to trace if the variables belong to a public, private, or other pension. As such, it was not possible to create RwSSIC in Waves 3 and 4. Starting in Wave 5 respondents can report up to two different pensions, and it was possible to trace if the variables belonged to a public, private, or other pension, and so RwSSIC is available again.

Differences with the RAND HRS/Harmonized HRS

Components included in Harmonized MHAS 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.

MHAS Variables Used

Marro 1 .

Wave 1:	
K55A	retirement pension
K56_1	source of retirement pension
K60_1	retirement pension goes to spouse
K61A	spouse received retirement pension
K62_1	source of retirement pension of spouse
K66_1	would you receive spouse's retirement pension if he/she
Wave 2:	
K58A	retirement pension
K59A	source of retirement pension
K64C	spouse received retirement pension
K65C	source of retirement pension of spouse
Wave 5:	
K58A_18	Last year: Did respondent receive pension income from r
K59_1_1_18	Respondent's retirement pension source (First Pension)
K59_1_2_18	Respondent's retirement pension source (Second Pension)
K59 <u>2</u> 1_18	Respondent's widowhood pension source (First Pension)
K59_2_2_18	Respondent's widowhood pension source (Second Pension)
K63_1_1_18	At death: Could this (first) retirement pension go to s
K63_1_2_18	At death: Could this (second) retirement pension go to
K63_2_1_18	At death: Could this (first) widowhood pension go to sp
K63_2_2_18	At death: Could this (second) widowhood pension go to s
K64C_18	Last year: Did respondent's spouse receive retirement p
K65_1_1_18	Spouse's retirement pension source (First Pension)
K65 1 2 18	Spouse's retirement pension source (Second Pension)
K65 2 1 18	Spouse's widowhood pension income source (First Pension
K65 2 2 18	Spouse's widowhood pension income source (Second Pensio
K69 ¹ 118	At spouse's death: Could respondent receive this (first
K69 ¹ 2 ¹⁸	At spouse's death: Could respondent receive this (secon
K69 2 1 18	At spouses' death: Could respondent receive this (first
K69 ² 2 ¹⁸	At spouses' death: Could respondent receive this (secon
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Whether Current Private Pension Can Continue

Wave	Variable	Label									Type
2	R1PENIC R2PENIC R5PENIC	-	w2	R	Whether	current	private	pension	can	continue continue continue	Categ Categ Categ
2	S1PENIC S2PENIC S5PENIC	<pre>s1penic: s2penic: s5penic:</pre>	w2	S	Whether	current	private	pension	can	continue	Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PENIC	10831	0.00	0.03	0.00	1.00
R2PENIC	9551	0.00	0.03	0.00	1.00
R5PENIC	11109	0.00	0.03	0.00	1.00
S1PENIC	10831	0.00	0.03	0.00	1.00
S2PENIC	9551	0.00	0.03	0.00	1.00
S5PENIC	7442	0.00	0.03	0.00	1.00

Categorical Variable Codes

Value	R1PENIC	R2PENIC	R5PENIC
.d:DK	2	3	265
.m:Missing	16	8	
.n:not married	4538	4140	5728
.r:Refuse	3	2	12
0.No	10820	9541	11099
1.Yes	11	10	10
Value	S1PENIC	S2PENIC	S5PENIC
.d:DK	2	3	13
.m:Missing	16	8	
.r:Refuse	3	2	6
.u:Unmar	4051	4009	5227
.v:SP NR	283	131	501
0.No	10820	9541	7433
1.Yes	11	10	9

How Constructed

RwPENIC indicates whether the respondent's spouse could receive part of the respondent's current private pension, from retirement or widowhood, if the respondent were to die. RwPENIC is coded as 0 for no and 1 for yes. RwPENIC is assigned special missing values .d or .r, if they answered don't know or refused, respectively. RwPENIC is assigned special missing value .n if the respondent is currently not married. It is also assigned the special missing value .m if the section was not completed. The variable is set to plain missing (.) for respondents who did not respond to the current wave.

SwPENIC indicates whether the current wave's spouse's private pension can continue if the respondent's spouse were to die, and is taken from the spouse's values of RwPENIC. In addition to the special missing codes used in RwPENIC, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

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Differences with the RAND HRS/Harmonized HRS

Components included in Harmonized MHAS 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.

MHAS Variables Used

Marro 1 .

Wave 1:	
K55A	retirement pension
K56_1	source of retirement pension
K60_1	retirement pension goes to spouse
K61A	spouse received retirement pension
K62_1	source of retirement pension of spouse
K66_1	would you receive spouse's retirement pension if he/she
Wave 2:	
K58A	retirement pension
K59A	source of retirement pension
K64C	spouse received retirement pension
K65C	source of retirement pension of spouse
Wave 5:	
K58A_18	Last year: Did respondent receive pension income from r
K59_1_1_18	Respondent's retirement pension source (First Pension)
K59_1_2_18	Respondent's retirement pension source (Second Pension)
K59 <u>2</u> 1_18	Respondent's widowhood pension source (First Pension)
K59_2_2_18	Respondent's widowhood pension source (Second Pension)
K63_1_1_18	At death: Could this (first) retirement pension go to s
K63_1_2_18	At death: Could this (second) retirement pension go to
K63_2_1_18	At death: Could this (first) widowhood pension go to sp
K63_2_2_18	At death: Could this (second) widowhood pension go to s
K64C_18	Last year: Did respondent's spouse receive retirement p
K65_1_1_18	Spouse's retirement pension source (First Pension)
K65 1 2 18	Spouse's retirement pension source (Second Pension)
K65 2 1 18	Spouse's widowhood pension income source (First Pension
K65 2 2 18	Spouse's widowhood pension income source (Second Pensio
K69 ¹ 1 18	At spouse's death: Could respondent receive this (first
K69 1 2 18	At spouse's death: Could respondent receive this (secon
K69 2 1 18	At spouses' death: Could respondent receive this (first
K69 2 2 18	At spouses' death: Could respondent receive this (secon
	-

Section K: Physical Measures

Height, Weight, Waist and Hip Circumference Measurements

Wave	Variable	Label	Туре
2	R1MHEIGHT	r1mheight: w1 R Measured Height in meters	Cont
	R2MHEIGHT	r2mheight: w2 R Measured Height in meters	Cont
	R3MHEIGHT	r3mheight: w3 R Measured Height in meters	Cont
1	S1MHEIGHT	s1mheight: w1 S Measured Height in meters	Cont
2	S2MHEIGHT	s2mheight: w2 S Measured Height in meters	Cont
3	S3MHEIGHT	s3mheight: w3 S Measured Height in meters	Cont
2	R1HTCOMP R2HTCOMP R3HTCOMP	r1htcomp: w1 R willing & able to complete height measurement r2htcomp: w2 R willing & able to complete height measurement r3htcomp: w3 R willing & able to complete height measurement	Categ Categ Categ
1	S1HTCOMP	s1htcomp: w1 S willing & able to complete height measurement s2htcomp: w2 S willing & able to complete height measurement s3htcomp: w3 S willing & able to complete height measurement	Categ
2	S2HTCOMP		Categ
3	S3HTCOMP		Categ
1	R1MWEIGHT	r1mweight: w1 R Measured Weight in kilograms	Cont
2	R2MWEIGHT	r2mweight: w2 R Measured Weight in kilograms	Cont
3	R3MWEIGHT	r3mweight: w3 R Measured Weight in kilograms	Cont
1 2 3	S1MWEIGHT S2MWEIGHT S3MWEIGHT	slmweight: w1 S Measured Weight in kilograms s2mweight: w2 S Measured Weight in kilograms s3mweight: w3 S Measured Weight in kilograms	Cont Cont
2	R1WTCOMP R2WTCOMP R3WTCOMP	r1wtcomp: w1 R willing & able to complete weight measurement r2wtcomp: w2 R willing & able to complete weight measurement r3wtcomp: w3 R willing & able to complete weight measurement	Categ Categ Categ
1	S1WTCOMP	s1wtcomp: w1 S willing & able to complete weight measurement s2wtcomp: w2 S willing & able to complete weight measurement s3wtcomp: w3 S willing & able to complete weight measurement	Categ
2	S2WTCOMP		Categ
3	S3WTCOMP		Categ
2	R1MBMI R2MBMI R3MBMI	r1mbmi: w1 R Measured Body Mass Index=kg/m2 r2mbmi: w2 R Measured Body Mass Index=kg/m2 r3mbmi: w3 R Measured Body Mass Index=kg/m2	Cont Cont Cont
1 2 3	S1MBMI S2MBMI S3MBMI	s1mbmi: w1 S Measured Body Mass Index=kg/m2 s2mbmi: w2 S Measured Body Mass Index=kg/m2 s3mbmi: w3 S Measured Body Mass Index=kg/m2	Cont Cont
1	R1MBMICAT	r1mbmicat: w1 R Measured Body Mass Index Categorization r2mbmicat: w2 R Measured Body Mass Index Categorization r3mbmicat: w3 R Measured Body Mass Index Categorization	Categ
2	R2MBMICAT		Categ
3	R3MBMICAT		Categ
1	S1MBMICAT	slmbmicat: w1 S Measured Body Mass Index Categorization s2mbmicat: w2 S Measured Body Mass Index Categorization s3mbmicat: w3 S Measured Body Mass Index Categorization	Categ
2	S2MBMICAT		Categ
3	S3MBMICAT		Categ
	R1MWAIST	r1mwaist: w1 R Measured Waist Circumference in cm	Cont
	R2MWAIST	r2mwaist: w2 R Measured Waist Circumference in cm	Cont
	R3MWAIST	r3mwaist: w3 R Measured Waist Circumference in cm	Cont
1	S1MWAIST	s1mwaist: w1 S Measured Waist Circumference in cm	Cont
2	S2MWAIST	s2mwaist: w2 S Measured Waist Circumference in cm	Cont
3	S3MWAIST	s3mwaist: w3 S Measured Waist Circumference in cm	Cont
1	R1WATCOMP	r1watcomp: w1 R willing & able to complete waist measurement r2watcomp: w2 R willing & able to complete waist measurement r3watcomp: w3 R willing & able to complete waist measurement	Categ
2	R2WATCOMP		Categ
3	R3WATCOMP		Categ

1	S1WATCOMP	slwatcomp: w1 S willing & able to complete waist measurement s2watcomp: w2 S willing & able to complete waist measurement s3watcomp: w3 S willing & able to complete waist measurement	Categ
2	S2WATCOMP		Categ
3	S3WATCOMP		Categ
1	R1MHIP	rlmhip: w1 R Measured Hip Circumference in cm	Cont
2	R2MHIP	r2mhip: w2 R Measured Hip Circumference in cm	Cont
3	R3MHIP	r3mhip: w3 R Measured Hip Circumference in cm	Cont
1	S1MHIP	s1mhip: w1 S Measured Hip Circumference in cm	Cont
2	S2MHIP	s2mhip: w2 S Measured Hip Circumference in cm	Cont
3	S3MHIP	s3mhip: w3 S Measured Hip Circumference in cm	Cont
1	R1HIPCOMP	r1hipcomp: w1 R willing & able to complete hip measurement r2hipcomp: w2 R willing & able to complete hip measurement r3hipcomp: w3 R willing & able to complete hip measurement	Categ
2	R2HIPCOMP		Categ
3	R3HIPCOMP		Categ
1	S1HIPCOMP	slhipcomp: w1 S willing & able to complete hip measurement s2hipcomp: w2 S willing & able to complete hip measurement s3hipcomp: w3 S willing & able to complete hip measurement	Categ
2	S2HIPCOMP		Categ
3	S3HIPCOMP		Categ
1 2 3	R1MWHRATIO R2MWHRATIO R3MWHRATIO	rlmwhratio: wl R Measured Waist to Hip Ratio r2mwhratio: w2 R Measured Waist to Hip Ratio r3mwhratio: w3 R Measured Waist to Hip Ratio	Cont Cont
1	S1MWHRATIO	s1mwhratio: w1 S Measured Waist to Hip Ratio	Cont
2	S2MWHRATIO	s2mwhratio: w2 S Measured Waist to Hip Ratio	Cont
3	S3MWHRATIO	s3mwhratio: w3 S Measured Waist to Hip Ratio	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MHEIGHT	2537	1.57	0.10	0.98	2.00
R2MHEIGHT	2220	1.56	0.10	1.00	1.98
R3MHEIGHT	2049	1.55	0.10	1.28	1.90
S1MHEIGHT	1776	1.59	0.10	0.98	1.94
S2MHEIGHT	1550	1.58	0.10	1.00	1.98
S3MHEIGHT	1394	1.56	0.09	1.33	1.90
R1HTCOMP	2813	0.90	0.30	0.00	1.00
R2HTCOMP	2361	0.94	0.24	0.00	1.00
R3HTCOMP	2086	0.98	0.13	0.00	1.00
S1HTCOMP	1965	0.90	0.29	0.00	1.00
S2HTCOMP	1635	0.95	0.22	0.00	1.00
S3HTCOMP	1411	0.99	0.11	0.00	1.00
R1MWEIGHT	2537	68.68	14.15	24.00	150.00
R2MWEIGHT	2225	68.49	14.47	30.00	173.00
R3MWEIGHT	2057	69.65	14.98	32.35	150.00
S1MWEIGHT	1777	70.79	14.03	24.00	150.00
S2MWEIGHT	1557	70.43	14.34	35.00	173.00
S3MWEIGHT	1399	71.24	15.05	33.50	150.00
R1WTCOMP	2813	0.90	0.30	0.00	1.00
R2WTCOMP	2361	0.94	0.23	0.00	1.00
R3WTCOMP	2086	0.99	0.12	0.00	1.00
S1WTCOMP	1965	0.90	0.29	0.00	1.00
S2WTCOMP	1635	0.95	0.21	0.00	1.00
S3WTCOMP	1411	0.99	0.09	0.00	1.00

R1MBMI	2527	27.82	5.23	8.71	90.84
R2MBMI	2216	27.99	5.41	14.54	73.61
R3MBMI	2048	28.89	5.28	15.74	53.33
S1MBMI	1770	28.18	5.28	8.71	90.84
S2MBMI	1549	28.25	5.39	14.54	73.61
S3MBMI	1394	29.05	5.30	15.74	53.33
R1MBMICAT	2527	3.07	0.97	1.00	6.00
R2MBMICAT	2216	3.10	1.00	1.00	6.00
R3MBMICAT	2048	3.28	1.04	1.00	6.00
S1MBMICAT	1770	3.14	0.96	1.00	6.00
S2MBMICAT	1549	3.15	0.99	1.00	6.00
S3MBMICAT	1394	3.30	1.04	1.00	6.00
R1MWAIST	2531	97.44	12.96	40.00	194.00
R2MWAIST	2220	98.95	12.52	50.00	180.00
R3MWAIST	2053	98.08	12.53	48.10	165.60
S1MWAIST	1768	98.26	12.68	46.00	194.00
S2MWAIST	1550	99.54	12.30	51.00	180.00
S3MWAIST	1396	98.72	12.46	62.00	163.80
R1WATCOMP	2813	0.90	0.30	0.00	1.00
R2WATCOMP	2361	0.94	0.24	0.00	1.00
R3WATCOMP	2086	0.98	0.12	0.00	1.00
S1WATCOMP	1965	0.90	0.30	0.00	1.00
S2WATCOMP	1635	0.95	0.22	0.00	1.00
S3WATCOMP	1411	0.99	0.10	0.00	1.00
R1MHIP	2529	105.63	12.16	45.00	192.00
R2MHIP	2220	105.56	11.96	50.00	156.00
R3MHIP	2054	103.66	11.22	75.20	168.50
S1MHIP	1768	106.25	12.09	59.00	192.00
S2MHIP	1550	105.90	11.60	50.00	150.00
S3MHIP	1396	103.63	11.17	77.45	168.50
R1HIPCOMP	2813	0.90	0.30	0.00	1.00
R2HIPCOMP	2361	0.94	0.24	0.00	1.00
R3HIPCOMP	2086	0.98	0.12	0.00	1.00
S1HIPCOMP	1965	0.90	0.30	0.00	1.00
S2HIPCOMP	1635	0.95	0.22	0.00	1.00
S3HIPCOMP	1411	0.99	0.10	0.00	1.00
R1MWHRATIO	2527	0.92	0.09	0.40	1.96
R2MWHRATIO	2219	0.94	0.09	0.46	2.16
R3MWHRATIO	2053	0.95	0.08	0.55	1.68
S1MWHRATIO	1766	0.93	0.09	0.45	1.96
S2MWHRATIO	1549	0.94	0.09	0.46	2.16
S3MWHRATIO	1396	0.95	0.08	0.66	1.68

Categorical Variable Codes

Value	R1HTCOMP	R2HTCOMP	R3HTCOMP
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	276	141	37
1.ves	2537	2220	2049

Value	S1HTCOMP	S2HTCOMP	S3HTCOMP
.m:Missing	95	DZIIICOM	141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	189	85	17
1.yes	1776	1550	1394
Value	R1WTCOMP	R2WTCOMP	R3WTCOMP
.m:Missing	131	11242	218
.s:Skip	12242	11343	13419
0.no	276 2537	136 2225	29 2057
1.yes	2537	2225	2057
Value	S1WTCOMP	S2WTCOMP	S3WTCOMP
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	188	78	12
1.yes	1777	1557	1399
Value	R1MBMICAT	R2MBMICAT	R3MBMICAT
.m:Missing	131		218
.n:not willing/able	134	34	37
.r:Refuse	141	97	
.s:Skip	12242	11343	13419
.x:tried but unable	11	14	1
1.Underweight (lt 18.5)	36	35	15
2.Normal (18.5-24.9)	707	593	468
3.Pre-obesity (25-29.9)	1062	936	806
4.Obesity class 1 (30-34.9)	523	467	510
5.obesity class 2 (35-39.9)	153	129	181
6.obesity class 3 (40+)	46	56	68
Value	S1MBMICAT	S2MBMICAT	S3MBMICAT
.m:Missing	95		141
.n:not willing/able	89	21	17
.r:Refuse	100	57	
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
.x:tried but unable	6	8	
1.Underweight (lt 18.5)	14	15	8
2.Normal (18.5-24.9)	452	395	310
3.Pre-obesity (25-29.9)	763	650	556
4.Obesity class 1 (30-34.9)	390	358	350
5.obesity class 2 (35-39.9)	115	86	121
6.obesity class 3 (40+)	36	45	49
Value	R1WATCOMP	R2WATCOMP	R3WATCOMP
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	282	141	33
1.yes	2531	2220	2053
Value	S1WATCOMP	S2WATCOMP	S3WATCOMP
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	197	85	15
1.yes	1768	1550	1396
Value	R1HIPCOMP	R2HIPCOMP	R3HIPCOMP
.m:Missing	131	4 4	218
.s:Skip	12242	11343	13419
0.no	284	141	32
1.yes	2529	2220	2054
Value	S1HIPCOMP	S2HIPCOMP	S3HIPCOMP
.m:Missing	SIMIPCOMP 95	SZUTECOMB	53HIPCOMP 141
	, ,,,		T-1T

.s:Skip		8588	7929	9040
.u:Unmar	I	4205	4009	4782
.v:SP NR	1	333	131	349
0.no	I	197	85	15
1.yes	I	1768	1550	1396

How Constructed

RWMHEIGHT and RwMWEIGHT are the respective measured height and weight variables, taken from a subsample of the MHAS. Height is given in meters and weight in kilograms. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also, a special missing value .x is used if they tried to measure the height or weight but couldn't do it and a special missing value .n is used if they couldn't stand up or the measurements were not taken for the respondent's safety. Refused and didn't try responses are assigned .r, and other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWHTCOMP and RwWTCOMP indicate whether the respondent is willing and able to complete the height and weight measures, respectively. RwHTCOMP and RwWTCOMP are coded as 1 if the respondent understood the directions for the test, the respondent felt it would be safe to complete the test, and the interviewer was able to complete the measures. RwHTCOMP and RwWTCOMP are coded as 0 if they tried to measure the height or weight but couldn't do it, the respondent didn't try, couldn't stand up, the tests were not attempted for their safety, or they refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwMHEIGHT, SwHTCOMP, SwMWEIGHT, and SwWTCOMP are the measures of the respondent's spouse and are taken directly from the spouse's RwMHEIGHT, RwHTCOMP, RwMWEIGHT, and RwWTCOMP, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwMHEIGHT, SwHTCOMP, SwMWEIGHT, and SwWTCOMP employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwMBMI is the respondent's body mass index and it is derived by dividing the respondent's measured weight (kg) by the squared value of their measured height, taken from a subsample of the MHAS. RwMBMICAT indicates the respondent's reported BMI category according to WHO standards. RwMBMICAT is coded as follows: 1.underweight, less than 18.5, 2.normal weight, 18.5 to 24.9, 3.pre-obesity, 25 to 25.9, 4.obesity class 1, 30 to 34.9, 5.obesity class 2, 35 to 39.9, 6.obesity class 3, greater than 40. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also, a special missing value .x is used if they tried to measure the height or weight but couldn't do it and a special missing value .n is used if they couldn't stand up or the measurements were not taken for the respondent's safety. Refused and didn't try responses are assigned .r, and other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwMBMI and SwMBMICAT are the measures of the respondent's spouse and are taken directly from the spouse's RwMBMI and RwMBMICAT, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwMBMI and SwMBMICAT employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwMWAIST and RwMHIP are the respective measured waist and hip circumference variables (in centimeters), taken from a subsample of the MHAS. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also, a special missing value .x is used if they tried to measure the height or weight but couldn't do it and a special missing value .n is used if they couldn't stand up or the measurements were not taken for the respondent's safety. Refused and didn't try responses are assigned .r, and other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwWATCOMP and RwHIPCOMP indicate whether the respondent is willing and able to complete the waist and hip circumference measurements, respectively. RwWATCOMP and RwHIPCOMP are coded as 1 if the respondent understood the directions for the test, the respondent felt it would be safe to complete the test, and the interviewer was able to complete the measures. RwWATCOMP and RwHIPCOMP are coded as 0 if they tried

to measure the waist and hip circumference but couldn't do it, the respondent didn't try, couldn't stand up, the tests were not attempted for their safety, or they refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwMWHRATIO is the respondent's waist to hip ratio, taken from a subsample of the MHAS. It is calculated by dividing the respondent's waist measurement by their hip measurement. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also, a special missing value .x is used if they tried to measure the waist or hip but couldn't do it and a special missing value .n is used if they couldn't stand up or the measurements were not taken for the respondent's safety. Refused and didn't try responses are assigned .r, and other missing responses of this variable are assigned special missing value .m. This variable is set to plain missing (.) for respondents who did not participate in the current wave.

SwMWAIST, SwMHIP, SwWATCOMP, SwHIPCOMP, and SwMWHRATIO are the measures of the respondent's spouse and are taken directly from the spouse's RwMWAIST, RwMHIP, RwWATCOMP, RwHIPCOMP, and RwMWHRATIO, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwMWAIST, SwMHIP, SwWATCOMP, SwHIPCOMP, and SwMWHRATIO employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2 anthropometric measures (including height, weight, and waist and hip circumference) were obtained from a sub-sample selected randomly from the baseline sample, distributed in the 32 states. However, in Wave 3 a new sub-sample was selected to complete anthropometric, biomarkers, and other measures. This sub-sample was limited to the complete sample of four states. Anthropometrics data was not collected in Waves 4 and 5.

In Waves 1 and 2, a single measurement was taken, which is used to assign values for these variables in these waves. In Wave 3, two measurements were taken, so the average of the two measurements is used to assign values for these variables in this wave.

Differences with the RAND HRS/Harmonized HRS

The HRS does not complete a hip measurement, so RwMHIP, RwHIPCOMP, and RwMWHRATIO are not available in the RAND HRS or Harmonized HRS. The Harmonized HRS also includes RwHTFLR and RwWTFLR, indicating the floor surface during the respondent's height and weight measurements, RwSHOEH and RwSHOEW, indicating whether the respondent was wearing shoes during their height and weight measurements, and RwBULKY, indicating whether the respondent had on bulky clothes during their waist measurement.

```
Master File:
    ANTRO 01
                     Selected for anthropometric measurement 2001
    ANTRO 03
                     Selected for anthropometric measurement 2003
    SUBSAMPLE 12
                     Selected subsample for Biomarkers/Anthropometrics 2012
Wave 1:
    L1
                     selected for anthropometric measures
    L3
                     weight
    т. Д
                     height
    L_5
                     waist.
    L6
                     hip
Wave 2:
    L1
                     selected for anthropometric measures
                     present for measures
    L1A
    L3
                     weight
                     height
    T.4
    L_5
                     waist.
                     hip
    L6
Wave 3:
```

A0104_12 A0105_12 A0106_12 CADERA1_12 CADERA2_12 CINTURA1_12 CINTURA2_12 ESTATU1_12 ESTATU2_12 PESO1_12	Is the respondent able to stand without support? Does the respondent have a visible spinal curvature? Can the respondent get a proper upright posture? Hip circumference - first measurement Hip circumference - second measurement Waist circumference - first measurement Waist circumference - second measurement Height - first measurement Height - second measurement Weight - first measurement
PESO1_12 PESO2 12	
_	-

Height, Weight, Waist and Hip Circumference Measurements: Reason Didn't Complete

Wave	Variable	Label	Type
2	R1HGHTSFT R2HGHTSFT R3HGHTSFT	r1hghtsft: w1 R cannot stand/straighten to complete height m r2hghtsft: w2 R cannot stand/straighten to complete height m r3hghtsft: w3 R cannot stand/straighten to complete height m	Categ Categ Categ
1	S1HGHTSFT	<pre>s1hghtsft: w1 S cannot stand/straighten to complete height m s2hghtsft: w2 S cannot stand/straighten to complete height m s3hghtsft: w3 S cannot stand/straighten to complete height m</pre>	Categ
2	S2HGHTSFT		Categ
3	S3HGHTSFT		Categ
2	R1HGHTTRYU R2HGHTTRYU R3HGHTTRYU	r1hghttryu: w1 R tried but could not complete height measure r2hghttryu: w2 R tried but could not complete height measure r3hghttryu: w3 R tried but could not complete height measure	Categ Categ Categ
1	S1HGHTTRYU	slhghttryu: w1 S tried but could not complete height measure s2hghttryu: w2 S tried but could not complete height measure s3hghttryu: w3 S tried but could not complete height measure	Categ
2	S2HGHTTRYU		Categ
3	S3HGHTTRYU		Categ
1	R1HGHTREF	r1hghtref: w1 R refused and did not try to complete height m r2hghtref: w2 R refused and did not try to complete height m r3hghtref: w3 R refused and did not try to complete height m	Categ
2	R2HGHTREF		Categ
3	R3HGHTREF		Categ
1	S1HGHTREF	slhghtref: w1 S refused and did not try to complete height m s2hghtref: w2 S refused and did not try to complete height m s3hghtref: w3 S refused and did not try to complete height m	Categ
2	S2HGHTREF		Categ
3	S3HGHTREF		Categ
2	R1WGHTSFT R2WGHTSFT R3WGHTSFT	rlwghtsft: w1 R cannot stand to complete weight measurement r2wghtsft: w2 R cannot stand to complete weight measurement r3wghtsft: w3 R cannot stand to complete weight measurement	Categ Categ Categ
1	S1WGHTSFT	slwghtsft: w1 S cannot stand to complete weight measurement s2wghtsft: w2 S cannot stand to complete weight measurement s3wghtsft: w3 S cannot stand to complete weight measurement	Categ
2	S2WGHTSFT		Categ
3	S3WGHTSFT		Categ
1	R1WGHTTRYU	rlwghttryu: w1 R tried but could not complete weight measure r2wghttryu: w2 R tried but could not complete weight measure r3wghttryu: w3 R tried but could not complete weight measure	Categ
2	R2WGHTTRYU		Categ
3	R3WGHTTRYU		Categ
1	S1WGHTTRYU	slwghttryu: w1 S tried but could not complete weight measure s2wghttryu: w2 S tried but could not complete weight measure s3wghttryu: w3 S tried but could not complete weight measure	Categ
2	S2WGHTTRYU		Categ
3	S3WGHTTRYU		Categ
1	R1WGHTREF	rlwghtref: w1 R refused and did not try to complete weight m r2wghtref: w2 R refused and did not try to complete weight m r3wghtref: w3 R refused and did not try to complete weight m	Categ
2	R2WGHTREF		Categ
3	R3WGHTREF		Categ
1	S1WGHTREF	slwghtref: w1 S refused and did not try to complete weight m s2wghtref: w2 S refused and did not try to complete weight m s3wghtref: w3 S refused and did not try to complete weight m	Categ
2	S2WGHTREF		Categ
3	S3WGHTREF		Categ
1	R1WSTSFT	rlwstsft: w1 R cannot stand to complete waist measurement r2wstsft: w2 R cannot stand to complete waist measurement r3wstsft: w3 R cannot stand to complete waist measurement	Categ
2	R2WSTSFT		Categ
3	R3WSTSFT		Categ
1	S1WSTSFT	slwstsft: w1 S cannot stand to complete waist measurement s2wstsft: w2 S cannot stand to complete waist measurement s3wstsft: w3 S cannot stand to complete waist measurement	Categ
2	S2WSTSFT		Categ
3	S3WSTSFT		Categ
1	R1WSTTRYU	r1wsttryu: w1 R tried but could not complete waist measureme r2wsttryu: w2 R tried but could not complete waist measureme r3wsttryu: w3 R tried but could not complete waist measureme	Categ
2	R2WSTTRYU		Categ
3	R3WSTTRYU		Categ

1 2 3	S1WSTTRYU S2WSTTRYU S3WSTTRYU	slwsttryu: w1 S tried but could not complete waist measureme s2wsttryu: w2 S tried but could not complete waist measureme s3wsttryu: w3 S tried but could not complete waist measureme	Categ Categ Categ
1	R1WSTREF	rlwstref: w1 R refused and did not try to complete waist mea	Categ
2	R2WSTREF	r2wstref: w2 R refused and did not try to complete waist mea	Categ
3	R3WSTREF	r3wstref: w3 R refused and did not try to complete waist mea	Categ
1	S1WSTREF	slwstref: w1 S refused and did not try to complete waist mea	Categ
2	S2WSTREF	s2wstref: w2 S refused and did not try to complete waist mea	Categ
3	S3WSTREF	s3wstref: w3 S refused and did not try to complete waist mea	Categ
1	R1HIPSFT	rlhipsft: w1 R cannot stand to complete hip measurement	Categ
2	R2HIPSFT	r2hipsft: w2 R cannot stand to complete hip measurement	Categ
3	R3HIPSFT	r3hipsft: w3 R cannot stand to complete hip measurement	Categ
1	S1HIPSFT	slhipsft: w1 S cannot stand to complete hip measurement	Categ
2	S2HIPSFT	s2hipsft: w2 S cannot stand to complete hip measurement	Categ
3	S3HIPSFT	s3hipsft: w3 S cannot stand to complete hip measurement	Categ
1	R1HIPTRYU	rlhiptryu: w1 R tried but could not complete hip measurement	Categ
2	R2HIPTRYU	r2hiptryu: w2 R tried but could not complete hip measurement	Categ
3	R3HIPTRYU	r3hiptryu: w3 R tried but could not complete hip measurement	Categ
1	S1HIPTRYU	slhiptryu: w1 S tried but could not complete hip measurement	Categ
2	S2HIPTRYU	s2hiptryu: w2 S tried but could not complete hip measurement	Categ
3	S3HIPTRYU	s3hiptryu: w3 S tried but could not complete hip measurement	Categ
1	R1HIPREF	rlhipref: w1 R refused and did not try to complete hip measu	Categ
2	R2HIPREF	r2hipref: w2 R refused and did not try to complete hip measu	Categ
3	R3HIPREF	r3hipref: w3 R refused and did not try to complete hip measu	Categ
1	S1HIPREF	slhipref: w1 S refused and did not try to complete hip measu	Categ
2	S2HIPREF	s2hipref: w2 S refused and did not try to complete hip measu	Categ
3	S3HIPREF	s3hipref: w3 S refused and did not try to complete hip measu	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HGHTSFT	276	0.48	0.50	0.00	1.00
R2HGHTSFT	141	0.23	0.42	0.00	1.00
R3HGHTSFT	37	1.00	0.00	1.00	1.00
S1HGHTSFT	189	0.47	0.50	0.00	1.00
S2HGHTSFT	85	0.24	0.43	0.00	1.00
S3HGHTSFT	17	1.00	0.00	1.00	1.00
R1HGHTTRYU	276	0.03	0.17	0.00	1.00
R2HGHTTRYU	141	0.09	0.29	0.00	1.00
R3HGHTTRYU	37	0.00	0.00	0.00	0.00
S1HGHTTRYU	189	0.02	0.14	0.00	1.00
S2HGHTTRYU	85	0.09	0.29	0.00	1.00
S3HGHTTRYU	17	0.00	0.00	0.00	0.00
R1HGHTREF	276	0.49	0.50	0.00	1.00
R2HGHTREF	141	0.68	0.47	0.00	1.00
R3HGHTREF	37	0.00	0.00	0.00	0.00
S1HGHTREF	189	0.51	0.50	0.00	1.00
S2HGHTREF	85	0.67	0.47	0.00	1.00
S3HGHTREF	17	0.00	0.00	0.00	0.00

D 1 M CHIM CHIM	276	0 40	0	0 00	1 00
R1WGHTSFT	276	0.48	0.50	0.00	1.00
R2WGHTSFT	136	0.24	0.43	0.00	1.00
R3WGHTSFT	29	0.93	0.26	0.00	1.00
			**-*		
S1WGHTSFT	188	0.47	0.50	0.00	1.00
S2WGHTSFT	78	0.26	0.44	0.00	1.00
S3WGHTSFT	12	1.00	0.00	1.00	1.00
R1WGHTTRYU	276	0.03	0.16	0.00	1.00
R2WGHTTRYU	136	0.07	0.25	0.00	1.00
R3WGHTTRYU	29	0.07	0.26	0.00	1.00
S1WGHTTRYU	188	0.02	0.13	0.00	1.00
S2WGHTTRYU	78	0.05	0.22	0.00	1.00
S3WGHTTRYU	12	0.00	0.00	0.00	0.00
SSWGIITIKIO	12	0.00	0.00	0.00	0.00
R1WGHTREF	276	0.50	0.50	0.00	1.00
R2WGHTREF	136	0.69	0.46	0.00	1.00
R3WGHTREF	2	0.00	0.00	0.00	0.00
C1 MCHMDDD	100	0 51	0 50	0 00	1 00
S1WGHTREF	188	0.51	0.50	0.00	1.00
S2WGHTREF	78	0.69	0.46	0.00	1.00
S3WGHTREF	0				
DOWGIIIIKEI	· ·	•	•	•	•
R1WSTSFT	282	0.45	0.50	0.00	1.00
R2WSTSFT	141	0.21	0.41	0.00	1.00
R3WSTSFT	33	0.85	0.36	0.00	1.00
S1WSTSFT	197	0.43	0.50	0.00	1.00
S2WSTSFT	85	0.21	0.41	0.00	1.00
S3WSTSFT	15	0.87	0.35	0.00	1.00
53,151511	10	0.07	0.33	0.00	1.00
R1WSTTRYU	282	0.02	0.14	0.00	1.00
R2WSTTRYU	141	0.07	0.26	0.00	1.00
R3WSTTRYU	33	0.06	0.24	0.00	1.00
S1WSTTRYU	197	0.01	0.10	0.00	1.00
S2WSTTRYU	85	0.07	0.26	0.00	1.00
S3WSTTRYU	15	0.00	0.00	0.00	0.00
			0 = 0		
R1WSTREF	282	0.53	0.50	0.00	1.00
R2WSTREF	141	0.72	0.45	0.00	1.00
R3WSTREF	33	0.09	0.29		
KJWSIKEF	22				1 00
		0.03	0.29	0.00	1.00
				0.00	1.00
S1WSTREF	197	0.56	0.50	0.00	1.00
		0.56	0.50	0.00	1.00
S2WSTREF	85	0.56 0.72	0.50 0.45	0.00	1.00
		0.56	0.50	0.00	1.00
S2WSTREF	85	0.56 0.72	0.50 0.45	0.00	1.00
S2WSTREF S3WSTREF	85 15	0.56 0.72 0.13	0.50 0.45 0.35	0.00 0.00 0.00	1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT	85 15 284	0.56 0.72 0.13	0.50 0.45 0.35	0.00 0.00 0.00	1.00 1.00 1.00
S2WSTREF S3WSTREF	85 15	0.56 0.72 0.13	0.50 0.45 0.35	0.00 0.00 0.00	1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT	85 15 284 141	0.56 0.72 0.13 0.45 0.21	0.50 0.45 0.35 0.50 0.41	0.00 0.00 0.00 0.00	1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT	85 15 284	0.56 0.72 0.13	0.50 0.45 0.35	0.00 0.00 0.00	1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT	85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88	0.50 0.45 0.35 0.50 0.41 0.34	0.00 0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT	85 15 284 141	0.56 0.72 0.13 0.45 0.21	0.50 0.45 0.35 0.50 0.41	0.00 0.00 0.00 0.00	1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT	85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88	0.50 0.45 0.35 0.50 0.41 0.34	0.00 0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT	85 15 284 141 32 197 85	0.56 0.72 0.13 0.45 0.21 0.88	0.50 0.45 0.35 0.50 0.41 0.34	0.00 0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT	85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88	0.50 0.45 0.35 0.50 0.41 0.34	0.00 0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT	85 15 284 141 32 197 85	0.56 0.72 0.13 0.45 0.21 0.88	0.50 0.45 0.35 0.50 0.41 0.34	0.00 0.00 0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT	85 15 284 141 32 197 85 15	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT	85 15 284 141 32 197 85 15	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT	85 15 284 141 32 197 85 15	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT	85 15 284 141 32 197 85 15	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT R1HIPTRYU R2HIPTRYU	85 15 284 141 32 197 85 15	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35 0.14 0.27	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT R1HIPTRYU R2HIPTRYU R3HIPTRYU	85 15 284 141 32 197 85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87 0.02 0.08 0.03	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35 0.14 0.27 0.18	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT R1HIPTRYU R2HIPTRYU R3HIPTRYU	85 15 284 141 32 197 85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87 0.02 0.08 0.03	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35 0.14 0.27 0.18 0.10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT R1HIPTRYU R2HIPTRYU R3HIPTRYU	85 15 284 141 32 197 85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87 0.02 0.08 0.03	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35 0.14 0.27 0.18	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT R1HIPTRYU R2HIPTRYU R3HIPTRYU S1HIPTRYU S2HIPTRYU	85 15 284 141 32 197 85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87 0.02 0.08 0.03 0.01 0.08	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35 0.14 0.27 0.18 0.10 0.28	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
S2WSTREF S3WSTREF R1HIPSFT R2HIPSFT R3HIPSFT S1HIPSFT S2HIPSFT S3HIPSFT R1HIPTRYU R2HIPTRYU R3HIPTRYU	85 15 284 141 32 197 85 15 284 141 32	0.56 0.72 0.13 0.45 0.21 0.88 0.44 0.20 0.87 0.02 0.08 0.03	0.50 0.45 0.35 0.50 0.41 0.34 0.50 0.40 0.35 0.14 0.27 0.18 0.10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

R1HIPREF	284	0.53	0.50	0.00	1.00
R2HIPREF	141	0.72	0.45	0.00	1.00
R3HIPREF	32	0.09	0.30	0.00	1.00
S1HIPREF	197	0.55	0.50	0.00	1.00
S2HIPREF	85	0.72	0.45	0.00	1.00
S3HIPREF	15	0.13	0.35	0.00	1.00

Categorical Variable Codes

	R1HGHTSFT	R2HGHTSFT	R3HGHTSFT
Valuec:completed test	2537	2220	2049
.m:Missing	131	2220	218
· · · · · · · · · · · · · · · · · · ·	12242	11212	13419
.s:Skip		11343	13419
0.no	144	109	27
1.yes	132	32	37
Value	S1HGHTSFT	S2HGHTSFT	S3HGHTSFT
.c:completed test	1776	1550	1394
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	101	65	
1.yes	88	20	17
Value	R1HGHTTRYU	R2HGHTTRYU	R3HGHTTRYU
.c:completed test	2537	2220	2049
.m:Missing	131	44040	218
.s:Skip	12242	11343	13419
0.no	268	128	37
1.yes	8	13	
Value	S1HGHTTRYU	S2HGHTTRYU	S3HGHTTRYU
.c:completed test	1776	1550	1394
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	185	77	17
1.yes	4	8	
Value	R1HGHTREF	R2HGHTREF	R3HGHTREF
.c:completed test	2537	2220	2049
.m:Missing		2220	
_	131		
s•Skin	131	11343	218
.s:Skip	12242	11343	218 13419
0.no	12242 140	45	218
- · · · · · · · · · · · · · · · · · · ·	12242		218 13419
0.no	12242 140	45	218 13419
0.no 1.yes	12242 140 136	45 96	218 13419 37
0.no	12242 140 136 S1HGHTREF	45 96 S2HGHTREF	218 13419 37 S3HGHTREF
0.no 1.yes Valuec:completed test	12242 140 136 S1HGHTREF 1776	45 96 S2HGHTREF	218 13419 37 S3HGHTREF 1394
O.no 1.yes Valuec:completed test .m:Missing	12242 140 136 S1HGHTREF 1776 95	45 96 S2HGHTREF 1550	218 13419 37 S3HGHTREF 1394 141
O.no 1.yes Valuec:completed test .m:Missing .s:Skip	12242 140 136 S1HGHTREF 1776 95 8588	45 96 S2HGHTREF 1550 7929	218 13419 37 S3HGHTREF 1394 141 9040
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar	12242 140 136 S1HGHTREF 1776 95 8588 4205	45 96 S2HGHTREF 1550 7929 4009	218 13419 37 S3HGHTREF 1394 141 9040 4782
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR	12242 140 136 S1HGHTREF 1776 95 8588 4205 333	45 96 S2HGHTREF 1550 7929 4009 131	218 13419 37 S3HGHTREF 1394 141 9040 4782 349
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97	45 96 S2HGHTREF 1550 7929 4009 131 28 57	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Value	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Value	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537	45 96 S2HGHTREF 1550 7929 4009 131 28 57	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242 144	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242 144	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225 11343 103 33 S2WGHTSFT	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip O.no 1.yes Value	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242 144 132	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225 11343 103 33	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419 2
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip O.no 1.yes	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242 144 132 S1WGHTSFT	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225 11343 103 33 S2WGHTSFT	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419 2 27 S3WGHTSFT
O.no 1.yes Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR O.no 1.yes Valuec:completed test .m:Missing .s:Skip O.no 1.yes Value	12242 140 136 S1HGHTREF 1776 95 8588 4205 333 92 97 R1WGHTSFT 2537 131 12242 144 132 S1WGHTSFT 1777	45 96 S2HGHTREF 1550 7929 4009 131 28 57 R2WGHTSFT 2225 11343 103 33 S2WGHTSFT	218 13419 37 S3HGHTREF 1394 141 9040 4782 349 17 R3WGHTSFT 2057 218 13419 2 27 S3WGHTSFT 1399

.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	99	58	4.0
1.yes	89	20	12
17.1	D 1 M CHEMPONIA	D O LI CUI III III II II	D Originmentiii
Value	R1WGHTTRYU	R2WGHTTRYU	R3WGHTTRYU
.c:completed test	2537	2225	2057
.m:Missing	131	44040	218
.s:Skip	12242	11343	13419
0.no	269	127	27
1.yes	7	9	2
Value	S1WGHTTRYU	S2WGHTTRYU	S3WGHTTRYU
.c:completed test	1777	1557	1399
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	185	74	12
1.yes	3	4	
Value	R1WGHTREF	R2WGHTREF	R3WGHTREF
.c:completed test	2537	2225	2057
.m:Missing	131		245
.s:Skip	12242	11343	13419
0.no	139	42	2
1.yes	137	94	
Value	S1WGHTREF	S2WGHTREF	S3WGHTREF
.c:completed test	1777	1557	1399
.m:Missing	95		153
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	92	24	
1.yes	96	54	
Value	R1WSTSFT	R2WSTSFT	R3WSTSFT
.c:completed test	2531	2220	2053
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	156	111	5
1.yes	126	30	28
Value	S1WSTSFT	S2WSTSFT	S3WSTSFT
.c:completed test	1768	1550	1396
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	112	67	2
1.yes	85	18	13
Value	R1WSTTRYU	R2WSTTRYU	R3WSTTRYU
.c:completed test	2531	2220	2053
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	276	131	31
1.yes	6	10	2
Value	S1WSTTRYU	S2WSTTRYU	S3WSTTRYU
.c:completed test	1768	1550	1396
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	195	79	15
1.yes	2	6	
			- 0
Value	R1WSTREF	R2WSTREF	R3WSTREF
.c:completed test	2531	2220	2053
.m:Missing	131	11040	218
.s:Skip	12242	11343	13419

0.no	132 150	40 101	30 3
1.yes	1 130	101	3
Value	S1WSTREF	S2WSTREF	S3WSTREF
.c:completed test	1768	1550	1396
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	87 110	24 61	13
1.yes	1 110	91	۷
Value	R1HIPSFT	R2HIPSFT	R3HIPSFT
.c:completed test	2529	2220	2054
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	156	112	4
1.yes	128	29	28
Value	S1HIPSFT	S2HIPSFT	S3HIPSFT
.c:completed test	1768	1550	1396
.m:Missing	1 95	1330	141
.s:Skip	8588	7929	9040
.u:Unmar	1 4205	4009	4782
.v:SP NR	333	131	349
0.no	111	68	2
1.yes	86	17	13
Value	1 11110000011	D Q III D M D VII	D 2111 D M D VII
.c:completed test	R1HIPTRYU L 2529	R2HIPTRYU 2220	R3HIPTRYU 2054
.m:Missing	131	2220	218
.s:Skip	12242	11343	13419
0.no	278	130	31
1.yes	6	11	1
Value	S1HIPTRYU	S2HIPTRYU	S3HIPTRYU
.c:completed test	1768	1550	1396
.m:Missing	95	5000	141
.s:Skip	8588	7929	9040
.u:Unmar	4205 333	4009	4782
.v:SP NR 0.no	195	131 78	349 15
1.yes	1 2	7 7	13
1.,00		,	
Value	R1HIPREF	R2HIPREF	R3HIPREF
.c:completed test	2529	2220	2054
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	134	40	29
1.yes	150	101	3
Value	S1HIPREF	S2HIPREF	S3HIPREF
.c:completed test	1768	1550	1396
.m:Missing	95	1000	141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	88	24	13
1.yes	109	61	2

How Constructed

RwHGHTSFT and RwWGHTSFT indicate whether the respondent couldn't complete the height and weight measures because of safety reasons, respectively. RwHGHTSFT and RwWGHTSFT are coded as 1 if the respondent couldn't stand to complete the measures or the measurements were not attempted for the respondent's safety. RwHGHTSFT and RwWGHTSFT are coded as 0 if they tried to measure the height or weight but couldn't do it, the respondent didn't try, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwHGHTTRYU and RwWGHTTRYU indicate whether the respondent tried to complete the height and weight measures but couldn't do it, respectively. RwHGHTSFT and RwWGHTSFT are coded as 1 if the respondent tried but couldn't complete the measures. RwHGHTSFT and RwWGHTSFT are coded as 0 if the respondent didn't try, couldn't stand, the measurements were not attempted for the respondent's safety, or they refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RWHGHTREF and RwWGHTREF indicate whether the respondent refused to complete the height and weight measures, respectively. RwHGHTREF and RwWGHTREF are coded as 1 if the respondent refused or didn't try to complete the measures. RwHGHTREF and RwWGHTREF are coded as 0 if they tried to measure the height or weight but couldn't do it, the respondent couldn't stand, or the measurements were not attempted for the respondent's safety. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwHGHTSFT, SwWGHTSFT, SwHGHTTRYU, SwWGHTTRYU, SwHGHTREF, and SwWGHTREF are the measures of the respondent's spouse and are taken directly from the spouse's RwHGHTSFT, RwWGHTSFT, RwHGHTRYU, RwWGHTREF, and RwWGHTREF, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwHGHTSFT, SwWGHTSFT, SwHGHTTRYU, SwWGHTREF, and SwWGHTREF employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwWSTSFT and RwHIPSFT indicate whether the respondent couldn't complete the waist and hip circumference measurements because of safety reasons, respectively. RwWSTSFT and RwHIPSFT are coded as 1 if the respondent couldn't stand to complete the measures or the measurements were not attempted for the respondent's safety. RwWSTSFT and RwHIPSFT are coded as 0 if they tried to measure the waist and hip circumference but couldn't do it, the respondent didn't try, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwWSTTRYU and RwHIPTRYU indicate whether the respondent tried to complete the waist and hip circumference measurements but couldn't do it, respectively. RwWSTTRYU and RwHIPTRYU are coded as 1 if the respondent tried but couldn't complete the measures. RwWSTTRYU and RwHIPTRYU are coded as 0 if the respondent didn't try, couldn't stand, the measurements were not attempted for the respondent's safety, or they refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwWSTREF and RwHIPREF indicate whether the respondent refused to complete the waist and hip circumference measurements, respectively. RwWSTREF and RwHIPREF are coded as 1 if the respondent refused or didn't try to complete the measures. RwWSTREF and RwHIPREF are coded as 0 if they tried to measure waist and hip circumference measurements but couldn't do it, the respondent couldn't stand, or the measurements were not attempted for the respondent's safety. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwWSTSFT, SwHIPSFT, SwWSTTRYU, SwHIPTRYU, SwWSTREF, and SwHIPREF are the measures of the respondent's spouse and are taken directly from the spouse's RwWSTSFT, RwHIPSFT, RwWSTTRYU, RwHIPTRYU, RwWSTREF, and RwHIPREF, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwWSTSFT, SwHIPSFT, SwWSTTRYU, SwHIPTRYU, SwWSTREF, and SwHIPREF employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2 anthropometric measures (including height, weight, and waist and hip circumference) were obtained from a sub-sample selected randomly from the baseline sample, distributed in the 32 states. However, in Wave 3 a new sub-sample was selected to complete anthropometric, biomarkers, and other measures. This sub-sample was limited to the complete sample of four states. Anthropometrics data was not collected in Waves 4 and 5.

Differences with the RAND HRS/Harmonized HRS

The HRS does not complete a hip measurement, so RwHIPSFT, RwHIPTRYU, and RwHIPREF are not available in the RAND HRS or Harmonized HRS. The Harmonized HRS includes additional variables to indicate if the respondent did not complete the height, weight, and waist measurements due to faulty equipment or for other reasons. In the HRS, multiple reasons can be chosen to explain why the respondent did not complete the measurements, while a single reason is chosen to explain why the respondent did not complete the measurements in the MHAS.

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Master File:
    ANTRO 01
                    Selected for anthropometric measurement 2001
    ANTRO 03
                    Selected for anthropometric measurement 2003
    SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 1:
    L1
                    selected for anthropometric measures
    L3
                    weight
    L4
                    height
                    waist
    L5
    L6
                    hip
Wave 2:
                    selected for anthropometric measures
    T.1
                    present for measures
    L1A
    T.3
                    weight
    L4
                    height
    L_5
                    waist
    L6
                    hip
Wave 3:
    A0104 12
                    Is the respondent able to stand without support?
    A0105 12
                    Does the respondent have a visible spinal curvature?
                    Can the respondent get a proper upright posture?
    A0106 12
    CADERA1 12
                    Hip circumference - first measurement
                    Hip circumference - second measurement
    CADERA2 12
    CINTURA1 12
                    Waist circumference - first measurement
                    Waist circumference - second measurement
    CINTURA2 12
    ESTATU1 \overline{12}
                    Height - first measurement
                    Height - second measurement
    ESTATU2 12
                    Weight - first measurement
    PESO1 12
                    Weight - second measurement
    PESO2 12
```

Sitting Height

Wave	Variable	Label	Туре
2	R2SITHGHT	r2sithght: w2 R Measured Sitting Height in cm	Cont
	R3SITHGHT	r3sithght: w3 R Measured Sitting Height in cm	Cont
2	S2SITHGHT	s2sithght: w2 S Measured Sitting Height in cm	Cont
	S3SITHGHT	s3sithght: w3 S Measured Sitting Height in cm	Cont
2	R2CHAIRHGHT	r2chairhght: w2 R Chair Height in cm	Cont
	R3CHAIRHGHT	r3chairhght: w3 R Chair Height in cm	Cont
2	S2CHAIRHGHT	s2chairhght: w2 S Chair Height in cm	Cont
	S3CHAIRHGHT	s3chairhght: w3 S Chair Height in cm	Cont
2	R2STHTCOMP R3STHTCOMP	r2sthtcomp: w2 R willing & able to complete sitting height m r3sthtcomp: w3 R willing & able to complete sitting height m	Categ Categ
2	S2STHTCOMP S3STHTCOMP	s2sthtcomp: w2 S willing & able to complete sitting height m s3sthtcomp: w3 S willing & able to complete sitting height m	Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2SITHGHT	2191	121.23	9.56	50.00	150.00
R3SITHGHT	2048	125.26	6.65	91.00	160.10
S2SITHGHT	1538	122.18	9.74	50.00	150.00
S3SITHGHT	1394	126.04	6.47	91.00	160.10
R2CHAIRHGHT	2193	43.88	4.45	25.00	70.00
R3CHAIRHGHT	2048	43.82	4.01	30.00	69.00
S2CHAIRHGHT	1538	44.08	4.50	25.00	70.00
S3CHAIRHGHT	1394	43.77	4.02	30.00	68.55
R2STHTCOMP	2361	0.93	0.26	0.00	1.00
R3STHTCOMP	2086	0.98	0.13	0.00	1.00
S2STHTCOMP	1635	0.94	0.24	0.00	1.00
S3STHTCOMP	1411	0.99	0.11	0.00	1.00

Categorical Variable Codes

Value	R2STHTCOMP	R3STHTCOMP
.m:Missing		218
.s:Skip	11343	13419
0.no	170	38
1.yes	2191	2048
Value	S2STHTCOMP	S3STHTCOMP
.m:Missing		141
.s:Skip	7929	9040
.u:Unmar	4009	4782
.v:SP NR	131	349
0.no	97	17
1.yes	1538	1394

How Constructed

RwSITHGHT is the measured sitting height variable and RwCHAIRHGHT is the chair height used to complete the measurement. RwSITHGHT and RwCHAIRHGHT are taken from a subsample of the MHAS and given in centimeters. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also, a special missing value .x is used if they tried to measure the sitting height but couldn't do it and a special missing value .n is used if they couldn't stop moving or cannot sit. Refused and didn't try responses are assigned .r, and other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWSTHTCOMP indicates whether the respondent is willing and able to complete the sitting height measure. RWSTHTCOMP is coded as 1 if the respondent understood the directions for the test, the respondent felt it would be safe to complete the test, and the interviewer was able to complete the measures. RWSTHTCOMP is coded as 0 if they tried to measure the sitting height but couldn't do it, the respondent didn't try, couldn't stop moving, cannot sit, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

SwSITHGHT, SwCHAIRHGHT, and SwSTHTCOMP are the measures of the respondent's spouse and are taken directly from the spouse's RwSITHGHT, RwCHAIRHGHT, and RwSTHTCOMP, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwSITHGHT, SwCHAIRHGHT, and SwSTHTCOMP employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The sitting height measures are only available for waves 2 and 3. In wave 2 anthropometric measures (including height, weight, and waist and hip circumference) were obtained from a sub-sample selected randomly from the baseline sample, distributed in the 32 states. However, in wave 3 a new sub-sample was selected to complete anthropometric, biomarkers, and other measures. This sub-sample was limited to the complete sample of four states. Anthropometrics data was not collected in Waves 4 and 5.

In Wave 2, a single measurement was taken, which is used to assign values for these variables in this wave. In Wave 3, two measurements were taken, so the average of the two measurements is used to assign values for these variables in this wave.

The reasons the respondent could not complete the sitting height measurement changes between waves. In Wave 2, the option "cannot stand" is replaced with "cannot sit" in Wave 3.

Differences with the RAND HRS/Harmonized HRS

The HRS does not complete a sitting height measurement, so these variables are not available in the RAND HRS or Harmonized HRS.

```
Master File:
    ANTRO 03
                    Selected for anthropometric measurement 2003
    SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 2:
    L1
                    selected for anthropometric measures
    T.1 A
                    present for measures
    L7 1
                    seated height
    L7 2
                    height of chair
Wave 3:
    A0104 12
                    Is the respondent able to stand without support?
    A0105 12
                    Does the respondent have a visible spinal curvature?
    A0106 12
                    Can the respondent get a proper upright posture?
   ASENTĪ 12
                    Sitting height - first measurement
                    Sitting height - second measurement
    ASENT2 12
    ASILLA1 12
                    Height of the chair - first measurement
                    Height of the chair - second measurement
    ASILLA2 12
```

Sitting Height: Reason Didn't Complete

Wave	Variable	Label	Туре
2	R2STHTSFT R3STHTSFT	r2sthtsft: w2 R cannot sit/straighten to complete sitting he r3sthtsft: w3 R cannot sit/straighten to complete sitting he	Categ Categ
2	S2STHTSFT S3STHTSFT	s2sthtsft: w2 S cannot sit/straighten to complete sitting he s3sthtsft: w3 S cannot sit/straighten to complete sitting he	Categ Categ
2	R2STHTTRYU R3STHTTRYU	r2sthttryu: w2 R tried but could not complete sitting height r3sthttryu: w3 R tried but could not complete sitting height	Categ Categ
2	S2STHTTRYU S3STHTTRYU	s2sthttryu: w2 S tried but could not complete sitting height s3sthttryu: w3 S tried but could not complete sitting height	Categ Categ
	R2STHTREF R3STHTREF	r2sthtref: w2 R refused and did not try to complete sitting r3sthtref: w3 R refused and did not try to complete sitting	Categ Categ
2	S2STHTREF S3STHTREF	s2sthtref: w2 S refused and did not try to complete sitting s3sthtref: w3 S refused and did not try to complete sitting	Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2STHTSFT	170	0.15	0.36	0.00	1.00
R3STHTSFT	38	0.97	0.16	0.00	1.00
S2STHTSFT	97	0.16	0.37	0.00	1.00
S3STHTSFT	17	1.00	0.00	1.00	1.00
R2STHTTRYU	170	0.09	0.28	0.00	1.00
R3STHTTRYU	38	0.03	0.16	0.00	1.00
S2STHTTRYU	97	0.06	0.24	0.00	1.00
S3STHTTRYU	17	0.00	0.00	0.00	0.00
R2STHTREF	170	0.76	0.43	0.00	1.00
R3STHTREF	38	0.00	0.00	0.00	0.00
S2STHTREF	97	0.77	0.42	0.00	1.00
S3STHTREF	17	0.00	0.00	0.00	0.00

Categorical Variable Codes

Value	R2STHTSFT	R3STHTSFT
.c:completed test	2191	2048
.m:Missing		218
.s:Skip	11343	13419
0.no	144	1
1.yes	26	37
Value	S2STHTSFT	S3STHTSFT
.c:completed test	1538	1394
.m:Missing		141
.s:Skip	7929	9040
.u:Unmar	4009	4782
.v:SP NR	131	349
0.no	81	
1.yes	16	17
Value	R2STHTTRYU	R3STHTTRYU

.c:completed test .m:Missing .s:Skip 0.no 1.yes	2191 11343 155 15	2048 218 13419 37
Value	S2STHTTRYU 1538 7929 4009 131 91 6	S3STHTTRYU 1394 141 9040 4782 349 17
Value	R2STHTREF 2191 11343 41 129	R3STHTREF 2048 218 13419 38
Value	S2STHTREF 1538 7929 4009 131 22 75	S3STHTREF 1394 141 9040 4782 349 17

How Constructed

RwSTHTSFT indicates whether the respondent couldn't complete the sitting height measure because of safety reasons. RwSTHTSFT is coded as 1 if the respondent couldn't stop moving or cannot sit to complete the measure. RwSTHTSFT is coded as 0 if they tried to measure the sitting height but couldn't do it, the respondent didn't try, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RWSTHTTRYU indicates whether the respondent tried to complete the sitting height measure but couldn't do it. RWSTHTTRYU is coded as 1 if the respondent tried but couldn't complete the measure. RWSTHTTRYU is coded as 0 if the respondent didn't try, couldn't stop moving, cannot sit, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RWSTHTREF indicates whether the respondent refused to complete the sitting height measure. RwHSTHTREF is coded as 1 if the respondent refused to complete the measure. RwSTHTREF is coded as 0 if they tried to measure the sitting height but couldn't do it, the respondent didn't try, couldn't stop moving, or cannot sit. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

SwSTHTSFT, SwSTHTTRYU, and SwSTHTREF are the measures of the respondent's spouse and are taken directly from the spouse's RwSTHTSFT, RwSTHTTRYU, and RwSTHTREF, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwSTHTSFT, SwSTHTTRYU, and SwSTHTREF employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The sitting height measures are only available for Waves 2 and 3. In Wave 2 anthropometric measures (including height, weight, and waist and hip circumference) were obtained from a sub-sample selected randomly from the baseline sample, distributed in the 32 states. However, in Wave 3 a new sub-sample was selected to complete anthropometric, biomarkers, and other measures. This sub-sample was limited to the complete sample of four states. Anthropometrics data was not collected in Waves 4 and 5.

The reasons the respondent could not complete the sitting height measurement changes between waves. In Wave 2, the option "cannot stand" is replaced with "cannot sit" in Wave 3.

Differences with the RAND HRS/Harmonized HRS

The HRS does not complete a sitting height measurement, so these variables are not available in the RAND HRS or Harmonized HRS.

```
Master File:
    ANTRO 03
                    Selected for anthropometric measurement 2003
    SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 2:
                    selected for anthropometric measures
    T.1
    L1A
                    present for measures
    L7 1
                    seated height
    L7<sup>2</sup>
                    height of chair
Wave 3:
    A0104 12
                    Is the respondent able to stand without support?
    A0105 12
                    Does the respondent have a visible spinal curvature?
    A0106 12
                    Can the respondent get a proper upright posture?
    ASENT1_12
                    Sitting height - first measurement
                    Sitting height - second measurement
    ASENT2 12
```

Balance Test

Wave	Variable	Label	Туре
2	R1BALRTSEC R2BALRTSEC R3BALRTSEC	r1balrtsec: w1 R Right Foot Balance Results (sec) r2balrtsec: w2 R Right Foot Balance Results (sec) r3balrtsec: w3 R Right Foot Balance Results (sec)	Cont Cont Cont
2	S1BALRTSEC S2BALRTSEC S3BALRTSEC	s1balrtsec: w1 S Right Foot Balance Results (sec) s2balrtsec: w2 S Right Foot Balance Results (sec) s3balrtsec: w3 S Right Foot Balance Results (sec)	Cont Cont Cont
2	R1BALRT R2BALRT R3BALRT	r1balrt: w1 R Right Foot Balance Test Completed 10 sec r2balrt: w2 R Right Foot Balance Test Completed 10 sec r3balrt: w3 R Right Foot Balance Test Completed 10 sec	Categ Categ Categ
2	S1BALRT S2BALRT S3BALRT	s1balrt: w1 S Right Foot Balance Test Completed 10 sec s2balrt: w2 S Right Foot Balance Test Completed 10 sec s3balrt: w3 S Right Foot Balance Test Completed 10 sec	Categ Categ Categ
2	R1BALRTCOMP R2BALRTCOMP R3BALRTCOMP	r1balrtcomp: w1 R willing & able to complete right foot bala r2balrtcomp: w2 R willing & able to complete right foot bala r3balrtcomp: w3 R willing & able to complete right foot bala	Categ Categ Categ
2	S1BALRTCOMP S2BALRTCOMP S3BALRTCOMP	s1balrtcomp: w1 S willing & able to complete right foot bala s2balrtcomp: w2 S willing & able to complete right foot bala s3balrtcomp: w3 S willing & able to complete right foot bala	Categ Categ Categ
2	R1BALLFSEC R2BALLFSEC R3BALLFSEC	r1ballfsec: w1 R Left Foot Balance Results (sec) r2ballfsec: w2 R Left Foot Balance Results (sec) r3ballfsec: w3 R Left Foot Balance Results (sec)	Cont Cont Cont
2	S1BALLFSEC S2BALLFSEC S3BALLFSEC	s1ballfsec: w1 S Left Foot Balance Results (sec) s2ballfsec: w2 S Left Foot Balance Results (sec) s3ballfsec: w3 S Left Foot Balance Results (sec)	Cont Cont Cont
2	R1BALLF R2BALLF R3BALLF	r1ballf: w1 R Left Foot Balance Test Completed 10 sec r2ballf: w2 R Left Foot Balance Test Completed 10 sec r3ballf: w3 R Left Foot Balance Test Completed 10 sec	Categ Categ Categ
2	S1BALLF S2BALLF S3BALLF	s1ballf: w1 S Left Foot Balance Test Completed 10 sec s2ballf: w2 S Left Foot Balance Test Completed 10 sec s3ballf: w3 S Left Foot Balance Test Completed 10 sec	Categ Categ Categ
2	R1BALLFCOMP R2BALLFCOMP R3BALLFCOMP	r1ballfcomp: w1 R willing & able to complete left foot balan r2ballfcomp: w2 R willing & able to complete left foot balan r3ballfcomp: w3 R willing & able to complete left foot balan	Categ Categ Categ
	S1BALLFCOMP S2BALLFCOMP S3BALLFCOMP	s1ballfcomp: w1 S willing & able to complete left foot balan s2ballfcomp: w2 S willing & able to complete left foot balan s3ballfcomp: w3 S willing & able to complete left foot balan	Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BALRTSEC	2048	8.41	2.55	1.00	10.00
R2BALRTSEC	1887	8.29	2.78	1.00	10.00
R3BALRTSEC	1913	7.48	3.37	1.00	10.00
S1BALRTSEC	1477	8.57	2.45	1.00	10.00
S2BALRTSEC	1374	8.46	2.66	1.00	10.00

•					
S3BALRTSEC	1332	7.72	3.24	1.00	10.00
R1BALRT R2BALRT	2048 1887	0.65 0.67	0.48 0.47	0.00	1.00
R3BALRT	1913	0.58	0.47	0.00	1.00
S1BALRT	1477	0.68 0.70	0.47	0.00	1.00
S2BALRT S3BALRT	1374 1332	0.70	0.49	0.00	1.00
R1BALRTCOMP	2759 2361	0.74	0.44	0.00	1.00
R2BALRTCOMP R3BALRTCOMP	2086	0.80 0.92	0.40 0.28	0.00	1.00
S1BALRTCOMP	1925	0.77	0.42	0.00	1.00
S2BALRTCOMP S3BALRTCOMP	1635 1411	0.84 0.94	0.37 0.23	0.00	1.00
R1BALLFSEC	2036	8.20	2.73	1.00	10.00
R2BALLFSEC R3BALLFSEC	1872 1916	8.18 7.29	2.82 3.39	1.00	10.00
S1BALLFSEC	1472	8.37	2.64	1.00	10.00
S2BALLFSEC S3BALLFSEC	1366 1334	8.34 7.54	2.70 3.29	1.00	10.00
R1BALLF	2036	0.63	0.48	0.00	1.00
R2BALLF R3BALLF	1872 1916	0.65 0.54	0.48 0.50	0.00	1.00
S1BALLF	1472	0.66	0.47	0.00	1.00
S2BALLF S3BALLF	1366 1334	0.68 0.58	0.47	0.00	1.00
R1BALLFCOMP	2758	0.74	0.44	0.00	1.00
R2BALLFCOMP R3BALLFCOMP	2361 2086	0.79 0.92	0.41 0.27	0.00	1.00
S1BALLFCOMP	1924	0.77	0.42	0.00	1.00
S2BALLFCOMP S3BALLFCOMP	1635 1411	0.84 0.95	0.37 0.23	0.00	1.00 1.00

Categorical Variable Codes

Value	R1BALRT	R2BALRT	R3BALRT
.e:measured in error	54		
.m:Missing	131		218
.n:not willing/able	367	240	85
.r:Refuse	225	97	
.s:Skip	12242	11343	13419
.x:tried but unable	119	137	88
0.no	712	615	801
1.yes	1336	1272	1112
Value	S1BALRT	S2BALRT	S3BALRT
.e:measured in error	40		
.m:Missing	95		141
.n:not willing/able	209	116	39
.r:Refuse	172	62	
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
.x:tried but unable	67	83	40
0.no	475	409	518
1.yes	1002	965	814

Value		R2BALRTCOMP	R3BALRTCOMP
.e:measured in error	54		
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	711	474	173
1.yes	2048	1887	1913
Value		S2BALRTCOMP	S3BALRTCOMP
.e:measured in error	40		
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	448	261	79
1.yes	1477	1374	1332
Value	R1BALLF	R2BALLF	R3BALLF
.e:measured in error	55		
.m:Missing	131		218
.n:not willing/able	370	254	81
.r:Refuse	230	97	
.s:Skip	12242	11343	13419
.x:tried but unable	122	138	89
0.no	746	646	876
1.yes	1290	1226	1040
Value	S1BALLF	S2BALLF	S3BALLF
.e:measured in error	41		
.m:Missing	95		141
.n:not willing/able	208	126	38
.r:Refuse	177	62	
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
.x:tried but unable	67	81	39
0.no	497	443	565
1.yes	975	923	769
Value	R1BALLFCOMP	R2BALLFCOMP	R3BALLFCOMP
.e:measured in error	I 55		
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	722	489	170
1.yes	2036	1872	1916
Value	S1BALLFCOMP	S2BALLFCOMP	S3BALLFCOMP
.e:measured in error	41		
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	1 452	269	77
1.yes	1472	1366	1334
1 · 1 CO	1 1 1 2	1200	1004

How Constructed

RwBALRTSEC and RwBALLFSEC are the respective right and left foot balance test results, taken from a subsample of the MHAS and given in seconds. RwBALRT and RwBALLF indicate whether the respondent completed the balance test for at least 10 seconds, with the right and left foot, respectively. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also, a special missing value .x is used if the respondent tried to complete the test but couldn't do it and a special missing value .n is used if they had a missing or injured extremity, couldn't stand up, or did not try for safety reasons. Refused responses are assigned .r, and other missing responses of these variables are assigned special missing value .m. If the measurement was taken by mistake, then these variables are assigned special missing value .e. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwBALRTCOMP and RwBALLFCOMP indicate whether the respondent is willing and able to complete the balance test. RwSTHTCOMP is coded as 1 if the respondent understood the directions for the test, the respondent felt it would be safe to complete the test, and the interviewer was able to complete the measures.

RWSTHTCOMP is coded as 0 if the respondent tried to complete the test but couldn't do it, the respondent was missing a leg or was injured, the respondent didn't try, couldn't stand up, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of these variables are assigned special missing value .m. If the measurement was taken by mistake, then these variables are assigned special missing value .e. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwBALRTSEC, SwBALLFSEC, SwBALRT, SwBALLF, SwBALRTCOMP, and SwBALLFCOMP are the measures of the respondent's spouse and are taken directly from the spouse's RwBALRTSEC, RwBALLFSEC, RwBALRT, RwBALLF, RwBALRTCOMP, and RwBALLFCOMP, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwBALRTSEC, SwBALLFSEC, SwBALRT, SwBALLF, SwBALRTCOMP, and SwBALLFCOMP, employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2 anthropometric and performance measures (including the balance test) were obtained from a sub-sample selected randomly from the baseline sample, distributed in the 32 states. However, in Wave 3 a new sub-sample was selected to complete anthropometric and performance measures, biomarkers, and other measures. This sub-sample was limited to the complete sample of four states. Anthropometrics and performance measures data was not collected in Waves 4 and 5.

Differences with the RAND HRS/Harmonized HRS

While the HRS completes balance tests, they are not comparable to those completed in the MHAS. As such, there are no comparable variables in the RAND HRS or Harmonized HRS.

```
Master File:
   ANTRO 01
                    Selected for anthropometric measurement 2001
    ANTRO 03
                    Selected for anthropometric measurement 2003
    SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 1:
    L1
                    selected for anthropometric measures
    L9 1
                    right foot
    L9 _2
                    left foot
Wave 2:
    T.1
                   selected for anthropometric measures
                   present for measures
    L1A
                    right foot
    L9 1
    L9 2
                    left foot
Wave 3:
                    Balance - on right foot
    PIEDER 12
    PIEIZQ 12
                    Balance - on left foot
```

Balance Test: Reason Didn't Complete

Wave	Variable	Label	Type
1	R1BALSFT	r1balsft: w1 R cannot complete balance test for safety reaso r2balsft: w2 R cannot complete balance test for safety reaso r3balsft: w3 R cannot complete balance test for safety reaso	Categ
2	R2BALSFT		Categ
3	R3BALSFT		Categ
1	S1BALSFT	s1balsft: w1 S cannot complete balance test for safety reaso s2balsft: w2 S cannot complete balance test for safety reaso s3balsft: w3 S cannot complete balance test for safety reaso	Categ
2	S2BALSFT		Categ
3	S3BALSFT		Categ
1	R1BALREF	r1balref: w1 R refused and did not try to complete balance t r2balref: w2 R refused and did not try to complete balance t r3balref: w3 R refused and did not try to complete balance t	Categ
2	R2BALREF		Categ
3	R3BALREF		Categ
1	S1BALREF	slbalref: w1 S refused and did not try to complete balance t s2balref: w2 S refused and did not try to complete balance t s3balref: w3 S refused and did not try to complete balance t	Categ
2	S2BALREF		Categ
3	S3BALREF		Categ
1	R1BALTRYU	r1baltryu: w1 R tried but could not complete balance test r2baltryu: w2 R tried but could not complete balance test r3baltryu: w3 R tried but could not complete balance test	Categ
2	R2BALTRYU		Categ
3	R3BALTRYU		Categ
1	S1BALTRYU	s1baltryu: w1 S tried but could not complete balance test s2baltryu: w2 S tried but could not complete balance test s3baltryu: w3 S tried but could not complete balance test	Categ
2	S2BALTRYU		Categ
3	S3BALTRYU		Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BALSFT	722	0.51	0.50	0.00	1.00
R2BALSFT	489	0.52	0.50	0.00	1.00
R3BALSFT	170	0.48	0.50	0.00	1.00
S1BALSFT	452	0.46	0.50	0.00	1.00
S2BALSFT	269	0.47	0.50	0.00	1.00
S3BALSFT	77	0.49	0.50	0.00	1.00
R1BALREF	722	0.32	0.47	0.00	1.00
R2BALREF	489	0.20	0.40	0.00	1.00
R3BALREF	170	0.00	0.00	0.00	0.00
S1BALREF	452	0.39	0.49	0.00	1.00
S2BALREF	269	0.23	0.42	0.00	1.00
S3BALREF	77	0.00	0.00	0.00	0.00
R1BALTRYU	722	0.17	0.37	0.00	1.00
R2BALTRYU	489	0.28	0.45	0.00	1.00
R3BALTRYU	170	0.52	0.50	0.00	1.00
S1BALTRYU	452	0.15	0.36	0.00	1.00
S2BALTRYU	269	0.30	0.46	0.00	1.00
S3BALTRYU	77	0.51	0.50	0.00	1.00

Categorical Variable Codes

Value	R1BALSFT	R2BALSFT	R3BALSFT
.c:completed test	2036	1872	1916
.e:measured in error	55		
.m:Missing	131		218

.s:Skip	12242	11343	13419
0.no	352	235	89
1.yes	370	254	81
Value	S1BALSFT	S2BALSFT	S3BALSFT
.c:completed test	1472	1366	1334
.e:measured in error	I 41	1300	1004
.m:Missing	95		141
_	8588	7929	9040
.s:Skip	4205	4009	4782
.u:Unmar .v:SP NR	1 333	131	349
0.no	244	143	39
1.yes	208	126	38
Value	R1BALREF	R2BALREF	R3BALREF
.c:completed test	2036	1872	1916
.e:measured in error	55		
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	492	392	170
1.yes	230	97	1,0
1.100	200	3,	
Value	S1BALREF	S2BALREF	S3BALREF
.c:completed test	1472	1366	1334
.e:measured in error	41		
.m:Missing	95		141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	275	207	77
1.yes	177	62	
·			
Value	R1BALTRYU	R2BALTRYU	R3BALTRYU
.c:completed test	2036	1872	1916
.e:measured in error	55		
.m:Missing	131		218
.s:Skip	12242	11343	13419
0.no	600	351	81
1.yes	122	138	89
17-1	01031 000	0.0031.002111	0.30% 1 002.22
Value	S1BALTRYU	S2BALTRYU	S3BALTRYU
.c:completed test	1472	1366	1334
.e:measured in error	41		
.m:Missing	95	7000	141
.s:Skip	8588	7929	9040
.u:Unmar	4205	4009	4782
.v:SP NR	333	131	349
0.no	385	188	38
1.yes	67	81	39

How Constructed

RwBALSFT indicates whether the respondent couldn't complete the balance test because of safety reasons. RwBALSFT is coded as 1 if the respondent was missing a leg or was injured, if the respondent couldn't stand to complete the measure, or if no attempt was made to complete the measure to be safe. RwBALSFT is coded as 0 if they tried to complete the balance test but couldn't do it, or refused to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RWBALTRYU indicates whether the respondent tried to complete the balance test but couldn't do it. RWBALTRYU is coded as 1 if the respondent tried but couldn't complete the balance test. RWBALTRYU is coded as 0 if the respondent was missing a leg or was injured, couldn't stand, refused to complete the measures, or no attempt was made to be safe. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RwBALREF indicates whether the respondent refused to complete the balance test. RwBALREF is coded as 1 if the respondent refused to complete the balance test. RwBALREF is coded as 0 if they tried to complete the balance test but couldn't do it, was missing a leg or was injured, couldn't stand, or no attempt was made to be safe. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

SwBALSFT, SwBALTRYU, and SwBALREF are the measures of the respondent's spouse and are taken directly from the spouse's RwBALSFT, RwBALTRYU, and RwBALREF, respectively. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. SwBALSFT, SwBALTRYU, and SwBALREF employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2 anthropometric and performance measures (including the balance test) were obtained from a sub-sample selected randomly from the baseline sample, distributed in the 32 states. However, in Wave 3 a new sub-sample was selected to complete anthropometric and performance measures, biomarkers, and other measures. This sub-sample was limited to the complete sample of four states. Anthropometrics and performance measures data was not collected in Waves 4 and 5.

Differences with the RAND HRS/Harmonized HRS

While the HRS completes balance tests, they are not comparable to those completed in the MHAS. RwBALSFT, RwBALREF, and RwBALTRYU in the Harmonized HRS have the same naming as the variables in the MHAS, however the balance tests completed in the two studies are not comparable. The Harmonized HRS also includes RwBALEQUP and RwBALOTHR to indicate whether the respondent did not complete the tests due to faulty equipment/space issue or for other reasons. In the HRS, multiple reasons can be chosen to explain why the respondent did not complete the balance tests, while a single reason is chosen to explain why the respondent did not complete the balance tests in the MHAS.

```
Master File:
    ANTRO 01
                    Selected for anthropometric measurement 2001
    ANTRO 03
                    Selected for anthropometric measurement 2003
    SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 1:
    L1
                    selected for anthropometric measures
                    right foot
    L9 1
    L9 2
                    left foot
Wave 2:
                    selected for anthropometric measures
    T.1
    T.1A
                    present for measures
    L9 1
                    right foot
    L9 2
                    left foot
Wave 3:
    PIEDER 12
                    Balance - on right foot
    PIEIZQ 12
                    Balance - on left foot
```

Blood Pressure Measurements

Wave	Variable	Label	Туре
3	R3SYSTO1	r3systol: w3 R Blood Pressure - Systolic Measure 1	Cont
3	S3SYSTO1	s3systol: w3 S Blood Pressure - Systolic Measure 1	Cont
3	R3SYSTO2	r3systo2: w3 R Blood Pressure - Systolic Measure 2	Cont
3	S3SYSTO2	s3systo2: w3 S Blood Pressure - Systolic Measure 2	Cont
3	R3SYSTO	r3systo: w3 R Average Blood Pressure - Systolic Measures 1 &	Cont
3	S3SYSTO	s3systo: w3 S Average Blood Pressure - Systolic Measures 1 &	Cont
3	R3DIASTO1	r3diasto1: w3 R Blood Pressure - Diastolic Measure 1	Cont
3	S3DIASTO1	s3diasto1: w3 S Blood Pressure - Diastolic Measure 1	Cont
3	R3DIASTO2	r3diasto2: w3 R Blood Pressure - Diastolic Measure 2	Cont
3	S3DIASTO2	s3diasto2: w3 S Blood Pressure - Diastolic Measure 2	Cont
3	R3DIASTO	r3diasto: w3 R Average Blood Pressure - Diastolic Measures 1	Cont
3	S3DIASTO	s3diasto: w3 S Average Blood Pressure - Diastolic Measures 1	Cont
3	R3PULSE1	r3pulse1: w3 R Pulse Measure 1	Cont
3	S3PULSE1	s3pulse1: w3 S Pulse Measure 1	Cont
3	R3PULSE2	r3pulse2: w3 R Pulse Measure 2	Cont
3	S3PULSE2	s3pulse2: w3 S Pulse Measure 2	Cont
3	R3PULSE	r3pulse: w3 R Average Pulse - Measures 1 & 2	Cont
3	S3PULSE	s3pulse: w3 S Average Pulse - Measures 1 & 2	Cont
3	R3BPCOMP	r3bpcomp: w3 R willing & able to complete blood pressure mea	Categ
3	S3BPCOMP	s3bpcomp: w3 S willing & able to complete blood pressure mea	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3SYSTO1	2086	139.86	21.80	82.00	190.00
S3SYSTO1	1411	138.80	21.26	88.00	190.00
R3SYSTO2	2086	137.06	21.38	72.00	190.00
S3SYSTO2	1411	136.00	20.86	72.00	190.00
R3SYSTO	2086	138.46	20.96	82.00	190.00
S3SYSTO	1411	137.40	20.42	85.50	190.00
R3DIASTO1	2086	79.21	11.66	42.00	126.00

0.00

1.00

1.00

Categorical Variable Codes

1411

S3BPCOMP

Value	R3BPCOMP
.m:Missing	218
.s:Skip	13419
1.yes	2086
Value	S3BPCOMP
.m:Missing	141
.s:Skip	9040
.u:Unmar	4782
.v:SP NR	349
1.yes	1411

1.00

How Constructed

RwSYSTO1 and RwSYSTO1 are the respondent's first and second systolic blood pressure measures. RwSYSTO is the average of the first and second systolic blood pressure readings. RwDIASTO1 and RwDIASTO2 are the respondent's first and second diastolic blood pressure measures. RwDIASTO is the average of the first and second diastolic blood pressure readings. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Respondents who refused to participate or did not cooperate are assigned special missing value .r. Also other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwPULSE1 and RwPULSE2 are the respondent's first and second pulse reading. RwPULSE is the average of the first and the second pulse readings. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Respondents who refused to participate or did not cooperate are assigned special missing value .r. Also other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwBPCOMP indicates whether the respondent is willing and able to complete the blood pleasure measurements. RwBPCOMP is coded as 1 if the respondent understood the directions for the test, the respondent felt it would be safe to complete the measures, and the interviewer was able to complete the measures. RwBPCOMP is coded as 0 if the respondent had any physical problem, the respondent did not cooperate, or refused to participate. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of this variable are assigned

special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

SwSYSTO1, SwSYSTO1, SwSYSTO, SwDIASTO1, SwDIASTO2, SwDIASTO, SwPULSE1, SwPULSE2, SwPULSE, and SwBPCOMP are the measures of the respondent's spouse and are taken directly from the spouse's RwSYSTO1, RwSYSTO1, RwSYSTO1, RwSYSTO1, RwDIASTO1, RwDIASTO2, RwDIASTO2, RwPULSE1, RwPULSE2, RwPULSE, and RwBPCOMP, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwSYSTO1, SwSYSTO1, SwSYSTO, SwDIASTO1, SwDIASTO2, SwDIASTO, SwPULSE1, SwPULSE2, SwPULSE, and SwBPCOMP, employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The blood pressure measurements were only part of the MHAS Wave 3 anthropometrics and performance measures in a sub-sample that was limited to the complete sample of four states.

Differences with the RAND HRS/Harmonized HRS

The HRS measures blood pressure three times, while the MHAS measures blood pressure two times. As a result of this difference, the Harmonized HRS includes RwSYSTO3, RwDIASTO3, and RwPULSE3, and RwSYSTO, RwDIASTO, and RwPULSE are the average of the second and third measurements, where available. The Harmonized HRS also includes RwBPACT30, indicating whether the respondent did any activity in the last 30 minutes that could impact their blood pressure reading, and RwBLDPOS, indicating the respondent's position during the blood pressure readings.

Master File: SUBSAMPLE 12	Selected subsample for Biomarkers/Anthropometrics 2012
Wave 3:	beleeced bubbampie for bromarkers/intentopomeetres 2012
wave J.	
DIAS1 12	First measurement - diastolic pressure
DIAS2 12	Second measurement - diastolic pressure
PULSO1 12	First measurement - pulse
PULSO2 12	Second measurement - pulse
RPRES1 12	First measurement - Results of the measure
RPRES2 12	Second measurement - Results of the measure
SIST1 $\overline{12}$	First measurement - systolic pressure
SIST2 12	Second measurement - systolic pressure

Blood Pressure Measurements: Reason Didn't Complete

Wave	Variable	Label	Type
3	R3BPSFT	r3bpsft: w3 R cannot complete blood pressure measures for sa	Categ
3	S3BPSFT	s3bpsft: w3 S cannot complete blood pressure measures for sa	Categ
3	R3BPREF	r3bpref: w3 R refused to complete blood pressure measures	Categ
3	S3BPREF	s3bpref: w3 S refused to complete blood pressure measures	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3BPSFT	0				
S3BPSFT	0				
R3BPREF	0				
S3BPREF	0				•

Categorical Variable Codes

Value	R3BPSFT 2086 218 13419
Value	S3BPSFT 1411 141 9040 4782 349
Value	R3BPREF 2086 218 13419
Value	S3BPREF 1411 141 9040 4782 349

How Constructed

RwBPSFT indicates whether the respondent couldn't complete the blood pressure measurements because of safety reasons. RwBPSFT is coded as 1 if the respondent had any physical problem. RwBPSFT is coded as 0 if the respondent did not cooperate or refused to participate to complete the measures. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RwBPREF indicates whether the respondent refused to complete the blood pressure measurements. RwBPREF is coded as 1 if the respondent did not cooperate or refused to participate to complete the measures. RwBPREF is coded as 0 if the respondent had any physical problem. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is

used to indicate that the subject completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

SwBPSFT and SwBPREF are the measures of the respondent's spouse and are taken directly from the spouse's RwBPSFT and RwBPREF, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwBPSFT and SwBPREF employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please note that these variables are provided in the Harmonized MHAS, however, since all respondents either completed the measure, were not part of the subsample, or had missing values, there are no 0 or 1 values present in these variables.

Cross Wave Differences in MHAS

The blood pressure measurements were only part of the MHAS Wave 3 anthropometrics and performance measures in a sub-sample that was limited to the complete sample of four states.

Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS also includes RwBPTRYU, RwBPEQUP, and RwBPOTHR, indicating whether the respondent did not complete the blood pressure measurements for safety, equipment, or other reasons, respectively. In the HRS, multiple reasons can be chosen to explain why the respondent did not complete the measurements, while a single reason is chosen to explain why the respondent did not complete the measurements in the MHAS.

Master File:	
SUBSAMPLE_12	Selected subsample for Biomarkers/Anthropometrics 2012
Wave 3:	
DIAS1_12	First measurement - diastolic pressure
DIAS2_12	Second measurement - diastolic pressure
PULSO1_12	First measurement - pulse
PULSO2_12	Second measurement - pulse
RPRES1_12	First measurement - Results of the measure
RPRES2_12	Second measurement - Results of the measure
SIST1_12	First measurement - systolic pressure
SIST2_12	Second measurement - systolic pressure

Timed Walk Measurements

Wave	Variable	Label	Type
3	R3WSPEED1	r3wspeed1: w3 R Walking Speed (sec) - Measure 1	Cont
3	S3WSPEED1	s3wspeed1: w3 S Walking Speed (sec) - Measure 1	Cont
3	R3WSPEED2	r3wspeed2: w3 R Walking Speed (sec) - Measure 2	Cont
3	S3WSPEED2	s3wspeed2: w3 S Walking Speed (sec) - Measure 2	Cont
3	R3WSPEED	r3wspeed: w3 R Average Walking Speed - Measures 1 & 2	Cont
3	S3WSPEED	s3wspeed: w3 S Average Walking Speed - Measures 1 & 2	Cont
3	R3WALKCOMP	r3walkcomp: w3 R willing & able to complete walking speed te	Categ
3	S3WALKCOMP	s3walkcomp: w3 S willing & able to complete walking speed te	Categ
3	R3WALKAID_M	r3walkaid_m: w3 Type of Aid Used during R's Walking Speed Te	Categ
3	s3walkaid_m	s3walkaid_m: w3 Type of Aid Used during S's Walking Speed Te	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3WSPEED1	2058	5.07	3.06	2.00	47.00
S3WSPEED1	1400	4.74	2.55	2.00	47.00
R3WSPEED2	2059	4.75	2.89	1.00	58.00
S3WSPEED2	1401	4.43	2.31	2.00	58.00
R3WSPEED	2057	4.91	2.91	2.00	52.50
S3WSPEED	1400	4.59	2.33	2.00	52.50
R3WALKCOMP	2078	0.99	0.10	0.00	1.00
S3WALKCOMP	1407	1.00	0.07	0.00	1.00
R3WALKAID_M	2065	0.04	0.23	0.00	2.00
S3WALKAID_M	1404	0.02	0.17	0.00	2.00

Categorical Variable Codes

value	RSWALKCOMP
.m:Missing	226
.s:Skip	13419
0.no	21
1.yes	2057
Value	S3WALKCOMP
.m:Missing	145
.s:Skip	9040
.u:Unmar	4782
.v:SP NR	349
0.no	7
1.yes	1400

Value	1	R3WALKAID M
.m:Missing		218
.n:not willing/able	l I	17
<u> </u>	!	
.r:Refuse	!	1
.s:Skip	I	13419
.x:tried but unable		3
0.None	I	2007
1.Cane		41
2.Other		17
Value		S3WALKAID M
.m:Missing	į	$1\overline{4}1$
.n:not willing/able	į	5
.r:Refuse		1
.s:Skip		9040
.u:Unmar		4782
.v:SP NR	į	349
.x:tried but unable	i	1
0.None	i	1380
1.Cane		18
	!	6
2.Other	I	0

How Constructed

RWWSPEED1 and RwWSPEED2 are the respondent's first and second walking speed measures over a distance of 3 meters and RwWSPEED is the respective average. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. If the respondent could not maintain the position without help, couldn't understand the instructions, no attempt was made for safety, or did not complete the tests for other reasons, then these variables are assigned special missing value .n. RwWSPEED1, RwWSPEED2, and RwWSPEED are assigned special missing value .i if the reported completion time was greater than 100 seconds. Respondents who tried to complete the tests but were unable to are assigned special missing value .x, and respondents who refused to complete the tests are assigned special missing value .r. Also other missing responses of these variables are assigned special missing value .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RwWALKCOMP indicates whether the respondent is willing and able to complete the walking speed exercise. RwWALKCOMP is coded as 1 if the respondent understood the directions for the test and the respondent felt it would be safe to complete the exercise. RwWALKCOMP coded as 0 if the respondent tried but couldn't do it, the respondent couldn't hold the position without any help, refused to participate, couldn't understand the instructions, or didn't attempt the exercise for safety reasons or for other reasons. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of these variables are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwWALKAID_M indicates the type of walking aid the respondent used to complete the walking speed exercise. RwWALKAID_M is coded as 0 if the respondent didn't use any aid to complete the exercise. RwWALKAID_M is coded as 1 if the respondent used a cane, and is coded as 2 if the respondent used some other walking aid. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. If the respondent could not maintain the position without help, couldn't understand the instructions, no attempt was made for safety, or did not complete the tests for other reasons, then this variable is assigned special missing value .n. Respondents who tried to complete the tests but were unable to are assigned special missing value .x, and respondents who refused to complete the tests are assigned special missing value .r. Also other missing responses of this variable is assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwWSPEED1, SwWSPEED1, SwWSPEED, SwWALKCOMP and SwWALKAID_M are the measures of the respondent's spouse and are taken directly from the spouse's RwWSPEED1, RwWSPEED1, RwWSPEED1, RwWSPEED, RwWALKCOMP and RwWALKAID_M, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwWSPEED1, SwWSPEED1, SwWSPEED, SwWALKCOMP and SwWALKAID_M, employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The walking speed exercise was only part of the MHAS Wave 3 anthropometrics and performance measures in a sub-sample that was limited to the complete sample of four states.

Differences with the RAND HRS/Harmonized HRS

The walking speed test in the HRS is completed over a distance of 12 feet, while the walking speed test in the MHAS is completed over a distance of 3 meters.

In the Harmonized HRS, RwWALKAID is coded as 1.none, 2.walking stick or cane, 3.elbow crutches, 4.walking frame, 5.other. In the Harmonized MHAS, RwWALKAID_M is coded as 0.none, 1.cane, 2.other.

The Harmonized HRS also includes RwWALKFLR, indicating the floor surface during the respondent's walking speed test.

Master File:	
SUBSAMPLE 12	Selected subsample for Biomarkers/Anthropometrics 2012
Wave 3:	
AYUDA1 12	Walking speed - aids used for first test
AYUDA2_12	Walking speed - aids used for second test
RTCAM1_12	Walking speed - result of first test
RTCAM2 12	Walking speed - result of second test
TCAM1 $\overline{12}$	Walking speed - time for first test
TCAM2 12	Walking speed - time for second test

Timed Walk Measurements: Reason Didn't Complete

Wave	Variable	Label	Туре
3	R3WALKSFT	r3walksft: w3 R cannot complete walking speed test for safet	Categ
3	S3WALKSFT	s3walksft: w3 S cannot complete walking speed test for safet	Categ
3	R3WALKTRYU	r3walktryu: w3 R tried but could not complete walking speed	Categ
3	S3WALKTRYU	s3walktryu: w3 S tried but could not complete walking speed	Categ
3	R3WALKREF	r3walkref: w3 R refused to complete walking speed test	Categ
3	S3WALKREF	s3walkref: w3 S refused to complete walking speed test	Categ
3	R3WALKOTHR	r3walkothr: w3 R failed to complete walking speed test - oth	Categ
3	S3WALKOTHR	s3walkothr: w3 S failed to complete walking speed test - oth	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3WALKSFT	21	0.24	0.44	0.00	1.00
S3WALKSFT	7	0.14	0.38	0.00	1.00
R3WALKTRYU	21	0.14	0.36	0.00	1.00
S3WALKTRYU	7	0.14	0.38	0.00	1.00
R3WALKREF	21	0.05	0.22	0.00	1.00
S3WALKREF	7	0.14	0.38	0.00	1.00
R3WALKOTHR	21	0.57	0.51	0.00	1.00
S3WALKOTHR	7	0.57	0.53	0.00	1.00

Categorical Variable Codes

Value	R3WALKSFT 2057 226 13419 16 5
Value	\$3WALKSFT 1400 145 9040 4782 349 6
Value .c:completed test .m:Missing .s:Skip 0.no 1.yes	R3WALKTRYU 2057 226 13419 18 3

Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR 0.no 1.yes	S3WALKTRYU 1400 145 9040 4782 349 6
Value	R3WALKREF 2057 226 13419 20
Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR 0.no 1.yes	\$3WALKREF 1400 145 9040 4782 349 6
Valuec:completed test .m:Missing .s:Skip 0.no 1.yes	R3WALKOTHR 2057 226 13419 9
Valuec:completed test .m:Missing .s:Skip .u:Unmar .v:SP NR 0.no 1.yes	S3WALKOTHR 1400 145 9040 4782 349 3

How Constructed

RwWALKSFT indicates whether the respondent couldn't complete the walking speed exercise because of safety reasons. RwWALKSFT is coded as 1 if the respondent couldn't hold the position without any help, or no attempt was made because the respondent or interviewer didn't feel it would be safe. RwWALKSFT is coded as 0 if the respondent tried but couldn't do it, couldn't understand the instructions, refused to participate, or because of any other reason not mentioned before. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwWALKTRYU indicates whether the respondent tried to complete the walking speed exercise but couldn't do it. RwWALKTRYU is coded as 1 if the respondent tried but couldn't complete the exercise. RwWALKTRYU is coded as 0 if the respondent couldn't hold the position without any help, not attempt was made because the respondent or interviewer didn't feel it would be safe, the respondent couldn't understand the instructions, refused to participate, or because of any other reason not mentioned before. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwWALKREF indicates whether the respondent refused to complete the walking speed exercise. RwWALKREF is coded as 1 if the respondent refused to complete the measures. RwWALKREF is coded as 0 if the respondent tried to complete the walking speed exercise but couldn't do it, couldn't hold the position without any help, no attempt was made because the respondent or interviewer didn't feel it would be safe, the respondent couldn't understand the instructions, or because of any other reason not mentioned before. A

special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

RwWALKOTHR indicates whether the respondent didn't complete the walking speed exercise for other reasons. RwWALKOTHR is coded as 1 if the respondent could not understand the instructions or indicated other reasons for not completing the exercise. RwWALKOTHR is coded as 0 if the respondent tried to complete the walking speed exercise but couldn't do it, couldn't hold the position without any help, no attempt was made because the respondent or interviewer didn't feel it would be safe, or the respondent refused to complete the exercise. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the subject completed the tests. Also other missing responses of this variable are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwWALKSFT, SwWALKTRYU, SwWALKREF, and SwWALKOTHR are the measures of the respondent's spouse and are taken directly from the spouse's RwWALKSFT, RwWALKTRYU, RwWALKREF, and RwWALKOTHR, respectively. In addition to the special missing values employed by the respondent variables, the spouse variables employ two additional special missing codes. SwWALKSFT, SwWALKTRYU, SwWALKREF, and SwWALKOTHR employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The walking speed exercise was only part of the MHAS Wave 3 anthropometrics and performance measures in a sub-sample that was limited to the complete sample of four states.

Differences with the RAND HRS/Harmonized HRS

The walking speed test in the HRS is completed over a distance of 12 feet, while the walking speed test in the MHAS is completed over a distance of 3 meters.

The Harmonized HRS also includes RwWALKEQUP, indicating whether the respondent didn't complete the walking speed tests due to faulty equipment or space issues. In the HRS, multiple reasons can be chosen to explain why the respondent did not complete the tests, while a single reason is chosen to explain why the respondent did not complete the tests in the MHAS.

```
Master File:
    SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 3:
    AYUDA1 12
                    Walking speed - aids used for first test
   AYUDA2 12
                    Walking speed - aids used for second test
   RTCAM1 12
                    Walking speed - result of first test
    RTCAM2 12
                    Walking speed - result of second test
                    Walking speed - time for first test
    TCAM1 12
    TCAM2 12
                    Walking speed - time for second test
```

Hand Grip Strength Measurements

Wave	Variable	Label	Туре
3	R3DOMHAND	r3domhand: w3 R Hand Grip Strength Measures - Dominant hand	Categ
3	S3DOMHAND	s3domhand: w3 S Hand Grip Strength Measures - Dominant hand	Categ
3	R3RGRIP1	r3rgrip1: w3 R Hand Grip Strength Right Hand - Measure 1 (kg	Cont
3	S3RGRIP1	s3rgrip1: w3 S Hand Grip Strength Right Hand - Measure 1 (kg	Cont
3	R3RGRIP2	r3rgrip2: w3 R Hand Grip Strength Right Hand - Measure 2 (kg	Cont
3	S3RGRIP2	s3rgrip2: w3 S Hand Grip Strength Right Hand - Measure 2 (kg	Cont
3	R3RGRIP	r3rgrip: w3 R Maximum Hand Grip Strength Right Hand - Measur	Cont
3	S3RGRIP	s3rgrip: w3 S Maximum Hand Grip Strength Right Hand - Measur	Cont
3	R3LGRIP1	r3lgrip1: w3 R Hand Grip Strength Left Hand - Measure 1 (kg)	Cont
3	S3LGRIP1	s3lgrip1: w3 S Hand Grip Strength Left Hand - Measure 1 (kg)	Cont
3	R3LGRIP2	r3lgrip2: w3 R Hand Grip Strength Left Hand - Measure 2 (kg)	Cont
3	S3LGRIP2	s3lgrip2: w3 S Hand Grip Strength Left Hand - Measure 2 (kg)	Cont
3	R3LGRIP	r3lgrip: w3 R Maximum Hand Grip Strength Left Hand - Measure	Cont
3	S3LGRIP	s3lgrip: w3 S Maximum Hand Grip Strength Left Hand - Measure	Cont
3	R3GRIPSUM	r3gripsum: w3 R Hand Grip Strength Dominant Hand	Cont
3	S3GRIPSUM	s3gripsum: w3 S Hand Grip Strength Dominant Hand	Cont
3	R3GRIPCOMP	r3gripcomp: w3 R willing & able to complete hand grip test	Categ
3	S3GRIPCOMP	s3gripcomp: w3 S willing & able to complete hand grip test	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3DOMHAND	2080	1.16	0.48	1.00	3.00
S3DOMHAND	1408	1.16	0.48	1.00	3.00
R3RGRIP1	1950	25.00	8.92	0.80	62.00
S3RGRIP1	1317	26.26	9.05	0.80	62.00
R3RGRIP2	1950	25.62	8.84	0.30	58.00
S3RGRIP2	1317	26.89	8.97	0.30	58.00
R3RGRIP	1950	26.25	8.88	2.00	62.00
S3RGRIP	1317	27.58	9.00	2.00	62.00
R3LGRIP1	257	25.39	10.24	1.40	62.00

0.05

0.00

1.00

Categorical Variable Codes

1411

S3GRIPCOMP

Value	R3DOMHAND
.m:Missing	218
.n:not willing/able	6
.s:Skip	13419
1.Right hand	1848
2.Left hand	132
3.Both hands equally dominant	100
3.Both mands equality dominant	100
Value	S3DOMHAND
.m:Missing	141
.n:not willing/able	3
	9040
.s:Skip	
.u:Unmar	4782
.v:SP NR	349
1.Right hand	1248
2.Left hand	93
3.Both hands equally dominant	67
Value	R3GRIPCOMP
.m:Missing	218
.s:Skip	13419
0.no	6
1.yes	2080
Value	S3GRIPCOMP
.m:Missing	141
.s:Skip	9040
.u:Unmar	4782
.v:SP NR	349
0.no	
1.yes	1408
1.700	1400

1.00

How Constructed

RwDOMHAND indicates the respondent's dominant hand. RwDOMHAND is coded as follows: 1.right hand, 2.left hand, and 3.both hands are equally dominant. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .n is used if the respondent reported that it was not possible to do the test with any hand, and so was not asked this question. Other missing responses are assigned special missing code .m and the variable is set to plain missing (.) for respondents who did not participate in the current wave.

SwDOMHAND indicates the current wave's spouse's dominant hand, and is taken from RwDOMHAND. In addition to the special missing codes used for RwDOMHAND, SwDOMHAND employs two additional missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwLGRIP1, RwLGRIP2, RwRGRIP1, and RwRGRIP2 indicate the respondent's first and second hand strength measurements for the left and right hand, respectively. RwLGRIP and RwRGRIP indicate the respondent's maximum hand strength measurement for the left and right hand, respectively. RwGRIPSUM indicates the maximum measurement of the dominant hand, as such, RwLGRIP is used for respondents with a dominant left hand, and RwRGRIP is used for respondents with a dominant right hand. For respondents with equally dominant hands, the greater value between RwLGRIP and RwRGRIP is used. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .n is used if the respondent reported that it was not possible to do the test with any hand. A special missing value .t is used for RwRGRIP1, RwRGRIP2, RwRGRIP, and RwGRIPSUM if the respondent could not complete the test with their right hand. A special missing value .l is used to RwLGRIP1, RwLGRIP2, RwLGRIP, and RwGRIPSUM if the respondent could not complete the test with their left hand. Other missing responses are assigned special missing code .m. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwLGRIP1, SwLGRIP2, SwRGRIP1, SwRGRIP2, SwLGRIP, SwRGRIP, and SwGRIPSUM are the measures of the respondent's spouse and are taken directly from the spouse's RwLGRIP1, RwLGRIP2, RwRGRIP1, RwRGRIP1, RwRGRIP2, RwLGRIP, RwRGRIP1, and RwGRIPSUM, respectively. In addition to the special missing codes used for the respondent variables, the spouse variables employ two additional missing codes, .u and .v. SwLGRIP1, SwLGRIP2, SwRGRIP1, SwRGRIP2, SwLGRIP, SwRGRIP, and SwGRIPSUM, employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwGRIPCOMP indicates whether the respondent is willing and able to complete the hand strength measurements. RwGRIPCOMP is coded as 1 if the respondent was able to complete the measurements with at least one hand. RwGRIPCOMP coded as 0 if the respondent was not able to complete the measurements with any hand. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. Also other missing responses of this variable are assigned special missing value .m. These measures are set to plain missing (.) for respondents who did not respond to the current wave.

SwGRIPCOMP is the measure of the respondent's spouse and is taken directly from the spouse's RwGRIPCOMP. In addition to the special missing codes used for the RwGRIPCOMP, SwGRIPCOMP employs two additional missing codes, .u and .v. SwGRIPCOMP employs the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The hand strength measurements were only part of the MHAS Wave 3 anthropometrics and performance measures in a sub-sample that was limited to the complete sample of four states.

Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS includes additional variables indicating the amount of effort the respondent gave the grip strength test (RwGRIPEFF), the respondent's position during the grip strength test (RwGRIPEOS), and whether the respondent rested their arms on a support during the grip strength test (RwGRIPRSTA).

```
Master File:
   SUBSAMPLE 12
                    Selected subsample for Biomarkers/Anthropometrics 2012
Wave 3:
   FUERZA 12
                    Hand grip strength - Is it safe for you to do this meas
   MANOF 12
                    Hand grip strength - dominant hand?
   MDER1_12
                    Hand grip strength - right hand, first measurement
   MDER2_12
                    Hand grip strength - right hand, second measurement
   MIZQ1_12
                    Hand grip strength - left hand, first measurement
   MIZQ2 12
                    Hand grip strength - left hand, second measurement
   RFUERZA 12
                    Hand grip strength - Interviewer: reason test was not p
```

Hand Grip Strength Measurements: Reason Didn't Complete

Wave	Variable	Label	Type
3	R3GRIPSFT	r3gripsft: w3 R cannot complete hand grip test for safety re	Categ
3	S3GRIPSFT	s3gripsft: w3 S cannot complete hand grip test for safety re	Categ
3	R3GRIPREF	r3gripref: w3 R refused to complete hand grip test	Categ
3	S3GRIPREF	s3gripref: w3 S refused to complete hand grip test	Categ
3	R3GRIPOTHR	r3gripothr: w3 R didn't complete hand grip test - other	Categ
3	S3GRIPOTHR	s3gripothr: w3 S didn't complete hand grip test - other	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3GRIPSFT	6	0.67	0.52	0.00	1.00
S3GRIPSFT	3	0.67	0.58	0.00	1.00
R3GRIPREF	6	0.00	0.00	0.00	0.00
S3GRIPREF	3	0.00	0.00	0.00	0.00
R3GRIPOTHR	6	0.33	0.52	0.00	1.00
S3GRIPOTHR	3	0.33	0.58	0.00	1.00

Categorical Variable Codes

Value	R3GRIPSFT 2080 218 13419 2
Value	S3GRIPSFT 1408 141 9040 4782 349 1
Value	R3GRIPREF 2080 218 13419 6
Value	S3GRIPREF 1408 141 9040 4782 349
Value	R3GRIPOTHR

<pre>.c:completed test .m:Missing .s:Skip 0.no 1.yes</pre>	 	2080 218 13419 4 2
Value		S3GRIPOTHR
.c:completed test		1408
.m:Missing		141
.s:Skip	į	9040
.u:Unmar	1	4782
.v:SP NR	į	349
0.no	1	2
1.yes		1

How Constructed

RwGRIPSFT indicates whether the respondent couldn't complete the hand grip measurements because of safety reasons. RwGRIPSFT is coded as 1 if no attempt was made because the respondent or interviewer felt it was unsafe, or if the respondent couldn't participate due to surgery, inflammation, pain, etc, or other health condition. RwGRIPSFT is coded as 0 if the respondent didn't understand the instructions, refused to participate, or for any other reasons not mentioned before. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RwGRIPREF indicates whether the respondent refused to complete hand grip measurements. RwGRIPREF is coded as 1 if the respondent refused to complete the measures. RwGRIPREF is coded as 0 if no attempt was made because the respondent or interviewer felt it was unsafe, the respondent didn't understand the instructions, couldn't participate because of an injury or any health condition, or any other reasons not mentioned before. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

RWGRIPOTHR indicates whether the respondent didn't complete the hand grip measurements for other reasons. RWGRIPOTHR is coded as 1 if the respondent couldn't understand the instructions or indicated other reasons for not completing the measurement. RWGRIPOTHR is coded as 0 if no attempt was made because the respondent or interviewer felt it was unsafe, the respondent refused to participate, or couldn't participate because of an injury or any health condition. A special missing value .s is used to indicate that the subject was not selected to be part of the subsample. A special missing value .c is used to indicate that the respondent completed the measurements. Also other missing responses of this variable are assigned special missing value .m. This measure is set to plain missing (.) for respondents who did not respond to the current wave.

SwGRIPSFT, SwGRIPREF, and SwGRIPOTHR are the measures of the respondent's spouse and are taken directly from the spouse's RwGRIPSFT, RwGRIPREF, and RwGRIPOTHR, respectively. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing values. SwGRIPSFT, SwGRIPREF, and SwGRIPOTHR employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The hand strength measurements were only part of the MHAS Wave 3 anthropometrics and performance measures in a sub-sample that was limited to the complete sample of four states.

Differences with the RAND HRS/Harmonized HRS

The Harmonized HRS also includes RwGRIPTRYU and RwGRIPEQUP, indicating whether the respondent did not complete the grip strength measurements because they tried but were unable to complete it or due to faulty equipment, respectively.

Master File:	
SUBSAMPLE_12	Selected subsample for Biomarkers/Anthropometrics 2012
Wave 3:	
FUERZA_12	Hand grip strength - Is it safe for you to do this meas
MANOF_12	Hand grip strength - dominant hand?
MDER1_12	Hand grip strength - right hand, first measurement
MDER2_12	Hand grip strength - right hand, second measurement
MIZQ1_12	Hand grip strength - left hand, first measurement
MIZQ2_12	Hand grip strength - left hand, second measurement
RFUERZA_12	Hand grip strength - Interviewer: reason test was not p

Section L: Assistance and Caregiving

ADL Help

Wave	Variable	Label	Туре
1	R1DRESSHLP	rldresshlp: w1 whether anyone helps R dress	Categ
2	R2DRESSHLP	r2dresshlp: w2 whether anyone helps R dress	Categ
	R3DRESSHLP	r3dresshlp: w3 whether anyone helps R dress	Categ
4	R4DRESSHLP	r4dresshlp: w4 whether anyone helps R dress	Categ
	R5DRESSHLP	r5dresshlp: w5 whether anyone helps R dress	Categ
1	S1DRESSHLP	sldresshlp: w1 whether anyone helps S dress	Categ
2	S2DRESSHLP	s2dresshlp: w2 whether anyone helps S dress	Categ
3	S3DRESSHLP	s3dresshlp: w3 whether anyone helps S dress	Categ
4	S4DRESSHLP	s4dresshlp: w4 whether anyone helps S dress	Categ
5	S5DRESSHLP	s5dresshlp: w5 whether anyone helps S dress	Categ
-	_1		~ .
	R1WALKHLP	rlwalkhlp: w1 whether anyone helps R walk	Categ
	R2WALKHLP	r2walkhlp: w2 whether anyone helps R walk	Categ
	R3WALKHLP	r3walkhlp: w3 whether anyone helps R walk	Categ
	R4WALKHLP	r4walkhlp: w4 whether anyone helps R walk	Categ
5	R5WALKHLP	r5walkhlp: w5 whether anyone helps R walk	Categ
1	S1WALKHLP	s1walkhlp: w1 whether anyone helps S walk	Categ
	S2WALKHLP	s2walkhlp: w2 whether anyone helps S walk	Categ
	S3WALKHLP	s3walkhlp: w3 whether anyone helps S walk	Categ
4	S4WALKHLP	s4walkhlp: w4 whether anyone helps S walk	Categ
5	S5WALKHLP	s5walkhlp: w5 whether anyone helps S walk	Categ
1	R1BATHEHLP	rlbathehlp: w1 whether anyone helps R bathe	Categ
2	R2BATHEHLP	r2bathehlp: w2 whether anyone helps R bathe	Categ
3	R3BATHEHLP	r3bathehlp: w3 whether anyone helps R bathe	Categ
4	R4BATHEHLP	r4bathehlp: w4 whether anyone helps R bathe	Categ
5	R5BATHEHLP	r5bathehlp: w5 whether anyone helps R bathe	Categ
1	C1DAMILEUI D	albathablalbathar arrora balaa C batha	Cataa
	S1BATHEHLP S2BATHEHLP	slbathehlp: w1 whether anyone helps S bathe	Categ
	S3BATHEHLP	s2bathehlp: w2 whether anyone helps S bathe s3bathehlp: w3 whether anyone helps S bathe	Categ Categ
	S4BATHEHLP	s4bathehlp: w4 whether anyone helps S bathe	Categ
	S5BATHEHLP	s5bathehlp: w5 whether anyone helps S bathe	Categ
5	O O DITTILLITE	bobachenip. Wo whether anyone helps b bache	caccg
1	R1EATHLP	rleathlp: w1 whether anyone helps R eat	Categ
2	R2EATHLP	r2eathlp: w2 whether anyone helps R eat	Categ
3	R3EATHLP	r3eathlp: w3 whether anyone helps R eat	Categ
4	R4EATHLP	r4eathlp: w4 whether anyone helps R eat	Categ
5	R5EATHLP	r5eathlp: w5 whether anyone helps R eat	Categ
1	01 11 11 11 11 11	1	0 - 1
1	S1EATHLP	sleathlp: w1 whether anyone helps S eat	Categ
	S2EATHLP	s2eathlp: w2 whether anyone helps S eat	Categ
	S3EATHLP S4EATHLP	s3eathlp: w3 whether anyone helps S eat	Categ
5	S5EATHLP	s4eathlp: w4 whether anyone helps S eat s5eathlp: w5 whether anyone helps S eat	Categ Categ
3	SJEAIRLP	speachip: wo whether anyone helps s eac	categ
1	R1BEDHLP	rlbedhlp: w1 whether anyone helps R get in/out of bed	Categ
2	R2BEDHLP	r2bedhlp: w2 whether anyone helps R get in/out of bed	Categ
3	R3BEDHLP	r3bedhlp: w3 whether anyone helps R get in/out of bed	Categ
4	R4BEDHLP	r4bedhlp: w4 whether anyone helps R get in/out of bed	Categ
5	R5BEDHLP	r5bedhlp: w5 whether anyone helps R get in/out of bed	Categ
4	C1DEDIT D	albadhlar at ababan annsa balar 0 art ta/art a C b	Cot-
	S1BEDHLP	slbedhlp: w1 whether anyone helps S get in/out of bed	Categ
	S2BEDHLP	s2bedhlp: w2 whether anyone helps S get in/out of bed	Categ
	S3BEDHLP S4BEDHLP	s3bedhlp: w3 whether anyone helps S get in/out of bed s4bedhlp: w4 whether anyone helps S get in/out of bed	Categ Categ
4 5	S5BEDHLP	s5bedhlp: w5 whether anyone helps S get in/out of bed	Categ
5	מיסניטווג	subscurity, we whether anyone herps a get infout or bed	categ

1	R1TOILETHLP	rltoilethlp:	w1	whether	anyone	helps	R	use	the	toilet	Categ
2	R2TOILETHLP	r2toilethlp:	w2	whether	anyone	helps	R	use	the	toilet	Categ
3	R3TOILETHLP	r3toilethlp:	wЗ	whether	anyone	helps	R	use	the	toilet	Categ
4	R4TOILETHLP	r4toilethlp:	w4	whether	anyone	helps	R	use	the	toilet	Categ
5	R5TOILETHLP	r5toilethlp:	w5	whether	anyone	helps	R	use	the	toilet	Categ
1	S1TOILETHLP	s1toilethlp:	w1	whether	anvone	helns	S	1150	+he	toilet	Categ
	0 0	orcorrep.			arryonc	110100		ubc	CIIC	COTTCC	caccg
2	S2TOILETHLP	s2toilethlp:			_	-					Categ
		-	w2	whether	anyone	helps	S	use	the	toilet	_
3	S2TOILETHLP	s2toilethlp:	w2 w3	whether whether	anyone anyone	helps helps	S S	use use	the the	toilet toilet	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRESSHLP	870	0.37	0.48	0.00	1.00
R2DRESSHLP	773	0.40	0.49	0.00	1.00
R3DRESSHLP	1339	0.29	0.46	0.00	1.00
R4DRESSHLP	1506	0.37	0.48	0.00	1.00
R5DRESSHLP	1607	0.32	0.47	0.00	1.00
S1DRESSHLP	551	0.37	0.48	0.00	1.00
S2DRESSHLP	464	0.40	0.49	0.00	1.00
S3DRESSHLP	815	0.29	0.46	0.00	1.00
S4DRESSHLP	875	0.35	0.48	0.00	1.00
S5DRESSHLP	736	0.32	0.47	0.00	1.00
R1WALKHLP	775	0.57	0.49	0.00	1.00
R2WALKHLP	763	0.60	0.49	0.00	1.00
R3WALKHLP	1244	0.43	0.50	0.00	1.00
R4WALKHLP	1354	0.41	0.49	0.00	1.00
R5WALKHLP	1450	0.55	0.50	0.00	1.00
S1WALKHLP	421	0.61	0.49	0.00	1.00
S2WALKHLP	395	0.62	0.49	0.00	1.00
S3WALKHLP	621	0.02	0.49	0.00	1.00
S4WALKHLP	639	0.40	0.49	0.00	1.00
S5WALKHLP	601	0.52	0.50	0.00	1.00
SSWADINIDI	001	0.52	0.30	0.00	1.00
R1BATHEHLP	543	0.73	0.44	0.00	1.00
R2BATHEHLP	518	0.77	0.42	0.00	1.00
R3BATHEHLP	802	0.71	0.45	0.00	1.00
R4BATHEHLP	1009	0.69	0.46	0.00	1.00
R5BATHEHLP	1002	0.75	0.43	0.00	1.00
S1BATHEHLP	285	0.73	0.44	0.00	1.00
S2BATHEHLP	273	0.79	0.40	0.00	1.00
S3BATHEHLP	357	0.65	0.48	0.00	1.00
S4BATHEHLP	470	0.63	0.48	0.00	1.00
S5BATHEHLP	413	0.73	0.45	0.00	1.00
R1EATHLP	295	0.79	0.41	0.00	1.00
R2EATHLP	267	0.83	0.38	0.00	1.00
R3EATHLP	580	0.65	0.48	0.00	1.00
R4EATHLP	603	0.70	0.46	0.00	1.00
R5EATHLP	565	0.77	0.42	0.00	1.00
S1EATHLP	143	0.75	0.44	0.00	1.00
S2EATHLP	141	0.87	0.34	0.00	1.00
S3EATHLP	283	0.59	0.49	0.00	1.00
S4EATHLP	295	0.62	0.49	0.00	1.00
S5EATHLP	206	0.75	0.44	0.00	1.00

R1BEDHLP	771	0.51	0.50	0.00	1.00
R2BEDHLP	672	0.54	0.50	0.00	1.00
R3BEDHLP	1304	0.39	0.49	0.00	1.00
R4BEDHLP R5BEDHLP	1479 1317	0.38 0.53	0.49	0.00	1.00
S1BEDHLP	464	0.54	0.50	0.00	1.00
S2BEDHLP	377	0.56	0.50	0.00	1.00
S3BEDHLP	731	0.34	0.47	0.00	1.00
S4BEDHLP	807	0.36	0.48	0.00	1.00
S5BEDHLP	553	0.53	0.50		1.00
R1TOILETHLP	533	0.53	0.50	0.00	1.00
R2TOILETHLP	488	0.63	0.48	0.00	1.00
R3TOILETHLP	1015	0.46	0.50	0.00	1.00
R4TOILETHLP	989	0.46	0.50	0.00	1.00
R5TOILETHLP	1138	0.51	0.50	0.00	1.00
S1TOILETHLP S2TOILETHLP S3TOILETHLP S4TOILETHLP	295 258 509 507	0.51 0.65 0.42 0.42	0.50 0.48 0.49	0.00 0.00 0.00 0.00	1.00 1.00 1.00 1.00
S5TOILETHLP S5TOILETHLP	465	0.50	0.49 0.50	0.00	1.00

Categorical Variable Codes

dipK	Value	R1DRESSHLP	R2DRESSHLP	R3DRESSHLP	R4DRESSHLP	R5DRESSHLP
Description of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property			0.5	1		
T.T.EFLUSE				1275		
13147						
0.No 551 461 945 951 1089 1.Yes 319 312 394 555 518 Value						-
Nes						
Value SIDRESSHLP S2DRESSHLP S3DRESSHLP S4DRESSHLP S5DRESSHLP d.DRESSHLP S5DRESSHLP d.DRESSHLP S4DRESSHLP S5DRESSHLP d.DRESSHLP S5DRESSHLP d.DRESSHLP S4DRESSHLP S5DRESSHLP d.DRESSHLP S5DRESSHLP d.DRESSHLP S5DRESSHLP d.DRESSHLP d.DRESSHLP </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
.d:DK 33 1 7 1 .m:Missing 13 6 10 2 .p:Proxy interview, not asked 660 821 726 470 560 .r:Refuse 36 1 1 5 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 9355 8272 9049 8290 6157 0.No 348 279 575 572 502 1.Yes 203 185 240 303 234 Value	1.100	313	912	331	333	010
m:Missing 13 6 10 2 .p:Proxy interview, not asked 660 821 726 470 560 r:Refuse 36 1 1 5 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 19355 8272 9049 8290 6157 0.No 348 279 575 572 502 1.Yes 203 185 240 303 234 Value			S2DRESSHLP	S3DRESSHLP	S4DRESSHLP	S5DRESSHLP
p:Proxy interview, not asked 660 821 726 470 560 r:Refuse 36 1 1 5 u:Ummar 4205 4009 4782 4847 527 v:SP NR 333 131 349 280 501 x:no difficulty 9355 8272 9049 8290 6157 0.No 348 279 575 572 502 1.Yes 203 185 240 303 234 Value				1		
r:Refuse 36 1 1 5 u:Unmar 4205 4009 4782 4847 5227 v:SP NR 333 131 349 280 501 x:no difficulty 9355 8272 9049 8290 6157 0.No 348 279 575 572 502 1.Yes 203 185 240 303 234 Value			•			
.u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 9355 8272 9049 8290 6157 0.No 348 279 575 572 502 1.Yes 203 185 240 303 234 Value					470	
.v:SP NR 333 131 349 280 501 .x:no difficulty 9355 8272 9049 8290 6157 0.No 1 348 279 575 572 502 1.Yes 203 185 240 303 234 Value	.r:Refuse					
0.No 348 279 575 572 502 1.Yes 203 185 240 303 234 Value						
1.Yes 203 185 240 303 234						
Value	•					
.d:DK 37 31 6 4 .m:Missing 40 56 40 18 .r:Refuse 152 5 5 1 87 .x:no difficulty 14182 12880 14443 13378 15555 0.No 331 304 711 795 655 1.Yes 444 459 533 559 795 Value	1.Yes	203	185	240	303	234
.d:DK 37 31 6 4 .m:Missing 40 56 40 18 .r:Refuse 152 5 5 1 87 .x:no difficulty 14182 12880 14443 13378 15555 0.No 331 304 711 795 655 1.Yes 444 459 533 559 795 Value	Walio	ס זעע ז געוס	ם דעע ד גשל ם	ם זשא דעשר ס	ם זעז ז געוו ס	סקעעזגעטס
.m:Missing 40 56 40 18 .r:Refuse 152 5 5 1 87 .x:no difficulty 14182 12880 14443 13378 15555 0.No 331 304 711 795 655 1.Yes 444 459 533 559 795 Value	· · · · · · · · · · · · · · · · · · ·		KZWALKHIF			
.r:Refuse 152 5 5 1 87 .x:no difficulty 14182 12880 14443 13378 15555 0.No 331 304 711 795 655 1.Yes 444 459 533 559 795 Value			5.6	21	-	·=
.x:no difficulty 14182 12880 14443 13378 15555 0.No 331 304 711 795 655 1.Yes 444 459 533 559 795 Value				5		
0.No 331 304 711 795 655 1.Yes 444 459 533 559 795 Value	•					
1.Yes 444 459 533 559 795 Value						
Value						
.d:DK 23 25 5 .m:Missing 14 30 10 3 .r:Refuse 96 3 2 57 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 10094 9136 9944 8998 6800 0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value				-		
.m:Missing 14 30 10 3 .r:Refuse 96 3 2 57 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 10094 9136 9944 8998 6800 0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value	· · · · · · · · · · · · · · · · · · ·		S2WALKHLP		S4WALKHLP	S5WALKHLP
.r:Refuse 96 3 2 57 .u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 10094 9136 9944 8998 6800 0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value	•			25		
.u:Unmar 4205 4009 4782 4847 5227 .v:SP NR 333 131 349 280 501 .x:no difficulty 10094 9136 9944 8998 6800 0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value					10	
.v:SP NR 333 131 349 280 501 .x:no difficulty 10094 9136 9944 8998 6800 0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value			-			
.x:no difficulty 10094 9136 9944 8998 6800 0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value						
0.No 164 152 383 386 286 1.Yes 257 243 238 253 315 Value						
1.Yes 257 243 238 253 315 Value R1BATHEHLP R2BATHEHLP R3BATHEHLP R4BATHEHLP R5BATHEHLP .d:DK 37 1 31 7 2						
Value R1BATHEHLP R2BATHEHLP R3BATHEHLP R4BATHEHLP R5BATHEHLP .d:DK 37 1 31 7 2						
.d:DK 37 1 31 7 2	1.Yes	257	243	238	253	315
.d:DK 37 1 31 7 2	Value	ס זעקעיית מוס	ס זעקעייגער ס	ם לם א חים יו מים לם	στυπυπανα	ס ל פ א ייט פר ט די ס
				31		

.r:Refuse	166	5	2	1	87
.x:no difficulty	14400	13121	14888	13722	16005
0.No	147	118	231	316	247
1.Yes	396	400	571	693	755
· ·					
Value	S1BATHEHLP	S2BATHEHLP	S3BATHEHLP	S4BATHEHLP	S5BATHEHLP
.d:DK	23		25	6	
.m:Missing	14	29	20	10	3
.r:Refuse	98	3	1	10	56
				4047	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	10228	9259	10209	9166	6989
0.No	77	56	124	173	112
1.Yes	208	217	233	297	301
Value	R1EATHLP	R2EATHLP	R3EATHLP	R4EATHLP	R5EATHLP
.d:DK	36	1	31	6	2
.m:Missing	40	53		40	18
.r:Refuse	160	5	3	2	87
.x:no difficulty	14655	13378	15109	14128	16442
0.No	62	46	202	179	132
1.Yes	233	221	378	424	433
1.163	255	221	370	727	433
Value	S1EATHLP	S2EATHLP	S3EATHLP	S4EATHLP	S5EATHLP
.d:DK	23		25	5	
.m:Missing	14	27	_ ~	10	3
.r:Refuse	97	3	1	1	57
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	10371	9393	10283	9341	7195
0.No	36	19	115	113	52
1.Yes	107	122	168	182	154
Value	R1BEDHLP	R2BEDHLP	R3BEDHLP	R4BEDHLP	R5BEDHLP
.d:DK	38	1	32	6	3
.m:Missing	40	52		40	18
.r:Refuse	163	5	4	1	89
.x:no difficulty	14174	12974	14383	13253	15687
0.No	374	307	796	913	624
1.Yes	397	365	508	566	693
1.105	331	303	300	300	093
Value	S1BEDHLP	S2BEDHLP	S3BEDHLP	S4BEDHLP	S5BEDHLP
.d:DK	23		26	5	
.m:Missing	14	27	20	10	3
r:Refuse	102	3	2	10	58
.u:Unmar		4009	4782	4047	5227
	4205			4847	
.v:SP NR	333	131	349	280	501
.x:no difficulty	10045	9157	9833	8830	6847
0.No	215	164	482	517	258
1.Yes	249	213	249	290	295
			- 4		
Value	R1TOILETHLP	R2TOILETHLP	R3TOILETHLP	R4TOILETHLP	R5TOILETHLP
.d:DK	48	1	33	6	6
.m:Missing	40	54		40	18
.r:Refuse	180	5	4	1	87
.x:no difficulty	14385	13156	14671	13743	15865
0.No	250	183	551	535	553
1.Yes	283	305	464	454	585
Value	S1TOILETHLP	S2TOILETHLP	S3TOILETHLP	S4TOILETHLP	S5TOILETHLP
.d:DK	29		26	5	2
.m:Missing	14	27	20	10	3
.r:Refuse	110	3	1	10	57
				4047	
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	10200	9276	10056	9130	6934
0.No	144	91	296	296	231
1.Yes	151	167	213	211	234

How Constructed

RwDRESSHLP, RwWALKHLP, RwBATHEHLP, RwEATHLP, RwBEDHLP, and RwTOILETHLP indicate whether anyone helps the respondent with each ADL. RwDRESSHLP indicates whether anyone helps the respondent dress. RwWALKHLP indicates whether anyone helps the respondent bathe or shower. RwEATHLP indicates whether anyone helps the respondent eat, such as cutting up food. RwBEDHLP indicates whether anyone helps the respondent get into or out of bed. RwTOILETHLP indicates whether anyone helps the respondent get into or out of bed. RwTOILETHLP indicates whether anyone helps the respondent use the toilet, including getting on or off the toilet or squatting. These variables are coded as 1 if someone helps the respondent with the ADL. These variables are coded as 0 if nobody helps the respondent with the ADL. If the respondent indicates having no difficulty with the ADL or with other mobility tasks that precede the ADL questions in the interview, then RwDRESSHLP, RwWALKHLP, RwBATHEHLP, RwEATHLP, RwBEDHLP, and RwTOILETHLP are assigned special missing value .x. If the interview is conducted by proxy, then questions about help dressing are not asked and RwDRESSHLP is assigned special missing value .p. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwDRESSHLP, SwWALKHLP, SwBATHEHLP, SwEATHLP, SwBEDHLP, and SwTOILETHLP indicate whether anyone helps the respondent's current wave's spouse with the associated ADL. These values are taken from RwDRESSHLP, RwWALKHLP, RwBATHEHLP, RwBEDHLP, and RwTOILETHLP. In addition to the special missing codes employed by RwDRESSHLP, RwWALKHLP, RwBATHEHLP, RwEATHLP, RwBEDHLP, and RwTOILETHLP, SwDRESSHLP, SwWALKHLP, SwBATHEHLP, SwBATHEHLP, SwBATHEHLP, and SwTOILETHLP employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2, respondents can be asked up to 2 questions regarding help received for ADL activities. If the respondent is married or in a union, then the respondent is first asked: "Does your spouse help you?". All respondents are asked: "Does anyone (else) ever help you?". The variables in Waves 1 and 2 indicate help received from the respondent's spouse or someone else. Starting in Wave 3, only a single question is asked: "Does someone help you?". As such, starting in Wave 3, the variables indicate help received from anyone.

In Waves 1 and 2, respondents are only asked if they received help with an ADL activity if they reported that they had difficulty with, didn't do, or can't do the activity. Starting in Wave 3, all respondents are asked whether they received help with an ADL activity regardless of reporting difficulty with the activity. While these variables have been constructed to be as comparable as possible across waves, it is possible that those who reported having no difficulty with an ADL could receive help with the ADL and so would be assigned a value of 1 for these variables starting in Wave 3.

Differences with the RAND HRS/Harmonized HRS

These variables are somewhat comparable to RwWALKRH, RwDRESSH, RwBATHH, RwEATH, RwBEDH, and RwTOILTH in the RAND HRS. Please keep in mind that no difficulty is assigned special missing .s and don't do is assigned special missing .x in the RAND HRS, while no difficulty is assigned special missing .x in the Harmonized MHAS. This difference and the difference in naming ensure comparability between the Harmonized MHAS and other Harmonized datasets.

Help received using the toilet includes getting on and off the toilet or squatting in RwTOILETHLP in the Harmonized MHAS, and only includes getting up or down from the toilet in RwTOILTH in the RAND HRS.

Wave 1:	
H14	help dressing
H15_1	difficult walking
H15_3	spouse helps walking
H15_4	other helps walking
H16_1	difficult bathing
H16_3	spouse helps bathing
H16_4	other helps bathing
H17_1	difficult eating
H17_3	spouse helps eating

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H17 4
                    other helps eating
    H18 1
                    difficult getting in an out of bed
   H18 3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
    H19 1
                    difficult using toilet
    H19 3
                    spouse helps using toilet
    H19 4
                    other helps using toilet
Wave 2:
                    someone help you to get dressed
   H14
    H15E
                    spouse helps
                    additional person helps
    H15F
    H16E
                    spouse helps
    H16F
                    additional person helps
   H17E
                    spouse helps
   H17F
                    additional person helps
   H18E
                    spouse helps
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
   H17D 12
                    Does someone help you eat your food
   H18D_12
                    Does someone help you get into or out of bed
   H19D_12
                    Does someone help you use toilet, get on off
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
    H15D 15
                    Does someone help respondent walking across a room
    H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
                    Does someone help respondent getting in or out of bed
   H18D 15
   H19D 15
                    Does someone help respondent using the toilet
Wave 5:
   H14 18
                    Does someone help R to get dressed
    H15D 18
                    Does someone help R walking across a room
    H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
    H18D_18
                    Does someone help R getting in or out of bed
    H19D 18
                    Does someone help R using the toilet
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IADL Help

RIMEALHLP rlmealhlp: wl whether anyone helps R with meal preparation Categ RIMEALHLP rlmealhlp: w2 whether anyone helps R with meal preparation Categ RIMEALHLP rlmealhlp: w3 whether anyone helps R with meal preparation Categ RIMEALHLP rlmealhlp: w4 whether anyone helps R with meal preparation Categ RIMEALHLP rlmealhlp: w5 whether anyone helps R with meal preparation Categ simealhlp: w5 whether anyone helps R with meal preparation Categ SIMEALHLP slmealhlp: w2 whether anyone helps S with meal preparation Categ SIMEALHLP slmealhlp: w2 whether anyone helps S with meal preparation Categ SIMEALHLP slmealhlp: w3 whether anyone helps S with meal preparation Categ SIMEALHLP slmealhlp: w3 whether anyone helps S with meal preparation Categ SIMEALHLP slmealhlp: w5 whether anyone helps S with meal preparation Categ SIMEALHLP slmealhlp: w6 whether anyone helps R with grocery shopping Categ RISHOPHLP rlshophlp: w1 whether anyone helps R with grocery shopping Categ RISHOPHLP rlshophlp: w2 whether anyone helps R with grocery shopping Categ RISHOPHLP rlshophlp: w4 whether anyone helps R with grocery shopping Categ RISHOPHLP slshophlp: w4 whether anyone helps R with grocery shopping Categ SISHOPHLP slshophlp: w4 whether anyone helps R with grocery shopping Categ SISHOPHLP slshophlp: w6 whether anyone helps S with grocery shopping Categ SISHOPHLP slshophlp: w6 whether anyone helps S with grocery shopping Categ SISHOPHLP slshophlp: w6 whether anyone helps S with grocery shopping Categ SISHOPHLP slshophlp: w6 whether anyone helps R with taking medication Categ RIMEDHLP rlmedhlp: w6 whether anyone helps S with grocery shopping Categ RIMEDHLP slshophlp: w6 whether anyone helps R with taking medication Categ RIMEDHLP slmedhlp: w6 whether anyone helps R with taking medication Categ RIMEDHLP slmedhlp: w6 whether anyone helps R with taking medication Categ RIMEDHLP slmedhlp: w6 whether anyone helps R with taking medication Categ RIMEDHLP slmedhlp: w6 whether anyone helps R with taking medication Categ SIMEDHLP slmedhlp: w6 whether anyone	Wave	Variable	Label	Туре
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4 R4MONEYHLP r4moneyhlp: w4 whether anyone helps R with managing money Categ r5moneyhlp: w5 whether anyone helps R with managing money Categ 1 S1MONEYHLP s1moneyhlp: w1 whether anyone helps S with managing money Categ s2MONEYHLP s2moneyhlp: w2 whether anyone helps S with managing money Categ s3MONEYHLP s3moneyhlp: w3 whether anyone helps S with managing money Categ s4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ	2	R2MONEYHLP	r2moneyhlp: w2 whether anyone helps R with managing money	Categ
5 R5MONEYHLP r5moneyhlp: w5 whether anyone helps R with managing money Categ 1 S1MONEYHLP s1moneyhlp: w1 whether anyone helps S with managing money Categ 2 S2MONEYHLP s2moneyhlp: w2 whether anyone helps S with managing money Categ 3 S3MONEYHLP s3moneyhlp: w3 whether anyone helps S with managing money Categ 4 S4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ	3	R3MONEYHLP		Categ
1 S1MONEYHLP s1moneyhlp: w1 whether anyone helps S with managing money Categ S2MONEYHLP s2moneyhlp: w2 whether anyone helps S with managing money Categ S3MONEYHLP s3moneyhlp: w3 whether anyone helps S with managing money Categ S4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ	4	R4MONEYHLP	r4moneyhlp: w4 whether anyone helps R with managing money	Categ
2 S2MONEYHLP s2moneyhlp: w2 whether anyone helps S with managing money Categ 3 S3MONEYHLP s3moneyhlp: w3 whether anyone helps S with managing money Categ 4 S4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ	5	R5MONEYHLP	r5moneyhlp: w5 whether anyone helps R with managing money	Categ
2 S2MONEYHLP s2moneyhlp: w2 whether anyone helps S with managing money Categ 3 S3MONEYHLP s3moneyhlp: w3 whether anyone helps S with managing money Categ 4 S4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ	1	S1MONEYHLP	slmoneyhlp: w1 whether anyone helps S with managing money	Cateq
3 S3MONEYHLP s3moneyhlp: w3 whether anyone helps S with managing money Categ 4 S4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ	2	S2MONEYHLP		_
4 S4MONEYHLP s4moneyhlp: w4 whether anyone helps S with managing money Categ				_
				_
	5	S5MONEYHLP		_

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MEALHLP	1103	0.83	0.38	0.00	1.00
R2MEALHLP	1015	0.84	0.36	0.00	1.00
R3MEALHLP	1253	0.70	0.46	0.00	1.00
R4MEALHLP	1241	0.77	0.42	0.00	1.00
R5MEALHLP	1045	0.75	0.43	0.00	1.00

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Section L: Assistance and Caregiving

Value-----

.d:DK

Section L: Assistance and Caregiving	
Section L. Assistance and Caregiving	

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.m:Missing	38	106		40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
.r:Refuse	112	2	2	1	13
.x:no difficulty	12858	11435	12924	12119	14362
0.No	151	94	276	213	205
1.Yes	958	905	1243	1471	1187
1.100	330	300	12 13	11/1	1107
Value	S1SHOPHLP	S2SHOPHLP	S3SHOPHLP	S4SHOPHLP	S5SHOPHLP
.d:DK	28	020110111111	1	6	1
	13	8	±	10	2
.m:Missing			706		
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	83	2			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9207	8158	9062	8331	6301
0.No	83	92	165	128	94
1.Yes	574	490	638	707	497
Value	R1MEDHLP	R2MEDHLP	R3MEDHLP	R4MEDHLP	R5MEDHLP
.d:DK	20		1	6	
.m:Missing	38	57		40	17
.p:Proxy interview, not asked	1032	1162	1275	929	1328
r:Refuse	48	1	1	1	15
.x:no difficulty	13692	12193	13944	13143	15328
0.No	56	34	235	269	128
1.Yes	300	257	267	391	298
1.165	300	231	207	391	290
Value	S1MEDHLP	S2MEDHLP	S3MEDHLP	S4MEDHLP	S5MEDHLP
		SZMEDNIE	33MEDALF 1		SUMEDITE
.d:DK	13	0	1	6	2
.m:Missing	13	8	500	10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	32	1			7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9745	8568	9573	8815	6728
0.No	24	34	151	165	50
1.Yes	161	139	141	186	114
Value	R1MONEYHLP	R2MONEYHLP	R3MONEYHLP	R4MONEYHLP	R5MONEYHLP
.d:DK	21		8	7	2
.m:Missing	38	53		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	56	2	2	1	13
.x:no difficulty	13693	12205	14056	13321	15350
·					
0.No	60	12	102	124	75
1.Yes	286	271	280	357	329
Value	S1MONEYHLP	S2MONEYHLP	S3MONEYHLP	S4MONEYHLP	S5MONEYHLP
		SZMONEINLP			SOMONEIRLE
.d:DK	14	4.4	4	5	2
.m:Missing	13	11		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	39	2			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9747	8577	9650	8922	6720
0.No	29	12	65	69	37
1.Yes	146	148	147	176	136

How Constructed

RWMEALHLP, RwSHOPHLP, RwMEDHLP, and RwMONEYHLP indicate whether anyone helps the respondent with each IADL. RwMEALHLP indicates whether respondents who have difficulty with meal preparation have anyone help them prepare hot meals. RwSHOPHLP indicates whether respondents who have difficulty with grocery shopping have anyone help them shop for groceries. RwMEDHLP indicates whether respondents who have difficulty with taking medications. RwMONEYHLP indicates whether respondents who have difficulty managing money have anyone help them manage their money. Respondents who report that they have difficulty with, "can't do", or "don't do" an IADL activity are asked whether they receive help with the IADL. These variables are coded as 1 if someone helps the respondent with the IADL, while a 0 indicates that nobody helps the respondent with the IADL. Respondents who do not have difficulty with a particular IADL are assigned special missing value code .x. These variables are assigned special missing value .p if the interview was completed by proxy. Don't know, refused, or other

missing responses are assigned special missing codes .d, .r, and .m, respectively. RwMEALHLP, RwSHOPHLP, RwMEDHLP, and RwMONEYHLP are set to plain missing (.) for respondents who did not participate in the current wave.

SwmEALHLP, SwSHOPHLP, SwMEDHLP, and SwMONEYHLP indicate whether anyone helps the respondent's current wave's spouse with the associated IADL. These values are taken from RwMEALHLP, RwSHOPHLP, RwMEDHLP, and RwMONEYHLP. In addition to the special missing codes employed by RwMEALHLP, RwSHOPHLP, RwMEDHLP, and RwMONEYHLP, SwMEALHLP, SwSHOPHLP, SwMEDHLP, and SwMONEYHLP employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

In Waves 1 and 2, the respondent is asked in separate questions whether their spouse helps with the IADL activity and whether anyone (else) ever helps with the IADL activity. Starting in Wave 3, the respondent is asked in a single question whether anyone ever helps with the IADL activity.

Differences with the RAND HRS/Harmonized HRS

Unlike the HRS, the MHAS does not include using the phone and using a map as IADLs. In the HRS, if the respondent reports that they "can't do" or "don't do" the activity or if they have difficulty that is not the result of a health or memory problem, then they are not asked whether they receive help with that activity. Respondents in the MHAS, however, are asked whether they receive help with the activity if they report that they "can't do", "don't do", or have difficulty with the activity, regardless of whether it is the result of a health or memory problem.

```
Wave 1:
   H26 3
                    spouse helps with hot meal
    H26 4
                    someone helps with hot meal
   H27 3
                    spouse helps with shopping
   H27 4
                    someone helps with shopping
   H28 3
                    spouse helps with taking medication
    H28 4
                    someone helps with taking medication
    H29 3
                    spouse helps with managing money
   H29_4
                    someone helps with managing money
Wave 2:
   H26D
                    spouse helps
                    additional person helps
   H26E
    H27D
                    spouse helps
    H27E
                    additional person helps
    H28D
                    spouse helps
   H28E
                    additional person helps
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 3:
   H26C 12
                    Does anyone help you prepare a hot meal
    H27C 12
                    Does anyone help you shop for groceries
    H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
Wave 4:
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C_15
                    Does someone help respondent to shop for groceries
    H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
    H27C 18
                    Does someone help R to shop for groceries
    H28C 18
                    Does someone help R to take medications
    H29C 18
                    Does someone help R to manage his/her money
```

Whether Uses Personal Aids

Wave	Variable	Label	Type
1	R1WALKRE	rlwalkre: w1 R uses equipment-Walking across room	Categ
2	R2WALKRE	r2walkre: w2 R uses equipment-Walking across room	Categ
3	R3WALKRE	r3walkre: w3 R uses equipment-Walking across room	Categ
4	R4WALKRE	r4walkre: w4 R uses equipment-Walking across room	Categ
5	R5WALKRE	r5walkre: w5 R uses equipment-Walking across room	Categ
1	S1WALKRE	slwalkre: w1 S uses equipment-Walking across room	Categ
2	S2WALKRE	s2walkre: w2 S uses equipment-Walking across room	Categ
3	S3WALKRE	s3walkre: w3 S uses equipment-Walking across room	Categ
4	S4WALKRE	s4walkre: w4 S uses equipment-Walking across room	Categ
5	S5WALKRE	s5walkre: w5 S uses equipment-Walking across room	Categ
1	R1BEDE	rlbede: w1 R uses equipment-Getting in/out of bed	Categ
2	R2BEDE	r2bede: w2 R uses equipment-Getting in/out of bed	Categ
3	R3BEDE	r3bede: w3 R uses equipment-Getting in/out of bed	Categ
4	R4BEDE	r4bede: w4 R uses equipment-Getting in/out of bed	Categ
5	R5BEDE	r5bede: w5 R uses equipment-Getting in/out of bed	Categ
1	S1BEDE	slbede: w1 S uses equipment-Getting in/out of bed	Categ
2	S2BEDE	s2bede: w2 S uses equipment-Getting in/out of bed	Categ
3	S3BEDE	s3bede: w3 S uses equipment-Getting in/out of bed	Categ
4	S4BEDE	s4bede: w4 S uses equipment-Getting in/out of bed	Categ
5	S5BEDE	s5bede: w5 S uses equipment-Getting in/out of bed	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKRE	7955	0.08	0.27	0.00	1.00
R2WALKRE	7231	0.09	0.29	0.00	1.00
R3WALKRE	9918	0.13	0.34	0.00	1.00
R4WALKRE	9800	0.17	0.38	0.00	1.00
R5WALKRE	10102	0.15	0.36	0.00	1.00
S1WALKRE	5230	0.06	0.24	0.00	1.00
S2WALKRE	4763	0.07	0.25	0.00	1.00
S3WALKRE	6257	0.10	0.30	0.00	1.00
S4WALKRE	6052	0.12	0.33	0.00	1.00
S5WALKRE	4573	0.14	0.34	0.00	1.00
R1BEDE	7880	0.05	0.22	0.00	1.00
R2BEDE	7230	0.05	0.23	0.00	1.00
R3BEDE	9915	0.07	0.25	0.00	1.00
R4BEDE	9797	0.09	0.29	0.00	1.00
R5BEDE	10101	0.08	0.27	0.00	1.00
S1BEDE	5184	0.04	0.19	0.00	1.00
S2BEDE	4762	0.04	0.19	0.00	1.00
S3BEDE	6255	0.05	0.21	0.00	1.00
S4BEDE	6049	0.06	0.24	0.00	1.00
S5BEDE	4573	0.07	0.26	0.00	1.00

Categorical Variable Codes

Value		R1WALKRE	R2WALKRE	R3WALKRE	R4WALKRE	R5WALKRE
.d:DK		38	1	31	6	2
.m:Missing		40	47		40	18
.r:Refuse		139	5	2	1	84

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•	

.x:no difficulty	7014	6420	5772	4932	6908
0.No	7306	6553	8606	8094	8580
1.Yes	649	678	1312	1706	1522
Value	S1WALKRE	S2WALKRE	S3WALKRE	S4WALKRE	S5WALKRE
.d:DK	22	1	25	5	
.m:Missing	14	23		10	3
.r:Refuse	90	3	1		55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	5292	4774	4309	3585	2830
0.No	4915	4432	5653	5303	3954
1.Yes	315	331	604	749	619
Value	R1BEDE	R2BEDE	R3BEDE	R4BEDE	R5BEDE
.d:DK	43	1	32	6	3
.m:Missing	40	47		40	18
.r:Refuse	149	5	4	2	86
.x:no difficulty	7074	6421	5772	4934	6906
0.No	7473	6843	9249	8923	9272
1.Yes	407	387	666	874	829
Value	S1BEDE	S2BEDE	S3BEDE	S4BEDE	S5BEDE
.d:DK	25	1	26	5	
.m:Missing	14	23		10	3
.r:Refuse	96	3	1	1	55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	5329	4775	4310	3587	2830
0.No	4991	4580	5953	5671	4232
1.Yes	193	182	302	378	341

How Constructed

RwWALKRE and RwBEDE indicate whether the respondent uses any equipment or devices, such as a cane, walker, or wheelchair, to walk across a room or to get in and out of bed, respectively. These questions are asked regardless of difficulty with walking across a room or getting in and out of bed. These variables are coded as 1 if the respondent uses any equipment or devices to help with the ADL. These variables are coded as 0 if the respondent does not use any equipment or devices to help with the ADL despite having difficulty with the ADL. If the respondent indicates having no difficulty with the ADL or with other mobility tasks that precede the ADL questions in the interview, then RwWALKRE and RwBEDE are assigned special missing value .x. Don't know, refused, or other missing responses are assigned special missing codes .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

SwWALKRE and SwBEDE indicate whether the respondent's current wave's spouse uses any equipment or devices to walk across a room or to get in and out of bed, respectively. These values are taken from RwWALKRE and RwBEDE. In addition to the special missing codes employed by RwWALKRE and RwBEDE, SwWALKRE and SwDRESSE employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

These variables are somewhat comparable to RwWALKRE and RwBEDE in the RAND HRS. Please keep in mind that no difficulty is assigned special missing .s and don't do is assigned a value of 9 in the RAND HRS, while no difficulty is assigned special missing .x in the Harmonized MHAS. This difference and the difference in naming ensure comparability between the Harmonized MHAS and other Harmonized datasets.

MHAS Variables Used

Wave 1:

H1 long walk

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H10
                    pulling
   H11
                    picking up
   H12
                    picking up a coin
   Н13
                    dressing
                    difficult walking
   H15 2
                    help walking
   H18 1
                    difficult getting in an out of bed
   H18 2
                    help getting in an out of bed
   H4
                    sitting 2 hours
   Н5
                    getting up
   Н6
                    long climbing
   н7
                    short climbing
   Н8
                    bending
   Н9
                    extending arms
Wave 2:
                    health problems-trouble walking blocks
   Н1
                    health problems-trouble pushing or pulling
   H10
   H11
                    health problems-trouble carrying objects
   H12
                    health problems-trouble picking up a coin
                    health problems-trouble dressing self
   H15A
                    health problem-trouble walking
   H15B
                    use equipment to walk
   H18A
                    health problem-get in/out of bed
                    use equipment to get in/out of bed
   H18B
   Н4
                    health problems-trouble staying seated
   Н5
                    health problems-trouble getting up from chair
                    health problems-trouble with flights of stairs
   Н7
                    health problems-trouble with 1 flight of stairs
   Н8
                    health problems-trouble sitting up
   Н9
                    health problems-trouble lifting arms
Wave 3:
   H11 12
                    Because of health problem, difficulty carrying objects
   H12 12
                    Because of health problem, difficulty picking up a coin
                    Because of health problem, difficulty dressing self
   H13 12
   H15A 12
                    Because of health problem, difficulty walking
   H15B 12
                    You use equipment to walk
                    Because of health problem, difficulty get in/out of bed
   H18A 12
   H18B_12
                    You use equipment to get in/out of bed
   H1 12
                    Because of health problem, difficulty walking blocks
   H4_12
                    Because of health problem, difficulty staying seated
                    Because of health problem, difficulty getting up from \ensuremath{\mathbf{c}}
   H5 12
                    Because of health problem, difficulty with flights of s
   H6 12
   H7 12
                    Because of health problem, difficulty with 1 flight of
   H8 12
                    Because of health problem, difficulty sitting up
   H9 12
                    Because of health problem, difficulty lifting arms
Wave 4:
   H11 15
                    Because of health problem, does respondent have difficu
   H12 15
                    Because of health problem, does respondent have difficu
   H13 15
                    Because of health problem, does respondent have difficu
   H15A 15
                    Because of health problem, does respondent have any dif
   H15B 15
                    Does respondent ever use equipment (to walk across a ro
   H18A 15
                    Because of health problem, does respondent have any dif
   H18B_15
                    Does respondent ever use equipment (to get in or out of
   H1 15
                    Because of health problem, does respondent have difficu
   H4_15
                    Because of health problem, does respondent have difficu
   H5 15
                    Because of health problem, does respondent have difficu
   H6 15
                    Because of health problem, does respondent have difficu
   H7 15
                    Because of health problem, does respondent have difficu
   H8 15
                    Because of health problem, does respondent have difficu
   H9 15
                    Because of health problem, does respondent have difficu
Wave 5:
   H11 18
                    Due to health problem, difficult for R to lift/carry ob
   H12 18
                    Due to health problem, does R have difficulty picking u
    H13 18
                    Due to health problem, difficult for R to dress, includ
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H15A_18	Because of health problem, does R have any difficulty \boldsymbol{w}
H15B_18	R ever uses equipment (to walk across room) such as can
H18A_18	Because of health problem, does R have any difficulty g
H18B_18	R ever uses equipment to get in or out of bed, e.g. can
H1_18	Because of health problem, does R have difficulty walki
H4_18	Because of health problem, does R have difficulty sitti
H5_18	Due to health problem, difficult for R to get up from c
H6_18	Due to health problem, hard for R to climb several flig
H7_18	Due to health problem, difficult for R to climb 1 fligh
H8_18	Due to health problem, does R have difficulty stooping,
H9_18	Due to health problem, difficult for R to reach/extend

Future ADL Help

Wave	Variable	Label											Type
4	R3FTRHLP R4FTRHLP R5FTRHLP	<pre>r3ftrhlp: r4ftrhlp: r5ftrhlp:</pre>	w4	anyone	able	to	help	R	with	future	adl	needs	Categ Categ Categ
4	S3FTRHLP S4FTRHLP S5FTRHLP	<pre>s3ftrhlp: s4ftrhlp: s5ftrhlp:</pre>	w4	anyone	able	to	help	S	with	future	adl	needs	Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3FTRHLP	14073	0.62	0.49	0.00	1.00
R4FTRHLP	13730	0.60	0.49	0.00	1.00
R5FTRHLP	15710	0.66	0.47	0.00	1.00
S3FTRHLP	9732	0.61	0.49	0.00	1.00
S4FTRHLP	9309	0.59	0.49	0.00	1.00
S5FTRHLP	7000	0.66	0.47	0.00	1.00

Categorical Variable Codes

Value	R3FTRHLP	R4FTRHLP	R5FTRHLP
.d:DK	703	578	554
.m:Missing		34	20
.p:Proxy interview, not asked	923	592	803
.r:Refuse	1 24	11	27
0.No	5352	5461	5280
1.Yes	8721	8269	10430
Value	S3FTRHLP	S4FTRHLP	S5FTRHLP
.d:DK	474	391	246
.m:Missing		4	
.p:Proxy interview, not asked	368	134	201
.r:Refuse	18	8	14
.u:Unmar	1 4782	4844	5227
.v:SP NR	349	89	501
0.No	3834	3784	2395
1.Yes	5898	5525	4605

How Constructed

RWFTRHLP indicates whether, supposing in the future the respondent needed help with basic personal care activities like eating or dressing (i.e. ADL), they have relatives or friends who could and would be willing to help them over a long period with said needs. RWFTRHLP is coded as 1 if the respondent would have someone who could and would help them in the future if need be, while a 0 indicates they do not have anyone. RWFTRHLP is assigned special missing value .p if this question is not asked because this section was answered by proxy. Don't know, refused, or other missing responses are assigned special missing values codes .d, .r, and .m, respectively. RWFTRHLP is set to plain missing (.) for respondents who did not participate in the current wave.

SWFTRHLP indicates whether the respondent's current wave's spouse has someone who could help with future ADL needs, and is taken from RwFTRHLP. In addition to the special missing codes employed by RwFTRHLP, SwFTRHLP employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

This question is asked starting in Wave 3.

Differences with the RAND HRS/Harmonized HRS

The HRS asks whether the respondent has any relative or friends besides a spouse who would be able to help, while the MHAS asks whether the respondent has any relative or friends who would be able to help, and makes no distinctions about a spouse.

The HRS only asks this question if the respondent does not already receive help with personal care (ADL) needs, those currently receiving help are assigned special missing .h in RwFTRHLP in the Harmonized HRS. This question is asked of everyone in the MHAS. Unlike the HRS, the MHAS does not ask who would be able to help in the future.

Wave 3:		
G33 12	In the future: Will respondentfrom family/friends w.	ith
TIPENTG_12	Type of interview section G 2012	
Wave 4:		
G33_15	In the future: Will respondent from family/friends w	ith
TIPENTG_15	Type of interview Section G 2015	
Wave 5:		
G33_18	In the future: Will respondent from family/friends w	ith
TIPENT HH 18	Type of interview Household Sections 2018	

Activities of Daily Living: Whether Receives Any Care

Wave	Variable	Label	Type
1	R1RACANY	rlracany: w1 R receives any care for ADLs	Categ
2	R2RACANY	r2racany: w2 R receives any care for ADLs	Categ
3	R3RACANY	r3racany: w3 R receives any care for ADLs	Categ
4	R4RACANY	r4racany: w4 R receives any care for ADLs	Categ
5	R5RACANY	r5racany: w5 R receives any care for ADLs	Categ
1	S1RACANY	slracany: w1 S receives any care for ADLs	Categ
2	S2RACANY	s2racany: w2 S receives any care for ADLs	Categ
3	S3RACANY	s3racany: w3 S receives any care for ADLs	Categ
4	S4RACANY	s4racany: w4 S receives any care for ADLs	Categ
5	S5RACANY	s5racany: w5 S receives any care for ADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RACANY	1653	0.47	0.50	0.00	1.00
R2RACANY	1526	0.52	0.50	0.00	1.00
R3RACANY	2957	0.40	0.49	0.00	1.00
R4RACANY	3012	0.43	0.50	0.00	1.00
R5RACANY	3034	0.45	0.50	0.00	1.00
S1RACANY	980	0.47	0.50	0.00	1.00
S2RACANY	865	0.53	0.50	0.00	1.00
S3RACANY	1682	0.34	0.47	0.00	1.00
S4RACANY	1650	0.39	0.49	0.00	1.00
S5RACANY	1296	0.44	0.50	0.00	1.00

Categorical Variable Codes

Value	R1RACANY	R2RACANY	R3RACANY	R4RACANY	R5RACANY
.d:DK	1		1	6	2
.m:Missing	40	34		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	873	737	1785	1715	1654
1.Yes	780	789	1172	1297	1380
Value	S1RACANY	S2RACANY	S3RACANY	S4RACANY	S5RACANY
.d:DK	01111011111	02141011111	1	5	00141011111
.m:Missing	14	12		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	524	408	1107	1012	724
1.Yes	456	457	575	638	572

How Constructed

RWRACANY indicates whether the respondent receives any care for difficulties with activities of daily living (ADL). If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. RWRACANY is assigned a value of 0 if the respondent has difficulty with at least one ADL but receives no help with the activity. RWRACANY is assigned a value of 1 if the respondent has difficulty with at least one ADL and someone helps with at least one of the activities. RWRACANY is assigned special missing value .x if the respondent has no difficulty with any ADLs. Don't know, refused, and other missing responses are assigned special missing

values .d, .r, and .m, respectively. RwRACANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRACANY indicates whether the respondent's current wave's spouse receives any care for difficulties with ADLs, and its values are taken from RwRACANY. In addition to the special missing codes employed by RwRACANY, SwRACANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

No differences known.

```
Wave 1:
                   help dressing
   H14
   H15 3
                   spouse helps walking
   H15 4
                   other helps walking
   H16 3
                   spouse helps bathing
   H16 4
                   other helps bathing
   H17_3
                   spouse helps eating
   H17_4
                   other helps eating
   H18 3
                   spouse helps getting in an out of bed
   H18 4
                   other helps getting in an out of bed
    H19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 2:
                   someone help you to get dressed
   H14
    H15E
                    spouse helps
    H15F
                    additional person helps
    H16E
                    spouse helps
    H16F
                    additional person helps
   H17E
                    spouse helps
   H17F
                    additional person helps
   H18E
                    spouse helps
                    additional person helps
   H18F
    H19E
                    spouse helps
   H19F
                    additional person helps
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
                    Does someone help you eat your food
   H17D 12
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D_15
                    Does someone help respondent eating
    H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                   Does someone help R eating
    H18D 18
                    Does someone help R getting in or out of bed
```

H19D_18

Does someone help R using the toilet

Activities of Daily Living: Whether Receives Any Informal Care

Wave	Variable	Label									Type
1	R1RACAANY	r1racaany:	w1	R	receives	any	informal	care	for	ADLs	Categ
2	R2RACAANY	r2racaany:	w2	R	receives	any	informal	care	for	ADLs	Categ
3	R3RACAANY	r3racaany:	wЗ	R	receives	any	informal	care	for	ADLs	Categ
4	R4RACAANY	r4racaany:	w4	R	receives	any	informal	care	for	ADLs	Categ
5	R5RACAANY	r5racaany:	w5	R	receives	any	informal	care	for	ADLs	Categ
1	S1RACAANY	s1racaany:	w1	S	receives	any	informal	care	for	ADLs	Categ
2	S2RACAANY	s2racaany:	w2	S	receives	any	informal	care	for	ADLs	Categ
3	S3RACAANY	s3racaany:	wЗ	S	receives	any	informal	care	for	ADLs	Categ
4	S4RACAANY	s4racaany:	w4	S	receives	any	informal	care	for	ADLs	Categ
5	S5RACAANY	s5racaany:	w5	S	receives	any	informal	care	for	ADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RACAANY	1653	0.41	0.49	0.00	1.00
R2RACAANY	1530	0.44	0.50	0.00	1.00
R3RACAANY	2957	0.35	0.48	0.00	1.00
R4RACAANY	3012	0.37	0.48	0.00	1.00
R5RACAANY	3034	0.40	0.49	0.00	1.00
S1RACAANY	980	0.41	0.49	0.00	1.00
S2RACAANY	869	0.45	0.50	0.00	1.00
S3RACAANY	1682	0.28	0.45	0.00	1.00
S4RACAANY	1650	0.31	0.46	0.00	1.00
S5RACAANY	1296	0.37	0.48	0.00	1.00

Categorical Variable Codes

Value	R1RACAANY	R2RACAANY	R3RACAANY	R4RACAANY	R5RACAANY
.d:DK	1		1	6	2
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	969	852	1926	1912	1834
1.Yes	684	678	1031	1100	1200
Value	S1RACAANY	S2RACAANY	S3RACAANY	S4RACAANY	S5RACAANY
.d:DK			1	5	
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	581	479	1208	1133	816
1.Yes	399	390	474	517	480

How Constructed

RWRACAANY indicates whether the respondent receives any informal care for difficulties with activities of daily living (ADL). The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The following relationships are considered to provide informal care: spouse, child, child-in-law, grandchild, parent, other relative, other person.

Please note that for each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

RWRACAANY is assigned a value of 0 if the respondent has difficulty with at least one ADL but receives no help with the activity from an informal caregiver, or does not receive any help at all. RWRACAANY is assigned a value of 1 if the respondent has difficulty with at least one ADL and an informal caregiver helps with at least one of the activities. RWRACAANY is assigned special missing value .x if the respondent has no difficulty with any ADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RWRACAANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRACAANY indicates whether the respondent's current wave's spouse receives any informal care for difficulties with ADLs, and its values are taken from RwRACAANY. In addition to the special missing codes employed by RwRACAANY, SwRACAANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible in the Harmonized HRS and Harmonized MHAS.

Wave 1:	
H14	help dressing
H15 3	spouse helps walking
H15 4	other helps walking
H16 3	spouse helps bathing
H16 4	other helps bathing
H17 3	spouse helps eating
H17 4	other helps eating
H18 ⁻ 3	spouse helps getting in an out of bed
H18 4	other helps getting in an out of bed
H19 ³	spouse helps using toilet
H19_4	other helps using toilet
Wave 1 Helper:	
H22	kinship of helper
H23	roster number of helper
Wave 2:	
H14	someone help you to get dressed
H15E	spouse helps
H15F	additional person helps
H16E	spouse helps
H16F	additional person helps
H17E	spouse helps
H17F	additional person helps
H18E	spouse helps
H18F	additional person helps

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H19E
                    spouse helps
    H19F
                    additional person helps
Wave 2 Helper:
    H22
                    relationship
    H23
                    registration number
Wave 3:
    H14 12
                    Someone help you to get dressed
    H15D 12
                    Someone help you walk across room
    H16D 12
                    Someone help you to bathe or shower
    H17D 12
                    Does someone help you eat your food
    H18D 12
                    Does someone help you get into or out of bed
    H19D 12
                    Does someone help you use toilet, get on off
    H22_1_12
                    Relationship with helper for ADLs
   H22_2_12
H22_3_12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
    H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23 4 12
    H23_5_12
                    Registration number of helper for ADLs
    H23_6_12
                    Registration number of helper for ADLs
    H23_7_12
                    Registration number of helper for ADLs
    H23 8 12
                    Registration number of helper for ADLs
Wave 4:
    H14 15
                    Does someone help respondent to get dressed
    H15D 15
                    Does someone help respondent walking across a room
    H16D 15
                    Does someone help respondent bathing or showering
    H17D 15
                    Does someone help respondent eating
                    Does someone help respondent getting in or out of bed
    H18D 15
    H19D 15
                    Does someone help respondent using the toilet
    H22 1 15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
    H22 2 15
                    Respondent's relationship with person helping with ADLs
    H22_3_15
    H22_4_15
                    Respondent's relationship with person helping with ADLs
    H22_5_15
                    Respondent's relationship with person helping with ADLs
    H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22_7_15
H22_8_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
    H23<sup>1</sup>15
                    Registration number of person helping with ADLs
    H23 2 15
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
    H23 4 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
    H23 5 15
    H23 6 15
                    Registration number of person helping with ADLs
    H23 7 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
    H23 8 15
Wave 5:
   H14 18
                    Does someone help R to get dressed
    H15D 18
                    Does someone help R walking across a room
    H16D 18
                    Does someone help R bathing or showering
    H17D 18
                    Does someone help R eating
    H18D 18
                    Does someone help R getting in or out of bed
    H19D 18
                    Does someone help R using the toilet
    H22 \overline{1} 18
                    R's relationship with person helping with ADLs
    H22 2 18
                    R's relationship with person helping with ADLs
    H22 3 18
                    R's relationship with person helping with ADLs
    H23 1 18
                    Registration number of person helping with ADLs
    H23 2 18
                    Registration number of person helping with ADLs
    H23 3 18
                    Registration number of person helping with ADLs
```

Activities of Daily Living: Receives Informal Care from Spouse

Wave	Variable	Label	Type
1	R1RASCARE	rlrascare: w1 R receives informal care from spouse for ADLs	Categ
2	R2RASCARE	r2rascare: w2 R receives informal care from spouse for ADLs	Categ
	R3RASCARE	r3rascare: w3 R receives informal care from spouse for ADLs	Categ
	R4RASCARE	r4rascare: w4 R receives informal care from spouse for ADLs	Categ
	R5RASCARE	r5rascare: w5 R receives informal care from spouse for ADLs	Categ
1	S1RASCARE	slrascare: w1 S receives informal care from spouse for ADLs	Categ
2	S2RASCARE	s2rascare: w2 S receives informal care from spouse for ADLs	Categ
3	S3RASCARE	s3rascare: w3 S receives informal care from spouse for ADLs	Categ
4	S4RASCARE	s4rascare: w4 S receives informal care from spouse for ADLs	Categ
5	S5RASCARE	s5rascare: w5 S receives informal care from spouse for ADLs	Categ
2	R2RASCAREDPM	r2rascaredpm: w2 days/month spouse helps R with ADLs	Cont
	R3RASCAREDPM	r3rascaredpm: w3 days/month spouse helps R with ADLs	Cont
4	R4RASCAREDPM	r4rascaredpm: w4 days/month spouse helps R with ADLs	Cont
5	R5RASCAREDPM	r5rascaredpm: w5 days/month spouse helps R with ADLs	Cont
0	~^		~ .
	S2RASCAREDPM	s2rascaredpm: w2 days/month spouse helps S with ADLs	Cont
3	S3RASCAREDPM	s3rascaredpm: w3 days/month spouse helps S with ADLs	Cont
4	S4RASCAREDPM	s4rascaredpm: w4 days/month spouse helps S with ADLs	Cont
5	S5RASCAREDPM	s5rascaredpm: w5 days/month spouse helps S with ADLs	Cont
2	R2RASCAREDPMM	r2rascaredpmm: w2 R # spouse missing days of help for ADLs	Cont
3	R3RASCAREDPMM	r3rascaredpmm: w3 R # spouse missing days of help for ADLs	Cont
	R4RASCAREDPMM	r4rascaredpmm: w4 R # spouse missing days of help for ADLs	Cont
	R5RASCAREDPMM	r5rascaredpmm: w5 R # spouse missing days of help for ADLs	Cont
5	TOTALD CHILD HIT	Total care april. Wo it a spoule missing days of help for hold	COIIC
2	S2RASCAREDPMM	s2rascaredpmm: w2 S # spouse missing days of help for ADLs	Cont
3	S3RASCAREDPMM	s3rascaredpmm: w3 S # spouse missing days of help for ADLs	Cont
4	S4RASCAREDPMM	s4rascaredpmm: w4 S # spouse missing days of help for ADLs	Cont
5	S5RASCAREDPMM	s5rascaredpmm: w5 S # spouse missing days of help for ADLs	Cont
	R2RASCAREHR	r2rascarehr: w2 hours/day spouse helps R with ADLs	Cont
	R3RASCAREHR	r3rascarehr: w3 hours/day spouse helps R with ADLs	Cont
	R4RASCAREHR	r4rascarehr: w4 hours/day spouse helps R with ADLs	Cont
5	R5RASCAREHR	r5rascarehr: w5 hours/day spouse helps R with ADLs	Cont
2	S2RASCAREHR	s2rascarehr: w2 hours/day spouse helps S with ADLs	Cont
	S3RASCAREHR	s3rascarehr: w3 hours/day spouse helps S with ADLs	Cont
4	S4RASCAREHR	s4rascarehr: w4 hours/day spouse helps S with ADLs	Cont
5	S5RASCAREHR S5RASCAREHR	s5rascarehr: w4 hours/day spouse helps S with ADLs	Cont
5	SURASCARERR	solascareni: wo nours/day spouse neips s with ADLS	COIL
2	R2RASCAREHRM	r2rascarehrm: w2 R # spouse missing hours of help for ADLs	Cont
	R3RASCAREHRM	r3rascarehrm: w3 R # spouse missing hours of help for ADLs	Cont
	R4RASCAREHRM	r4rascarehrm: w4 R # spouse missing hours of help for ADLs	Cont
5	R5RASCAREHRM	r5rascarehrm: w5 R # spouse missing hours of help for ADLs	Cont
-			
2	S2RASCAREHRM	s2rascarehrm: w2 S # spouse missing hours of help for ADLs	Cont
3	S3RASCAREHRM	s3rascarehrm: w3 S # spouse missing hours of help for ADLs	Cont
4	S4RASCAREHRM	s4rascarehrm: w4 S # spouse missing hours of help for ADLs	Cont
5	S5RASCAREHRM	s5rascarehrm: w5 S # spouse missing hours of help for ADLs	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RASCARE	780	0.45	0.50	0.00	1.00
R2RASCARE	793	0.34	0.48	0.00	1.00

Section L: Assistance	ce and Caregi	ving					581
R3RASCARE	1172	0.25	0.43		0.00	1.00	
R4RASCARE	1297	0.25	0.43		0.00	1.00	
R5RASCARE	1380	0.17	0.43		0.00	1.00	
NUNAUCANE	1300	0.17	0.30		0.00	1.00	
S1RASCARE	456	0.75	0.43		0.00	1.00	
S2RASCARE	461	0.59	0.49		0.00	1.00	
S3RASCARE	575	0.50	0.50		0.00	1.00	
S4RASCARE	638	0.50	0.50		0.00	1.00	
S5RASCARE	572	0.33	0.47		0.00	1.00	
R2RASCAREDPM	793	8.60	13.16		0.00	30.00	
R3RASCAREDPM	1172	5.89	11.49		0.00	30.00	
R4RASCAREDPM	1295	5.22	10.80		0.00	30.00	
R5RASCAREDPM	1362	4.10	10.10		0.00	30.00	
00010010000	4.61	14 72	14.26		0.00	20.00	
S2RASCAREDPM S3RASCAREDPM	461	14.73	14.36		0.00	30.00	
S4RASCAREDPM S4RASCAREDPM	575 636	11.76 10.32	13.96 13.34		0.00	30.00 30.00	
S5RASCAREDPM	556	7.98	13.01		0.00	30.00	
SUMSCANDEM	550	1.30	13.01		0.00	50.00	
R2RASCAREDPMM	793	0.00	0.00		0.00	0.00	
R3RASCAREDPMM	1172	0.00	0.00		0.00	0.00	
R4RASCAREDPMM	1297	0.00	0.04		0.00	1.00	
R5RASCAREDPMM	1380	0.01	0.11		0.00	1.00	
S2RASCAREDPMM	461	0.00	0.00		0.00	0.00	
S3RASCAREDPMM	575	0.00	0.00		0.00	0.00	
S4RASCAREDPMM	638	0.00	0.06		0.00	1.00	
S5RASCAREDPMM	572	0.03	0.17		0.00	1.00	
DODACCADEUD	791	2.08	4.98		0.00	24.00	
R2RASCAREHR R3RASCAREHR	1170	2.00	6.73		0.00	24.00	
R4RASCAREHR	1295	1.51	4.01		0.00	24.00	
R5RASCAREHR	1360	1.21	4.31		0.00	24.00	
S2RASCAREHR	459	3.58	6.12		0.00	24.00	
S3RASCAREHR	573	5.36	8.77		0.00	24.00	
S4RASCAREHR	636	2.97	5.21		0.00	24.00	
S5RASCAREHR	553	2.61	6.23		0.00	24.00	
		0.00	0.05		0.00	1 00	
R2RASCAREHRM	793	0.00	0.05		0.00	1.00	
R3RASCAREHRM	1172	0.00	0.04		0.00	1.00	
R4RASCAREHRM	1297	0.00	0.04		0.00	1.00	
R5RASCAREHRM	1380	0.01	0.12		0.00	1.00	
S2RASCAREHRM	461	0.00	0.07		0.00	1.00	
S3RASCAREHRM	575	0.00	0.06		0.00	1.00	
S4RASCAREHRM	638	0.00	0.06		0.00	1.00	
S5RASCAREHRM	572	0.03	0.18		0.00	1.00	
Categorical Var	riable Code	es					
Value			R1RASCARE	R2RASCARE	R3RASCARE	R4RASCARE	R5RASCARE
.d:DK		1	1		1	6	2
.h:no help receiv	red		873	737	1785	1715	1654
.m:Missing .r:Refuse		l I	40	30	1	40 1	18 82
.x:no difficulty		 	13490	12144	12764	11720	13978
0.No			432	521	878	971	1143
1.Yes		į	348	272	294	326	237
T7- 1		i	010300355	00030030=	02D3 003 5 =	0.4D2.003.D=	0ED1001D=
Value .d:DK			S1RASCARE	S2RASCARE	S3RASCARE 1	S4RASCARE 5	S5RASCARE
.h:no help receiv	red	 	524	408	1107	1012	724
.m:Missing		į	14	8		10	3

.r:Refuse	I	1				55
.u:Unmar		4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
.x:no difficulty		9653	8687	8909	7987	6107
0.No		112	190	288	321	386
1.Yes		344	271	287	317	186

How Constructed

The following variables indicate whether the respondent's spouse helps the respondent with any ADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL but does not receive any help. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRASCAREDPM, RWRASCAREDPMM, RWRASCAREHR, and RWRASCAREHRM include help from the respondent's spouse.

RwRASCARE indicates whether the respondent's spouse helps the respondent with any ADL needs. RwRASCARE is coded as 0 if the respondent receives no assistance from their spouse; and is coded as 1 if the respondent does receive help from their spouse.

RWRASCAREDPM indicates the number of days in the last month the respondent's spouse helped the respondent with ADL needs. If the respondent reports receiving help every day from their spouse, then a value of 30 is assumed. RwRASCAREDPM is assigned a value of 0 if the respondent did not receive help from their spouse. RwRASCAREDPMM indicates whether no value of days was reported for their spouse helper and so was not accounted for in RwRASCAREDPM. RwRASCAREDPMM is assigned special missing value .m if the respondent was not helped by their spouse. RwRASCAREDPM and RwRASCAREDPMM are not available in wave 1.

RWRASCAREHR indicates the number of hours per day the respondent's spouse helps the respondent with any ADL needs on the days that the respondent receives help. Respondents are asked, on days their spouse helps with a particular ADL need, how many hours per day their spouse helps. If the respondent reports less than an hour for their spouse, then a 1 is assumed. RWRASCAREHR is assigned a value of 0 if the respondent did not receive help from their spouse. RWRASCAREHRM indicates whether no value of hours was reported for their spouse helper and so was not accounted for in RWRASCAREHR. RWRASCAREHRM is assigned special missing value .m if the respondent was not helped by their spouse. RWRASCAREHR and RWRASCAREHRM are not available in wave 1.

SWRASCAREDPM, and SWRASCAREHR indicate whether and the frequency with which the respondent's current wave's spouse receives help from the respondent, and their values are taken from RwRASCARE, RwRASCAREDPM, and RwRASCAREHR. SwRASCAREDPMM and SwRASCAREHRM indicate whether or not a value was reported for the number of days and hours the respondent's current spouse was helped by the respondent and are taken from RwRASCAREDPMM and RwRASCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The respondent is asked the number of days per month and hours per day the respondent receives help from their spouse starting in Wave 2.

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible. These variables in the Harmonized HRS include help provided by the respondent's spouse or former spouse, whereas these variables only include help provided by the respondent's spouse in the Harmonized MHAS.

RWRASCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRASCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs.

```
Wave 1:
    H14
                    help dressing
    H15 3
                    spouse helps walking
    H15 4
                    other helps walking
   H16 3
                    spouse helps bathing
   H16 4
                    other helps bathing
   H17 3
                    spouse helps eating
   H17 4
                    other helps eating
   H18 3
                   spouse helps getting in an out of bed
   H18 4
                   other helps getting in an out of bed
    H19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 1 Helper:
    H22
                    kinship of helper
                    roster number of helper
    H23
    H24
                    days of help
                    hours of help
    H25
Wave 2:
    H14
                    someone help you to get dressed
   H15E
                    spouse helps
   H15F
                    additional person helps
   H16E
                    spouse helps
   H16F
                    additional person helps
   H17E
                    spouse helps
   H17F
                    additional person helps
   H18E
                    spouse helps
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
    H24
                    number of days (name) helped last month
   H25
                    number of hours during those days
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
    H16D 12
                    Someone help you to bathe or shower
```

```
H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22 \overline{1} 12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22_7_12
                    Relationship with helper for ADLs
   H22_8_12
                    Relationship with helper for ADLs
   H23_1_12
                    Registration number of helper for ADLs
   H23_2_12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23 7 12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23 8 12
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24_5_12
                    Number of days (name) helped last month
   H24_6_12
                    Number of days (name) helped last month
   H24_7_12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H24 8 12
   H25_1_12
                    Number of hours during those days (NAME) helped
   H25 2 12
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
   H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
   H25 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22 2 15
                    Respondent's relationship with person helping with ADLs
   H22 3 15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 6 15
   H22 7 15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23_2_15
   H23 3 15
                    Registration number of person helping with ADLs
   H23_4_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23_5_15
   H23 6 15
                    Registration number of person helping with ADLs
   H23_7_15
H23_8_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H24 1 15
                    Number of days the person helped during last month
   H24 2 15
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
    H24 4 15
                    Number of days the person helped during last month
    H24 5 15
                    Number of days the person helped during last month
    H24 6 15
                    Number of days the person helped during last month
```

H24_7_15	Number of days the person helped during last month
H24 8 15	Number of days the person helped during last month
H25 1 15	Number of hours during those days that the person helpe
H25 2 15	Number of hours during those days that the person helpe
H25 3 15	Number of hours during those days that the person helpe
H25 4 15	Number of hours during those days that the person helpe
H25 5 15	Number of hours during those days that the person helpe
H25 6 15	Number of hours during those days that the person helpe
H25 7 15	Number of hours during those days that the person helpe
H25 8 15	Number of hours during those days that the person helpe
Wave 5:	
H14 18	Does someone help R to get dressed
H15D_18	Does someone help R walking across a room
H16D 18	Does someone help R bathing or showering
H17D_18	Does someone help R eating
H18D_18	Does someone help R getting in or out of bed
H19D_18	Does someone help R using the toilet
H22_1_18	R's relationship with person helping with ADLs
H22 2 18	R's relationship with person helping with ADLs
н22 3 18	R's relationship with person helping with ADLs
н23 1 18	Registration number of person helping with ADLs
H23_2_18	Registration number of person helping with ADLs
н23_3_18	Registration number of person helping with ADLs
H24 1 18	Number of days the person helped during last month
H24 2 18	Number of days the person helped during last month
H24_3_18	Number of days the person helped during last month
н25 1 18	Number of hours during those days that the person helpe
H25_2_18	Number of hours during those days that the person helpe
н25 3 18	Number of hours during those days that the person helpe

Activities of Daily Living: Receives Informal Care from Children or Grandchildren

Wave	Variable	Label	Туре
1	R1RACCARE	rlraccare: w1 R receives informal care from kids/grandkids f	Categ
2	R2RACCARE	r2raccare: w2 R receives informal care from kids/grandkids f	Categ
3	R3RACCARE	r3raccare: w3 R receives informal care from kids/grandkids f	Categ
4	R4RACCARE	r4raccare: w4 R receives informal care from kids/grandkids f	Categ
5	R5RACCARE	r5raccare: w5 R receives informal care from kids/grandkids f	Categ
Ü	1.014100111.2	Totalogie, we is received intermed outs from hind, grandhidd r	ouccg
1	S1RACCARE	slraccare: w1 S receives informal care from kids/grandkids f	Categ
2	S2RACCARE	s2raccare: w2 S receives informal care from kids/grandkids f	Categ
3	S3RACCARE	s3raccare: w3 S receives informal care from kids/grandkids f	Categ
4	S4RACCARE	s4raccare: w4 S receives informal care from kids/grandkids f	Categ
5	S5RACCARE	s5raccare: w5 S receives informal care from kids/grandkids f	Categ
Ü	0014100111.2	boladdaro. No b 10001/00 imioimar daro ilom hiad/gianahiad i	ouccg
1	R1RACCAREN	rlraccaren: w1 # kids/grandkids who help R with ADLs	Cont
2	R2RACCAREN	r2raccaren: w2 # kids/grandkids who help R with ADLs	Cont
3	R3RACCAREN	r3raccaren: w3 # kids/grandkids who help R with ADLs	Cont
	R4RACCAREN	r4raccaren: w4 # kids/grandkids who help R with ADLs	Cont
5	R5RACCAREN	r5raccaren: w5 # kids/grandkids who help R with ADLs	Cont
9	NONACCANDIN	131accaten. w3 # kias/granakias wno neip k with ADBS	COIIC
1	S1RACCAREN	slraccaren: w1 # kids/grandkids who help S with ADLs	Cont
2	S2RACCAREN	s2raccaren: w2 # kids/grandkids who help S with ADLs	Cont
3	S3RACCAREN	s3raccaren: w3 # kids/grandkids who help S with ADLs	Cont
4	S4RACCAREN	s4raccaren: w4 # kids/grandkids who help S with ADLs	Cont
5	S5RACCAREN	s5raccaren: w5 # kids/grandkids who help S with ADLs	Cont
J	SUNACCANEN	Soldecaten. Wo # kids/grandkids who help 5 with ADES	COIIC
1	R1RACCAREDPM	rlraccaredpm: w1 days/month kids/grandkids help R with ADLs	Cont
2	R2RACCAREDPM	r2raccaredpm: w2 days/month kids/grandkids help R with ADLs	Cont
3	R3RACCAREDPM	r3raccaredpm: w3 days/month kids/grandkids help R with ADLs	Cont
4	R4RACCAREDPM	r4raccaredpm: w4 days/month kids/grandkids help R with ADLs	Cont
5	R5RACCAREDPM	r5raccaredpm: w5 days/month kids/grandkids help R with ADLs	Cont
5	NONACCANEDI M	131accareapm: w3 days/monen kras/granakras nerp k wren Abbs	COIIC
1	S1RACCAREDPM	slraccaredpm: w1 days/month kids/grandkids help S with ADLs	Cont
2	S2RACCAREDPM	s2raccaredpm: w2 days/month kids/grandkids help S with ADLs	Cont
3	S3RACCAREDPM	s3raccaredpm: w3 days/month kids/grandkids help S with ADLs	Cont
4	S4RACCAREDPM	s4raccaredpm: w4 days/month kids/grandkids help S with ADLs	Cont
5	S5RACCAREDPM	s5raccaredpm: w5 days/month kids/grandkids help S with ADLs	Cont
9	DONACCANEDIN	331accareapiii. w3 day3/iiioiicii kras/granakras nerp 3 wrch ADBS	COIIC
1	R1RACCAREDPMM	rlraccaredpmm: w1 R # kids/grandkids missing days of help fo	Cont
2	R2RACCAREDPMM	r2raccaredpmm: w2 R # kids/grandkids missing days of help fo	Cont
3	R3RACCAREDPMM	r3raccaredpmm: w3 R # kids/grandkids missing days of help fo	Cont
4	R4RACCAREDPMM	r4raccaredpmm: w4 R # kids/grandkids missing days of help fo	Cont
5	R5RACCAREDPMM	r5raccaredpmm: w5 R # kids/grandkids missing days of help fo	Cont
J	TOTALO OF ILLED FILE	Totaloateaphin. Wo k white plantage with the former to	00110
1	S1RACCAREDPMM	slraccaredpmm: w1 S # kids/grandkids missing days of help fo	Cont
2	S2RACCAREDPMM	s2raccaredpmm: w2 S # kids/grandkids missing days of help fo	Cont
3	S3RACCAREDPMM	s3raccaredpmm: w3 S # kids/grandkids missing days of help fo	Cont
4	S4RACCAREDPMM	s4raccaredpmm: w4 S # kids/grandkids missing days of help fo	Cont
5	S5RACCAREDPMM	s5raccaredpmm: w5 S # kids/grandkids missing days of help fo	Cont
Ü	00141001114221141	bolaccarcap wo s # mrac/gramamrac mrecring aare or norp re-	00110
1	R1RACCAREHR	rlraccarehr: wl hours/day kids/grandkids help R with ADLs	Cont
2	R2RACCAREHR	r2raccarehr: w2 hours/day kids/grandkids help R with ADLs	Cont
3	R3RACCAREHR	r3raccarehr: w3 hours/day kids/grandkids help R with ADLs	Cont
4	R4RACCAREHR	r4raccarehr: w4 hours/day kids/grandkids help R with ADLs	Cont
5	R5RACCAREHR	r5raccarehr: w5 hours/day kids/grandkids help R with ADLs	Cont
J		no note, and near year and note in the note	55116
1	S1RACCAREHR	slraccarehr: wl hours/day kids/grandkids help S with ADLs	Cont
2	S2RACCAREHR	s2raccarehr: w2 hours/day kids/grandkids help S with ADLs	Cont
3	S3RACCAREHR	s3raccarehr: w3 hours/day kids/grandkids help S with ADLs	Cont
4	S4RACCAREHR	s4raccarehr: w4 hours/day kids/grandkids help S with ADLs	Cont
5	S5RACCAREHR	s5raccarehr: w5 hours/day kids/grandkids help S with ADLs	Cont
_		TILLITE TO ALO, GA, ALGO, GLANGERO HOLP O WICH HOLD	55116

1	R1RACCAREHRM	r1raccarehrm:	w1	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
2	R2RACCAREHRM	r2raccarehrm:	w2	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
3	R3RACCAREHRM	r3raccarehrm:	wЗ	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
4	R4RACCAREHRM	r4raccarehrm:	w4	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
5	R5RACCAREHRM	r5raccarehrm:	w5	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
1	S1RACCAREHRM	s1raccarehrm:	w1	S	#	kids/grandkids	missing	hours	of	help	fo	Cont
	S1RACCAREHRM S2RACCAREHRM					kids/grandkids kids/grandkids	_			-		
		s2raccarehrm:	w2	S	#	_	missing	hours	of	help	fo	
2	S2RACCAREHRM	<pre>s2raccarehrm: s3raccarehrm:</pre>	w2 w3	S S	# #	kids/grandkids	missing missing	hours hours	of of	help help	fo fo	Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RACCARE	780	0.55	0.50	0.00	1.00
R2RACCARE	793	0.54	0.50	0.00	1.00
R3RACCARE	1172	0.58	0.49	0.00	1.00
R4RACCARE	1297	0.56	0.50	0.00	1.00
R5RACCARE	1380	0.61	0.49	0.00	1.00
S1RACCARE	456	0.43	0.50	0.00	1.00
S2RACCARE	461	0.42	0.49	0.00	1.00
S3RACCARE	575	0.39	0.49	0.00	1.00
S4RACCARE	638	0.39	0.49	0.00	1.00
S5RACCARE	572	0.49	0.50	0.00	1.00
D1 D2 CC2 DEN	700	0.00	1 16	0.00	10.00
R1RACCAREN	780	0.89	1.16	0.00	12.00
R2RACCAREN	793	0.87	1.12	0.00	9.00
R3RACCAREN	1172	0.80	0.90	0.00	8.00
R4RACCAREN	1297	0.79	0.93	0.00	8.00
R5RACCAREN	1380	1.02	1.03	0.00	3.00
S1RACCAREN	456	0.70	1.04	0.00	8.00
S2RACCAREN	461	0.69	1.08	0.00	7.00
S3RACCAREN	575	0.54	0.85	0.00	6.00
S4RACCAREN	638	0.53	0.87	0.00	8.00
S5RACCAREN	572	0.76	0.94	0.00	3.00
R1RACCAREDPM	780	21.95	31.72	0.00	360.00
R2RACCAREDPM	793	20.03	27.12	0.00	195.00
R3RACCAREDPM	1168	17.83	22.55	0.00	178.00
R4RACCAREDPM	1295	16.21	21.06	0.00	210.00
R5RACCAREDPM	1355	24.15	27.55	0.00	90.00
C1DACCADEDDM	456	16.78	26.35	0.00	150.00
S1RACCAREDPM S2RACCAREDPM	461	15.52	26.09	0.00	195.00
S3RACCAREDPM	572	10.81	19.30	0.00	150.00
S4RACCAREDPM	637	10.16	16.88	0.00	92.00
S5RACCAREDPM	565	17.46	25.07	0.00	90.00
D1D1001=====	700	0.00	0.00	0.00	2 22
R1RACCAREDPMM	780	0.00	0.00	0.00	0.00
R2RACCAREDPMM	793	0.00	0.00	0.00	0.00
R3RACCAREDPMM	1172	0.01	0.07	0.00	1.00
R4RACCAREDPMM	1297	0.01	0.08	0.00	2.00
R5RACCAREDPMM	1380	0.03	0.21	0.00	3.00
S1RACCAREDPMM	456	0.00	0.00	0.00	0.00
S2RACCAREDPMM	461	0.00	0.00	0.00	0.00
S3RACCAREDPMM	575	0.01	0.07	0.00	1.00
S4RACCAREDPMM	638	0.00	0.04	0.00	1.00
S5RACCAREDPMM	572	0.02	0.18	0.00	3.00

R1RACCAREHR	780	4.79	8.23	0.00	80.00
R2RACCAREHR	793	4.98	11.19	0.00	216.00
R3RACCAREHR	1164	7.45	11.16	0.00	90.00
R4RACCAREHR	1293	4.92	9.21	0.00	168.00
R5RACCAREHR	1355	7.14	11.78	0.00	72.00
S1RACCAREHR	456	3.36	7.39	0.00	80.00
S2RACCAREHR	461	2.93	5.86	0.00	48.00
S3RACCAREHR	570	4.16	9.37	0.00	90.00
S4RACCAREHR	636	2.64	5.51	0.00	55.00
S5RACCAREHR	565	4.55	8.84	0.00	72.00
R1RACCAREHRM	780	0.00	0.00	0.00	0.00
R2RACCAREHRM	793	0.00	0.00	0.00	0.00
R3RACCAREHRM	1172	0.01	0.13	0.00	3.00
R4RACCAREHRM	1297	0.01	0.14	0.00	4.00
R5RACCAREHRM	1380	0.04	0.24	0.00	3.00
S1RACCAREHRM	456	0.00	0.00	0.00	0.00
S2RACCAREHRM	461	0.00	0.00	0.00	0.00
S3RACCAREHRM	575	0.01	0.15	0.00	3.00
S4RACCAREHRM	638	0.00	0.06	0.00	1.00
S5RACCAREHRM	572	0.02	0.18	0.00	3.00

Categorical Variable Codes

Value	R1RACCARE	R2RACCARE	R3RACCARE	R4RACCARE	R5RACCARE
.d:DK	1		1	6	2
.h:no help received	873	737	1785	1715	1654
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	351	363	495	570	534
1.Yes	429	430	677	727	846
Value	S1RACCARE	S2RACCARE	S3RACCARE	S4RACCARE	S5RACCARE
.d:DK			1	5	
.h:no help received	524	408	1107	1012	724
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	259	267	352	387	293
1.Yes	197	194	223	251	2.79

How Constructed

The following variables indicate whether the respondent's children or grandchildren help the respondent with any ADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRACCARE, RWRACCAREN, RWRACCAREDPM, RWRACCAREDPMM, RWRACCAREHR, and RWRACCAREHRM include help from a child, child-in-law, or grandchild.

RWRACCARE indicates whether any of the respondent's children or grandchildren help the respondent with ADL needs. RWRACCAREN indicates the number of the respondent's children or grandchildren who help the respondent with ADL needs. RWRACCARE is coded as 0 if none of the respondent's children or grandchildren help the respondent with ADLs; and is coded as 1 if at least one of the respondent's children or grandchildren help the respondent with ADLs.

RWRACCAREDPM indicates the number of total days per month the respondent's children or grandchildren help the respondent with ADL needs. If the respondent reports receiving help every day from that child or grandchild, then a value of 30 is assumed. RWRACCAREDPM is the sum of days per month for all children or grandchildren helpers, and so values can be over 30 days. RWRACCAREDPM is calculated as long as there is one non-missing value. RWRACCAREDPM is assigned a value of 0 if the respondent did not receive help from any children or grandchildren. RWRACCAREDPMM indicates the number of children or grandchildren who helped the respondent for whom no value of days was reported and was not accounted for in RWRACCAREDPM. RWRACCAREDPMM is assigned special missing value .m if the respondent was not helped by any children or grandchildren.

RWRACCAREHR indicates the number of hours per day the respondent's children or grandchildren help the respondent with ADL needs. Respondents are asked, on days their children or grandchildren help, how many hours per day that is. If the respondent reports less than an hour for that child or grandchild, then a 1 is assumed. RWRACCAREHR is the sum of hours per day for all children or grandchildren helpers, and so values can be over 24 hours. RWRACCAREHR is calculated as long as there is one non-missing value. RWRACCAREHR is assigned a value of 0 if the respondent did not receive help from any children or grandchildren. RWRACCAREHRM indicates the number of children or grandchildren who helped the respondent for whom no value of hours was reported and was not accounted for in RWRACCAREHR. RWRACCAREHRM is assigned special missing value .m if the respondent was not helped by any children or grandchildren.

SWRACCAREN, SWRACCAREN, SWRACCAREDPM, and SWRACCAREHR indicate whether the respondent's current wave's spouse receives help from children or grandchildren, the number, and the frequency with which, and their values are taken from RwRACCARE, RwRACCAREN, RwRACCAREDPM, and RwRACCAREHR. SwRACCAREDPMM and SwRACCAREHRM indicate the number of children who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RwRACCAREDPMM and RwRACCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

RWRACCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRACCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs.

```
Wave 1:
   H14
                    help dressing
   H15 3
                    spouse helps walking
    H15_4
                    other helps walking
                    spouse helps bathing
   H16_3
   H16 4
                    other helps bathing
   H17_3
                    spouse helps eating
   H17 4
                    other helps eating
   H18<sup>-</sup>3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
   H19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 1 Helper:
                    kinship of helper
    H22
    H23
                    roster number of helper
    H24
                    days of help
    H25
                    hours of help
Wave 2:
                    someone help you to get dressed
    H14
    H15E
                    spouse helps
    H15F
                    additional person helps
   H16E
                    spouse helps
   H16F
                    additional person helps
   H17E
                    spouse helps
                    additional person helps
   H17F
                    spouse helps
   H18E
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
    H24
                    number of days (name) helped last month
                    number of hours during those days
    H25
Wave 3:
   H14 12
                    Someone help you to get dressed
    H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
   H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
    H22 1 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22_5_12
                    Relationship with helper for ADLs
   H22_6_12
                    Relationship with helper for ADLs
   H22_7_12
                    Relationship with helper for ADLs
    H22_8_12
                    Relationship with helper for ADLs
   H23_1_12
H23_2_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23 7 12
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24_3_12
                    Number of days (name) helped last month
    H24_4_12
                    Number of days (name) helped last month
    H24 5 12
                    Number of days (name) helped last month
```

```
H24 6 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H24 7 12
   H24 8 12
                    Number of days (name) helped last month
   H25 1 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
   H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25_7_12
                    Number of hours during those days (NAME) helped
   H25_8_12
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22 2 15
                    Respondent's relationship with person helping with ADLs
   H22 3 15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22_7_15
                    Respondent's relationship with person helping with ADLs
   H22_8_15
                    Respondent's relationship with person helping with ADLs
   H23_1_15
H23_2_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
   H23 6 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 7 15
   H23 8 15
                    Registration number of person helping with ADLs
   H24 1 15
                    Number of days the person helped during last month
   H24 2 15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 3 15
   H24_4_15
                    Number of days the person helped during last month
   H24_5_15
                    Number of days the person helped during last month
   H24_6_15
                    Number of days the person helped during last month
   H24_7_15
H24_8_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H25_1_15
H25_2_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 3 15
                    Number of hours during those days that the person helpe
   H25 4 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 5 15
   H25 6 15
                    Number of hours during those days that the person helpe
   H25 7 15
                    Number of hours during those days that the person helpe
   H25 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22 \overline{1} 18
                    R's relationship with person helping with ADLs
   H22 2 18
                    R's relationship with person helping with ADLs
   H22 3 18
                    R's relationship with person helping with ADLs
   H23 1 18
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 2 18
    H23 3 18
                    Registration number of person helping with ADLs
    H24 1 18
                    Number of days the person helped during last month
```

H24 2 18	Number	of	days	the pers	son he	lped	during	, las	st montl	n
H24_3_18	Number	of	days	the pers	son hei	lped	during	, las	st montl	h
H25_1_18	Number	of	hours	during	those	days	that	the	person	helpe
H25_2_18	Number	of	hours	during	those	days	that	the	person	helpe
H25_3_18	Number	of	hours	during	those	days	that	the	person	helpe

Activities of Daily Living: Receives Informal Care from Relatives

Wave	Variable	Label	Туре
1	R1RARCARE	rlrarcare: w1 R receives informal care from relatives for AD	Categ
2	R2RARCARE	r2rarcare: w2 R receives informal care from relatives for AD	Categ
	R3RARCARE	r3rarcare: w3 R receives informal care from relatives for AD	Categ
	R4RARCARE	r4rarcare: w4 R receives informal care from relatives for AD	Categ
5	R5RARCARE	r5rarcare: w5 R receives informal care from relatives for AD	Categ
J	NONANCARE	islateare. Ws k receives initial care from relactives for Ab	categ
1	S1RARCARE	s1rarcare: w1 S receives informal care from relatives for AD	Categ
2	S2RARCARE	s2rarcare: w2 S receives informal care from relatives for AD	Categ
3	S3RARCARE	s3rarcare: w3 S receives informal care from relatives for AD	Categ
4	S4RARCARE	s4rarcare: w4 S receives informal care from relatives for AD	Categ
5	S5RARCARE	s5rarcare: w5 S receives informal care from relatives for AD	_
5	SSRARCARE	sprarcare: wb 5 receives informal care from relatives for AD	Categ
1	R1RARCAREN	r1rarcaren: w1 # relatives who help R with ADLs	Cont
2	R2RARCAREN	r2rarcaren: w2 # relatives who help R with ADLs	Cont
	R3RARCAREN	r3rarcaren: w3 # relatives who help R with ADLs	Cont
	R4RARCAREN	r4rarcaren: w4 # relatives who help R with ADLs	Cont
5		-	
5	R5RARCAREN	r5rarcaren: w5 # relatives who help R with ADLs	Cont
1	S1RARCAREN	slrarcaren: w1 # relatives who help S with ADLs	Cont
2	S2RARCAREN	s2rarcaren: w2 # relatives who help S with ADLs	Cont
3	S3RARCAREN	s3rarcaren: w3 # relatives who help S with ADLs	Cont
4	S4RARCAREN	s4rarcaren: w4 # relatives who help S with ADLs	Cont
5	S5RARCAREN	s5rarcaren: w5 # relatives who help S with ADLS	Cont
5	DUNANCANDIN	Solutioner. Wo # letactives who help b with ADES	COIIC
1	R1RARCAREDPM	rlrarcaredpm: w1 days/month relatives help R with ADLs	Cont
2	R2RARCAREDPM	r2rarcaredpm: w2 days/month relatives help R with ADLs	Cont
_	R3RARCAREDPM	r3rarcaredpm: w3 days/month relatives help R with ADLs	Cont
4	R4RARCAREDPM	r4rarcaredpm: w4 days/month relatives help R with ADLs	Cont
5	R5RARCAREDPM	r5rarcaredpm: w5 days/month relatives help R with ADLs	Cont
5	TOTALICI INDITI	Total carcapii. Wo dayo, month relatives not pik with hold	COIIC
1	S1RARCAREDPM	slrarcaredpm: w1 days/month relatives help S with ADLs	Cont
2	S2RARCAREDPM	s2rarcaredpm: w2 days/month relatives help S with ADLs	Cont
3	S3RARCAREDPM	s3rarcaredpm: w3 days/month relatives help S with ADLs	Cont
4	S4RARCAREDPM	s4rarcaredpm: w4 days/month relatives help S with ADLs	Cont
5	S5RARCAREDPM	s5rarcaredpm: w5 days/month relatives help S with ADLs	Cont
1	R1RARCAREDPMM	<pre>rlrarcaredpmm: w1 R # relatives missing days of help for ADL</pre>	Cont
2	R2RARCAREDPMM	r2rarcaredpmm: w2 R # relatives missing days of help for ADL	Cont
3	R3RARCAREDPMM	r3rarcaredpmm: w3 R # relatives missing days of help for ADL	Cont
4	R4RARCAREDPMM	r4rarcaredpmm: w4 R # relatives missing days of help for ADL	Cont
5	R5RARCAREDPMM	r5rarcaredpmm: w5 R # relatives missing days of help for ADL	Cont
1	S1RARCAREDPMM	s1rarcaredpmm: w1 S $\#$ relatives missing days of help for ADL	Cont
2	S2RARCAREDPMM	s2rarcaredpmm: w2 S # relatives missing days of help for ADL	Cont
3	S3RARCAREDPMM	s3rarcaredpmm: w3 S # relatives missing days of help for ADL	Cont
4	S4RARCAREDPMM	s4rarcaredpmm: w4 S # relatives missing days of help for ADL	Cont
5	S5RARCAREDPMM	s5rarcaredpmm: w5 S # relatives missing days of help for ADL	Cont
	R1RARCAREHR	rlrarcarehr: wl hours/day relatives help R with ADLs	Cont
	R2RARCAREHR	r2rarcarehr: w2 hours/day relatives help R with ADLs	Cont
	R3RARCAREHR	r3rarcarehr: w3 hours/day relatives help R with ADLs	Cont
	R4RARCAREHR	r4rarcarehr: w4 hours/day relatives help R with ADLs	Cont
5	R5RARCAREHR	r5rarcarehr: w5 hours/day relatives help R with ADLs	Cont
-1	G1D1DG1D=***	-1	0 1
1	S1RARCAREHR	slrarcarehr: w1 hours/day relatives help S with ADLs	Cont
2	S2RARCAREHR	s2rarcarehr: w2 hours/day relatives help S with ADLs	Cont
3	S3RARCAREHR	s3rarcarehr: w3 hours/day relatives help S with ADLs	Cont
4	S4RARCAREHR	s4rarcarehr: w4 hours/day relatives help S with ADLs	Cont
5	S5RARCAREHR	s5rarcarehr: w5 hours/day relatives help S with ADLs	Cont

1	R1RARCAREHRM	rlrarcarehrm:	w1	R	#	relatives	missing	hours	of	help	for	ADL	Cont
2	R2RARCAREHRM	r2rarcarehrm:	w2	R	#	relatives	missing	hours	of	help	for	ADL	Cont
3	R3RARCAREHRM	r3rarcarehrm:	wЗ	R	#	relatives	missing	hours	of	help	for	ADL	Cont
4	R4RARCAREHRM	r4rarcarehrm:	w4	R	#	relatives	missing	hours	of	help	for	ADL	Cont
5	R5RARCAREHRM	r5rarcarehrm:	w5	R	#	relatives	missing	hours	of	help	for	ADL	Cont
1	S1RARCAREHRM	s1rarcarehrm:	w1	S	#	relatives	missing	hours	of	help	for	ADL	Cont
	S1RARCAREHRM S2RARCAREHRM	<pre>s1rarcarehrm: s2rarcarehrm:</pre>											Cont Cont
2			w2	S	#	relatives	missing	hours	of	help	for	ADL	
2	S2RARCAREHRM	s2rarcarehrm:	w2 w3	S S	#	relatives relatives	missing missing	hours hours	of of	help help	for for	ADL ADL	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RARCARE	780	0.05	0.22	0.00	1.00
R2RARCARE	793	0.05	0.22	0.00	1.00
R3RARCARE	1172	0.05	0.23	0.00	1.00
R4RARCARE	1297	0.05	0.21	0.00	1.00
R5RARCARE	1380	0.05	0.21	0.00	1.00
NONANCANE	1300	0.03	0.22	0.00	1.00
S1RARCARE	456	0.02	0.15	0.00	1.00
S2RARCARE	461	0.02	0.12	0.00	1.00
S3RARCARE	575	0.02	0.13	0.00	1.00
S4RARCARE	638	0.01	0.11	0.00	1.00
S5RARCARE	572	0.01	0.08	0.00	1.00
R1RARCAREN	780	0.06	0.30	0.00	3.00
R2RARCAREN	793	0.08	0.42	0.00	8.00
R3RARCAREN	1172	0.07	0.34	0.00	4.00
R4RARCAREN	1297	0.06	0.36	0.00	8.00
R5RARCAREN	1380	0.07	0.35	0.00	3.00
S1RARCAREN	456	0.02	0.15	0.00	1.00
S2RARCAREN	461	0.02	0.12	0.00	1.00
S3RARCAREN	575	0.02	0.13	0.00	1.00
S4RARCAREN	638	0.01	0.13	0.00	2.00
S5RARCAREN	572	0.01	0.19	0.00	3.00
R1RARCAREDPM	780	1.44	7.15	0.00	90.00
R2RARCAREDPM	793	1.96	12.28	0.00	240.00
R3RARCAREDPM	1171	1.53	7.45	0.00	90.00
R4RARCAREDPM	1295	1.49	9.93	0.00	240.00
R5RARCAREDPM	1377	1.54	8.92	0.00	90.00
01 D	45.6	0 57	4 00	0.00	20.00
S1RARCAREDPM	456	0.57	4.00	0.00	30.00
S2RARCAREDPM	461	0.33	2.91	0.00	30.00
S3RARCAREDPM	575	0.48	3.66	0.00	30.00
S4RARCAREDPM	638	0.34	3.47	0.00	60.00
S5RARCAREDPM	572	0.23	3.97	0.00	90.00
R1RARCAREDPMM	780	0.00	0.00	0.00	0.00
R2RARCAREDPMM	793	0.00	0.00	0.00	0.00
R3RARCAREDPMM	1172	0.00	0.06	0.00	2.00
R4RARCAREDPMM	1297	0.00	0.04	0.00	1.00
R5RARCAREDPMM	1380	0.00	0.07	0.00	2.00
S1RARCAREDPMM	456	0.00	0.00	0.00	0.00
S2RARCAREDPMM	461	0.00	0.00	0.00	0.00
S3RARCAREDPMM	575	0.00	0.00	0.00	0.00
S4RARCAREDPMM	638	0.00	0.00	0.00	0.00
S5RARCAREDPMM	572	0.00	0.00	0.00	0.00

R1	RARCAREHR	780	0.39	2.30	0.00	28.00
R2	RARCAREHR	793	0.49	2.62	0.00	36.00
R3	RARCAREHR	1171	0.66	4.06	0.00	50.00
R4	RARCAREHR	1296	0.32	2.12	0.00	32.00
R5	RARCAREHR	1377	0.55	4.69	0.00	72.00
S1	RARCAREHR	456	0.21	1.86	0.00	24.00
S2	RARCAREHR	461	0.16	1.34	0.00	16.00
S3	RARCAREHR	575	0.12	1.29	0.00	24.00
S4	RARCAREHR	638	0.04	0.46	0.00	8.00
S5	RARCAREHR	572	0.18	3.26	0.00	72.00
R1	RARCAREHRM	780	0.00	0.00	0.00	0.00
R2	RARCAREHRM	793	0.00	0.00	0.00	0.00
R3	RARCAREHRM	1172	0.00	0.03	0.00	1.00
R4	RARCAREHRM	1297	0.00	0.03	0.00	1.00
R5	RARCAREHRM	1380	0.00	0.07	0.00	2.00
S1	RARCAREHRM	456	0.00	0.00	0.00	0.00
S2	RARCAREHRM	461	0.00	0.00	0.00	0.00
S3	RARCAREHRM	575	0.00	0.00	0.00	0.00
S4	RARCAREHRM	638	0.00	0.00	0.00	0.00
S 5	RARCAREHRM	572	0.00	0.00	0.00	0.00

Categorical Variable Codes

Value	R1RARCARE	R2RARCARE	R3RARCARE	R4RARCARE	R5RARCARE
.d:DK	1		1	6	2
.h:no help received	873	737	1785	1715	1654
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	740	751	1109	1236	1313
1.Yes	40	42	63	61	67
Value	S1RARCARE	S2RARCARE	s3rarcare	S4RARCARE	S5RARCARE
.d:DK			1	5	
.h:no help received	524	408	1107	1012	724
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	446	454	565	630	568
1.Yes	10	7	10	8	4

How Constructed

The following variables indicate whether any of the respondent's relatives help the respondent with any ADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL or IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRARCARE, RWRARCAREN, RWRARCAREDPM, RWRARCAREDPMM, RWRARCAREHR, and RWRARCAREHRM include help from the respondent's parent or other relative.

RWRARCARE indicates whether any of the respondent's relatives help the respondent with ADL needs. RWRARCAREN indicates the number of the respondent's relatives who help the respondent with ADL needs. RWRARCARE is coded as 0 if none of the respondent's relatives help the respondent with ADLs; and is coded as 1 if at least one of the respondent's relatives help the respondent with ADLs.

RWRARCAREDPM indicates the number of total days per month the respondent's relatives help the respondent with ADL needs. If the respondent reports receiving help every day from that relative, then a value of 30 is assumed. RwRARCAREDPM is the sum of days per month for all relative helpers, and so values can be over 30 days. RwRARCAREDPM is calculated as long as there is one non-missing value. RwRARCAREDPM is assigned a value of 0 if the respondent did not receive help from any relatives. RwRARCAREDPMM indicates the number of relatives who helped the respondent for whom no value of days was reported and was not accounted for in RwRARCAREDPMM. RwRARCAREDPMM is assigned special missing value .m if the respondent was not helped by any relatives.

RWRARCAREHR indicates the number of hours per day the respondent's relatives help the respondent with ADL needs. Respondents are asked, on days their relatives help, how many hours per day that is. If the respondent reports less than an hour for that relative, then a 1 is assumed. RWRARCAREHR is the sum of hours per day for all relative helpers, and so values can be over 24 hours. RWRARCAREHR is calculated as long as there is one non-missing value. RWRARCAREHR is assigned a value of 0 if the respondent did not receive help from any relatives. RWRARCAREHRM indicates the number of relatives who helped the respondent for whom no value of hours was reported and was not accounted for in RWRARCAREHR. RWRARCAREHRM is assigned special missing value .m if the respondent was not helped by any relatives.

SWRARCAREN, SWRARCAREN, SWRARCAREDPM, and SWRARCAREHR indicate whether the respondent's current wave's spouse receives help from relatives, the number, and the frequency with which, and their values are taken from RWRARCARE, RWRARCAREN, RWRARCAREDPM, and RWRARCAREHR. SWRARCAREDPMM and SWRARCAREHRM indicate the number of relatives who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRARCAREDPMM and RWRARCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

RWRARCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRARCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs.

```
Wave 1:
   H14
                    help dressing
   H15 3
                    spouse helps walking
   H15 4
                    other helps walking
   H16 3
                    spouse helps bathing
   H16 4
                    other helps bathing
   H17 3
                    spouse helps eating
   H17 4
                    other helps eating
   H18 3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
   H19_3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 1 Helper:
   H22
                    kinship of helper
   H23
                    roster number of helper
                    days of help
   H24
   H25
                    hours of help
Wave 2:
   H14
                    someone help you to get dressed
   H15E
                    spouse helps
   H15F
                    additional person helps
   H16E
                    spouse helps
   H16F
                    additional person helps
                    spouse helps
   H17E
   H17F
                    additional person helps
                    spouse helps
   H18E
                    additional person helps
   H18F
   H19E
                    spouse helps
   H19F
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
   H23
                    registration number
   H24
                    number of days (name) helped last month
   H25
                    number of hours during those days
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
                    Someone help you to bathe or shower
   H16D 12
   H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
                    Does someone help you use toilet, get on off
   H19D 12
   H22 1 12
                    Relationship with helper for ADLs
   H22_2_12
H22_3_12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23_5_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23_6_12
   H23_7_12
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24 5 12
                    Number of days (name) helped last month
    H24 6 12
                    Number of days (name) helped last month
    H24 7 12
                    Number of days (name) helped last month
```

```
H24 8 12
                    Number of days (name) helped last month
   H25 1 12
                    Number of hours during those days (NAME) helped
   H25 2 12
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25 7 12
   H25 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14_15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
                    Does someone help respondent bathing or showering
   H16D 15
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 \overline{1} 15
                    Respondent's relationship with person helping with ADLs
   H22 2 15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 3 15
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22 7 15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23_1_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23_2_15
   H23_3_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 4 15
   H23 5 15
                    Registration number of person helping with ADLs
   H23 6 15
                    Registration number of person helping with ADLs
   H23 7 15
                    Registration number of person helping with ADLs
   H23 8 15
                    Registration number of person helping with ADLs
   H24 1 15
                    Number of days the person helped during last month
   H24 2 15
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
   H24 5 15
                    Number of days the person helped during last month
   H24_6_15
                    Number of days the person helped during last month
   H24_7_15
                    Number of days the person helped during last month
   H24_8_15
                    Number of days the person helped during last month
   H25_1_15
H25_2_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 3 15
                    Number of hours during those days that the person helpe
   H25 4 15
                    Number of hours during those days that the person helpe
   H25 5 15
                    Number of hours during those days that the person helpe
   H25 6 15
                    Number of hours during those days that the person helpe
   H25 7 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 8 15
Wave 5:
   H14 18
                    Does someone help R to get dressed
                    Does someone help R walking across a room
   H15D 18
                    Does someone help R bathing or showering
   H16D 18
   H17D_18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
                    Does someone help R using the toilet
   H19D 18
   H22_1_18
H22_2_18
H22_3_18
                    R's relationship with person helping with ADLs
                    R's relationship with person helping with ADLs
                    R's relationship with person helping with ADLs
   H23 1 18
                    Registration number of person helping with ADLs
   H23 2 18
                    Registration number of person helping with ADLs
   H23 3 18
                    Registration number of person helping with ADLs
   H24 1 18
                    Number of days the person helped during last month
    H24 2 18
                    Number of days the person helped during last month
    H24 3 18
                    Number of days the person helped during last month
```

H25_1_18	Number	of	hours	during	those	days	that	the	person	helpe
H25_2_18	Number	of	hours	during	those	days	that	the	person	helpe
H25_3_18	Number	of	hours	during	those	days	that	the	person	helpe

Activities of Daily Living: Receives Informal Care from Other Individuals

Wave	Variable	Label	Туре
1	R1RAFCARE	rlrafcare: w1 R receives informal care from non-relatives fo	Categ
2	R2RAFCARE	r2rafcare: w2 R receives informal care from non-relatives fo	Categ
	R3RAFCARE	r3rafcare: w3 R receives informal care from non-relatives fo	Categ
	R4RAFCARE	r4rafcare: w4 R receives informal care from non-relatives fo	Categ
5	R5RAFCARE	r5rafcare: w5 R receives informal care from non-relatives fo	Categ
5	NOTULE CLINE	iolalcare. Wo it received informat care from non relatives to	caccy
1	S1RAFCARE	slrafcare: w1 S receives informal care from non-relatives fo	Categ
2	S2RAFCARE	s2rafcare: w2 S receives informal care from non-relatives fo	Categ
3	S3RAFCARE	s3rafcare: w3 S receives informal care from non-relatives fo	Categ
4	S4RAFCARE	s4rafcare: w4 S receives informal care from non-relatives fo	Categ
5	S5RAFCARE	s5rafcare: w5 S receives informal care from non-relatives fo	Categ
J	SURAFCARE	Soldicate. Wo b leceives initializate care from non-relactives to	categ
1	R1RAFCAREN	rlrafcaren: wl # non-relatives who help R with ADLs	Cont
2	R2RAFCAREN	r2rafcaren: w2 # non-relatives who help R with ADLs	Cont
3	R3RAFCAREN	r3rafcaren: w3 # non-relatives who help R with ADLs	Cont
	R4RAFCAREN	r4rafcaren: w4 # non-relatives who help R with ADLs	Cont
5	R5RAFCAREN	r5rafcaren: w5 # non-relatives who help R with ADLs	Cont
1	01 D3 E03 DEN	-1	Q t-
1	S1RAFCAREN	slrafcaren: wl # non-relatives who help S with ADLs	Cont
2	S2RAFCAREN	s2rafcaren: w2 # non-relatives who help S with ADLs	Cont
3	S3RAFCAREN	s3rafcaren: w3 # non-relatives who help S with ADLs	Cont
4	S4RAFCAREN	s4rafcaren: w4 # non-relatives who help S with ADLs	Cont
5	S5RAFCAREN	s5rafcaren: w5 # non-relatives who help S with ADLs	Cont
_			
1	R1RAFCAREDPM	rlrafcaredpm: wl days/month non-relatives help R with ADLs	Cont
2	R2RAFCAREDPM	r2rafcaredpm: w2 days/month non-relatives help R with ADLs	Cont
	R3RAFCAREDPM	r3rafcaredpm: w3 days/month non-relatives help R with ADLs	Cont
4	R4RAFCAREDPM	r4rafcaredpm: w4 days/month non-relatives help R with ADLs	Cont
5	R5RAFCAREDPM	r5rafcaredpm: w5 days/month non-relatives help R with ADLs	Cont
1	S1RAFCAREDPM	slrafcaredpm: w1 days/month non-relatives help S with ADLs	Cont
2	S2RAFCAREDPM	s2rafcaredpm: w2 days/month non-relatives help S with ADLs	Cont
3	S3RAFCAREDPM	s3rafcaredpm: w3 days/month non-relatives help S with ADLs	Cont
4	S4RAFCAREDPM	s4rafcaredpm: w4 days/month non-relatives help S with ADLs	Cont
5	S5RAFCAREDPM	s5rafcaredpm: w5 days/month non-relatives help S with ADLs	Cont
1	R1RAFCAREDPMM	rlrafcaredpmm: w1 R # non-relatives missing days of help for	Cont
2	R2RAFCAREDPMM	r2rafcaredpmm: w2 R # non-relatives missing days of help for	Cont
3	R3RAFCAREDPMM	r3rafcaredpmm: w3 R # non-relatives missing days of help for	Cont
4	R4RAFCAREDPMM	r4rafcaredpmm: w4 R # non-relatives missing days of help for	Cont
5	R5RAFCAREDPMM	r5rafcaredpmm: w5 R # non-relatives missing days of help for	Cont
1	S1RAFCAREDPMM	<pre>s1rafcaredpmm: w1 S # non-relatives missing days of help for</pre>	Cont
2	S2RAFCAREDPMM	s2rafcaredpmm: w2 S # non-relatives missing days of help for	Cont
3	S3RAFCAREDPMM	s3rafcaredpmm: w3 S # non-relatives missing days of help for	Cont
4	S4RAFCAREDPMM	s4rafcaredpmm: w4 S # non-relatives missing days of help for	Cont
5	S5RAFCAREDPMM	s5rafcaredpmm: w5 S # non-relatives missing days of help for	Cont
1	R1RAFCAREHR	rlrafcarehr: w1 hours/day non-relatives help R with ADLs	Cont
2	R2RAFCAREHR	r2rafcarehr: w2 hours/day non-relatives help R with ADLs	Cont
3	R3RAFCAREHR	r3rafcarehr: w3 hours/day non-relatives help R with ADLs	Cont
4	R4RAFCAREHR	r4rafcarehr: w4 hours/day non-relatives help R with ADLs	Cont
5	R5RAFCAREHR	r5rafcarehr: w5 hours/day non-relatives help R with ADLs	Cont
1	S1RAFCAREHR	slrafcarehr: w1 hours/day non-relatives help S with ADLs	Cont
2	S2RAFCAREHR	s2rafcarehr: w2 hours/day non-relatives help S with ADLs	Cont
3	S3RAFCAREHR	s3rafcarehr: w3 hours/day non-relatives help S with ADLs	Cont
4	S4RAFCAREHR	s4rafcarehr: w4 hours/day non-relatives help S with ADLs	Cont
5	S5RAFCAREHR	s5rafcarehr: w5 hours/day non-relatives help S with ADLs	Cont

1	R1RAFCAREHRM	r1rafcarehrm:	w1	R	#	non-relatives	missing	hours	of	help	for	Cont
2	R2RAFCAREHRM	r2rafcarehrm:	w2	R	#	non-relatives	missing	hours	of	help	for	Cont
3	R3RAFCAREHRM	r3rafcarehrm:	wЗ	R	#	non-relatives	missing	hours	of	help	for	Cont
4	R4RAFCAREHRM	r4rafcarehrm:	w4	R	#	non-relatives	missing	hours	of	help	for	Cont
5	R5RAFCAREHRM	r5rafcarehrm:	w5	R	#	non-relatives	missing	hours	of	help	for	Cont
1	S1RAFCAREHRM	s1rafcarehrm:	w1	S	#	non-relatives	missing	hours	of	help	for	Cont
	S1RAFCAREHRM S2RAFCAREHRM					non-relatives non-relatives				_		Cont Cont
		s2rafcarehrm:	w2	S	#		missing	hours	of	help	for	
2	S2RAFCAREHRM	<pre>s2rafcarehrm: s3rafcarehrm:</pre>	w2 w3	S S	#	non-relatives	missing missing	hours hours	of of	help help	for for	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RAFCARE	780	0.03	0.17	0.00	1.00
R2RAFCARE	793	0.03	0.16	0.00	1.00
R3RAFCARE	1172	0.03	0.17	0.00	1.00
R4RAFCARE	1297	0.03	0.16	0.00	1.00
R5RAFCARE	1380	0.06	0.24	0.00	1.00
ROTULE CINE	1300	0.00	0.21	0.00	1.00
S1RAFCARE	456	0.01	0.10	0.00	1.00
S2RAFCARE	461	0.01	0.10	0.00	1.00
S3RAFCARE	575	0.01	0.10	0.00	1.00
S4RAFCARE	638	0.01	0.10	0.00	1.00
S5RAFCARE	572	0.05	0.23	0.00	1.00
R1RAFCAREN	780	0.04	0.28	0.00	6.00
R2RAFCAREN	793	0.03	0.18	0.00	2.00
R3RAFCAREN	1172	0.03	0.17	0.00	1.00
R4RAFCAREN	1297	0.03	0.18	0.00	2.00
R5RAFCAREN	1380	0.07	0.28	0.00	2.00
S1RAFCAREN	456	0.01	0.13	0.00	2.00
S2RAFCAREN	461	0.01	0.10	0.00	1.00
S3RAFCAREN	575	0.01	0.10	0.00	1.00
S4RAFCAREN	638	0.01	0.10	0.00	1.00
S5RAFCAREN S5RAFCAREN	572	0.01	0.23	0.00	1.00
SURAFCAREN	372	0.03	0.23	0.00	1.00
R1RAFCAREDPM	780	0.63	4.56	0.00	60.00
R2RAFCAREDPM	793	0.64	4.37	0.00	50.00
R3RAFCAREDPM	1171	0.67	4.27	0.00	30.00
R4RAFCAREDPM	1297	0.54	3.73	0.00	30.00
R5RAFCAREDPM	1368	1.33	6.43	0.00	60.00
S1RAFCAREDPM	456	0.12	2.16	0.00	46.00
S2RAFCAREDPM	461	0.33	3.11	0.00	30.00
S3RAFCAREDPM	575	0.23	2.53	0.00	30.00
S4RAFCAREDPM	638	0.13	1.75	0.00	30.00
S5RAFCAREDPM	567	1.09	5.43	0.00	30.00
R1RAFCAREDPMM	780	0.00	0.00	0.00	0.00
R2RAFCAREDPMM	793	0.00	0.00	0.00	0.00
R3RAFCAREDPMM	1172	0.00	0.03	0.00	1.00
R4RAFCAREDPMM	1297	0.00	0.00	0.00	0.00
R5RAFCAREDPMM	1380	0.01	0.13	0.00	2.00
S1RAFCAREDPMM	456	0.00	0.00	0.00	0.00
S2RAFCAREDPMM	461	0.00	0.00	0.00	0.00
S3RAFCAREDPMM	575	0.00	0.00	0.00	0.00
S4RAFCAREDPMM	638	0.00	0.00	0.00	0.00
S5RAFCAREDPMM	572	0.01	0.09	0.00	1.00
SOME CAMEDI MM	J 1 Z	0.01	0.05	0.00	1.00

R1RAFCAREHR 780 0.17 1.51 0.00 24.00 R2RAFCAREHR 793 0.14 1.12 0.00 14.00 R3RAFCAREHR 1172 0.33 2.39 0.00 24.00 R4RAFCAREHR 1297 0.18 1.42 0.00 24.00 R5RAFCAREHR 1369 0.39 2.42 0.00 36.00 S1RAFCAREHR 456 0.03 0.48 0.00 10.00 S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
R3RAFCAREHR 1172 0.33 2.39 0.00 24.00 R4RAFCAREHR 1297 0.18 1.42 0.00 24.00 R5RAFCAREHR 1369 0.39 2.42 0.00 36.00 S1RAFCAREHR 456 0.03 0.48 0.00 10.00 S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
R4RAFCAREHR 1297 0.18 1.42 0.00 24.00 R5RAFCAREHR 1369 0.39 2.42 0.00 36.00 S1RAFCAREHR 456 0.03 0.48 0.00 10.00 S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
R5RAFCAREHR 1369 0.39 2.42 0.00 36.00 S1RAFCAREHR 456 0.03 0.48 0.00 10.00 S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
R5RAFCAREHR 1369 0.39 2.42 0.00 36.00 S1RAFCAREHR 456 0.03 0.48 0.00 10.00 S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
S1RAFCAREHR 456 0.03 0.48 0.00 10.00 S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
S2RAFCAREHR 461 0.11 1.07 0.00 12.00 S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
S3RAFCAREHR 575 0.21 2.23 0.00 24.00 S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
S4RAFCAREHR 638 0.05 0.65 0.00 12.00 S5RAFCAREHR 567 0.35 2.00 0.00 20.00
S5RAFCAREHR 567 0.35 2.00 0.00 20.00
R1RAFCAREHRM 780 0.00 0.00 0.00 0.00 0.00
R2RAFCAREHRM 793 0.00 0.00 0.00 0.00
R3RAFCAREHRM 1172 0.00 0.00 0.00 0.00
R4RAFCAREHRM 1297 0.00 0.00 0.00 0.00 0.00

R5RAFCAREHRM 1380 0.01 0.12 0.00 2.00
0.00
S1RAFCAREHRM 456 0.00 0.00 0.00 0.00
S2RAFCAREHRM 461 0.00 0.00 0.00 0.00
S3RAFCAREHRM 575 0.00 0.00 0.00 0.00
S4RAFCAREHRM 638 0.00 0.00 0.00 0.00
S5RAFCAREHRM 572 0.01 0.09 0.00 1.00

Categorical Variable Codes

Value	R1RAFCARE	R2RAFCARE	R3RAFCARE	R4RAFCARE	R5RAFCARE
.d:DK	1		1	6	2
.h:no help received	873	737	1785	1715	1654
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	758	773	1135	1261	1296
1.Yes	22	20	37	36	84
Value	C1DAECADE	S2RAFCARE	S3RAFCARE	S4RAFCARE	S5RAFCARE
varue	S1RAFCARE	SZKAFCAKE	53KAFCAKE	54KAFCAKE	SSKAFCARE
.d:DK			1	5	
.h:no help received	524	408	1107	1012	724
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	451	456	569	632	541
1.Yes	5	5	6	6	31

How Constructed

The following variables indicate whether any non-relative helps the respondent with any ADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRAFCARE, RWRAFCAREN, RWRAFCAREDPM, RWRAFCAREDPMM, RWRAFCAREHR, and RWRAFCAREHRM include help from another person (not their spouse, child, child-in-law, grandchild, parent, other relative, or paid person).

RWRAFCARE indicates whether any of the respondent's non-relatives help the respondent with ADL needs. RWRAFCAREN indicates the number of the respondent's non-relatives who help the respondent with ADL needs. RWRARCARE is coded as 0 if none of the respondent's non-relatives help the respondent with ADLs; and is coded as 1 if at least one of the respondent's non-relatives help the respondent with ADLs.

RWRAFCAREDPM indicates the number of total days per month the respondent's non-relatives help the respondent with ADL needs. If the respondent reports receiving help every day from that non-relative, then a value of 30 is assumed. RWRAFCAREDPM is the sum of days per month for all non-relative helpers, and so values can be over 30 days. RWRAFCAREDPM is calculated as long as there is one non-missing value. RWRAFCAREDPM is assigned a value of 0 if the respondent did not receive help from any non-relatives. RWRAFCAREDPMM indicates the number of non-relatives who helped the respondent for whom no value of days was reported and was not accounted for in RWRAFCAREDPM. RWRAFCAREDPMM is assigned special missing value .m if the respondent was not helped by any non-relatives.

RWRAFCAREHR indicates the number of hours per day the respondent's non-relatives help the respondent with ADL needs. Respondents are asked, on days their non-relatives help, how many hours per day that is. If the respondent reports less than an hour for that non-relative, then a 1 is assumed. RWRAFCAREHR is the sum of hours per day for all non-relative helpers, and so values can be over 24 hours. RWRAFCAREHR is calculated as long as there is one non-missing value. RWRAFCAREHRE is assigned a value of 0 if the respondent did not receive help from any non-relatives. RWRAFCAREHRM indicates the number of non-relatives who helped the respondent for whom no value of hours was reported and was not accounted for in RWRAFCAREHR. RWRAFCAREHRM is assigned special missing value .m if the respondent was not helped by any non-relatives.

SWRAFCAREN, SWRAFCAREN, SWRAFCAREDPM, and SWRAFCAREHR indicate whether the respondent's current wave's spouse receives help from non-relatives, the number, and the frequency with which, and their values are taken from RWRAFCARE, RWRAFCAREN, RWRAFCAREDPM, and RWRAFCAREHR. SWRAFCAREDPMM and SWRAFCAREHRM indicate the number of non-relatives who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRAFCAREDPMM and RWRAFCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

RWRAFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRAFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs.

```
Wave 1:
   H14
                    help dressing
   H15 3
                    spouse helps walking
    H15_4
                    other helps walking
                    spouse helps bathing
   H16_3
   H16 4
                    other helps bathing
   H17_3
                    spouse helps eating
   H17 4
                    other helps eating
   H18<sup>-</sup>3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
   H19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 1 Helper:
                    kinship of helper
    H22
    H23
                    roster number of helper
    H24
                    days of help
    H25
                    hours of help
Wave 2:
                    someone help you to get dressed
    H14
    H15E
                    spouse helps
    H15F
                    additional person helps
   H16E
                    spouse helps
   H16F
                    additional person helps
   H17E
                    spouse helps
                    additional person helps
   H17F
                    spouse helps
   H18E
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
    H24
                    number of days (name) helped last month
                    number of hours during those days
    H25
Wave 3:
   H14 12
                    Someone help you to get dressed
    H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
   H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
    H22 1 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22_5_12
                    Relationship with helper for ADLs
   H22_6_12
                    Relationship with helper for ADLs
   H22_7_12
                    Relationship with helper for ADLs
    H22_8_12
                    Relationship with helper for ADLs
   H23_1_12
H23_2_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23 7 12
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24_3_12
                    Number of days (name) helped last month
    H24_4_12
                    Number of days (name) helped last month
    H24 5 12
                    Number of days (name) helped last month
```

```
H24 6 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H24 7 12
   H24 8 12
                    Number of days (name) helped last month
   H25 1 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
   H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25_7_12
                    Number of hours during those days (NAME) helped
   H25_8_12
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22 2 15
                    Respondent's relationship with person helping with ADLs
   H22 3 15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22_7_15
                    Respondent's relationship with person helping with ADLs
   H22_8_15
                    Respondent's relationship with person helping with ADLs
   H23_1_15
H23_2_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
   H23 6 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 7 15
   H23 8 15
                    Registration number of person helping with ADLs
   H24 1 15
                    Number of days the person helped during last month
   H24 2 15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 3 15
   H24_4_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24_5_15
   H24_6_15
                    Number of days the person helped during last month
   H24_7_15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25_1_15
H25_2_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 3 15
                    Number of hours during those days that the person helpe
   H25 4 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 5 15
   H25 6 15
                    Number of hours during those days that the person helpe
   H25 7 15
                    Number of hours during those days that the person helpe
   H25 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22 \overline{1} 18
                    R's relationship with person helping with ADLs
   H22 2 18
                    R's relationship with person helping with ADLs
   H22 3 18
                    R's relationship with person helping with ADLs
   H23 1 18
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 2 18
    H23 3 18
                    Registration number of person helping with ADLs
    H24 1 18
                    Number of days the person helped during last month
```

H24 2 18	Number of	days	the pers	on hel	Lped	during	las	st month	h
H24_3_18	Number of	days	the pers	on hel	Lped	during	las	st month	h
H25_1_18	Number of	hours	during	those	days	that	the	person	helpe
H25_2_18	Number of	hours	during	those	days	that	the	person	helpe
H25_3_18	Number of	hours	during	those	days	that	the	person	helpe

Activities of Daily Living: Whether Receives Any Formal Care

Wave	Variable	Label									Type
1	R1RAFAANY	r1rafaany:	w1	R	receives	any	formal	care	for	ADLs	Categ
2	R2RAFAANY	r2rafaany:	w2	R	receives	any	formal	care	for	ADLs	Categ
3	R3RAFAANY	r3rafaany:	wЗ	R	receives	any	formal	care	for	ADLs	Categ
4	R4RAFAANY	r4rafaany:	w4	R	receives	any	formal	care	for	ADLs	Categ
5	R5RAFAANY	r5rafaany:	w5	R	receives	any	formal	care	for	ADLs	Categ
1	S1RAFAANY	slrafaany:	w1	S	receives	any	formal	care	for	ADLs	Categ
2	S2RAFAANY	s2rafaany:	w2	S	receives	any	formal	care	for	ADLs	Categ
3	S3RAFAANY	s3rafaany:	wЗ	S	receives	any	formal	care	for	ADLs	Categ
4	S4RAFAANY	s4rafaany:	w4	S	receives	any	formal	care	for	ADLs	Categ
5	S5RAFAANY	s5rafaany:	w5	S	receives	any	formal	care	for	ADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RAFAANY	1653	0.02	0.14	0.00	1.00
R2RAFAANY	1530	0.02	0.14	0.00	1.00
R3RAFAANY	2957	0.01	0.11	0.00	1.00
R4RAFAANY	3012	0.02	0.14	0.00	1.00
R5RAFAANY	3034	0.02	0.13	0.00	1.00
S1RAFAANY	980	0.00	0.06	0.00	1.00
S2RAFAANY	869	0.00	0.07	0.00	1.00
S3RAFAANY	1682	0.00	0.06	0.00	1.00
S4RAFAANY	1650	0.01	0.08	0.00	1.00
S5RAFAANY	1296	0.01	0.11	0.00	1.00

Categorical Variable Codes

Value	R1RAFAANY	R2RAFAANY	R3RAFAANY	R4RAFAANY	R5RAFAANY
.d:DK	1		1	6	2
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	1622	1501	2921	2955	2983
1.Yes	31	29	36	57	51
Value	S1RAFAANY	S2RAFAANY	S3RAFAANY	S4RAFAANY	S5RAFAANY
.d:DK			1	5	
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	976	865	1675	1639	1281
1.Yes	4	4	7	11	15

How Constructed

RWRAFAANY indicates whether the respondent receives any formal care for difficulties with activities of daily living (ADL). The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The following relationship is considered to provide formal care: paid person.

Please note that for each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

RWRAFAANY is assigned a value of 0 if the respondent has difficulty with at least one ADL but receives no help with the activity from a formal caregiver, or does not receive any help at all. RwRAFAANY is assigned a value of 1 if the respondent has difficulty with at least one ADL and a formal caregiver helps with at least one of the activities. RwRAFAANY is assigned special missing value .x if the respondent has no difficulty with any ADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RwRAFAANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRAFAANY indicates whether the respondent's current wave's spouse receives any formal care for difficulties with ADLs, and its values are taken from RwRAFAANY. In addition to the special missing codes employed by RwRAFAANY, SwRAFAANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible in the Harmonized HRS and Harmonized MHAS. Please note that the Harmonized HRS includes categories for paid formal helpers and unpaid formal helpers, while the Harmonized MHAS only includes categories for paid formal helpers.

```
Wave 1:
    H14
                    help dressing
    H15 3
                    spouse helps walking
    H15 4
                    other helps walking
   H16<sup>3</sup>
                    spouse helps bathing
   H16 4
                   other helps bathing
   H17 3
                   spouse helps eating
   H17 4
                   other helps eating
   H18 3
                   spouse helps getting in an out of bed
   H18 4
                   other helps getting in an out of bed
   H19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 1 Helper:
   H22
                    kinship of helper
   H23
                    roster number of helper
Wave 2:
    H14
                    someone help you to get dressed
    H15E
                    spouse helps
    H15F
                    additional person helps
                    spouse helps
    H16E
    H16F
                    additional person helps
                    spouse helps
    H17E
    H17F
                    additional person helps
```

```
H18E
                    spouse helps
    H18F
                    additional person helps
                    spouse helps
    H19E
    H19F
                    additional person helps
Wave 2 Helper:
    H22
                    relationship
    H23
                    registration number
Wave 3:
                    Someone help you to get dressed
   H14 12
    H15D 12
                    Someone help you walk across room
    H16D 12
                    Someone help you to bathe or shower
    H17D 12
                    Does someone help you eat your food
                    Does someone help you get into or out of bed
    H18D 12
    H19D 12
                    Does someone help you use toilet, get on off
   H22 1 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
                    Registration number of helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
   H23_3_12
                    Registration number of helper for ADLs
   H23_4_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
    H23_5_12
    H23 6 12
                    Registration number of helper for ADLs
       7_12
    H23
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
Wave 4:
    H14 15
                    Does someone help respondent to get dressed
    H15D 15
                    Does someone help respondent walking across a room
                    Does someone help respondent bathing or showering
    H16D 15
    H17D 15
                    Does someone help respondent eating
    H18D 15
                    Does someone help respondent getting in or out of bed
                    Does someone help respondent using the toilet
    H19D 15
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22_2_15
                    Respondent's relationship with person helping with ADLs
   H22_3_15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22 7 15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
   H23 2 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 3 15
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
    H23 6 15
                    Registration number of person helping with ADLs
    H23 7 15
                    Registration number of person helping with ADLs
   H23_8_15
                    Registration number of person helping with ADLs
Wave 5:
    H14 18
                    Does someone help R to get dressed
    H15D 18
                    Does someone help R walking across a room
    H16D 18
                    Does someone help R bathing or showering
    H17D 18
                    Does someone help R eating
    H18D 18
                    Does someone help R getting in or out of bed
    H19D 18
                    Does someone help R using the toilet
                    R's relationship with person helping with ADLs
    H22 1 18
    H22 2 18
                    R's relationship with person helping with ADLs
    H22 3 18
                    R's relationship with person helping with ADLs
    H23 1 18
                    Registration number of person helping with ADLs
```

Activities of Daily Living: Receives Formal Care from Paid Professional

Wave	Variable	Label	Туре
1	R1RAPFCARE	rlrapfcare: w1 R receives formal care from paid professional	Categ
2	R2RAPFCARE	r2rapfcare: w2 R receives formal care from paid professional	Categ
3	R3RAPFCARE	r3rapfcare: w3 R receives formal care from paid professional	Categ
4	R4RAPFCARE	r4rapfcare: w4 R receives formal care from paid professional	Categ
5	R5RAPFCARE	r5rapfcare: w5 R receives formal care from paid professional	Categ
J	TOTALL CLICE	Totapicate. Wo it received format oute from para professional	ouccg
1	S1RAPFCARE	slrapfcare: w1 S receives formal care from paid professional	Categ
2	S2RAPFCARE	s2rapfcare: w2 S receives formal care from paid professional	Categ
3	S3RAPFCARE	s3rapfcare: w3 S receives formal care from paid professional	Categ
4	S4RAPFCARE	s4rapfcare: w4 S receives formal care from paid professional	Categ
5	S5RAPFCARE	s5rapfcare: w5 S receives formal care from paid professional	Categ
Ü	0014112 0111.2	coraproduct. No o rocervos rormar caro rrom para proroceronar	oaccg
1	R1RAPFCAREN	rlrapfcaren: w1 # paid professionals who help R with ADLs	Cont
2	R2RAPFCAREN	r2rapfcaren: w2 # paid professionals who help R with ADLs	Cont
3	R3RAPFCAREN	r3rapfcaren: w3 # paid professionals who help R with ADLs	Cont
4	R4RAPFCAREN	r4rapfcaren: w4 # paid professionals who help R with ADLs	Cont
5	R5RAPFCAREN	r5rapfcaren: w5 # paid professionals who help R with ADLs	Cont
1	S1RAPFCAREN	slrapfcaren: w1 # paid professionals who help S with ADLs	Cont
2	S2RAPFCAREN	s2rapfcaren: w2 # paid professionals who help S with ADLs	Cont
3	S3RAPFCAREN	s3rapfcaren: w3 # paid professionals who help S with ADLs	Cont
4	S4RAPFCAREN	s4rapfcaren: w4 # paid professionals who help S with ADLs	Cont
5	S5RAPFCAREN	s5rapfcaren: w5 # paid professionals who help S with ADLs	Cont
1	R1RAPFCAREDPM	rlrapfcaredpm: w1 days/month paid professionals help R with	Cont
2	R2RAPFCAREDPM	r2rapfcaredpm: w2 days/month paid professionals help R with	Cont
3	R3RAPFCAREDPM	r3rapfcaredpm: w3 days/month paid professionals help R with	Cont
4	R4RAPFCAREDPM	r4rapfcaredpm: w4 days/month paid professionals help R with	Cont
5	R5RAPFCAREDPM	r5rapfcaredpm: w5 days/month paid professionals help R with	Cont
1	C1DADECADEDOM	almost formation and almost and a most formation also had a contract to	C = == ±
1	S1RAPFCAREDPM	slrapfcaredpm: w1 days/month paid professionals help S with	Cont
2	S2RAPFCAREDPM	s2rapfcaredpm: w2 days/month paid professionals help S with	Cont
3	S3RAPFCAREDPM	s3rapfcaredpm: w3 days/month paid professionals help S with	Cont
4	S4RAPFCAREDPM	s4rapfcaredpm: w4 days/month paid professionals help S with	Cont
5	S5RAPFCAREDPM	s5rapfcaredpm: w5 days/month paid professionals help S with	Cont
1	R1RAPFCAREDPMM	rlrapfcaredpmm: w1 R # paid professionals missing days of he	Cont
2	R2RAPFCAREDPMM	r2rapfcaredpmm: w2 R # paid professionals missing days of he	Cont
3	R3RAPFCAREDPMM	r3rapfcaredpmm: w3 R # paid professionals missing days of he	Cont
4	R4RAPFCAREDPMM	r4rapfcaredpmm: w4 R # paid professionals missing days of he	Cont
5	R5RAPFCAREDPMM	r5rapfcaredpmm: w5 R # paid professionals missing days of he	Cont
Ü		Totaproaroup wo it a para protosoronaro misoring dajo or no	00110
1	S1RAPFCAREDPMM	slrapfcaredpmm: w1 S # paid professionals missing days of he	Cont
2	S2RAPFCAREDPMM	s2rapfcaredpmm: w2 S # paid professionals missing days of he	Cont
3	S3RAPFCAREDPMM	s3rapfcaredpmm: w3 S # paid professionals missing days of he	Cont
4	S4RAPFCAREDPMM	s4rapfcaredpmm: w4 S # paid professionals missing days of he	Cont
5	S5RAPFCAREDPMM	s5rapfcaredpmm: w5 S # paid professionals missing days of he	Cont
1	R1RAPFCAREHR	rlrapfcarehr: w1 hours/day paid professionals help R with AD	Cont
2	R2RAPFCAREHR	r2rapfcarehr: w2 hours/day paid professionals help R with AD	Cont
3	R3RAPFCAREHR	r3rapfcarehr: w3 hours/day paid professionals help R with AD	Cont
4	R4RAPFCAREHR	r4rapfcarehr: w4 hours/day paid professionals help R with AD	Cont
5	R5RAPFCAREHR	r5rapfcarehr: w5 hours/day paid professionals help R with AD	Cont
_	04		
1	S1RAPFCAREHR	slrapfcarehr: wl hours/day paid professionals help S with AD	Cont
2	S2RAPFCAREHR	s2rapfcarehr: w2 hours/day paid professionals help S with AD	Cont
3	S3RAPFCAREHR	s3rapfcarehr: w3 hours/day paid professionals help S with AD	Cont
4	S4RAPFCAREHR	s4rapfcarehr: w4 hours/day paid professionals help S with AD	Cont
5	S5RAPFCAREHR	s5rapfcarehr: w5 hours/day paid professionals help S with AD	Cont

2 3 4	R1RAPFCAREHRM R2RAPFCAREHRM R3RAPFCAREHRM R4RAPFCAREHRM R5RAPFCAREHRM	r1rapfcarehrm: r2rapfcarehrm: r3rapfcarehrm: r4rapfcarehrm: r5rapfcarehrm:	w2 w3 w4	R R R	###	paid paid paid	professionals professionals professionals	missing missing missing	hours hours hours	of of of	he he he	Cont Cont Cont Cont
1 2 3	S1RAPFCAREHRM S2RAPFCAREHRM S3RAPFCAREHRM	<pre>s1rapfcarehrm: s2rapfcarehrm: s3rapfcarehrm:</pre>	w2	S	#	paid	professionals	missing	hours	of	he	Cont Cont Cont
	S4RAPFCAREHRM S5RAPFCAREHRM	s4rapfcarehrm: s5rapfcarehrm:				_	-					Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RAPFCARE	780	0.04	0.20	0.00	1.00
R2RAPFCARE	793	0.04	0.19	0.00	1.00
R3RAPFCARE	1172	0.03	0.17	0.00	1.00
R4RAPFCARE	1297	0.04	0.21	0.00	1.00
R5RAPFCARE	1380	0.04	0.19	0.00	1.00
S1RAPFCARE	456	0.01	0.09	0.00	1.00
S2RAPFCARE	461	0.01	0.09	0.00	1.00
S3RAPFCARE	575	0.01	0.11	0.00	1.00
S4RAPFCARE	638	0.02	0.13	0.00	1.00
S5RAPFCARE	572	0.03	0.16	0.00	1.00
R1RAPFCAREN	780	0.04	0.24	0.00	3.00
R2RAPFCAREN	793	0.04	0.21	0.00	2.00
R3RAPFCAREN	1172	0.03	0.19	0.00	2.00
R4RAPFCAREN	1297	0.05	0.26	0.00	3.00
R5RAPFCAREN	1380	0.05	0.28	0.00	3.00
S1RAPFCAREN	456	0.01	0.09	0.00	1.00
S2RAPFCAREN	461	0.01	0.09	0.00	1.00
S3RAPFCAREN	575	0.01	0.11	0.00	1.00
S4RAPFCAREN	638	0.02	0.17	0.00	3.00
S5RAPFCAREN	572	0.02	0.21	0.00	3.00
SUMERCANEN	372	0.03	0.21	0.00	3.00
R1RAPFCAREDPM	780	1.22	6.75	0.00	90.00
R2RAPFCAREDPM	793	1.12	5.97	0.00	60.00
R3RAPFCAREDPM	1172	0.81	4.88	0.00	60.00
R4RAPFCAREDPM	1297	1.12	6.25	0.00	90.00
R5RAPFCAREDPM	1380	1.11	6.94	0.00	90.00
S1RAPFCAREDPM	456	0 16	2.05	0.00	30.00
S2RAPFCAREDPM S2RAPFCAREDPM	461	0.16 0.26	2.79	0.00	30.00
S3RAPFCAREDPM	575	0.26	2.79	0.00	30.00
S4RAPFCAREDPM	638	0.50	4.72	0.00	90.00
S5RAPFCAREDPM	572	0.64	4.43	0.00	60.00
SURAFFCAREDEM	572	0.04	4.45	0.00	00.00
R1RAPFCAREDPMM	780	0.00	0.00	0.00	0.00
R2RAPFCAREDPMM	793	0.00	0.00	0.00	0.00
R3RAPFCAREDPMM	1172	0.00	0.00	0.00	0.00
R4RAPFCAREDPMM	1297	0.00	0.00	0.00	0.00
R5RAPFCAREDPMM	1380	0.00	0.00	0.00	0.00
S1RAPFCAREDPMM	456	0.00	0.00	0.00	0.00
S2RAPFCAREDPMM	461	0.00	0.00	0.00	0.00
S3RAPFCAREDPMM	575	0.00	0.00	0.00	0.00
S4RAPFCAREDPMM	638	0.00	0.00	0.00	0.00
S5RAPFCAREDPMM	572	0.00	0.00	0.00	0.00
	-				

R1RAPFCAREHR	780	0.52	3.22	0.00	48.00
R2RAPFCAREHR	793	0.35	2.26	0.00	24.00
R3RAPFCAREHR	1172	0.42	2.81	0.00	30.00
R4RAPFCAREHR	1297	0.51	3.08	0.00	36.00
R5RAPFCAREHR	1379	0.44	3.14	0.00	48.00
S1RAPFCAREHR	456	0.10	1.29	0.00	24.00
S2RAPFCAREHR	461	0.03	0.39	0.00	8.00
S3RAPFCAREHR	575	0.22	2.24	0.00	24.00
S4RAPFCAREHR	638	0.18	1.74	0.00	24.00
S5RAPFCAREHR	572	0.29	2.54	0.00	48.00
R1RAPFCAREHRM	780	0.00	0.00	0.00	0.00
R2RAPFCAREHRM	793	0.00	0.00	0.00	0.00
R3RAPFCAREHRM	1172	0.00	0.00	0.00	0.00
R4RAPFCAREHRM	1297	0.00	0.00	0.00	0.00
R5RAPFCAREHRM	1380	0.00	0.03	0.00	1.00
S1RAPFCAREHRM	456	0.00	0.00	0.00	0.00
S2RAPFCAREHRM	461	0.00	0.00	0.00	0.00
S3RAPFCAREHRM	575	0.00	0.00	0.00	0.00
S4RAPFCAREHRM	638	0.00	0.00	0.00	0.00
S5RAPFCAREHRM	572	0.00	0.00	0.00	0.00

Categorical Variable Codes

Value	R1RAPFCARE	R2RAPFCARE	R3RAPFCARE	R4RAPFCARE	R5RAPFCARE
.d:DK	1		1	6	2
.h:no help received	873	737	1785	1715	1654
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	13490	12144	12764	11720	13978
0.No	749	764	1136	1240	1329
1.Yes	31	29	36	57	51
Value	S1RAPFCARE	S2RAPFCARE	S3RAPFCARE	S4RAPFCARE	S5RAPFCARE
.d:DK			1	5	
.h:no help received	524	408	1107	1012	724
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	9653	8687	8909	7987	6107
0.No	452	457	568	627	557
1.Yes	4	4	7	11	15

How Constructed

The following variables indicate whether paid formal caregivers help the respondent with any ADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. If the respondent reports having difficulty with an ADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRAPFCARE, RWRAPFCAREDPM, RWRAPFCAREDPMM, RWRAPFCAREHRM, and RWRAPFCAREHRM include help from a paid person.

RWRAPFCARE indicates whether any paid professionals help the respondent with ADL needs. RWRAPFCAREN indicates the number of paid professionals who help the respondent with ADL needs. RwRAPFCARE is coded as 0 if no paid professionals help the respondent with ADLs; and is coded as 1 if at least one paid professional helps the respondent with ADLs.

RWRAPFCAREDPM indicates the number of total days per month paid professionals help the respondent with ADL needs. If the respondent reports receiving help every day from that paid professional, then a value of 30 is assumed. RwRAPFCAREDPM is the sum of days per month for all paid professional helpers, and so values can be over 30 days. RwRAPFCAREDPM is calculated as long as there is one non-missing value. RwRAPFCAREDPM is assigned a value of 0 if the respondent did not receive help from any paid professionals. RwRAPFCAREDPMM indicates the number of paid professionals who helped the respondent for whom no value of days was reported and was not accounted for in RwRAPFCAREDPM. RwRAPFCAREDPMM is assigned special missing value .m if the respondent was not helped by any paid professionals. RwRAPFCAREDPM and RwRAPFCAREDPMM are not available in waves 1 and 2.

RWRAPFCAREHR indicates the number of hours per day paid professionals help the respondent with ADL needs. Respondents are asked, on days paid professionals help, how many hours per day that is. If the respondent reports less than an hour for that paid professional, then a 1 is assumed. RWRAPFCAREHR is the sum of hours per day for all paid professional helpers, and so values can be over 24 hours. RWRAPFCAREHR is calculated as long as there is one non-missing value. RWRAPFCAREHR is assigned a value of 0 if the respondent did not receive help from any paid professionals. RWRAPFCAREHRM indicates the number of paid professionals who helped the respondent for whom no value of hours was reported and was not accounted for in RWRAPFCAREHR. RWRAPFCAREHRM is assigned special missing value .m if the respondent was not helped by any paid professionals. RWRAPFCAREHR and RWRAPFCAREHRM are not available in HRS waves 1 and 2. If the respondent participated in HRS wave 2, then RWRAPFCAREHR and RWRAPFCAREHRM are assigned special missing value .g in wave 2.

SWRAPFCARE, SWRAPFCAREN, SWRAPFCAREDPM, and SWRAPFCAREHR indicate whether the respondent's current wave's spouse receives help from paid professionals, the number, and the frequency with which, and their values are taken from RWRAPFCARE, RWRAPFCAREN, RWRAPFCAREDPM, and RWRAPFCAREHR. SWRAPFCAREDPMM and SWRAPFCAREHRM indicate the number of paid professionals who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRAPFCAREDPMM and RWRAPFCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent reports 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 MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

RWRAPFCARE in the Harmonized MHAS is also comparable to RwRAFAANY in the Harmonized HRS, indicating any formal care for ADLs, because the MHAS does not have a category for unpaid formal caregivers.

RWRAPFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRAPFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs.

```
Wave 1:
                    help dressing
   H14
   H15 3
                    spouse helps walking
   H15 4
                    other helps walking
   H16<sup>3</sup>
                    spouse helps bathing
                    other helps bathing
   H16 4
   H17 3
                   spouse helps eating
   H17 4
                   other helps eating
   H18 3
                   spouse helps getting in an out of bed
   H18 4
                  other helps getting in an out of bed
   H19 3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
Wave 1 Helper:
   H22
                    kinship of helper
   H23
                    roster number of helper
   H24
                    days of help
   H25
                    hours of help
Wave 2:
   H14
                    someone help you to get dressed
   H15E
                    spouse helps
   H15F
                    additional person helps
   H16E
                    spouse helps
   H16F
                    additional person helps
                    spouse helps
   H17E
   H17F
                    additional person helps
   H18E
                    spouse helps
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
   H23
                    registration number
                    number of days (name) helped last month
   H24
                    number of hours during those days
   H25
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
   H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22_1_12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
   H22_2_12
   H22_3_12
                    Relationship with helper for ADLs
   H22_4_12
                    Relationship with helper for ADLs
   H22_5_12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22<sup>8</sup>12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23_7_12
                    Registration number of helper for ADLs
   H23_8_12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
```

```
H24 2 12
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24 5 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H24 7 12
                    Number of days (name) helped last month
   H24 8 12
                    Number of days (name) helped last month
                    Number of hours during those days (NAME) helped
   H25 1 12
   H25_2_12
                    Number of hours during those days (NAME) helped
   H25_3_12
                    Number of hours during those days (NAME) helped
   H25_4_12
                    Number of hours during those days (NAME) helped
   H25_5_12
                    Number of hours during those days (NAME) helped
   H25_6_12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
   H25 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
                    Does someone help respondent eating
   H17D 15
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22_2_15
                    Respondent's relationship with person helping with ADLs
   H22_3_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22_4_15
   H22_5_15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22 7 15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
   H23 2 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 3 15
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
   H23 6 15
                    Registration number of person helping with ADLs
   H23_7_15
                    Registration number of person helping with ADLs
   H23 8 15
                    Registration number of person helping with ADLs
   H24_1_15
                    Number of days the person helped during last month
   H24_2_15
                    Number of days the person helped during last month
   H24_3_15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
   H24_5_15
H24_6_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 7 15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25 1 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 2 15
   H25 3 15
                    Number of hours during those days that the person helpe
   H25 4 15
                    Number of hours during those days that the person helpe
   H25 5 15
                    Number of hours during those days that the person helpe
   H25 6 15
                    Number of hours during those days that the person helpe
   H25 7 15
                    Number of hours during those days that the person helpe
   H25 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22 \overline{1} 18
                    R's relationship with person helping with ADLs
                    R's relationship with person helping with ADLs
    H22 2 18
    H22 3 18
                    R's relationship with person helping with ADLs
```

H23_1_18 H23_2_18 H23_3_18	Registration number of person helping with ADLs Registration number of person helping with ADLs Registration number of person helping with ADLs
H24_1_18 H24_2_18	Number of days the person helped during last month Number of days the person helped during last month
H24_3_18	Number of days the person helped during last month
H25 1 18	Number of hours during those days that the person helpe
H25 2 18	Number of hours during those days that the person helpe
H25_3_18	Number of hours during those days that the person helpe

Instrumental Activities of Daily Living: Whether Receives Any Care

Wave	Variable	Label		Type
1	R1RICANY	rlricany:	w1 R receives any care for IADLs	Categ
2	R2RICANY	r2ricany:	w2 R receives any care for IADLs	Categ
3	R3RICANY	r3ricany:	w3 R receives any care for IADLs	Categ
4	R4RICANY	r4ricany:	w4 R receives any care for IADLs	Categ
5	R5RICANY	r5ricany:	w5 R receives any care for IADLs	Categ
1	S1RICANY	slricany:	w1 S receives any care for IADLs	Categ
2	S2RICANY	s2ricany:	w2 S receives any care for IADLs	Categ
3	S3RICANY	s3ricany:	w3 S receives any care for IADLs	Categ
4	S4RICANY	s4ricany:	w4 S receives any care for IADLs	Categ
5	S5RICANY	s5ricany:	w5 S receives any care for IADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RICANY	1684	0.84	0.37	0.00	1.00
R2RICANY	1504	0.86	0.34	0.00	1.00
R3RICANY	2321	0.72	0.45	0.00	1.00
R4RICANY	2492	0.76	0.43	0.00	1.00
R5RICANY	1897	0.79	0.41	0.00	1.00
S1RICANY	1104	0.86	0.35	0.00	1.00
S2RICANY	998	0.80	0.40	0.00	1.00
S3RICANY	1418	0.66	0.48	0.00	1.00
S4RICANY	1375	0.70	0.46	0.00	1.00
S5RTCANY	843	0.76	0.43	0 - 0 0	1.00

Categorical Variable Codes

Value	R1RICANY	R2RICANY	R3RICANY	R4RICANY	R5RICANY
.d:DK			1	5	
.m:Missing	38	39		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	267	204	658	605	406
1.Yes	1417	1300	1663	1887	1491
Value	S1RICANY	S2RICANY	S3RICANY	S4RICANY	S5RICANY
.d:DK			1	5	
.m:Missing	13	13		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	154	202	487	406	205
1.Yes	950	796	931	969	638

How Constructed

RWRICANY indicates whether the respondent receives any care for difficulties with instrumental activities of daily living (IADL). If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. RwRICANY is assigned a value of 0 if the respondent has difficulty with at least one IADL but receives no help with the activity. RwRICANY is assigned a value of 1 if the respondent has difficulty with at least one IADL and someone helps with at least one of the activities. RwRICANY is assigned special missing value .x if the

respondent has no difficulty with any IADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RwRICANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRICANY indicates whether the respondent's current wave's spouse receives any care for difficulties with IADLs, and its values are taken from RwRICANY. In addition to the special missing codes employed by RwRICANY, SwRICANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS, if the respondent reports that they "can't do" or "don't do" the activity or if they have difficulty that is not the result of a health or memory problem, then they are not asked whether they receive help with that activity. Respondents in the MHAS, however, are asked whether they receive help with the activity if they report that they "can't do", "don't do", or have difficulty with the activity, regardless of whether it is the result of a health or memory problem.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, RwRICANY in the Harmonized HRS also includes help using the telephone, whereas RwRICANY in the Harmonized MHAS does not include help using the telephone.

Wave 1:	
Н26 З	spouse helps with hot meal
H26 4	someone helps with hot meal
н27 3	spouse helps with shopping
H27 4	someone helps with shopping
H28 ⁻ 3	spouse helps with taking medication
H28 4	someone helps with taking medication
н29 3	spouse helps with managing money
H29 ⁻ 4	someone helps with managing money
Wave 2:	
H26D	spouse helps
H26E	additional person helps
H27D	spouse helps
H27E	additional person helps
H28D	spouse helps
H28E	additional person helps
H29D	spouse helps
H29E	additional person helps
Wave 3:	
H26C 12	Does anyone help you prepare a hot meal
H27C 12	Does anyone help you shop for groceries
H28C 12	Does anyone help you take medications
H29C 12	Does anyone one help you manage your money
н32 <u>Т</u> 12	Relationship with helper for IADLs
н32 2 12	Relationship with helper for IADLs
н32 3 12	Relationship with helper for IADLs
H32 4 12	Relationship with helper for IADLs
н32 5 12	Relationship with helper for IADLs
H32_6_12	Relationship with helper for IADLs
н32 7 12	Relationship with helper for IADLs
н32 8 12	Relationship with helper for IADLs
н33 1 12	Registration number of helper for IADLs
н33 2 12	Registration number of helper for ADLs
н33 3 12	Registration number of helper for IADLs
н33 4 12	Registration number of helper for IADLs
	•

```
H33 5 12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
    Н33 6 12
    н33 7 12
                    Registration number of helper for IADLs
    H33_8_12
                    Registration number of helper for IADLs
Wave 4:
    H26C 15
                    Does someone help respondent to prepare a hot meal
    H27C 15
                    Does someone help respondent to shop for groceries
    H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
                    Respondent's relationship with person helping with IADL
   H32_1_15
   H32_2_15
                    Respondent's relationship with person helping with IADL
    H32_3_15
                    Respondent's relationship with person helping with IADL
   H32_4_15
                    Respondent's relationship with person helping with IADL
   H32_5_15
H32_6_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   Н32 7 15
                    Respondent's relationship with person helping with IADL
   н32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
   H33 2 15
                    Registration number of person helping with IADLs
   Н33 3 15
                    Registration number of person helping with IADLs
   H33 4 15
                    Registration number of person helping with IADLs
   Н33 5 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs \,
   н33 6 15
                    Registration number of person helping with IADLs
    H33_7_15
    н33 8 15
                    Registration number of person helping with IADLs
Wave 5:
    H26C 18
                    Does someone help R to prepare a hot meal
    H27C_18
H28C_18
                    Does someone help R to shop for groceries
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
    H32 \overline{1} 18
                    R's relationship with person helping with IADLs
    H32 2 18
                    R's relationship with person helping with IADLs
    H32 3 18
                    R's relationship with person helping with IADLs
                    Registration number of person helping with IADLs
    H33 1 18
    H33 2 18
                    Registration number of person helping with IADLs
    Н33 3 18
                    Registration number of person helping with IADLs
```

Instrumental Activities of Daily Living: Whether Receives Any Informal Care

Wave	Variable	Label								Type
1	R1RICAANY	r1ricaany: w	1 R	receives	any	informal	care	for	IADLs	Categ
2	R2RICAANY	r2ricaany: w	2 R	receives	any	informal	care	for	IADLs	Categ
3	R3RICAANY	r3ricaany: w	3 R	receives	any	informal	care	for	IADLs	Categ
4	R4RICAANY	r4ricaany: w	4 R	receives	any	informal	care	for	IADLs	Categ
5	R5RICAANY	r5ricaany: w	5 R	receives	any	informal	care	for	IADLs	Categ
1	S1RICAANY	s1ricaany: w	1 S	receives	any	informal	care	for	IADLs	Categ
2	S2RICAANY	s2ricaany: w	2 S	receives	any	informal	care	for	IADLs	Categ
3	S3RICAANY	s3ricaany: w	3 S	receives	any	informal	care	for	IADLs	Categ
4	S4RICAANY	s4ricaany: w	4 S	receives	any	informal	care	for	IADLs	Categ
5	S5RICAANY	s5ricaany: w	5 S	receives	any	informal	care	for	IADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RICAANY	1684	0.84	0.37	0.00	1.00
R2RICAANY	1513	0.83	0.38	0.00	1.00
R3RICAANY	2321	0.72	0.45	0.00	1.00
R4RICAANY	2492	0.76	0.43	0.00	1.00
R5RICAANY	1897	0.77	0.42	0.00	1.00
S1RICAANY	1104	0.86	0.35	0.00	1.00
S2RICAANY	1005	0.75	0.43	0.00	1.00
S3RICAANY	1418	0.66	0.48	0.00	1.00
S4RICAANY	1375	0.70	0.46	0.00	1.00
S5RICAANY	843	0.75	0.43	0.00	1.00

Categorical Variable Codes

Value	R1RICAANY	R2RICAANY	R3RICAANY	R4RICAANY	R5RICAANY
.d:DK			1	5	
.m:Missing	38	30		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	268	256	658	605	427
1.Yes	1416	1257	1663	1887	1470
Value	S1RICAANY	S2RICAANY	S3RICAANY	S4RICAANY	S5RICAANY
.d:DK			1	5	
.m:Missing	13	6		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	155	249	487	406	210
1.Yes	949	756	931	969	633

How Constructed

RWRICAANY indicates whether the respondent receives any informal care for difficulties with instrumental activities of daily living (IADL). The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The following relationships are

considered to provide informal care: spouse, child, child-in-law, grandchild, parent, other relative, other person.

Please note that for each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

RWRICAANY is assigned a value of 0 if the respondent has difficulty with at least one IADL but receives no help with the activity from an informal caregiver, or does not receive any help at all. RWRICAANY is assigned a value of 1 if the respondent has difficulty with at least one IADL and an informal caregiver helps with at least one of the activities. RWRICAANY is assigned special missing value .x if the respondent has no difficulty with any IADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RWRICAANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRICAANY indicates whether the respondent's current wave's spouse receives any informal care for difficulties with IADLs, and its values are taken from RwRICAANY. In addition to the special missing codes employed by RwRICAANY, SwRICAANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, RwRICAANY in the Harmonized HRS also includes help using the telephone, whereas RwRICAANY in the Harmonized MHAS does not include help using the telephone.

```
Wave 1:
   H26 3
                    spouse helps with hot meal
   H26 4
                   someone helps with hot meal
   H27 3
                  spouse helps with shopping
   H27 4
                  someone helps with shopping
   H28 3
                  spouse helps with taking medication
   H28 4
                   someone helps with taking medication
   H29 3
                   spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 1 Helper:
   H32
                   kinship of helper
    H33
                   roster number of helper
    Н34
                    days of help
                   hours of help
    Н35
Wave 2:
   H26D
                   spouse helps
    H26E
                    additional person helps
    H27D
                    spouse helps
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```
additional person helps
    H28D
                    spouse helps
    H28E
                    additional person helps
    H29D
                    spouse helps
    H29E
                    additional person helps
Wave 2 Helper:
    H32
                    relationship
    Н33
                    registration number
                    number of days (name) helped last month
    H34
    Н35
                    how many hours during those days
Wave 3:
    H26C_12
                    Does anyone help you prepare a hot meal
   H27C_12
H28C_12
                    Does anyone help you shop for groceries
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32 \overline{1} 12
                    Relationship with helper for IADLs
   H32 2 12
                    Relationship with helper for IADLs
   H32 3 12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32 5 12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   Н32 7 12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
                    Registration number of helper for IADLs
   Н33 1 12
   H33_2_12
                    Registration number of helper for ADLs
   H33_3_12
                    Registration number of helper for IADLs
   H33_4_12
                    Registration number of helper for IADLs
    H33_5_12
                    Registration number of helper for IADLs
    Н33 6 12
                    Registration number of helper for IADLs
    н33 7 12
                    Registration number of helper for IADLs
    H33<sup>8</sup>12
                    Registration number of helper for IADLs
Wave 4:
    H26C 15
                    Does someone help respondent to prepare a hot meal
                    Does someone help respondent to shop for groceries
    H27C 15
    H28C 15
                    Does someone help respondent to take medications
    H29C 15
                    Does someone help respondent to manage his/her money
                    Respondent's relationship with person helping with IADL
    H32 1 15
    H32_2_15
                    Respondent's relationship with person helping with IADL
   H32_3_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
    H32_4_15
   H32_5_15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
   H32_7_15
H32_8_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   н33 1 15
                    Registration number of person helping with IADLs
   н33 2 15
                    Registration number of person helping with IADLs
   Н33 3 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 4 15
   Н33 5 15
                    Registration number of person helping with IADLs
   Н33 6 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs \,
    Н33 7 15
    Н33 8 15
                    Registration number of person helping with IADLs
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
    H27C_18
H28C_18
                    Does someone help R to shop for groceries
    H28C
                    Does someone help R to take medications
        18
    H29C
                    Does someone help R to manage his/her money
    H32 1 18
                    R's relationship with person helping with IADLs
    н32 2 18
                    R's relationship with person helping with IADLs
    H32 3 18
                    R's relationship with person helping with IADLs
    H33 1 18
                    Registration number of person helping with IADLs
    H33 2 18
                    Registration number of person helping with IADLs
    H33 3 18
                    Registration number of person helping with IADLs
```

Instrumental Activities of Daily Living: Receives Informal Care from Spouse

Wave	Variable	Label	Type
1	R1RISCARE	rlriscare: wl R receives informal care from spouse for IADLs	Categ
2	R2RISCARE	r2riscare: w2 R receives informal care from spouse for IADLs	Categ
	R3RISCARE	r3riscare: w3 R receives informal care from spouse for IADLs	Categ
	R4RISCARE	r4riscare: w4 R receives informal care from spouse for IADLs	Categ
5	R5RISCARE	r5riscare: w5 R receives informal care from spouse for IADLs	Categ
Ü	11011120011112	Tollocato, we is location informat oute from openior for indication	ouccg
1	S1RISCARE	slriscare: w1 S receives informal care from spouse for IADLs	Categ
2	S2RISCARE	s2riscare: w2 S receives informal care from spouse for IADLs	Categ
3	S3RISCARE	s3riscare: w3 S receives informal care from spouse for IADLs	Cateq
4	S4RISCARE	s4riscare: w4 S receives informal care from spouse for IADLs	Categ
5	S5RISCARE	s5riscare: w5 S receives informal care from spouse for IADLs	Categ
2	R2RISCAREDPM	r2riscaredpm: w2 days/month spouse helps R with IADLs	Cont
3	R3RISCAREDPM	r3riscaredpm: w3 days/month spouse helps R with IADLs	Cont
4	R4RISCAREDPM	r4riscaredpm: w4 days/month spouse helps R with IADLs	Cont
5	R5RISCAREDPM	r5riscaredpm: w5 days/month spouse helps R with IADLs	Cont
2	S2RISCAREDPM	s2riscaredpm: w2 days/month spouse helps S with IADLs	Cont
3	S3RISCAREDPM	s3riscaredpm: w3 days/month spouse helps S with IADLs	Cont
4	S4RISCAREDPM	s4riscaredpm: w4 days/month spouse helps S with IADLs	Cont
5	S5RISCAREDPM	s5riscaredpm: w5 days/month spouse helps S with IADLs	Cont
2	R2RISCAREDPMM	r2riscaredpmm: w2 R # spouse missing days of help for IADLs	Cont
3	R3RISCAREDPMM	r3riscaredpmm: w3 R # spouse missing days of help for IADLs	Cont
4	R4RISCAREDPMM	r4riscaredpmm: w4 R # spouse missing days of help for IADLs	Cont
5	R5RISCAREDPMM	r5riscaredpmm: w5 R # spouse missing days of help for IADLs	Cont
2	S2RISCAREDPMM	s2riscaredpmm: w2 S # spouse missing days of help for IADLs	Cont
3	S3RISCAREDPMM	s3riscaredpmm: w3 S # spouse missing days of help for IADLs	Cont
4	S4RISCAREDPMM	s4riscaredpmm: w4 S # spouse missing days of help for IADLs	Cont
5	S5RISCAREDPMM	s5riscaredpmm: w5 S # spouse missing days of help for IADLs	Cont
2	R2RISCAREHR	m2mi ggamahm2 hayma/day anayga halma Di+h TADI a	Cont
		r2riscarehr: w2 hours/day spouse helps R with IADLs	Cont
	R3RISCAREHR	r3riscarehr: w3 hours/day spouse helps R with IADLs	Cont
	R4RISCAREHR	r4riscarehr: w4 hours/day spouse helps R with IADLs	Cont
5	R5RISCAREHR	r5riscarehr: w5 hours/day spouse helps R with IADLs	Cont
2	S2RISCAREHR	s2riscarehr: w2 hours/day spouse helps S with IADLs	Cont
	S3RISCAREHR	s3riscarehr: w3 hours/day spouse helps S with IADLs	Cont
4	S4RISCAREHR	s4riscarehr: w4 hours/day spouse helps S with IADLs	Cont
5	S5RISCAREHR	s5riscarehr: w5 hours/day spouse helps S with IADLs	Cont
9	DUNIDCAREIIN	30113careni. Wo nours/day spouse neips o with IADES	COIIC
2	R2RISCAREHRM	r2riscarehrm: w2 R # spouse missing hours of help for IADLs	Cont
	R3RISCAREHRM	r3riscarehrm: w3 R # spouse missing hours of help for IADLs	Cont
	R4RISCAREHRM	r4riscarehrm: w4 R # spouse missing hours of help for IADLs	Cont
5	R5RISCAREHRM	r5riscarehrm: w5 R # spouse missing hours of help for IADLs	Cont
J		Of Mark the following models of mark for mark	00110
2	S2RISCAREHRM	s2riscarehrm: w2 S # spouse missing hours of help for IADLs	Cont
3	S3RISCAREHRM	s3riscarehrm: w3 S # spouse missing hours of help for IADLs	Cont
4	S4RISCAREHRM	s4riscarehrm: w4 S # spouse missing hours of help for IADLs	Cont
5	S5RISCAREHRM	s5riscarehrm: w5 S # spouse missing hours of help for IADLs	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RISCARE	1417	0.57	0.50	0.00	1.00
R2RISCARE	1309	0.42	0.49	0.00	1.00

Section L: Assistance	ce and Caregivin	g					625
R3RISCARE	1663	0.36	0.48		0.00	1.00	
R4RISCARE	1887	0.32	0.47		0.00	1.00	
R5RISCARE	1491	0.21	0.41		0.00	1.00	
S1RISCARE	950	0.84	0.37		0.00	1.00	
S2RISCARE	803	0.68	0.47		0.00	1.00	
S3RISCARE	931	0.63	0.48		0.00	1.00	
S4RISCARE	969	0.61	0.49		0.00	1.00	
S5RISCARE	638	0.39	0.49		0.00	1.00	
R2RISCAREDPM	1308	11.00	14.19		0.00	30.00	
R3RISCAREDPM	1658	8.78	13.25		0.00	30.00	
R4RISCAREDPM	1884	6.95	12.11		0.00	30.00	
R5RISCAREDPM	1474	5.27	11.25		0.00	30.00	
S2RISCAREDPM	802	17.82	14.30		0.00	30.00	
S3RISCAREDPM	927	15.38	14.36		0.00	30.00	
S4RISCAREDPM	966	13.24	14.02		0.00	30.00	
S5RISCAREDPM	622	9.92	13.92		0.00	30.00	
R2RISCAREDPMM	1309	0.00	0.03		0.00	1.00	
R3RISCAREDPMM	1663	0.00	0.05		0.00	1.00	
R4RISCAREDPMM	1887	0.00	0.04		0.00	1.00	
R5RISCAREDPMM	1491	0.01	0.11		0.00	1.00	
S2RISCAREDPMM	803	0.00	0.04		0.00	1.00	
S3RISCAREDPMM	931	0.00	0.07		0.00	1.00	
S4RISCAREDPMM	969	0.00	0.06		0.00	1.00	
S5RISCAREDPMM	638	0.03	0.16		0.00	1.00	
R2RISCAREHR	1307	1.94	4.00		0.00	24.00	
R3RISCAREHR	1648	2.94	6.35		0.00	24.00	
R4RISCAREHR	1880	1.44	3.51		0.00	24.00	
R5RISCAREHR	1468	1.18	3.81		0.00	24.00	
S2RISCAREHR	801	3.13	4.65		0.00	24.00	
S3RISCAREHR	917	5.19	7.75		0.00	24.00	
S4RISCAREHR	962	2.75	4.45		0.00	24.00	
S5RISCAREHR	617	2.39	5.39		0.00	24.00	
R2RISCAREHRM	1309	0.00	0.04		0.00	1.00	
R3RISCAREHRM	1663	0.01	0.09		0.00	1.00	
R4RISCAREHRM	1887	0.00	0.06		0.00	1.00	
R5RISCAREHRM	1491	0.02	0.12		0.00	1.00	
S2RISCAREHRM	803	0.00	0.05		0.00	1.00	
S3RISCAREHRM	931	0.02	0.12		0.00	1.00	
S4RISCAREHRM	969	0.01	0.08		0.00	1.00	
S5RISCAREHRM	638	0.03	0.18		0.00	1.00	
Categorical Var	riable Codes						
Value			R1RISCARE	R2RISCARE	R3RISCARE	R4RISCARE	R5RISCARE
.d:DK		1			1	5	
.h:no help receiv	red		267	204	658	605	406
<pre>.m:Missing .p:Proxy intervie</pre>	ew, not asked	 	38 1032	30 1161	1275	40 929	17 1328
.r:Refuse		1	13	1	1	1	12
.x:no difficulty			12419	10999	12125	11312	13860
0.No 1.Yes		 	607 810	762 547	1067 596	1279 608	1176 315
				27525400			
Valued:DK			S1RISCARE	S2RISCARE	S3RISCARE 1	S4RISCARE 5	S5RISCARE
.h:no help receiv	red	İ	154	202	487	406	205
-							

.m:Missing	I	13	6		10	2
.p:Proxy interview, not asked	İ	660	814	726	470	560
.r:Refuse		8	1			6
.u:Unmar		4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
<pre>.x:no difficulty</pre>		8863	7738	8447	7792	6050
0.No		152	259	349	378	391
1.Yes		798	544	582	591	247

How Constructed

The following variables indicate whether the respondent's spouse helps the respondent with any IADL needs. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any IADL, and are coded as special missing value .h if the respondent reports difficulty with an IADL but does not receive any help. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRISCAREDPM, RWRISCAREDPMM, RWRISCAREHR, and RWRISCAREHRM include help from the respondent's spouse.

RWRISCARE indicates whether the respondent's spouse helps the respondent with any IADL needs. RWRISCARE is coded as 0 if the respondent receives no assistance from their spouse; and is coded as 1 if the respondent does receive help from their spouse.

RWRISCAREDPM indicates the number of days per month the respondent's spouse helps the respondent with IADL needs. If the respondent reports receiving help every day from their spouse, then a value of 30 is assumed. RWRISCAREDPM is assigned a value of 0 if the respondent did not receive help from their spouse. RWRISCAREDPMM indicates whether no value of days was reported for their spouse helper and so was not accounted for in RWRISCAREDPMM. RWRISCAREDPMM is assigned special missing value .m if the respondent was not helped by their spouse. RWRISCAREDPMM and RWRISCAREDPMM are not available in wave 1.

RWRISCAREHR indicates the number of hours per day the respondent's spouse helps the respondent with any IADL needs. Respondents are asked, on days their spouse helps with a particular IADL need, how many hours per day their spouse helps. If the respondent reports less than an hour for their spouse, then a 1 is assumed. RWRISCAREHR is assigned a value of 0 if the respondent did not receive help from their spouse. RWRISCAREHRM indicates whether no value of hours was reported for their spouse helper and so was not accounted for in RWRISCAREHR. RWRISCAREHRM is assigned special missing value .m if the respondent was not helped by their spouse. RWRISCAREHR and RWRISCAREHRM are not available in wave 1.

SWRISCAREDPM, and SWRISCAREHR indicate whether and the frequency with which the respondent's current wave's spouse receives help from the respondent, and their values are taken from RwRISCARE, RwRISCAREDPM, and RwRISCAREHR. SwRISCAREDPMM and SwRISCAREHRM indicate whether or not a value was reported for the number of days and hours the respondent's current spouse was helped by the respondent and are taken from RwRISCAREDPMM and RwRISCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The respondent is asked the number of days per month and hours per day the respondent receives help from their spouse starting in Wave 2.

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible. These variables in the Harmonized HRS include help provided by the respondent's spouse or former spouse, whereas these variables only include help provided by the respondent's spouse in the Harmonized MHAS.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRIPFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRIPFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

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Wave 1:
   H26 3
                    spouse helps with hot meal
   H26 4
                    someone helps with hot meal
   H27 3
                    spouse helps with shopping
   H27 4
                    someone helps with shopping
   H28 3
                    spouse helps with taking medication
   H28 4
                    someone helps with taking medication
   H29_3
                    spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 2:
   H26D
                    spouse helps
   H26E
                    additional person helps
   H27D
                    spouse helps
   H27E
                    additional person helps
   H28D
                    spouse helps
   H28E
                    additional person helps
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 3:
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C_12
                    Does anyone one help you manage your money
   H32_1_12
                    Relationship with helper for IADLs
   H32_2_12
                    Relationship with helper for IADLs
   H32 3 12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32 5 12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32 7 12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
   H32 8 12
   H33 1 12
                    Registration number of helper for IADLs
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H33 2 12
                    Registration number of helper for ADLs
    H33 3 12
                    Registration number of helper for IADLs
    H33 4 12
                    Registration number of helper for IADLs
    H33 5 12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
    H33 7 12
                    Registration number of helper for IADLs
    H33 8 12
                    Registration number of helper for IADLs
    H34 1 12
                    Number of days (name) helped last month
    H34 2 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
    H34_3_12
    H34_4_12
                    Number of days (name) helped last month
    H34_5_12
                    Number of days (name) helped last month
   H34_6_12
                    Number of days (name) helped last month
   H34_7_12
H34_8_12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H35 1 12
                    Number of hours during those days (NAME) helped
   H35 2 12
                    Number of hours during those days (NAME) helped
   H35 3 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
    H35 4 12
   H35 5 12
                    Number of hours during those days (NAME) helped
    H35 6 12
                    Number of hours during those days (NAME) helped
    H35 7 12
                    Number of hours during those days (NAME) helped
    H35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
    H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C_15
H28C_15
H29C_15
                    Does someone help respondent to shop for groceries
                    Does someone help respondent to take medications
                    Does someone help respondent to manage his/her money
   H32_1_15
H32_2_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
    H32 3 15
                    Respondent's relationship with person helping with IADL
    H32 4 15
                    Respondent's relationship with person helping with IADL
    H32 5 15
                    Respondent's relationship with person helping with IADL
    H32 6 15
                    Respondent's relationship with person helping with IADL
    H32 7 15
                    Respondent's relationship with person helping with IADL
    H32 8 15
                    Respondent's relationship with person helping with IADL
    H33_1_15
                    Registration number of person helping with IADLs
    H33_2_15
                    Registration number of person helping with IADLs
    H33_3_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
    H33_4_15
    H33_5_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
    Н33 6 15
    н33 7 15
                    Registration number of person helping with IADLs
   H33 8 15
                    Registration number of person helping with IADLs
   H34 1 15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   H34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34 5 15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   Н34 7 15
                    Number of days the person helped during last month
   H34 8 15
                    Number of days the person helped during last month
   H35 1 15
                    Number of hours during those days that the person helpe
   H35_2_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
    H35_3_15
    H35 4 15
                    Number of hours during those days that the person helpe
    H35 5 15
                    Number of hours during those days that the person helpe
    H35 6 15
                    Number of hours during those days that the person helpe
    {\rm H35}^{-}{\rm 7}^{-}{\rm 15}
                    Number of hours during those days that the person helpe
    H35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
    H26C 18
                    Does someone help R to prepare a hot meal
    H27C 18
                    Does someone help R to shop for groceries
    H28C 18
                    Does someone help R to take medications
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H29C_18 H32 1 18	Does someone help R to manage his/her money R's relationship with person helping with IADLs
H32 2 18	R's relationship with person helping with IADLs
Н32 3 18	R's relationship with person helping with IADLs
Н33 1 18	Registration number of person helping with IADLs
Н33_2_18	Registration number of person helping with IADLs
Н33 3 18	Registration number of person helping with IADLs
H34_1_18	Number of days the person helped during last month
H34_2_18	Number of days the person helped during last month
H34_3_18	Number of days the person helped during last month
H35_1_18	Number of hours during those days that the person helpe
H35_2_18	Number of hours during those days that the person helpe
H35_3_18	Number of hours during those days that the person helpe

Instrumental Activities of Daily Living: Receives Informal Care from Children or Grandchildren

RIRICCARE ririccare: w1 R receives informal care from kids/grandkids f Categ	Wave	Variable	Label	Туре
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	5	S5RICCAREHR	s5riccarehr: w5 hours/day kids/grandkids help S with IADLs	Cont

1	R1RICCAREHRM	r1riccarehrm:	w1	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
2	R2RICCAREHRM	r2riccarehrm:	w2	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
3	R3RICCAREHRM	r3riccarehrm:	wЗ	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
4	R4RICCAREHRM	r4riccarehrm:	w4	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
5	R5RICCAREHRM	r5riccarehrm:	w5	R	#	kids/grandkids	missing	hours	of	help	fo	Cont
1	S1RICCAREHRM	s1riccarehrm:	w1	S	#	kids/grandkids	missing	hours	of	help	fo	Cont
2	S2RICCAREHRM	s2riccarehrm:	w2	S	#	kids/grandkids	missing	hours	of	help	fo	Cont
3	S3RICCAREHRM	s3riccarehrm:	wЗ	S	#	kids/grandkids	missing	hours	of	help	fo	Cont
4	S4RICCAREHRM	s4riccarehrm:	w4	S	#	kids/grandkids	missing	hours	of	help	fo	Cont
5	S5RICCAREHRM	s5riccarehrm:	w.5	S	#	kids/grandkids	missing	hours	of	help	fo	Cont.

Descriptive Statistics

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Variable	N	Mean	Std Dev	Minimum	Maximum
R1RICCARE	1417	0.48	0.50	0.00	1.00
R2RICCARE	1309	0.56	0.50	0.00	1.00
R3RICCARE	1663	0.60	0.49	0.00	1.00
R4RICCARE	1887	0.65	0.48	0.00	1.00
R5RICCARE	1491	0.67	0.47	0.00	1.00
S1RICCARE	950	0.32	0.47	0.00	1.00
S2RICCARE	803	0.39	0.49	0.00	1.00
S3RICCARE	931	0.41	0.49	0.00	1.00
S4RICCARE	969	0.45	0.50	0.00	1.00
S5RICCARE	638	0.55	0.50	0.00	1.00
D1D1003DDN	1 4 1 7	0.66	0.06	0.00	6.00
R1RICCAREN	1417	0.66	0.86	0.00	6.00
R2RICCAREN	1309	0.76	0.90	0.00	9.00
R3RICCAREN	1663	0.73	0.74	0.00	6.00
R4RICCAREN	1887	0.82	0.77	0.00	7.00
R5RICCAREN	1491	0.85	0.77	0.00	3.00
S1RICCAREN	950	0.47	0.84	0.00	6.00
S2RICCAREN	803	0.55	0.84	0.00	7.00
S3RICCAREN	931	0.53	0.77	0.00	5.00
S4RICCAREN	969	0.58	0.77	0.00	7.00
S5RICCAREN	638	0.67	0.73	0.00	3.00
		4.4 = 0			4.0.0.0.0
R1RICCAREDPM	1417	14.78	22.01	0.00	180.00
R2RICCAREDPM	1308	17.42	22.56	0.00	180.00
R3RICCAREDPM	1652	14.20	17.92	0.00	135.00
R4RICCAREDPM	1883	14.36	18.47	0.00	210.00
R5RICCAREDPM	1464	18.27	20.09	0.00	90.00
S1RICCAREDPM	950	10.18	21.07	0.00	180.00
S2RICCAREDPM	803	12.20	20.71	0.00	158.00
S3RICCAREDPM	926	9.12	16.01	0.00	135.00
S4RICCAREDPM	966	9.35	15.32	0.00	120.00
S5RICCAREDPM	629	13.99	18.42	0.00	90.00
D1DTCC7DEDDM4	1 4 1 7	0.00	0.00	0.00	0.00
R1RICCAREDPMM	1417	0.00	0.00	0.00	0.00
R2RICCAREDPMM	1309	0.00	0.03	0.00	1.00
R3RICCAREDPMM	1663	0.01	0.10	0.00	2.00
R4RICCAREDPMM	1887	0.00	0.07	0.00	2.00
S1RICCAREDPMM	950	0.00	0.00	0.00	0.00
S2RICCAREDPMM	803	0.00	0.00	0.00	0.00
S3RICCAREDPMM	931	0.01	0.09	0.00	1.00
S4RICCAREDPMM	969	0.00	0.06	0.00	1.00
S5RICCAREDPMM	638	0.02	0.18	0.00	3.00
R1RICCAREHR	1417	2.62	4.91	0.00	48.00

R2RICCAREHR	1308	3.34	8.45	0.00	216.00
R3RICCAREHR	1651	4.66	7.65	0.00	75.00
R4RICCAREHR	1881	3.43	6.20	0.00	168.00
R5RICCAREHR	1453	4.06	6.41	0.00	48.00
S1RICCAREHR	950	1.56	3.73	0.00	36.00
S2RICCAREHR	803	1.90	4.39	0.00	44.00
S3RICCAREHR	924	2.79	6.31	0.00	75.00
S4RICCAREHR	968	2.16	4.01	0.00	28.00
S5RICCAREHR	629	3.02	5.58	0.00	36.00
R1RICCAREHRM	1417	0.00	0.00	0.00	0.00
R2RICCAREHRM	1309	0.00	0.03	0.00	1.00
R3RICCAREHRM	1663	0.01	0.10	0.00	2.00
R4RICCAREHRM	1887	0.01	0.11	0.00	4.00
R5RICCAREHRM	1491	0.04	0.22	0.00	3.00
S1RICCAREHRM	950	0.00	0.00	0.00	0.00
S2RICCAREHRM	803	0.00	0.00	0.00	0.00
S3RICCAREHRM	931	0.01	0.09	0.00	1.00
S4RICCAREHRM	969	0.00	0.05	0.00	1.00
S5RICCAREHRM	638	0.02	0.17	0.00	3.00

Categorical Variable Codes

Value .d:DK	R1RICCARE	R2RICCARE	R3RICCARE 1	R4RICCARE 5	R5RICCARE
.h:no help received	267	204	658	605	406
.m:Missing	38	30		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	736	582	670	661	494
1.Yes	681	727	993	1226	997
Value	S1RICCARE	S2RICCARE	S3RICCARE	S4RICCARE	S5RICCARE
.d:DK			1	5	
.h:no help received	154	202	487	406	205
.m:Missing	13	6		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	646	488	548	532	289
1.Yes	304	315	383	437	349

How Constructed

The following variables indicate whether the respondent's children or grandchildren help the respondent with any IADL needs. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any IADL, and are coded as special missing value .h if the respondent reports difficulty with an IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRICCARE, RWRICCAREN, RWRICCAREDPM, RWRICCAREDPMM, RWRICCAREHRM, and RWRICCAREHRM include help from a child, child-in-law, or grandchild.

RWRICCARE indicates whether any of the respondent's children or grandchildren help the respondent with IADL needs. RwRICCAREN indicates the number of the respondent's children or grandchildren who help the respondent with IADL needs. RwRICCARE is coded as 0 if none of the respondent's children or grandchildren help the respondent with IADLS; and is coded as 1 if at least one of the respondent's children or grandchildren help the respondent with IADLS.

RWRICCAREDPM indicates the number of total days per month the respondent's children or grandchildren help the respondent with IADL needs. If the respondent reports receiving help every day from that child or grandchild, then a value of 30 is assumed. RWRICCAREDPM is the sum of days per month for all children or grandchildren helpers, and so values can be over 30 days. RWRICCAREDPM is calculated as long as there is one non-missing value. RWRICCAREDPM is assigned a value of 0 if the respondent did not receive help from any children or grandchildren. RWRICCAREDPMM indicates the number of children or grandchildren who helped the respondent for whom no value of days was reported and was not accounted for in RWRICCAREDPM. RWRICCAREDPMM is assigned special missing value .m if the respondent was not helped by any children or grandchildren.

RWRICCAREHR indicates the number of hours per day the respondent's children or grandchildren help the respondent with IADL needs. Respondents are asked, on days their children or grandchildren help, how many hours per day that is. If the respondent reports less than an hour for that child or grandchild, then a 1 is assumed. RWRICCAREHR is the sum of hours per day for all children or grandchildren helpers, and so values can be over 24 hours. RWRICCAREHR is calculated as long as there is one non-missing value. RWRICCAREHR is assigned a value of 0 if the respondent did not receive help from any children or grandchildren. RWRICCAREHRM indicates the number of children or grandchildren who helped the respondent for whom no value of hours was reported and was not accounted for in RWRICCAREHR. RWRICCAREHRM is assigned special missing value .m if the respondent was not helped by any children or grandchildren.

SWRICCAREN, SWRICCAREN, SWRICCAREDPM, and SWRICCAREHR indicate whether the respondent's current wave's spouse receives help from children or grandchildren, the number, and the frequency with which, and their values are taken from RwRICCARE, RwRICCAREN, RwRICCAREDPM, and RwRICCAREHR. SwRICCAREDPMM and SwRICCAREHRM indicate the number of children who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RwRICCAREDPMM and RwRICCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRICCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRICCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

```
Wave 1:
   H26 3
                    spouse helps with hot meal
   H26 4
                    someone helps with hot meal
   H27 3
                    spouse helps with shopping
   H27 4
                    someone helps with shopping
   H28 3
                    spouse helps with taking medication
   H28 4
                  someone helps with taking medication
   H29 3
                    spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 2:
   H26D
                   spouse helps
   H26E
                    additional person helps
                    spouse helps
   H27D
   H27E
                    additional person helps
   H28D
                    spouse helps
                    additional person helps
   H28E
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 3:
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32 1 12
                    Relationship with helper for IADLs
   H32 2 12
                    Relationship with helper for IADLs
   Н32 3 12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32_5_12
                    Relationship with helper for IADLs
   H32_6_12
                    Relationship with helper for IADLs
   H32_7_12
                    Relationship with helper for IADLs
   H32_8_12
                    Relationship with helper for IADLs
   Н33 1 12
                    Registration number of helper for IADLs
   H33<sup>2</sup>12
                    Registration number of helper for ADLs
   H33 3 12
                    Registration number of helper for IADLs
   H33 4 12
                    Registration number of helper for IADLs
   H33 5 12
                    Registration number of helper for IADLs
   H33 6 12
                    Registration number of helper for IADLs
   H33 7 12
                    Registration number of helper for IADLs
   H33 8 12
                    Registration number of helper for IADLs
   H34 1 12
                    Number of days (name) helped last month
   H34_2_12
                    Number of days (name) helped last month
   H34_3_12
                    Number of days (name) helped last month
   H34_4_12
                    Number of days (name) helped last month
   H34_5_12
                    Number of days (name) helped last month
   H34_6_12
H34_7_12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 8 12
                    Number of days (name) helped last month
   H35 1 12
                    Number of hours during those days (NAME) helped
   H35 2 12
                    Number of hours during those days (NAME) helped
   H35 3 12
                    Number of hours during those days (NAME) helped
   H35 4 12
                    Number of hours during those days (NAME) helped
   H35 5 12
                    Number of hours during those days (NAME) helped
   H35 6 12
                    Number of hours during those days (NAME) helped
   H35 7 12
                    Number of hours during those days (NAME) helped
   H35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H26C 15
                    Does someone help respondent to prepare a hot meal
```

```
H27C 15
                    Does someone help respondent to shop for groceries
   H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
   H32 1 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
   H32_7_15
   H32_8_15
                    Respondent's relationship with person helping with IADL
   H33_1_15
                    Registration number of person helping with IADLs
   H33_2_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 3 15
   н33 4 15
                    Registration number of person helping with IADLs
   Н33 5 15
                    Registration number of person helping with IADLs
   H33 6 15
                    Registration number of person helping with IADLs
   H33 7 15
                    Registration number of person helping with IADLs
   H33 8 15
                    Registration number of person helping with IADLs
   H34 1 15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   Н34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34_5_15
                    Number of days the person helped during last month
   H34_6_15
                    Number of days the person helped during last month
   H34_7_15
                    Number of days the person helped during last month
   H34_8_15
                    Number of days the person helped during last month
   H35_1_15
H35_2_15
H35_3_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 4 15
                    Number of hours during those days that the person helpe
   н35 5 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 6 15
   H35 7 15
                    Number of hours during those days that the person helpe
   H35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C_18
                    Does someone help R to shop for groceries
   H28C_18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32 1 18
                    R's relationship with person helping with IADLs
   H32_2_18
H32_3_18
H33_1_18
                    R's relationship with person helping with IADLs
                    R's relationship with person helping with IADLs
                    Registration number of person helping with IADLs
   H33 2 18
                    Registration number of person helping with IADLs
   Н33 3 18
                    Registration number of person helping with IADLs
   H34 1 18
                    Number of days the person helped during last month
   H34 2 18
                    Number of days the person helped during last month
   H34 3 18
                    Number of days the person helped during last month
   Н35 1 18
                    Number of hours during those days that the person helpe
   H35_2_18
                    Number of hours during those days that the person helpe
   Н35 3 18
                    Number of hours during those days that the person helpe
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Instrumental Activities of Daily Living: Receives Informal Care from Relatives

Wave	Variable	Label	Туре
1	R1RIRCARE	rlrircare: w1 R receives informal care from relatives for IA	Categ
2	R2RIRCARE	r2rircare: w2 R receives informal care from relatives for IA	Categ
	R3RIRCARE	r3rircare: w3 R receives informal care from relatives for IA	Categ
	R4RIRCARE	r4rircare: w4 R receives informal care from relatives for IA	Categ
5	R5RIRCARE	r5rircare: w5 R receives informal care from relatives for IA	Categ
J	NUNTROARE	initiale. Wo k receives initial care from relactives for in	categ
1	S1RIRCARE	slrircare: wl S receives informal care from relatives for IA	Categ
2	S2RIRCARE	s2rircare: w2 S receives informal care from relatives for IA	Categ
3	S3RIRCARE	s3rircare: w3 S receives informal care from relatives for IA	Categ
4	S4RIRCARE	s4rircare: w4 S receives informal care from relatives for IA	Categ
5	S5RIRCARE	s5rircare: w5 S receives informal care from relatives for IA	Categ
J	DOTTITOTINE	bollicate. Wo b localized informat care from relatives for in	ouccg
1	R1RIRCAREN	rlrircaren: wl # relatives who help R with IADLs	Cont
2	R2RIRCAREN	r2rircaren: w2 # relatives who help R with IADLs	Cont
3	R3RIRCAREN	r3rircaren: w3 # relatives who help R with IADLs	Cont
4	R4RIRCAREN	r4rircaren: w4 # relatives who help R with IADLs	Cont
5	R5RIRCAREN	r5rircaren: w5 # relatives who help R with IADLs	Cont
1	SIRIRCAREN	slrircaren: w1 # relatives who help S with IADLs	Cont
2	S2RIRCAREN	s2rircaren: w2 # relatives who help S with IADLs	Cont
3	S3RIRCAREN	s3rircaren: w3 # relatives who help S with IADLs	Cont
4	S4RIRCAREN	s4rircaren: w4 # relatives who help S with IADLs	Cont
5	S5RIRCAREN	s5rircaren: w5 # relatives who help S with IADLs	Cont
1	R1RIRCAREDPM	rlrircaredpm: wl days/month relatives help R with IADLs	Cont
	R2RIRCAREDPM	r2rircaredpm: w2 days/month relatives help R with IADLs	Cont
	R3RIRCAREDPM	r3rircaredpm: w3 days/month relatives help R with IADLs	Cont
3 4	R4RIRCAREDPM	r4rircaredpm: w4 days/month relatives help R with IADLs	Cont
5	R4RIRCAREDPM R5RIRCAREDPM	r5rircaredpm: w5 days/month relatives help R with IADLs	
J	NJKIKCAKEDEM	initicatedpin. Wo days/month relatives help k with indus	Cont
1	S1RIRCAREDPM	s1rircaredpm: w1 days/month relatives help S with IADLs	Cont
2	S2RIRCAREDPM	s2rircaredpm: w2 days/month relatives help S with IADLs	Cont
3	S3RIRCAREDPM	s3rircaredpm: w3 days/month relatives help S with IADLs	Cont
4	S4RIRCAREDPM	s4rircaredpm: w4 days/month relatives help S with IADLs	Cont
5	S5RIRCAREDPM	s5rircaredpm: w5 days/month relatives help S with IADLs	Cont
1	R1RIRCAREDPMM	rlrircaredpmm: w1 R # relatives missing days of help for IAD	Cont
2	R2RIRCAREDPMM	r2rircaredpmm: w2 R # relatives missing days of help for IAD	Cont
3	R3RIRCAREDPMM	r3rircaredpmm: w3 R # relatives missing days of help for IAD	Cont
4	R4RIRCAREDPMM	r4rircaredpmm: w4 R # relatives missing days of help for IAD	Cont
5	R5RIRCAREDPMM	r5rircaredpmm: w5 R # relatives missing days of help for IAD	Cont
1	S1RIRCAREDPMM	slrircaredpmm: w1 S # relatives missing days of help for IAD	Cont
2	S2RIRCAREDPMM	s2rircaredpmm: w2 S # relatives missing days of help for IAD	Cont
3	S3RIRCAREDPMM S3RIRCAREDPMM	s3rircaredpmm: w2 S # relatives missing days of help for IAD	Cont
		s4rircaredpmm: w4 S # relatives missing days of help for IAD	
4	S4RIRCAREDPMM		Cont
5	S5RIRCAREDPMM	s5rircaredpmm: w5 S # relatives missing days of help for IAD	Cont
1	R1RIRCAREHR	rlrircarehr: wl hours/day relatives help R with IADLs	Cont
2	R2RIRCAREHR	r2rircarehr: w2 hours/day relatives help R with IADLs	Cont
	R3RIRCAREHR	r3rircarehr: w3 hours/day relatives help R with IADLs	Cont
	R4RIRCAREHR	r4rircarehr: w4 hours/day relatives help R with IADLs	Cont
5	R5RIRCAREHR	r5rircarehr: w5 hours/day relatives help R with IADLs	Cont
		<u> </u>	•
1	S1RIRCAREHR	slrircarehr: wl hours/day relatives help S with IADLs	Cont
2	S2RIRCAREHR	s2rircarehr: w2 hours/day relatives help S with IADLs	Cont
3	S3RIRCAREHR	s3rircarehr: w3 hours/day relatives help S with IADLs	Cont
4	S4RIRCAREHR	s4rircarehr: w4 hours/day relatives help S with IADLs	Cont
5	S5RIRCAREHR	s5rircarehr: w5 hours/day relatives help S with IADLs	Cont
		-	

1	R1RIRCAREHRM	r1rircarehrm:	w1	R	#	relatives	missing	hours	of	help	for	IAD	Cont
2	R2RIRCAREHRM	r2rircarehrm:	w2	R	#	relatives	missing	hours	of	help	for	IAD	Cont
3	R3RIRCAREHRM	r3rircarehrm:	wЗ	R	#	relatives	missing	hours	of	help	for	IAD	Cont
4	R4RIRCAREHRM	r4rircarehrm:	w4	R	#	relatives	missing	hours	of	help	for	IAD	Cont
5	R5RIRCAREHRM	r5rircarehrm:	w5	R	#	relatives	missing	hours	of	help	for	IAD	Cont
1	S1RIRCAREHRM	slrircarehrm:	w1	S	#	relatives	missing	hours	of	help	for	IAD	Cont
2	S2RIRCAREHRM	s2rircarehrm:	w2	S	#	relatives	missing	hours	of	help	for	IAD	Cont
3	S3RIRCAREHRM	s3rircarehrm:	wЗ	S	#	relatives	missing	hours	of	help	for	IAD	Cont
4	S4RIRCAREHRM	s4rircarehrm:	w4	S	#	relatives	missing	hours	of	help	for	IAD	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RIRCARE	1417	0.04	0.19	0.00	1.00
R2RIRCARE	1309	0.05	0.21	0.00	1.00
R3RIRCARE	1663	0.04	0.20	0.00	1.00
R4RIRCARE	1887	0.04	0.19	0.00	1.00
R5RIRCARE	1491	0.05	0.21	0.00	1.00
RORLINGIAL	1191	0.00	0.21	0.00	1.00
S1RIRCARE	950	0.01	0.12	0.00	1.00
S2RIRCARE	803	0.01	0.09	0.00	1.00
S3RIRCARE	931	0.01	0.11	0.00	1.00
S4RIRCARE	969	0.01	0.08	0.00	1.00
S5RIRCARE	638	0.01	0.10	0.00	1.00
R1RIRCAREN	1417	0.04	0.24	0.00	3.00
R2RIRCAREN	1309	0.06	0.27	0.00	3.00
R3RIRCAREN	1663	0.05	0.25	0.00	4.00
R4RIRCAREN	1887	0.04	0.24	0.00	3.00
R5RIRCAREN	1491	0.05	0.26	0.00	3.00
S1RIRCAREN	950	0.02	0.14	0.00	2.00
S2RIRCAREN	803	0.01	0.09	0.00	1.00
S3RIRCAREN	931	0.01	0.13	0.00	2.00
S4RIRCAREN	969	0.01	0.10	0.00	2.00
S5RIRCAREN	638	0.01	0.15	0.00	3.00
R1RIRCAREDPM	1417	0.95	5.99	0.00	90.00
R2RIRCAREDPM	1309	1.42	7.44	0.00	90.00
R3RIRCAREDPM	1663	0.90	5.67	0.00	90.00
R4RIRCAREDPM	1886	0.84	5.53	0.00	90.00
R5RIRCAREDPM	1491	1.04	5.72	0.00	72.00
RORLINGIMEDITI	1191	1.01	3.72	0.00	,2.00
S1RIRCAREDPM	950	0.36	3.57	0.00	60.00
S2RIRCAREDPM	803	0.16	1.95	0.00	30.00
S3RIRCAREDPM	931	0.28	3.05	0.00	60.00
S4RIRCAREDPM	969	0.17	2.56	0.00	60.00
S5RIRCAREDPM	638	0.08	1.23	0.00	30.00
R1RIRCAREDPMM	1417	0.00	0.00	0.00	0.00
R2RIRCAREDPMM	1309	0.00	0.00	0.00	0.00
R3RIRCAREDPMM	1663	0.00	0.00	0.00	0.00
R4RIRCAREDPMM	1887	0.00	0.02	0.00	1.00
R5RIRCAREDPMM	1491	0.00	0.00	0.00	0.00
S1RIRCAREDPMM	950	0.00	0.00	0.00	0.00
S2RIRCAREDPMM	803	0.00	0.00	0.00	0.00
S3RIRCAREDPMM	931	0.00	0.00	0.00	0.00
S4RIRCAREDPMM	969	0.00	0.00	0.00	0.00
S5RIRCAREDPMM	638	0.00	0.00	0.00	0.00

R1RIRCAREHR	1417	0.25	1.89	0.00	25.00
R2RIRCAREHR	1309	0.25	1.74	0.00	36.00
R3RIRCAREHR	1660	0.29	2.12	0.00	39.00
R4RIRCAREHR	1886	0.18	1.32	0.00	23.00
R5RIRCAREHR	1490	0.23	1.76	0.00	30.00
S1RIRCAREHR	950	0.17	1.75	0.00	25.00
S2RIRCAREHR	803	0.05	0.55	0.00	10.00
S3RIRCAREHR	931	0.12	1.46	0.00	24.00
S4RIRCAREHR	969	0.05	0.82	0.00	21.00
S5RIRCAREHR	638	0.07	1.24	0.00	30.00
R1RIRCAREHRM	1417	0.00	0.00	0.00	0.00
R2RIRCAREHRM	1309	0.00	0.00	0.00	0.00
R3RIRCAREHRM	1663	0.00	0.04	0.00	1.00
R4RIRCAREHRM	1887	0.00	0.02	0.00	1.00
R5RIRCAREHRM	1491	0.00	0.05	0.00	2.00
S1RIRCAREHRM	950	0.00	0.00	0.00	0.00
S2RIRCAREHRM	803	0.00	0.00	0.00	0.00
S3RIRCAREHRM	931	0.00	0.00	0.00	0.00
S4RIRCAREHRM	969	0.00	0.00	0.00	0.00
S5RIRCAREHRM	638	0.00	0.00	0.00	0.00

Categorical Variable Codes

Value	R1RIRCARE	R2RIRCARE	R3RIRCARE	R4RIRCARE	R5RIRCARE
.d:DK			1	5	
.h:no help received	267	204	658	605	406
.m:Missing	38	30		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	1364	1246	1596	1820	1421
1.Yes	53	63	67	67	70
Value	S1RIRCARE	S2RIRCARE	S3RIRCARE	S4RIRCARE	S5RIRCARE
.d:DK			1	5	
.h:no help received	154	202	487	406	205
.m:Missing	13	6		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	937	796	919	962	632
1.Yes	13	7	12	7	6

How Constructed

The following variables indicate whether any of the respondent's relatives help the respondent with any IADL needs. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest

level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any IADL, and are coded as special missing value .h if the respondent reports difficulty with an IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRIRCARE, RWRIRCAREN, RWRIRCAREDPM, RWRIRCAREDPMM, RWRIRCAREHR, and RWRIRCAREHRM include help from the respondent's parent or other relative.

RWRIRCARE indicates whether any of the respondent's relatives help the respondent with IADL needs. RWRIRCAREN indicates the number of the respondent's relatives who help the respondent with IADL needs. RWRIRCARE is coded as 0 if none of the respondent's relatives help the respondent with IADLS; and is coded as 1 if at least one of the respondent's relatives help the respondent with IADLS.

RWRIRCAREDPM indicates the number of total days per month the respondent's relatives help the respondent with IADL needs. If the respondent reports receiving help every day from that relative, then a value of 30 is assumed. RWRIRCAREDPM is the sum of days per month for all relative helpers, and so values can be over 30 days. RWRIRCAREDPM is calculated as long as there is one non-missing value. RWRIRCAREDPM is assigned a value of 0 if the respondent did not receive help from any relatives. RWRIRCAREDPMM indicates the number of relatives who helped the respondent for whom no value of days was reported and was not accounted for in RWRIRCAREDPM. RWRIRCAREDPMM is assigned special missing value .m if the respondent was not helped by any relatives.

RWRIRCAREHR indicates the number of hours per day the respondent's relatives help the respondent with IADL needs. Respondents are asked, on days their relatives help, how many hours per day that is. If the respondent reports less than an hour for that relative, then a 1 is assumed. RWRIRCAREHR is the sum of hours per day for all relative helpers, and so values can be over 24 hours. RWRIRCAREHR is calculated as long as there is one non-missing value. RWRIRCAREHR is assigned a value of 0 if the respondent did not receive help from any relatives. RWRIRCAREHRM indicates the number of relatives who helped the respondent for whom no value of hours was reported and was not accounted for in RWRIRCAREHR. RWRIRCAREHRM is assigned special missing value .m if the respondent was not helped by any relatives.

SWRIRCAREN, SWRIRCAREN, SWRIRCAREDPM, and SWRIRCAREHR indicate whether the respondent's current wave's spouse receives help from relatives, the number, and the frequency with which, and their values are taken from RWRIRCARE, RWRIRCAREN, RWRIRCAREDPM, and RWRIRCAREHR. SWRIRCAREDPMM and SWRIRCAREHRM indicate the number of relatives who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRIRCAREDPMM and RWRIRCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRIRCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRIRCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

```
Wave 1:
   H26 3
                    spouse helps with hot meal
   H26 4
                    someone helps with hot meal
   H27 3
                    spouse helps with shopping
   H27 4
                    someone helps with shopping
   H28 3
                  spouse helps with taking medication
   H28 4
                  someone helps with taking medication
   H29 3
                   spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 2:
   H26D
                   spouse helps
   H26E
                    additional person helps
                   spouse helps
   H27D
   H27E
                   additional person helps
   H28D
                   spouse helps
                    additional person helps
   H28E
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 3:
   H26C 12
                   Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32 1 12
                    Relationship with helper for IADLs
   H32 2 12
                    Relationship with helper for IADLs
   Н32 3 12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32_5_12
                    Relationship with helper for IADLs
   H32_6_12
                    Relationship with helper for IADLs
   H32_7_12
                    Relationship with helper for IADLs
   H32_8_12
                    Relationship with helper for IADLs
   Н33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
   H33 3 12
                    Registration number of helper for IADLs
   H33 4 12
                    Registration number of helper for IADLs
   H33 5 12
                    Registration number of helper for IADLs
   H33 6 12
                    Registration number of helper for IADLs
   H33 7 12
                    Registration number of helper for IADLs
   H33 8 12
                    Registration number of helper for IADLs
   H34 1 12
                    Number of days (name) helped last month
   H34_2_12
                    Number of days (name) helped last month
   H34_3_12
                    Number of days (name) helped last month
   H34_4_12
                    Number of days (name) helped last month
   H34_5_12
                    Number of days (name) helped last month
   H34_6_12
H34_7_12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 8 12
                   Number of days (name) helped last month
   H35 1 12
                   Number of hours during those days (NAME) helped
   H35 2 12
                   Number of hours during those days (NAME) helped
   H35 3 12
                   Number of hours during those days (NAME) helped
   H35 4 12
                   Number of hours during those days (NAME) helped
   H35 5 12
                   Number of hours during those days (NAME) helped
   H35 6 12
                    Number of hours during those days (NAME) helped
   H35 7 12
                    Number of hours during those days (NAME) helped
   H35 8 12
                   Number of hours during those days (NAME) helped
Wave 4:
   H26C 15
                   Does someone help respondent to prepare a hot meal
```

```
H27C 15
                    Does someone help respondent to shop for groceries
   H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
   H32 \overline{1} 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
   H32_7_15
   H32_8_15
                    Respondent's relationship with person helping with IADL
   H33_1_15
                    Registration number of person helping with IADLs
   H33_2_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 3 15
   н33 4 15
                    Registration number of person helping with IADLs
   Н33 5 15
                    Registration number of person helping with IADLs
   H33 6 15
                    Registration number of person helping with IADLs
   H33 7 15
                    Registration number of person helping with IADLs
   H33 8 15
                    Registration number of person helping with IADLs
   H34 1 15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   Н34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34_5_15
                    Number of days the person helped during last month
   H34_6_15
                    Number of days the person helped during last month
   H34_7_15
                    Number of days the person helped during last month
   H34_8_15
                    Number of days the person helped during last month
   H35_1_15
H35_2_15
H35_3_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 4 15
                    Number of hours during those days that the person helpe
   н35 5 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 6 15
   H35 7 15
                    Number of hours during those days that the person helpe
   H35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C_18
                    Does someone help R to shop for groceries
   H28C_18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32 1 18
                    R's relationship with person helping with IADLs
   H32_2_18
H32_3_18
H33_1_18
                    R's relationship with person helping with IADLs
                    R's relationship with person helping with IADLs
                    Registration number of person helping with IADLs
   H33 2 18
                    Registration number of person helping with IADLs
   Н33 3 18
                    Registration number of person helping with IADLs
   H34 1 18
                    Number of days the person helped during last month
   H34 2 18
                    Number of days the person helped during last month
   H34 3 18
                    Number of days the person helped during last month
   Н35 1 18
                    Number of hours during those days that the person helpe
   H35_2_18
                    Number of hours during those days that the person helpe
   Н35 3 18
                    Number of hours during those days that the person helpe
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Instrumental Activities of Daily Living: Receives Informal Care from Other Individuals

Wave	Variable	Label	Туре
1	R1RIFCARE	rlrifcare: w1 R receives informal care from non-relatives fo	Categ
2	R2RIFCARE	r2rifcare: w2 R receives informal care from non-relatives fo	Categ
3	R3RIFCARE	r3rifcare: w3 R receives informal care from non-relatives fo	Categ
4	R4RIFCARE	r4rifcare: w4 R receives informal care from non-relatives fo	Categ
5	R5RIFCARE	r5rifcare: w5 R receives informal care from non-relatives fo	Categ
J	NONTECANE	idilicate. Wd K receives initormal care from non relactives to	categ
1	S1RIFCARE	slrifcare: wl S receives informal care from non-relatives fo	Categ
2	S2RIFCARE	s2rifcare: w2 S receives informal care from non-relatives fo	Categ
3	S3RIFCARE	s3rifcare: w3 S receives informal care from non-relatives fo	_
4			Categ
	S4RIFCARE	s4rifcare: w4 S receives informal care from non-relatives fo	Categ
5	S5RIFCARE	s5rifcare: w5 S receives informal care from non-relatives fo	Categ
1	D1DTEGADEN	uluifacuar	C = == ±
1	R1RIFCAREN	r1rifcaren: w1 # non-relatives who help R with IADLs	Cont
2	R2RIFCAREN	r2rifcaren: w2 # non-relatives who help R with IADLs	Cont
3	R3RIFCAREN	r3rifcaren: w3 # non-relatives who help R with IADLs	Cont
4	R4RIFCAREN	r4rifcaren: w4 # non-relatives who help R with IADLs	Cont
5	R5RIFCAREN	r5rifcaren: w5 # non-relatives who help R with IADLs	Cont
1	S1RIFCAREN	slrifcaren: w1 # non-relatives who help S with IADLs	Cont
2	S2RIFCAREN	s2rifcaren: w2 # non-relatives who help S with IADLs	Cont
3	S3RIFCAREN	s3rifcaren: w3 # non-relatives who help S with IADLs	Cont
4	S4RIFCAREN	s4rifcaren: w4 # non-relatives who help S with IADLs	Cont
5	S5RIFCAREN	s5rifcaren: w5 # non-relatives who help S with IADLs	Cont
1	R1RIFCAREDPM	rlrifcaredpm: w1 days/month non-relatives help R with IADLs	Cont
2	R2RIFCAREDPM	r2rifcaredpm: w2 days/month non-relatives help R with IADLs	Cont
3	R3RIFCAREDPM	r3rifcaredpm: w3 days/month non-relatives help R with IADLs	Cont
4	R4RIFCAREDPM	r4rifcaredpm: w4 days/month non-relatives help R with IADLs	Cont
5	R5RIFCAREDPM	r5rifcaredpm: w5 days/month non-relatives help R with IADLs	Cont
		• •	
1	S1RIFCAREDPM	slrifcaredpm: w1 days/month non-relatives help S with IADLs	Cont
2	S2RIFCAREDPM	s2rifcaredpm: w2 days/month non-relatives help S with IADLs	Cont
3	S3RIFCAREDPM	s3rifcaredpm: w3 days/month non-relatives help S with IADLs	Cont
4	S4RIFCAREDPM	s4rifcaredpm: w4 days/month non-relatives help S with IADLs	Cont
5	S5RIFCAREDPM	s5rifcaredpm: w5 days/month non-relatives help S with IADLs	Cont
Ü		collidatoup, no auto, monon non rotaotros notp s niton india	00110
1	R1RIFCAREDPMM	rlrifcaredpmm: w1 R # non-relatives missing days of help for	Cont
2	R2RIFCAREDPMM	r2rifcaredpmm: w2 R # non-relatives missing days of help for	Cont
3	R3RIFCAREDPMM	r3rifcaredpmm: w3 R # non-relatives missing days of help for	Cont
4	R4RIFCAREDPMM	r4rifcaredpmm: w4 R # non-relatives missing days of help for	Cont
5	R5RIFCAREDPMM	r5rifcaredpmm: w5 R # non-relatives missing days of help for	Cont
9	NOINII CIMADITHI	Total careapana. Wo k # non relatives massing days or neip for	COIIC
1	S1RIFCAREDPMM	slrifcaredpmm: w1 S # non-relatives missing days of help for	Cont
2	S2RIFCAREDPMM	s2rifcaredpmm: w2 S # non-relatives missing days of help for	Cont
3	S3RIFCAREDPMM	s3rifcaredpmm: w3 S # non-relatives missing days of help for	Cont
4	S4RIFCAREDPMM	s4rifcaredpmm: w4 S # non-relatives missing days of help for	Cont
5	S5RIFCAREDPMM	s5rifcaredpmm: w5 S # non-relatives missing days of help for	Cont
J	SURIFCAREDFIIM	solitical edphini. Wo s # hon-relatives missing days of help for	COIIC
1	R1RIFCAREHR	rlrifcarehr: wl hours/day non-relatives help R with IADLs	Cont
2	R2RIFCAREHR	r2rifcarehr: w2 hours/day non-relatives help R with IADLs	Cont
3	R3RIFCAREHR	r3rifcarehr: w3 hours/day non-relatives help R with IADLs	Cont
4	R4RIFCAREHR	r4rifcarehr: w4 hours/day non-relatives help R with IADLs	Cont
5	R5RIFCAREHR	r5rifcarehr: w5 hours/day non-relatives help R with IADLs	Cont
1	S1RIFCAREHR	s1rifcarehr: w1 hours/day non-relatives help S with IADLs	Cont
2	S2RIFCAREHR	s2rifcarehr: w2 hours/day non-relatives help S with IADLs	Cont
3	S3RIFCAREHR	s3rifcarehr: w3 hours/day non-relatives help S with IADLs	Cont
4	S4RIFCAREHR	s4rifcarehr: w4 hours/day non-relatives help S with IADLs	Cont
5	S5RIFCAREHR	s5rifcarehr: w5 hours/day non-relatives help S with IADLs	Cont

	1	R1RIFCAREHRM	r1rifcarehrm:	w1	R	#	non-relatives	missing	hours	of	help	for	Cont
2	2	R2RIFCAREHRM	r2rifcarehrm:	w2	R	#	non-relatives	missing	hours	of	help	for	Cont
	3	R3RIFCAREHRM	r3rifcarehrm:	wЗ	R	#	non-relatives	missing	hours	of	help	for	Cont
4	4	R4RIFCAREHRM	r4rifcarehrm:	w4	R	#	non-relatives	missing	hours	of	help	for	Cont
	5	R5RIFCAREHRM	r5rifcarehrm:	w5	R	#	non-relatives	missing	hours	of	help	for	Cont
	1	S1RIFCAREHRM	s1rifcarehrm:	w1	S	#	non-relatives	missing	hours	of	help	for	Cont
2	2	S2RIFCAREHRM	s2rifcarehrm:	w2	S	#	non-relatives	missing	hours	of	help	for	Cont
	3	S3RIFCAREHRM	s3rifcarehrm:	wЗ	S	#	non-relatives	missing	hours	of	help	for	Cont
4	4	S4RIFCAREHRM	s4rifcarehrm:	w4	S	#	non-relatives	missing	hours	of	help	for	Cont
Į	5	S5RIFCAREHRM	s5rifcarehrm:	w5	S	#	non-relatives	missing	hours	of	help	for	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RIFCARE	1417	0.03	0.16	0.00	1.00
R2RIFCARE	1309	0.03	0.18	0.00	1.00
R3RIFCARE	1663	0.03	0.18	0.00	1.00
R4RIFCARE	1887	0.03	0.16	0.00	1.00
R5RIFCARE	1491	0.05	0.23	0.00	1.00
ROTELL OTHER	1101	0.00	0.20	0.00	1.00
S1RIFCARE	950	0.01	0.09	0.00	1.00
S2RIFCARE	803	0.02	0.14	0.00	1.00
S3RIFCARE	931	0.01	0.11	0.00	1.00
S4RIFCARE	969	0.01	0.09	0.00	1.00
S5RIFCARE	638	0.05	0.21	0.00	1.00
R1RIFCAREN	1417	0.03	0.22	0.00	4.00
R2RIFCAREN	1309	0.03	0.18	0.00	1.00
R3RIFCAREN	1663	0.04	0.21	0.00	4.00
R4RIFCAREN	1887	0.03	0.17	0.00	2.00
R5RIFCAREN	1491	0.06	0.26	0.00	3.00
S1RIFCAREN	950	0.01	0.11	0.00	2.00
S2RIFCAREN	803	0.02	0.14	0.00	1.00
S3RIFCAREN	931	0.01	0.11	0.00	1.00
S4RIFCAREN	969	0.01	0.09	0.00	1.00
S5RIFCAREN	638	0.05	0.24	0.00	3.00
R1RIFCAREDPM	1417	0.76	5.83	0.00	120.00
R2RIFCAREDPM	1309	0.76	4.58	0.00	30.00
R3RIFCAREDPM	1663	0.69	4.36	0.00	42.00
R4RIFCAREDPM	1886	0.38	3.05	0.00	34.00
R5RIFCAREDPM	1485	1.20	6.04	0.00	60.00
S1RIFCAREDPM	950	0.17	2.29	0.00	46.00
S2RIFCAREDPM	803	0.42	3.41	0.00	30.00
S3RIFCAREDPM	931	0.15	1.82	0.00	30.00
S4RIFCAREDPM	969	0.14	1.95	0.00	30.00
S5RIFCAREDPM	636	1.07	5.44	0.00	30.00
R1RIFCAREDPMM	1417	0.00	0.00	0.00	0.00
R2RIFCAREDPMM	1309	0.00	0.00	0.00	0.00
R3RIFCAREDPMM	1663	0.00	0.00	0.00	0.00
R4RIFCAREDPMM	1887	0.00	0.02	0.00	1.00
R5RIFCAREDPMM	1491	0.00	0.06	0.00	1.00
S1RIFCAREDPMM	950	0.00	0.00	0.00	0.00
S2RIFCAREDPMM	803	0.00	0.00	0.00	0.00
S3RIFCAREDPMM	931	0.00	0.00	0.00	0.00
S4RIFCAREDPMM	969	0.00	0.00	0.00	0.00
S5RIFCAREDPMM	638	0.00	0.06	0.00	1.00

R1RIFCAREHR	1417	0.10	0.93	0.00	24.00
R2RIFCAREHR	1309	0.11	0.83	0.00	12.00
R3RIFCAREHR	1662	0.14	1.25	0.00	24.00
R4RIFCAREHR	1886	0.11	0.98	0.00	24.00
R5RIFCAREHR	1485	0.18	1.20	0.00	24.00
S1RIFCAREHR	950	0.03	0.39	0.00	10.00
S2RIFCAREHR	803	0.07	0.66	0.00	12.00
S3RIFCAREHR	930	0.04	0.49	0.00	10.00
S4RIFCAREHR	969	0.03	0.43	0.00	12.00
S5RIFCAREHR	636	0.19	1.40	0.00	24.00
R1RIFCAREHRM	1417	0.00	0.00	0.00	0.00
R2RIFCAREHRM	1309	0.00	0.00	0.00	0.00
R3RIFCAREHRM	1663	0.00	0.02	0.00	1.00
R4RIFCAREHRM	1887	0.00	0.02	0.00	1.00
R5RIFCAREHRM	1491	0.00	0.06	0.00	1.00
S1RIFCAREHRM	950	0.00	0.00	0.00	0.00
S2RIFCAREHRM	803	0.00	0.00	0.00	0.00
S3RIFCAREHRM	931	0.00	0.03	0.00	1.00
S4RIFCAREHRM	969	0.00	0.00	0.00	0.00
S5RIFCAREHRM	638	0.00	0.06	0.00	1.00

Categorical Variable Codes

Value	R1RIFCARE	R2RIFCARE	R3RIFCARE	R4RIFCARE	R5RIFCARE
.d:DK			1	5	
.h:no help received	267	204	658	605	406
.m:Missing	38	30		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	1378	1264	1605	1837	1409
1.Yes	39	45	58	50	82
Value	S1RIFCARE	S2RIFCARE	S3RIFCARE	S4RIFCARE	S5RIFCARE
.d:DK			1	5	
.h:no help received	154	202	487	406	205
.m:Missing	13	6		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	942	787	919	961	608
1.Yes	8	16	12	8	30

How Constructed

The following variables indicate whether any non-relative helps the respondent with any IADL needs. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of

care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any IADL, and are coded as special missing value .h if the respondent reports difficulty with an IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRIFCARE, RWRIFCAREN, RWRIFCAREDPM, RWRIFCAREDPMM, RWRIFCAREHR, and RWRIFCAREHRM include help from another person (not their spouse, child, child-in-law, grandchild, parent, other relative, or paid person).

RWRIFCARE indicates whether any of the respondent's non-relatives help the respondent with IADL needs. RWRIFCAREN indicates the number of the respondent's non-relatives who help the respondent with IADL needs. RWRIRCARE is coded as 0 if none of the respondent's non-relatives help the respondent with IADLS; and is coded as 1 if at least one of the respondent's non-relatives help the respondent with IADLS.

RWRIFCAREDPM indicates the number of total days per month the respondent's non-relatives help the respondent with IADL needs. If the respondent reports receiving help every day from that non-relative, then a value of 30 is assumed. RWRIFCAREDPM is the sum of days per month for all non-relative helpers, and so values can be over 30 days. RWRIFCAREDPM is calculated as long as there is one non-missing value. RWRIFCAREDPM is assigned a value of 0 if the respondent did not receive help from any non-relatives. RWRIFCAREDPMM indicates the number of non-relatives who helped the respondent for whom no value of days was reported and was not accounted for in RWRIFCAREDPM. RWRIFCAREDPMM is assigned special missing value .m if the respondent was not helped by any non-relatives.

RWRIFCAREHR indicates the number of hours per day the respondent's non-relatives help the respondent with IADL needs. Respondents are asked, on days their non-relatives help, how many hours per day that is. If the respondent reports less than an hour for that non-relative, then a 1 is assumed. RWRIFCAREHR is the sum of hours per day for all non-relative helpers, and so values can be over 24 hours. RWRIFCAREHR is calculated as long as there is one non-missing value. RWRIFCAREHR is assigned a value of 0 if the respondent did not receive help from any non-relatives. RWRIFCAREHRM indicates the number of non-relatives who helped the respondent for whom no value of hours was reported and was not accounted for in RWRIFCAREHR. RWRIFCAREHRM is assigned special missing value .m if the respondent was not helped by any non-relatives.

SwRIFCAREN, SwRIFCAREN, SwRIFCAREDPM, and SwRIFCAREHR indicate whether the respondent's current wave's spouse receives help from non-relatives, the number, and the frequency with which, and their values are taken from RwRIFCARE, RwRIFCAREN, RwRIFCAREDPM, and RwRIFCAREHR. SwRIFCAREDPMM and SwRIFCAREHRM indicate the number of non-relatives who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RwRIFCAREDPMM and RwRIFCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRIFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRIFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

```
Wave 1:
    H26 3
                    spouse helps with hot meal
   H26 4
                    someone helps with hot meal
   H27<sup>3</sup>
                    spouse helps with shopping
   H27 4
                    someone helps with shopping
   H28 3
                    spouse helps with taking medication
    H28 4
                    someone helps with taking medication
    H29 3
                    spouse helps with managing money
    H29 4
                    someone helps with managing money
Wave 2:
                    spouse helps
    H26D
                    additional person helps
    H26E
    H27D
                    spouse helps
    H27E
                    additional person helps
                    spouse helps
    H28D
    H28E
                    additional person helps
    H29D
                    spouse helps
   H29E
                    additional person helps
Wave 3:
   H26C 12
                    Does anyone help you prepare a hot meal
    H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32 1 12
                    Relationship with helper for IADLs
   H32 2 12
                    Relationship with helper for IADLs
   H32 3 12
                    Relationship with helper for IADLs
   H32_4_12
                    Relationship with helper for IADLs
    H32_5_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
    H32_6_12
   H32_7_12
H32_8_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
    Н33 1 12
                    Registration number of helper for IADLs
    н33 2 12
                    Registration number of helper for ADLs
    H33 3 12
                    Registration number of helper for IADLs
    Н33 4 12
                    Registration number of helper for IADLs
    H33 5 12
                    Registration number of helper for IADLs
    H33 6 12
                    Registration number of helper for IADLs
    H33 7 12
                    Registration number of helper for IADLs
    H33 8 12
                    Registration number of helper for IADLs
    H34_1_12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
    H34_2_12
    H34_3_12
                    Number of days (name) helped last month
    H34_4_12
                    Number of days (name) helped last month
    H34_5_12
                    Number of days (name) helped last month
   Н34 6 12
                    Number of days (name) helped last month
   H34<sup>7</sup>12
                    Number of days (name) helped last month
   H34 8 12
                    Number of days (name) helped last month
   H35 1 12
                    Number of hours during those days (NAME) helped
   H35 2 12
                    Number of hours during those days (NAME) helped
   H35 3 12
                    Number of hours during those days (NAME) helped
   H35 4 12
                    Number of hours during those days (NAME) helped
    H35 5 12
                    Number of hours during those days (NAME) helped
    H35 6 12
                    Number of hours during those days (NAME) helped
    Н35 7 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
    H35 8 12
Wave 4:
```

```
H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C 15
                    Does someone help respondent to shop for groceries
   H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
   H32 1 15
                    Respondent's relationship with person helping with IADL
   H32 2 15
                    Respondent's relationship with person helping with IADL
   H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
   H32_6_15
   H32_7_15
                    Respondent's relationship with person helping with IADL
   H32_8_15
                    Respondent's relationship with person helping with IADL
                    Registration number of person helping with IADLs
   H33_1_15
   H33_2_15
H33_3_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 4 15
                    Registration number of person helping with IADLs
   н33 5 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 6 15
                    Registration number of person helping with IADLs
   н33 7 15
   H33 8 15
                    Registration number of person helping with IADLs
   H34 1 15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   H34 3 15
                    Number of days the person helped during last month
   H34_4 15
                    Number of days the person helped during last month
   H34_5_15
                    Number of days the person helped during last month
   H34_6_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H34_7_15
   H34 8 15
                    Number of days the person helped during last month
   H35 1 15
                    Number of hours during those days that the person helpe
   Н35 2 15
                    Number of hours during those days that the person helpe
   H35 3 15
                    Number of hours during those days that the person helpe
   H35 4 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 5 15
   H35 6 15
                    Number of hours during those days that the person helpe
    H35 7 15
                    Number of hours during those days that the person helpe
   Н35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C_18
                    Does someone help R to shop for groceries
   H28C_18
                    Does someone help R to take medications
                    Does someone help R to manage his/her money
   H29C 18
   H32 1 18
                    R's relationship with person helping with IADLs
   H32_2_18
H32_3_18
                    R's relationship with person helping with IADLs
                    R's relationship with person helping with IADLs
   н33 1 18
                    Registration number of person helping with IADLs
   Н33 2 18
                    Registration number of person helping with IADLs
   н33 3 18
                    Registration number of person helping with IADLs
   H34 1 18
                    Number of days the person helped during last month
   H34 2 18
                    Number of days the person helped during last month
   Н34 3 18
                    Number of days the person helped during last month
   H35_1_18
                    Number of hours during those days that the person helpe
   H35 2 18
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   Н35 3 18
```

Instrumental Activities of Daily Living: Whether Receives Any Formal Care

Wave	Variable	Label									Type
1	R1RIFAANY	rlrifaany:	w1	R	receives	any	formal	care	for	IADLs	Categ
2	R2RIFAANY	r2rifaany:	w2	R	receives	any	formal	care	for	IADLs	Categ
3	R3RIFAANY	r3rifaany:	wЗ	R	receives	any	formal	care	for	IADLs	Categ
4	R4RIFAANY	r4rifaany:	w4	R	receives	any	formal	care	for	IADLs	Categ
5	R5RIFAANY	r5rifaany:	w5	R	receives	any	formal	care	for	IADLs	Categ
1	S1RIFAANY	s1rifaany:	w1	S	receives	any	formal	care	for	IADLs	Categ
2	S2RIFAANY	s2rifaany:	w2	S	receives	any	formal	care	for	IADLs	Categ
3	S3RIFAANY	s3rifaany:	wЗ	S	receives	any	formal	care	for	IADLs	Categ
4	S4RIFAANY	s4rifaany:	w4	S	receives	any	formal	care	for	IADLs	Categ
5	S5RIFAANY	s5rifaany:	w5	S	receives	any	formal	care	for	IADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RIFAANY	1684	0.02	0.14	0.00	1.00
R2RIFAANY	1513	0.03	0.16	0.00	1.00
R3RIFAANY	2321	0.02	0.13	0.00	1.00
R4RIFAANY	2492	0.02	0.13	0.00	1.00
R5RIFAANY	1897	0.03	0.17	0.00	1.00
S1RIFAANY	1104	0.01	0.09	0.00	1.00
S2RIFAANY	1005	0.01	0.11	0.00	1.00
S3RIFAANY	1418	0.01	0.10	0.00	1.00
S4RIFAANY	1375	0.00	0.07	0.00	1.00
SSRIFAANY	843	0.02	0.16	0 - 0 0	1.00

Categorical Variable Codes

Value	R1RIFAANY	R2RIFAANY	R3RIFAANY	R4RIFAANY	R5RIFAANY
.d:DK			1	5	
.m:Missing	38	30		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	1649	1471	2281	2449	1840
1.Yes	35	42	40	43	57
Value	S1RIFAANY	S2RIFAANY	S3RIFAANY	S4RIFAANY	S5RIFAANY
.d:DK			1	5	
.m:Missing	13	6		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	1094	992	1403	1369	822
1.Yes	10	13	15	6	21

How Constructed

RWRIFAANY indicates whether the respondent receives any informal care for difficulties with instrumental activities of daily living (IADL). The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The following relationship is considered to provide formal care: paid person.

Please note that for each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

RWRIFAANY is assigned a value of 0 if the respondent has difficulty with at least one IADL but receives no help with the activity from a formal caregiver, or does not receive any help at all. RWRIFAANY is assigned a value of 1 if the respondent has difficulty with at least one IADL and a formal caregiver helps with at least one of the activities. RWRIFAANY is assigned special missing value .x if the respondent has no difficulty with any IADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RWRIFAANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRIFAANY indicates whether the respondent's current wave's spouse receives any formal care for difficulties with IADLs, and its values are taken from RwRIFAANY. In addition to the special missing codes employed by RwRIFAANY, SwRIFAANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible. Please note that the Harmonized HRS includes categories for paid formal helpers and unpaid formal helpers, while the Harmonized MHAS only includes categories for paid formal helpers.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, RwRIFAANY in the Harmonized HRS also includes help using the telephone, whereas RwRIFAANY in the Harmonized MHAS does not include help using the telephone.

Wave 1:	
н26_3	spouse helps with hot meal
H26_4	someone helps with hot meal
H27_3	spouse helps with shopping
H27_4	someone helps with shopping
H28_3	spouse helps with taking medication
H28 <u>4</u>	someone helps with taking medication
H29_3	spouse helps with managing money
H29_4	someone helps with managing money
Wave 1 Helper:	
Н32	kinship of helper
Н33	roster number of helper
Wave 2:	
H26D	spouse helps
H26E	additional person helps
H27D	spouse helps
H27E	additional person helps
H28D	spouse helps

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H28E
                    additional person helps
    H29D
                    spouse helps
    H29E
                    additional person helps
Wave 2 Helper:
    H32
                    relationship
    Н33
                    registration number
Wave 3:
    H26C 12
                    Does anyone help you prepare a hot meal
    H27C 12
                    Does anyone help you shop for groceries
    H28C_12
                    Does anyone help you take medications
   H29C_12
                    Does anyone one help you manage your money
    H32_1_12
                    Relationship with helper for IADLs
    H32_2_12
                    Relationship with helper for IADLs
   H32_3_12
H32_4_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
   H32<sup>-5</sup>12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32 7 12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   Н33 2 12
                    Registration number of helper for ADLs
   Н33 3 12
                    Registration number of helper for IADLs
   H33 4 12
                    Registration number of helper for IADLs
   Н33 5 12
                    Registration number of helper for IADLs
   H33_6_12
                    Registration number of helper for IADLs
    H33_7_12
                    Registration number of helper for IADLs
   H33 8_12
                    Registration number of helper for IADLs
Wave 4:
    H26C 15
                    Does someone help respondent to prepare a hot meal
    H27C 15
                    Does someone help respondent to shop for groceries
    H28C 15
                    Does someone help respondent to take medications
    H29C 15
                    Does someone help respondent to manage his/her money
    H32 1 15
                    Respondent's relationship with person helping with IADL
    H32 2 15
                    Respondent's relationship with person helping with IADL
    H32 3 15
                    Respondent's relationship with person helping with IADL
    H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 6 15
   H32_7_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
    H32_8_15
   H33_1_15
H33_2_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
    н33 3 15
                    Registration number of person helping with IADLs
   н33 4 15
                    Registration number of person helping with IADLs
   Н33 5 15
                    Registration number of person helping with IADLs
   Н33 6 15
                    Registration number of person helping with IADLs
    н33 7 15
                    Registration number of person helping with IADLs
    Н33 8 15
                    Registration number of person helping with IADLs
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
    H27C_18
                    Does someone help R to shop for groceries
    H28C 18
                    Does someone help R to take medications
                    Does someone help R to manage his/her money
    H29C 18
    H32_1_18
                    R's relationship with person helping with IADLs
    H32_2_18
                    R's relationship with person helping with IADLs
   H32_3_18
                    R's relationship with person helping with IADLs
   H33_1_18
H33_2_18
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
    н33 3 18
                    Registration number of person helping with IADLs
```

Instrumental Activities of Daily Living: Receives Formal Care from Paid Professional

Wave	Variable	Label	Туре
1	R1RIPFCARE	rlripfcare: w1 R receives formal care from paid professional	Categ
2	R2RIPFCARE	r2ripfcare: w2 R receives formal care from paid professional	Categ
3	R3RIPFCARE	r3ripfcare: w3 R receives formal care from paid professional	Categ
4	R4RIPFCARE	r4ripfcare: w4 R receives formal care from paid professional	Categ
5	R5RIPFCARE	r5ripfcare: w5 R receives formal care from paid professional	Categ
Ü	110111111111111111111111111111111111111	Totapada . No il roccivos roimar caro irom para professionar	oaccg
1	S1RIPFCARE	slripfcare: w1 S receives formal care from paid professional	Categ
2	S2RIPFCARE	s2ripfcare: w2 S receives formal care from paid professional	Categ
3	S3RIPFCARE	s3ripfcare: w3 S receives formal care from paid professional	Categ
4	S4RIPFCARE	s4ripfcare: w4 S receives formal care from paid professional	Categ
5	S5RIPFCARE	s5ripfcare: w5 S receives formal care from paid professional	Categ
1	R1RIPFCAREN	rlripfcaren: w1 # paid professionals who help R with IADLs	Cont
2	R2RIPFCAREN	r2ripfcaren: w2 # paid professionals who help R with IADLs	Cont
3	R3RIPFCAREN	r3ripfcaren: w3 # paid professionals who help R with IADLs	Cont
4	R4RIPFCAREN	r4ripfcaren: w4 # paid professionals who help R with IADLs	Cont
5	R5RIPFCAREN	r5ripfcaren: w5 # paid professionals who help R with IADLs	Cont
1	S1RIPFCAREN	slripfcaren: w1 # paid professionals who help S with IADLs	Cont
2	S2RIPFCAREN	s2ripfcaren: w2 # paid professionals who help S with IADLs	Cont
3	S3RIPFCAREN	s3ripfcaren: w3 # paid professionals who help S with IADLs	Cont
4	S4RIPFCAREN	s4ripfcaren: w4 # paid professionals who help S with IADLs	Cont
5	S5RIPFCAREN	s5ripfcaren: w5 # paid professionals who help S with IADLs	Cont
1	R1RIPFCAREDPM	rlripfcaredpm: w1 days/month paid professionals help R with	Cont
2	R2RIPFCAREDPM	r2ripfcaredpm: w2 days/month paid professionals help R with	Cont
3	R3RIPFCAREDPM	r3ripfcaredpm: w3 days/month paid professionals help R with	Cont
4	R4RIPFCAREDPM	r4ripfcaredpm: w4 days/month paid professionals help R with	Cont
5	R5RIPFCAREDPM	r5ripfcaredpm: w5 days/month paid professionals help R with	Cont
1	C1DIDECADEDDM	alminfaceadom1 dava/menth maid professionals belo Cith	Cont
	S1RIPFCAREDPM	slripfcaredpm: wl days/month paid professionals help S with	Cont
2	S2RIPFCAREDPM	s2ripfcaredpm: w2 days/month paid professionals help S with	Cont
3 4	S3RIPFCAREDPM	s3ripfcaredpm: w3 days/month paid professionals help S with	Cont
5	S4RIPFCAREDPM S5RIPFCAREDPM	s4ripfcaredpm: w4 days/month paid professionals help S with s5ripfcaredpm: w5 days/month paid professionals help S with	Cont
3	SURTECAREDEM	sortpreareapm: wo days/month paid professionals neip 5 with	Cont
1	R1RIPFCAREDPMM	rlripfcaredpmm: w1 R # paid professionals missing days of he	Cont
2	R2RIPFCAREDPMM	r2ripfcaredpmm: w2 R # paid professionals missing days of he	Cont
3	R3RIPFCAREDPMM	r3ripfcaredpmm: w3 R # paid professionals missing days of he	Cont
4	R4RIPFCAREDPMM	r4ripfcaredpmm: w4 R # paid professionals missing days of he	Cont
5	R5RIPFCAREDPMM	r5ripfcaredpmm: w5 R # paid professionals missing days of he	Cont
Ü		Totapada sup wo it a para protocolonare misering days of no	00110
1	S1RIPFCAREDPMM	slripfcaredpmm: w1 S # paid professionals missing days of he	Cont
2	S2RIPFCAREDPMM	s2ripfcaredpmm: w2 S # paid professionals missing days of he	Cont
3	S3RIPFCAREDPMM	s3ripfcaredpmm: w3 S # paid professionals missing days of he	Cont
4	S4RIPFCAREDPMM	s4ripfcaredpmm: w4 S # paid professionals missing days of he	Cont
5	S5RIPFCAREDPMM	s5ripfcaredpmm: w5 S # paid professionals missing days of he	Cont
1	R1RIPFCAREHR	rlripfcarehr: w1 hours/day paid professionals help R with IA	Cont
2	R2RIPFCAREHR	r2ripfcarehr: w2 hours/day paid professionals help R with IA	Cont
3	R3RIPFCAREHR	r3ripfcarehr: w3 hours/day paid professionals help R with IA	Cont
4	R4RIPFCAREHR	r4ripfcarehr: w4 hours/day paid professionals help R with IA	Cont
5	R5RIPFCAREHR	r5ripfcarehr: w5 hours/day paid professionals help R with IA	Cont
_	045555		
1	S1RIPFCAREHR	slripfcarehr: wl hours/day paid professionals help S with IA	Cont
2	S2RIPFCAREHR	s2ripfcarehr: w2 hours/day paid professionals help S with IA	Cont
3	S3RIPFCAREHR	s3ripfcarehr: w3 hours/day paid professionals help S with IA	Cont
4	S4RIPFCAREHR	s4ripfcarehr: w4 hours/day paid professionals help S with IA	Cont
5	S5RIPFCAREHR	s5ripfcarehr: w5 hours/day paid professionals help S with IA	Cont

1	R1RIPFCAREHRM	rlripfcarehrm:	w1	R	#	paid	professionals	missing	hours	of	he	Cont
2	R2RIPFCAREHRM	r2ripfcarehrm:	w2	R	#	paid	professionals	missing	hours	of	he	Cont
3	R3RIPFCAREHRM	r3ripfcarehrm:	wЗ	R	#	paid	professionals	missing	hours	of	he	Cont
4	R4RIPFCAREHRM	r4ripfcarehrm:	w4	R	#	paid	professionals	missing	hours	of	he	Cont
5	R5RIPFCAREHRM	r5ripfcarehrm:	w5	R	#	paid	professionals	missing	hours	of	he	Cont
1	S1RIPFCAREHRM	s1ripfcarehrm:	w1	S	#	paid	professionals	missing	hours	of	he	Cont
	S1RIPFCAREHRM S2RIPFCAREHRM	<pre>s1ripfcarehrm: s2ripfcarehrm:</pre>				_	-					Cont Cont
2		-	w2	S	#	paid	professionals	missing	hours	of	he	
2	S2RIPFCAREHRM	s2ripfcarehrm:	w2 w3	S S	#	paid paid	professionals professionals	missing missing	hours hours	of of	he he	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RIPFCARE	1417	0.02	0.16	0.00	1.00
R2RIPFCARE	1309	0.03	0.18	0.00	1.00
R3RIPFCARE	1663	0.02	0.15	0.00	1.00
R4RIPFCARE	1887	0.02	0.15	0.00	1.00
R5RIPFCARE	1491	0.04	0.19	0.00	1.00
KOKITTOAKE	1471	0.01	0.19	0.00	1.00
S1RIPFCARE	950	0.01	0.10	0.00	1.00
S2RIPFCARE	803	0.02	0.13	0.00	1.00
S3RIPFCARE	931	0.02	0.13	0.00	1.00
S4RIPFCARE	969	0.01	0.08	0.00	1.00
S5RIPFCARE	638	0.03	0.18	0.00	1.00
R1RIPFCAREN	1417	0.02	0.16	0.00	1.00
R2RIPFCAREN	1309	0.03	0.18	0.00	1.00
R3RIPFCAREN	1663	0.03	0.16	0.00	2.00
R4RIPFCAREN	1887	0.02	0.15	0.00	2.00
R5RIPFCAREN	1491	0.04	0.21	0.00	3.00
S1RIPFCAREN	950	0.01	0.10	0.00	1.00
S2RIPFCAREN	803	0.02	0.13	0.00	1.00
S3RIPFCAREN	931	0.02	0.13	0.00	1.00
S4RIPFCAREN	969	0.01	0.08	0.00	1.00
S5RIPFCAREN	638	0.03	0.18	0.00	1.00
R1RIPFCAREDPM	1417	0.65	4.22	0.00	30.00
R2RIPFCAREDPM	1309	0.85	4.84	0.00	30.00
R3RIPFCAREDPM	1662	0.47	3.63	0.00	60.00
R4RIPFCAREDPM	1887	0.47	3.59	0.00	60.00
R5RIPFCAREDPM	1490	0.94	5.46	0.00	90.00
ROTELL OFFICER	1130	0.31	0.10	0.00	30.00
S1RIPFCAREDPM	950	0.29	2.81	0.00	30.00
S2RIPFCAREDPM	803	0.46	3.60	0.00	30.00
S3RIPFCAREDPM	931	0.29	2.63	0.00	30.00
S4RIPFCAREDPM	969	0.15	1.99	0.00	30.00
S5RIPFCAREDPM	638	0.77	4.55	0.00	30.00
R1RIPFCAREDPMM	1417	0.00	0.00	0.00	0.00
R2RIPFCAREDPMM	1309	0.00	0.00	0.00	0.00
R3RIPFCAREDPMM	1663	0.00	0.02	0.00	1.00
R4RIPFCAREDPMM	1887	0.00	0.00	0.00	0.00
R5RIPFCAREDPMM	1491	0.00	0.03	0.00	1.00
S1RIPFCAREDPMM	950	0.00	0.00	0.00	0.00
S2RIPFCAREDPMM	803	0.00	0.00	0.00	0.00
S3RIPFCAREDPMM	931	0.00	0.00	0.00	0.00
S4RIPFCAREDPMM	969	0.00	0.00	0.00	0.00
S5RIPFCAREDPMM	638	0.00	0.00	0.00	0.00

R1RIPFCAREHR	1417	0.21	1.63	0.00	24.00
R2RIPFCAREHR	1309	0.20	1.52	0.00	24.00
R3RIPFCAREHR	1663	0.20	1.53	0.00	24.00
R4RIPFCAREHR	1887	0.16	1.24	0.00	24.00
R5RIPFCAREHR	1489	0.31	2.16	0.00	48.00
S1RIPFCAREHR	950	0.07	0.73	0.00	12.00
S2RIPFCAREHR	803	0.11	0.96	0.00	12.00
S3RIPFCAREHR	931	0.14	1.24	0.00	24.00
S4RIPFCAREHR	969	0.02	0.29	0.00	5.00
S5RIPFCAREHR	637	0.18	1.11	0.00	10.00
R1RIPFCAREHRM	1417	0.00	0.00	0.00	0.00
R2RIPFCAREHRM	1309	0.00	0.00	0.00	0.00
R3RIPFCAREHRM	1663	0.00	0.00	0.00	0.00
R4RIPFCAREHRM	1887	0.00	0.00	0.00	0.00
R5RIPFCAREHRM	1491	0.00	0.04	0.00	1.00
S1RIPFCAREHRM	950	0.00	0.00	0.00	0.00
S2RIPFCAREHRM	803	0.00	0.00	0.00	0.00
S3RIPFCAREHRM	931	0.00	0.00	0.00	0.00
S4RIPFCAREHRM	969	0.00	0.00	0.00	0.00
S5RIPFCAREHRM	638	0.00	0.04	0.00	1.00

Categorical Variable Codes

Value	R1RIPFCARE	R2RIPFCARE	R3RIPFCARE	R4RIPFCARE	R5RIPFCARE
.d:DK			1	5	
.h:no help received	267	204	658	605	406
.m:Missing	38	30		40	17
.p:Proxy interview, not asked	1032	1161	1275	929	1328
.r:Refuse	13	1	1	1	12
.x:no difficulty	12419	10999	12125	11312	13860
0.No	1382	1267	1623	1844	1434
1.Yes	35	42	40	43	57
Value	S1RIPFCARE	S2RIPFCARE	S3RIPFCARE	S4RIPFCARE	S5RIPFCARE
.d:DK			1	5	
.h:no help received	154	202	487	406	205
.m:Missing	13	6		10	2
.p:Proxy interview, not asked	660	814	726	470	560
.r:Refuse	8	1			6
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8863	7738	8447	7792	6050
0.No	940	790	916	963	617
1.Yes	10	13	15	6	21

How Constructed

The following variables indicate whether paid formal caregivers help the respondent with any IADL needs. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest

level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any IADL, and are coded as special missing value .h if the respondent reports difficulty with an IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRIPFCARE, RWRIPFCAREDPM, RWRIPFCAREDPMM, RWRIPFCAREHRM, and RWRIPFCAREHRM include help from a paid person.

RWRIPFCARE indicates whether any paid professionals help the respondent with IADL needs. RWRIPFCAREN indicates the number of paid professionals who help the respondent with IADL needs. RWRIPFCARE is coded as 0 if no paid professionals help the respondent with IADLS; and is coded as 1 if at least one paid professional helps the respondent with IADLs.

RWRIPFCAREDPM indicates the number of total days per month paid professionals help the respondent with IADL needs. If the respondent reports receiving help every day from that paid professional, then a value of 30 is assumed. RWRIPFCAREDPM is the sum of days per month for all paid professional helpers, and so values can be over 30 days. RWRIPFCAREDPM is calculated as long as there is one non-missing value. RWRIPFCAREDPM is assigned a value of 0 if the respondent did not receive help from any paid professionals. RWRIPFCAREDPMM indicates the number of paid professionals who helped the respondent for whom no value of days was reported and was not accounted for in RWRIPFCAREDPMM. RWRIPFCAREDPMM is assigned special missing value .m if the respondent was not helped by any paid professionals.

RWRIPFCAREHR indicates the number of hours per day paid professionals help the respondent with IADL needs. Respondents are asked, on days paid professionals help, how many hours per day that is. If the respondent reports less than an hour for that paid professional, then a 1 is assumed. RWRIPFCAREHR is the sum of hours per day for all paid professional helpers, and so values can be over 24 hours. RWRIPFCAREHR is calculated as long as there is one non-missing value. RWRIPFCAREHR is assigned a value of 0 if the respondent did not receive help from any paid professionals. RWRIPFCAREHRM indicates the number of paid professionals who helped the respondent for whom no value of hours was reported and was not accounted for in RWRIPFCAREHR. RWRIPFCAREHRM is assigned special missing value .m if the respondent was not helped by any paid professionals.

SWRIPFCARE, SWRIPFCAREN, SWRIPFCAREDPM, and SWRIPFCAREHR indicate whether the respondent's current wave's spouse receives help from paid professionals, the number, and the frequency with which, and their values are taken from RWRIPFCARE, RWRIPFCAREN, RWRIPFCAREDPM, and RWRIPFCAREHR. SWRIPFCAREDPMM and SWRIPFCAREHRM indicate the number of paid professionals who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRIPFCAREDPMM and RWRIPFCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers in Waves 1 and 2, up to 8 caregivers in Waves 3 and 4, and up to 3 caregivers in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRIPFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRIPFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

```
Wave 1:
    H26 3
                    spouse helps with hot meal
    H26 4
                    someone helps with hot meal
   H27 3
                    spouse helps with shopping
   H27 4
                    someone helps with shopping
   H28 3
                    spouse helps with taking medication
   H28 4
                    someone helps with taking medication
   H29 3
                    spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 1 Helper:
                    kinship of helper
   H32
                    roster number of helper
    H33
    Н34
                    days of help
    Н35
                    hours of help
Wave 2:
                    spouse helps
    H26D
   H26E
                    additional person helps
                    spouse helps
   H27D
   H27E
                    additional person helps
                    spouse helps
   H28D
   H28E
                    additional person helps
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 2 Helper:
   H32
                    relationship
   H33
                    registration number
                    number of days (name) helped last month
    H34
   Н35
                    how many hours during those days
Wave 3:
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C_12
H28C_12
                    Does anyone help you shop for groceries
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32 \overline{1} 12
                    Relationship with helper for IADLs
   H32 2 12
                    Relationship with helper for IADLs
    H32 3 12
                    Relationship with helper for IADLs
    H32 4 12
                    Relationship with helper for IADLs
    H32 5 12
                    Relationship with helper for IADLs
    H32 6 12
                    Relationship with helper for IADLs
    H32 7 12
                    Relationship with helper for IADLs
    H32_8_12
                    Relationship with helper for IADLs
                    Registration number of helper for IADLs
    H33_1_12
   H33_2_12
                    Registration number of helper for ADLs
    H33_3_12
                    Registration number of helper for IADLs
   H33_4_12
H33_5_12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
   H33 6 12
                    Registration number of helper for IADLs
   H33<sup>7</sup>12
                    Registration number of helper for IADLs
   н33 8 12
                    Registration number of helper for IADLs
    H34 1 12
                    Number of days (name) helped last month
    H34 2 12
                    Number of days (name) helped last month
    H34 3 12
                    Number of days (name) helped last month
    H34 4 12
                    Number of days (name) helped last month
    H34 5 12
                    Number of days (name) helped last month
    H34 6 12
                    Number of days (name) helped last month
    H34_7_12
                    Number of days (name) helped last month
    H34 8 12
                    Number of days (name) helped last month
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```
H35 1 12
                    Number of hours during those days (NAME) helped
   H35 2 12
                    Number of hours during those days (NAME) helped
   н35 3 12
                    Number of hours during those days (NAME) helped
   H35 4 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35 6 12
                    Number of hours during those days (NAME) helped
    H35 7 12
                    Number of hours during those days (NAME) helped
   H35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H26C_15
                    Does someone help respondent to prepare a hot meal
   H27C_15
                    Does someone help respondent to shop for groceries
   H28C_15
                    Does someone help respondent to take medications
   H29C
                    Does someone help respondent to manage his/her money
   H32_1_15
H32_2_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   Н32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 6 15
   H32 7 15
                    Respondent's relationship with person helping with IADL
   H32 8 15
                    Respondent's relationship with person helping with IADL
   Н33 1 15
                    Registration number of person helping with IADLs
   H33_2 15
                    Registration number of person helping with IADLs
   Н33_3 15
                    Registration number of person helping with IADLs
   н33_4_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_5_15
   Н33_6_15
                    Registration number of person helping with IADLs
   Н33 7_15
                    Registration number of person helping with IADLs
   н33 8 15
                    Registration number of person helping with IADLs
   H34<sup>1</sup>15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   H34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34 5 15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   H34 7 15
                    Number of days the person helped during last month
   H34 8 15
                    Number of days the person helped during last month
   H35_1_15
                    Number of hours during those days that the person helpe
   H35_2_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35_3_15
   H35 4_15
                    Number of hours during those days that the person helpe
   H35 5 15
                    Number of hours during those days that the person helpe
   H35_6_15
H35_7_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C 18
                    Does someone help R to shop for groceries
   H28C 18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32_1_18
                    R's relationship with person helping with IADLs
   H32_2_18
                    R's relationship with person helping with IADLs
   H32_3_18
                    R's relationship with person helping with IADLs
   H33_1_18
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_2_18
   Н33 3 18
                    Registration number of person helping with IADLs
   H34_1_18
H34_2_18
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H34 3 18
                    Number of days the person helped during last month
   H35 1 18
                    Number of hours during those days that the person helpe
   H35 2 18
                    Number of hours during those days that the person helpe
   H35_3 18
                    Number of hours during those days that the person helpe
```

Activities of Daily Living and Instrumental Activities of Daily Living: Whether Receives Any Care

Wave	Variable	Label							Type
1	R1RCANY	r1rcany: v	w1 F	receives	any	care	for	ADLs/IADLs	Categ
2	R2RCANY	r2rcany: v	w2 F	receives	any	care	for	ADLs/IADLs	Categ
3	R3RCANY	r3rcany: v	w3 F	receives	any	care	for	ADLs/IADLs	Categ
4	R4RCANY	r4rcany: v	w4 F	receives	any	care	for	ADLs/IADLs	Categ
5	R5RCANY	r5rcany: v	w5 F	receives	any	care	for	ADLs/IADLs	Categ
1	S1RCANY	s1rcany: v	w1 S	receives	any	care	for	ADLs/IADLs	Categ
2	S2RCANY	s2rcany: v	w2 S	receives	any	care	for	ADLs/IADLs	Categ
3	S3RCANY	s3rcany: v	w3 S	receives	any	care	for	ADLs/IADLs	Categ
4	S4RCANY	s4rcany: v	w4 S	receives	any	care	for	ADLs/IADLs	Categ
5	S5RCANY	s5rcany: v	w5 S	receives	any	care	for	ADLs/IADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RCANY	2586	0.69	0.46	0.00	1.00
R2RCANY	2392	0.70	0.46	0.00	1.00
R3RCANY	4089	0.57	0.50	0.00	1.00
R4RCANY	4182	0.60	0.49	0.00	1.00
R5RCANY	3756	0.59	0.49	0.00	1.00
S1RCANY	1649	0.70	0.46	0.00	1.00
S2RCANY	1506	0.68	0.47	0.00	1.00
S3RCANY	2464	0.51	0.50	0.00	1.00
S4RCANY	2349	0.54	0.50	0.00	1.00
S5RCANY	1650	0.57	0.50	0.00	1.00

Categorical Variable Codes

Value	R1RCANY	R2RCANY	R3RCANY	R4RCANY	R5RCANY
.d:DK	1		1	6	2
.m:Missing	40	41		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	812	729	1771	1666	1545
1.Yes	1774	1663	2318	2516	2211
Value	SIRCANY	S2RCANY	S3RCANY	S4RCANY	S5RCANY
.d:DK			1	5	
.m:Missing	14	18		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	501	487	1213	1072	716
1.Yes	1148	1019	1251	1277	934

How Constructed

RWRCANY indicates whether the respondent receives any care for difficulties with activities of daily living (ADL) and/or instrumental activities of daily living (IADL). If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. RwRCANY is assigned a value of 0 if the respondent has difficulty with at least one ADL or IADL but receives no help with the activity. RwRCANY is assigned a value of 1 if the respondent has difficulty with at least one ADL or IADL and someone helps with at least one of the activities. RwRCANY is assigned special missing value .x if the respondent has

no difficulty with any ADLs or IADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RwRCANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRCANY indicates whether the respondent's current wave's spouse receives any care for difficulties with ADLs or IADLs, and its values are taken from RwRCANY. In addition to the special missing codes employed by RwRCANY, SwRCANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

In the HRS, if the respondent reports that they "can't do" or "don't do" the activity or if they have difficulty that is not the result of a health or memory problem, then they are not asked whether they receive help with that activity. Respondents in the MHAS, however, are asked whether they receive help with the activity if they report that they "can't do", "don't do", or have difficulty with the activity, regardless of whether it is the result of a health or memory problem.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, RwRCANY in the Harmonized HRS also includes help using the telephone, whereas RwRCANY in the Harmonized HRS does not include help using the telephone.

Wave 1:	
H14	help dressing
Н15 3	spouse helps walking
H15 4	other helps walking
н16 3	spouse helps bathing
H16 4	other helps bathing
H17 ⁻ 3	spouse helps eating
H17 4	other helps eating
H18 ⁻ 3	spouse helps getting in an out of bed
H18 4	other helps getting in an out of bed
н19 [—] 3	spouse helps using toilet
H19 4	other helps using toilet
H26 3	spouse helps with hot meal
H26 4	someone helps with hot meal
H27 ⁻ 3	spouse helps with shopping
H27 4	someone helps with shopping
H28 3	spouse helps with taking medication
H28 4	someone helps with taking medication
H29 3	spouse helps with managing money
H29 4	someone helps with managing money
Wave 2:	
H14	someone help you to get dressed
H15E	spouse helps
H15F	additional person helps
H16E	spouse helps
H16F	additional person helps
H17E	spouse helps
H17F	additional person helps
H18E	spouse helps
H18F	additional person helps
H19E	spouse helps
H19F	additional person helps
H26D	spouse helps
H26E	additional person helps
H27D	spouse helps

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additional person helps
    H28D
                    spouse helps
    H28E
                    additional person helps
    H29D
                    spouse helps
    H29E
                    additional person helps
Wave 3:
    H14 12
                    Someone help you to get dressed
    H15D 12
                    Someone help you walk across room
    H16D 12
                    Someone help you to bathe or shower
    H17D 12
                    Does someone help you eat your food
    H18D_12
                    Does someone help you get into or out of bed
    H19D 12
                    Does someone help you use toilet, get on off
   H22_1_12
                    Relationship with helper for ADLs
   H22_2_12
H22_3_12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
    H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
    H23 4 12
    H23_5_12
                    Registration number of helper for ADLs
    H23_6_12
                    Registration number of helper for ADLs
   H23_7_12
H23_8_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
    H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
    H29C 12
                    Does anyone one help you manage your money
    H32 1 12
                    Relationship with helper for IADLs
    H32 2 12
                    Relationship with helper for IADLs
    H32 3 12
                    Relationship with helper for IADLs
    H32 4 12
                    Relationship with helper for IADLs
    H32 5 12
                    Relationship with helper for IADLs
    H32 6 12
                    Relationship with helper for IADLs
    H32_7_12
                    Relationship with helper for IADLs
    H32_8_12
                    Relationship with helper for IADLs
   H33_1_12
                    Registration number of helper for IADLs
    H33 2 12
                    Registration number of helper for ADLs
    H33 3 12
                    Registration number of helper for IADLs
   H33<sup>4</sup>12
                    Registration number of helper for IADLs
   H33 5 12
                    Registration number of helper for IADLs
   Н33 6 12
                    Registration number of helper for IADLs
    H33 7 12
                    Registration number of helper for IADLs
    H33 8 12
                    Registration number of helper for IADLs
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
    H15D 15
                    Does someone help respondent walking across a room
    H16D 15
                    Does someone help respondent bathing or showering
    H17D_15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
                    Does someone help respondent using the toilet
    H19D 15
    H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22_2_15
H22_3_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
    H22 4 15
                    Respondent's relationship with person helping with ADLs
    H22 5 15
                    Respondent's relationship with person helping with ADLs
    H22 6 15
                    Respondent's relationship with person helping with ADLs
    H22 7 15
                    Respondent's relationship with person helping with ADLs
    H22 8 15
                    Respondent's relationship with person helping with ADLs
    H23 1 15
                    Registration number of person helping with ADLs
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H23 2 15
                    Registration number of person helping with ADLs
    H23 3 15
                    Registration number of person helping with ADLs
    H23 4 15
                    Registration number of person helping with ADLs
    H23 5 15
                    Registration number of person helping with ADLs
    H23 6 15
                    Registration number of person helping with ADLs
    H23 7 15
                    Registration number of person helping with ADLs
    H23 8 15
                    Registration number of person helping with ADLs
    H26C 15
                    Does someone help respondent to prepare a hot meal
    H27C 15
                    Does someone help respondent to shop for groceries
    H28C_15
                    Does someone help respondent to take medications
   H29C_15
                    Does someone help respondent to manage his/her money
    H32_1_15
                    Respondent's relationship with person helping with IADL
    H32_2_15
                    Respondent's relationship with person helping with IADL
   H32_3_15
H32_4_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32<sup>5</sup>15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
   H32 7 15
                    Respondent's relationship with person helping with IADL
   H32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
   Н33 2 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 3 15
                    Registration number of person helping with IADLs \,
   н33 4 15
   Н33 5 15
                    Registration number of person helping with IADLs
   н33_6_15
                    Registration number of person helping with IADLs
    H33_7_15
                    Registration number of person helping with IADLs
    H33 8 15
                    Registration number of person helping with IADLs
Wave 5:
    H14 18
                    Does someone help R to get dressed
    H15D 18
                    Does someone help R walking across a room
    H16D 18
                    Does someone help R bathing or showering
                    Does someone help R eating
    H17D 18
    H18D 18
                    Does someone help R getting in or out of bed
    H19D 18
                    Does someone help R using the toilet
    H22 1 18
                    R's relationship with person helping with ADLs
    H22 2 18
                    R's relationship with person helping with ADLs
                    R's relationship with person helping with ADLs
    H22_3_18
                    Registration number of person helping with ADLs \,
    H23_1_18
    H23_2_18
                    Registration number of person helping with ADLs
   H23_3_18
H26C_18
                    Registration number of person helping with ADLs
                    Does someone help R to prepare a hot meal
   H27C_18
H28C_18
                    Does someone help R to shop for groceries
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
    H32 \overline{1} 18
                    R's relationship with person helping with IADLs
   H32 2 18
                    R's relationship with person helping with IADLs
    H32 3 18
                    R's relationship with person helping with IADLs
    H33 1 18
                    Registration number of person helping with IADLs
    H33 2 18
                    Registration number of person helping with IADLs
    Н33 3 18
                    Registration number of person helping with IADLs
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Activities of Daily Living and Instrumental Activities of Daily Living: Whether Receives Any Informal Care

Wave	Variable	Label	Type
1	R1RCAANY	rlrcaany: w1 R receives any informal care for ADLs/IADLs	Cateq
2	R2RCAANY	r2rcaany: w2 R receives any informal care for ADLs/IADLs	Categ
3	R3RCAANY	r3rcaany: w3 R receives any informal care for ADLs/IADLs	Categ
4	R4RCAANY	r4rcaany: w4 R receives any informal care for ADLs/IADLs	Categ
5	R5RCAANY	r5rcaany: w5 R receives any informal care for ADLs/IADLs	Categ
1	S1RCAANY	s1rcaany: w1 S receives any informal care for ADLs/IADLs	Categ
2	S2RCAANY	s2rcaany: w2 S receives any informal care for ADLs/IADLs	Categ
3	S3RCAANY	s3rcaany: w3 S receives any informal care for ADLs/IADLs	Categ
4	S4RCAANY	s4rcaany: w4 S receives any informal care for ADLs/IADLs	Categ
5	S5RCAANY	s5rcaany: w5 S receives any informal care for ADLs/IADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RCAANY	2586	0.66	0.47	0.00	1.00
R2RCAANY	2403	0.64	0.48	0.00	1.00
R3RCAANY	4089	0.55	0.50	0.00	1.00
R4RCAANY	4182	0.58	0.49	0.00	1.00
R5RCAANY	3756	0.56	0.50	0.00	1.00
S1RCAANY	1649	0.67	0.47	0.00	1.00
S2RCAANY	1516	0.62	0.49	0.00	1.00
S3RCAANY	2464	0.48	0.50	0.00	1.00
S4RCAANY	2349	0.51	0.50	0.00	1.00
S5RCAANY	1650	0.53	0.50	0.00	1.00

Categorical Variable Codes

Value	R1RCAANY	R2RCAANY	R3RCAANY	R4RCAANY	R5RCAANY
.d:DK	1		1	6	2
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	884	854	1849	1768	1670
1.Yes	1702	1549	2240	2414	2086
Value	SIRCAANY	S2RCAANY	S3RCAANY	S4RCAANY	S5RCAANY
.d:DK			1	5	
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	542	576	1275	1142	781
1.Yes	1107	940	1189	1207	869

How Constructed

RWRCAANY indicates whether the respondent receives any informal care for difficulties with activities of daily living (ADL) and/or instrumental activities of daily living (IADL). The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs, and up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The following relationships are

considered to provide informal care: spouse, child, child-in-law, grandchild, parent, other relative, other person.

Please note that for each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

RWRCAANY is assigned a value of 0 if the respondent has difficulty with at least one ADL or IADL but receives no help with the activity from an informal caregiver, or does not receive any help at all. RWRCAANY is assigned a value of 1 if the respondent has difficulty with at least one ADL or IADL and an informal caregiver helps with at least one of the activities. RWRCAANY is assigned special missing value .x if the respondent has no difficulty with any ADLs or IADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RWRCAANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRCAANY indicates whether the respondent's current wave's spouse receives any informal care for difficulties with ADLs or IADLs, and its values are taken from RwRCAANY. In addition to the special missing codes employed by RwRCAANY, SwRCAANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers each for ADLs and IADLs in Waves 1 and 2, up to 8 caregivers each for ADLs and IADLs in Waves 3 and 4, and up to 3 caregivers each for ADLs and IADLs in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, RwRCAANY in the Harmonized HRS also includes help using the telephone, whereas RwRCAANY in the Harmonized MHAS does not include help using the telephone.

Wave 1:	
H14	help dressing
Н15 3	spouse helps walking
H15_4	other helps walking
H16 3	spouse helps bathing
H16_4	other helps bathing
H17_3	spouse helps eating
H17_4	other helps eating
H18_3	spouse helps getting in an out of bed
H18_4	other helps getting in an out of bed
H19_3	spouse helps using toilet
H19_4	other helps using toilet
н26_3	spouse helps with hot meal
H26_4	someone helps with hot meal
H27_3	spouse helps with shopping
H27_4	someone helps with shopping
H28_3	spouse helps with taking medication

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H28 4
                    someone helps with taking medication
    H29 3
                    spouse helps with managing money
    H29 4
                    someone helps with managing money
Wave 1 Helper:
                    kinship of helper
                    roster number of helper
    H32
                    kinship of helper
    Н33
                    roster number of helper
Wave 2:
    H14
                    someone help you to get dressed
    H15E
                    spouse helps
    H15F
                    additional person helps
    H16E
                    spouse helps
    H16F
                    additional person helps
   H17E
                    spouse helps
   H17F
                    additional person helps
   H18E
                    spouse helps
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
   H26D
                    spouse helps
   H26E
                    additional person helps
   H27D
                    spouse helps
                    additional person helps
   H27E
   H28D
                    spouse helps
                    additional person helps
    H28E
    H29D
                    spouse helps
   H29E
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
    H32
                    relationship
    Н33
                    registration number
Wave 3:
   H14 12
                    Someone help you to get dressed
    H15D 12
                    Someone help you walk across room
    H16D 12
                    Someone help you to bathe or shower
   H17D 12
                    Does someone help you eat your food
    H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22 1_12
                    Relationship with helper for ADLs
   H22_2_12
H22_3_12
H22_4_12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23_5_12
                    Registration number of helper for ADLs
   H23_6_12
                    Registration number of helper for ADLs
   H23_7_12
H23_8_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
    H26C 12
                    Does anyone help you prepare a hot meal
        12
    H27C
                    Does anyone help you shop for groceries
    H28C 12
                    Does anyone help you take medications
    H29C 12
                    Does anyone one help you manage your money
                    Relationship with helper for IADLs
    H32 1 12
    H32 2 12
                    Relationship with helper for IADLs
    H32 3 12
                    Relationship with helper for IADLs
    H32 4 12
                    Relationship with helper for IADLs
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H32 5 12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32<sup>7</sup>12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
   H33 3 12
                    Registration number of helper for IADLs
   H33 4 12
                    Registration number of helper for IADLs
   H33 5 12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
   H33_6_12
   H33_7_12
                    Registration number of helper for IADLs
   H33_8_12
                    Registration number of helper for IADLs
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22 2 15
                    Respondent's relationship with person helping with ADLs
   H22 3 15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22_6_15
                    Respondent's relationship with person helping with ADLs
   H22_7_15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23_1_15
H23_2_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   н23 3 15
                    Registration number of person helping with ADLs
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 6 15
   H23 7 15
                    Registration number of person helping with ADLs
   H23 8 15
                    Registration number of person helping with ADLs
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C_15
                    Does someone help respondent to shop for groceries
   H28C_15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
   H32_1_15
                    Respondent's relationship with person helping with IADL
   H32_2_15
                    Respondent's relationship with person helping with IADL
   H32_3_15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
   H32 7 15
                    Respondent's relationship with person helping with IADL
   H32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
   Н33 2 15
                    Registration number of person helping with IADLs
   Н33 3 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs \,
   Н33 4 15
   H33 5 15
                    Registration number of person helping with IADLs
   н33 6 15
                    Registration number of person helping with IADLs
   H33_7_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 8 15
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
    H22 1 18
                    R's relationship with person helping with ADLs
    H22 2 18
                    R's relationship with person helping with ADLs
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H22_3_18	R's relationship with person helping with ADLs
H23_1_18	Registration number of person helping with ADLs
H23_2_18	Registration number of person helping with ADLs
H23_3_18	Registration number of person helping with ADLs
H26C_18	Does someone help R to prepare a hot meal
H27C_18	Does someone help R to shop for groceries
H28C_18	Does someone help R to take medications
H29C_18	Does someone help R to manage his/her money
H32_1_18	R's relationship with person helping with IADLs
H32_2_18	R's relationship with person helping with IADLs
H32_3_18	R's relationship with person helping with IADLs
H33_1_18	Registration number of person helping with IADLs
H33_2_18	Registration number of person helping with IADLs
H33_3_18	Registration number of person helping with IADLs

Activities of Daily Living and Instrumental Activities of Daily Living: Receives Informal Care from Spouse

Wave	Variable	Label	Туре
1	R1RSCARE	rlrscare: w1 R receives informal care from spouse for ADLs/I	Categ
2	R2RSCARE	r2rscare: w2 R receives informal care from spouse for ADLs/I	Categ
	R3RSCARE	r3rscare: w3 R receives informal care from spouse for ADLs/I	Categ
			_
	R4RSCARE	r4rscare: w4 R receives informal care from spouse for ADLs/I	Categ
5	R5RSCARE	r5rscare: w5 R receives informal care from spouse for ADLs/I	Categ
1	S1RSCARE	slrscare: wl S receives informal care from spouse for ADLs/I	Categ
2	S2RSCARE	s2rscare: w2 S receives informal care from spouse for ADLs/I	Categ
3	S3RSCARE	s3rscare: w3 S receives informal care from spouse for ADLs/I	Categ
4	S4RSCARE	s4rscare: w4 S receives informal care from spouse for ADLs/I	Categ
5	S5RSCARE	s5rscare: w5 S receives informal care from spouse for ADLs/I	Categ
	R2RSCAREDPM	r2rscaredpm: w2 days/month spouse helps R with ADLs/IADLs	Cont
3	R3RSCAREDPM	r3rscaredpm: w3 days/month spouse helps R with ADLs/IADLs	Cont
4	R4RSCAREDPM	r4rscaredpm: w4 days/month spouse helps R with ADLs/IADLs	Cont
5	R5RSCAREDPM	r5rscaredpm: w5 days/month spouse helps R with ADLs/IADLs	Cont
2	S2RSCAREDPM	s2rscaredpm: w2 days/month spouse helps S with ADLs/IADLs	Cont
3	S3RSCAREDPM	s3rscaredpm: w3 days/month spouse helps S with ADLs/IADLs	Cont
4	S4RSCAREDPM	s4rscaredpm: w4 days/month spouse helps S with ADLs/IADLs	Cont
5	S5RSCAREDPM	s5rscaredpm: w5 days/month spouse helps S with ADLs/IADLs	Cont
2	R2RSCAREDPMM	r2rscaredpmm: w2 R # spouse missing days of help for ADLs/IA	Cont
3	R3RSCAREDPMM	r3rscaredpmm: w3 R # spouse missing days of help for ADLs/IA	Cont
4	R4RSCAREDPMM	r4rscaredpmm: w4 R # spouse missing days of help for ADLs/IA	Cont
5	R5RSCAREDPMM	r5rscaredpmm: w5 R # spouse missing days of help for ADLs/IA	Cont
2	S2RSCAREDPMM	s2rscaredpmm: w2 S # spouse missing days of help for ADLs/IA	Cont
3	S3RSCAREDPMM	s3rscaredpmm: w3 S # spouse missing days of help for ADLs/IA	Cont
4	S4RSCAREDPMM	s4rscaredpmm: w4 S # spouse missing days of help for ADLs/IA	Cont
5	S5RSCAREDPMM	s5rscaredpmm: w5 S # spouse missing days of help for ADLs/IA	Cont
2	R2RSCAREHR	r2rscarehr: w2 hours/day spouse helps R with ADLs/IADLs	Cont
3	R3RSCAREHR	r3rscarehr: w3 hours/day spouse helps R with ADLs/IADLs	Cont
4	R4RSCAREHR	r4rscarehr: w4 hours/day spouse helps R with ADLs/IADLs	Cont
5	R5RSCAREHR	r5rscarehr: w5 hours/day spouse helps R with ADLs/IADLs	Cont
2	S2RSCAREHR	s2rscarehr: w2 hours/day spouse helps S with ADLs/IADLs	Cont
3	S3RSCAREHR	s3rscarehr: w3 hours/day spouse helps S with ADLs/IADLs	Cont
4	S4RSCAREHR	s4rscarehr: w4 hours/day spouse helps S with ADLs/IADLs	Cont
5	S5RSCAREHR	s5rscarehr: w5 hours/day spouse helps S with ADLs/IADLs	Cont
			00110
2	R2RSCAREHRM	r2rscarehrm: w2 R # spouse missing hours of help for ADLs/IA	Cont
3	R3RSCAREHRM	r3rscarehrm: w3 R # spouse missing hours of help for ADLs/IA	Cont
4	R4RSCAREHRM	r4rscarehrm: w4 R # spouse missing hours of help for ADLs/IA	Cont
5	R5RSCAREHRM	r5rscarehrm: w5 R # spouse missing hours of help for ADLs/IA	Cont
2	S2RSCAREHRM	s2rscarehrm: w2 S # spouse missing hours of help for ADLs/IA	Cont
3	S3RSCAREHRM	s3rscarehrm: w3 S # spouse missing hours of help for ADLs/IA	Cont
4	S4RSCAREHRM	s4rscarehrm: w4 S # spouse missing hours of help for ADLs/IA	Cont
5	S5RSCAREHRM	s5rscarehrm: w5 S # spouse missing hours of help for ADLs/IA	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RSCARE	1774	0.55	0.50	0.00	1.00
R2RSCARE	1674	0.41	0.49	0.00	1.00

14

8

10

3

.m:Missing

.r:Refuse	I	1				55
.u:Unmar		4205	4009	4782	4847	5227
.v:SP NR		333	131	349	280	501
.x:no difficulty		8984	8040	8127	7288	5753
0.No		191	348	501	528	591
1.Yes		957	681	750	749	343

How Constructed

The following variables indicate whether the respondent's spouse helps the respondent with any ADL or IADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs and IADLs each. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL or IADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL or IADL but does not receive any help. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRSCARE, RWRSCAREDPM, RWRSCAREDPMM, RWRSCAREHR, and RWRSCAREHRM include help from the respondent's spouse.

RWRSCARE indicates whether the respondent's spouse helps the respondent with any ADL or IADL needs. RWRSCARE is coded as 0 if the respondent receives no assistance from their spouse; and is coded as 1 if the respondent does receive help from their spouse.

RWRSCAREDPM indicates the number of days per month the respondent's spouse helps the respondent with ADL or IADL needs. If the respondent reports receiving help every day from their spouse, then a value of 30 is assumed. RwRSCAREDPM is assigned a value of 0 if the respondent did not receive help from their spouse. RwRSCAREDPMM indicates whether no value of days was reported for their spouse helper and so was not accounted for in RwRSCAREDPM. RwRSCAREDPMM is assigned special missing value .m if the respondent was not helped by their spouse. RwRSCAREDPM and RwRSCAREDPMM are not available in wave 1.

RWRSCAREHR indicates the number of hours per day the respondent's spouse helps the respondent with any ADL or IADL needs. Respondents are asked, on days their spouse helps with a particular ADL or IADL need, how many hours per day their spouse helps. If the respondent reports less than an hour for their spouse, then a 1 is assumed. RWRSCAREHR is assigned a value of 0 if the respondent did not receive help from their spouse. RWRSCAREHRM indicates whether no value of hours was reported for their spouse helper and so was not accounted for in RWRSCAREHR. RWRSCAREHRM is assigned special missing value .m if the respondent was not helped by their spouse. RWRSCAREHR and RWRSCAREHRM are not available in wave 1.

SWRSCARE, SWRSCAREDPM, and SWRSCAREHR indicate whether and the frequency with which the respondent's current wave's spouse receives help from the respondent, and their values are taken from RWRSCARE, RWRSCAREDPM, and RWRSCAREHR. SWRSCAREDPMM and SWRSCAREHRM indicate whether or not a value was reported for the number of days and hours the respondent's current spouse was helped by the respondent and are taken from RWRSCAREDPMM and RWRSCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

The respondent is asked the number of days per month and hours per day the respondent receives help from their spouse starting in Wave 2.

Respondents are allowed to mention up to 12 caregivers each in Waves 1 and 2 for ADLs and IADLs, up to 8 caregivers each in Waves 3 and 4 for ADLs and IADLs, and up to 3 caregivers each in Wave 5 for ADLs and IADLs.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible. These variables in the Harmonized HRS include help provided by the respondent's spouse or former spouse, whereas these variables only include help provided by the respondent's spouse in the Harmonized MHAS.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRSCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRSCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs. The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

MHAS Variables Used

Marro 1 .

Wave 1:	
H14	help dressing
H15_3	spouse helps walking
H15_4	other helps walking
H16 3	spouse helps bathing
H16 4	other helps bathing
H17 3	spouse helps eating
H17 4	other helps eating
H18 3	spouse helps getting in an out of bed
H18_4	other helps getting in an out of bed
H19_3	spouse helps using toilet
H19_4	other helps using toilet
H26_3	spouse helps with hot meal
H26_4	someone helps with hot meal
H27_3	spouse helps with shopping
H27_4	someone helps with shopping
H28_3	spouse helps with taking medication
H28_4	someone helps with taking medication
H29_3	spouse helps with managing money
H29_4	someone helps with managing money
Wave 1 Helper:	
Н22	kinship of helper
Н23	roster number of helper
H24	days of help
Н25	hours of help
Н32	kinship of helper
Н33	roster number of helper
Н34	days of help

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H35
                    hours of help
Wave 2:
   H14
                    someone help you to get dressed
                    spouse helps
    H15E
                    additional person helps
    H16E
                    spouse helps
    H16F
                    additional person helps
    H17E
                    spouse helps
    H17F
                    additional person helps
    H18E
                    spouse helps
                    additional person helps
    H18F
    H19E
                    spouse helps
    H19F
                    additional person helps
    H26D
                    spouse helps
   H26E
                    additional person helps
   H27D
                    spouse helps
   H27E
                    additional person helps
   H28D
                    spouse helps
   H28E
                    additional person helps
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
    H24
                    number of days (name) helped last month
    H25
                    number of hours during those days
                    relationship
    Н33
                    registration number
    Н34
                    number of days (name) helped last month
                    how many hours during those days
   Н35
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
                    Someone help you to bathe or shower
   H16D 12
    H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22_1_12
                    Relationship with helper for ADLs
   H22_2_12
                    Relationship with helper for ADLs
   H22_3_12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
    H22 6 12
                    Relationship with helper for ADLs
   H22<sup>-7</sup>12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23 3 12
   H23 4 12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23 7 12
                    Registration number of helper for ADLs
    H23 8 12
                    Registration number of helper for ADLs
    H24_1_12
                    Number of days (name) helped last month
    H24_2_12
                    Number of days (name) helped last month
   H24 3_12
                    Number of days (name) helped last month
    H24 4 12
                    Number of days (name) helped last month
    H24 5 12
                    Number of days (name) helped last month
    H24 6 12
                    Number of days (name) helped last month
    H24 7 12
                    Number of days (name) helped last month
    H24 8 12
                    Number of days (name) helped last month
    H25 1 12
                    Number of hours during those days (NAME) helped
    H25 2 12
                    Number of hours during those days (NAME) helped
    H25 3 12
                    Number of hours during those days (NAME) helped
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H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
    H25 8 12
                    Number of hours during those days (NAME) helped
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
                    Relationship with helper for IADLs
   H32_1_12
   H32_2_12
                    Relationship with helper for IADLs
   H32_3_12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32_5_12
H32_6_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
   H32<sup>-7</sup>12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
   H33 3 12
                    Registration number of helper for IADLs
   H33 4 12
                    Registration number of helper for IADLs
   H33 5 12
                    Registration number of helper for IADLs
   H33 6 12
                    Registration number of helper for IADLs
   Н33 7 12
                    Registration number of helper for IADLs
   н33_8_12
                    Registration number of helper for IADLs
   H34_1_12
                    Number of days (name) helped last month
   H34_2_12
                    Number of days (name) helped last month
   H34 3 12
                    Number of days (name) helped last month
   H34 4 12
                    Number of days (name) helped last month
   H34 5 12
                    Number of days (name) helped last month
   H34 6 12
                    Number of days (name) helped last month
   H34 7 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 8 12
   H35 1 12
                    Number of hours during those days (NAME) helped
   H35 2 12
                    Number of hours during those days (NAME) helped
   H35 3 12
                    Number of hours during those days (NAME) helped
   H35 4 12
                    Number of hours during those days (NAME) helped
   H35 5 12
                    Number of hours during those days (NAME) helped
   H35_6_12
                    Number of hours during those days (NAME) helped
   H35_7_12
                    Number of hours during those days (NAME) helped
   H35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22 2 15
                    Respondent's relationship with person helping with ADLs
   H22 3 15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22_7_15
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23_1_15
H23_2_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 4 15
   H23 5 15
                    Registration number of person helping with ADLs
    H23 6 15
                    Registration number of person helping with ADLs
    H23 7 15
                    Registration number of person helping with ADLs
    H23 8 15
                    Registration number of person helping with ADLs
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H24 1 15
                    Number of days the person helped during last month
   H24 2 15
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 6 15
                    Number of days the person helped during last month
   H24 7 15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25_1_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25_2_15
   H25_3_15
                    Number of hours during those days that the person helpe
   H25_4_15
                    Number of hours during those days that the person helpe
   H25_5_15
                    Number of hours during those days that the person helpe
   H25_6_15
H25_7_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 8 15
                    Number of hours during those days that the person helpe
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C 15
                    Does someone help respondent to shop for groceries
                    Does someone help respondent to take medications
   H28C 15
   H29C 15
                    Does someone help respondent to manage his/her money
   H32 1 15
                    Respondent's relationship with person helping with IADL
   H32 2 15
                    Respondent's relationship with person helping with IADL
   H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32_5_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32_6_15
   H32_7_15
H32_8_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   н33 1 15
                    Registration number of person helping with IADLs
   н33 2 15
                    Registration number of person helping with IADLs
   н33 3 15
                    Registration number of person helping with IADLs
   H33 4 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 5 15
   Н33 6 15
                    Registration number of person helping with IADLs
   H33 7 15
                    Registration number of person helping with IADLs
   Н33 8 15
                    Registration number of person helping with IADLs
   H34_1_15
                    Number of days the person helped during last month
   H34_2_15
                    Number of days the person helped during last month
   H34_3_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H34_4_15
   H34_5_15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   н34 7 15
                    Number of days the person helped during last month
   H34 8 15
                    Number of days the person helped during last month
   H35 1 15
                    Number of hours during those days that the person helpe
   H35 2 15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35 3 15
                    Number of hours during those days that the person helpe
   H35 4 15
   H35 5 15
                    Number of hours during those days that the person helpe
   Н35 6 15
                    Number of hours during those days that the person helpe
   H35_7_15
                    Number of hours during those days that the person helpe
   H35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
                    Does someone help R walking across a room
    H15D 18
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22 1 18
                    R's relationship with person helping with ADLs
   H22 2 18
                    R's relationship with person helping with ADLs
   H22 3 18
                    R's relationship with person helping with ADLs
    H23 1 18
                    Registration number of person helping with ADLs
    H23 2 18
                    Registration number of person helping with ADLs
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H23_3_18 H24_1_18 H24_2_18 H24_3_18	Registration number of person helping with ADLs Number of days the person helped during last month Number of days the person helped during last month Number of days the person helped during last month
H25_1_18	Number of hours during those days that the person helpe
H25_2_18	Number of hours during those days that the person helpe
H25_3_18	Number of hours during those days that the person helpe
H26C_18	Does someone help R to prepare a hot meal
H27C_18	Does someone help R to shop for groceries
H28C 18	Does someone help R to take medications
H29C_18	Does someone help R to manage his/her money
Н32 1 18	R's relationship with person helping with IADLs
H32_2_18	R's relationship with person helping with IADLs
H32_3_18	R's relationship with person helping with IADLs
H33 1 18	Registration number of person helping with IADLs
H33 2 18	Registration number of person helping with IADLs
Н33 3 18	Registration number of person helping with IADLs
H34 1 18	Number of days the person helped during last month
H34_2_18	Number of days the person helped during last month
H34 3 18	Number of days the person helped during last month
H35 1 18	Number of hours during those days that the person helpe
H35 2 18	Number of hours during those days that the person helpe
н35_3_18	Number of hours during those days that the person helpe

Activities of Daily Living and Instrumental Activities of Daily Living: Receives Informal Care from Children or Grandchildren

Wave	Variable	Label	Туре
1	R1RCCARE	rlrccare: w1 R receives informal care from kids/grandkids fo	Cateq
2	R2RCCARE	r2rccare: w2 R receives informal care from kids/grandkids fo	Categ
3	R3RCCARE	r3rccare: w3 R receives informal care from kids/grandkids fo	Categ
4	R4RCCARE	r4rccare: w4 R receives informal care from kids/grandkids fo	Categ
5	R5RCCARE	r5rccare: w5 R receives informal care from kids/grandkids fo	Categ
			,
1	S1RCCARE	slrccare: w1 S receives informal care from kids/grandkids fo	Categ
2	S2RCCARE	s2rccare: w2 S receives informal care from kids/grandkids fo	Categ
3	S3RCCARE	s3rccare: w3 S receives informal care from kids/grandkids fo	Categ
4	S4RCCARE	s4rccare: w4 S receives informal care from kids/grandkids fo	Categ
5	S5RCCARE	s5rccare: w5 S receives informal care from kids/grandkids fo	Categ
1	R1RCCAREN	r1rccaren: w1 # kids/grandkids who help R with ADLs/IADLs	Cont
2	R2RCCAREN	r2rccaren: w2 # kids/grandkids who help R with ADLs/IADLs	Cont
3	R3RCCAREN	r3rccaren: w3 # kids/grandkids who help R with ADLs/IADLs	Cont
4	R4RCCAREN	r4rccaren: w4 # kids/grandkids who help R with ADLs/IADLs	Cont
5	R5RCCAREN	r5rccaren: w5 # kids/grandkids who help R with ADLs/IADLs	Cont
1	S1RCCAREN	s1rccaren: w1 # kids/grandkids who help S with ADLs/IADLs	Cont
2	S2RCCAREN	s2rccaren: w2 # kids/grandkids who help S with ADLs/IADLs	Cont
3	S3RCCAREN	s3rccaren: w2 # kids/grandkids who help S with ADLs/IADLs	Cont.
4	S4RCCAREN	s4rccaren: w4 # kids/grandkids who help S with ADLs/IADLs	Cont
5	S5RCCAREN	s5rccaren: w5 # kids/grandkids who help S with ADLs/IADLs	Cont
9	DOIGCIMEN	solecaten. wo with kido, granakido who help o with hollo, inblo	COIIC
1	R1RCCAREDPM	rlrccaredpm: w1 days/month kids/grandkids help R with ADLs/I	Cont
2	R2RCCAREDPM	r2rccaredpm: w2 days/month kids/grandkids help R with ADLs/I	Cont
3	R3RCCAREDPM	r3rccaredpm: w3 days/month kids/grandkids help R with ADLs/I	Cont
4	R4RCCAREDPM	r4rccaredpm: w4 days/month kids/grandkids help R with ADLs/I	Cont
5	R5RCCAREDPM	r5rccaredpm: w5 days/month kids/grandkids help R with ADLs/I	Cont
1	S1RCCAREDPM	s1rccaredpm: w1 days/month kids/grandkids help S with ADLs/I	Cont
2	S2RCCAREDPM	s2rccaredpm: w2 days/month kids/grandkids help S with ADLs/I	Cont
3	S3RCCAREDPM	s3rccaredpm: w3 days/month kids/grandkids help S with ADLs/I	Cont
4	S4RCCAREDPM	s4rccaredpm: w4 days/month kids/grandkids help S with ADLs/I	Cont
5	S5RCCAREDPM	s5rccaredpm: w5 days/month kids/grandkids help S with ADLs/I	Cont
1	D1DCCADEDDMM	ml magazandamm:1 D # kida/anandkida misaina dawa of bola for	Cont
2	R1RCCAREDPMM R2RCCAREDPMM	rlrccaredpmm: w1 R # kids/grandkids missing days of help for r2rccaredpmm: w2 R # kids/grandkids missing days of help for	Cont
3	R3RCCAREDPMM	r3rccaredpmm: w3 R # kids/grandkids missing days of help for	Cont
4	R4RCCAREDPMM	r4rccaredpmm: w4 R # kids/grandkids missing days of help for	Cont
5	R5RCCAREDPMM	r5rccaredpmm: w5 R # kids/grandkids missing days of help for	Cont
_			
1	S1RCCAREDPMM	<pre>s1rccaredpmm: w1 S # kids/grandkids missing days of help for</pre>	Cont
2	S2RCCAREDPMM	s2rccaredpmm: w2 S # kids/grandkids missing days of help for	Cont
3	S3RCCAREDPMM	s3rccaredpmm: w3 S # kids/grandkids missing days of help for	Cont
4	S4RCCAREDPMM	s4rccaredpmm: w4 S # kids/grandkids missing days of help for	Cont
5	S5RCCAREDPMM	s5rccaredpmm: w5 S # kids/grandkids missing days of help for	Cont
	D1D003D=	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a .
1	R1RCCAREHR	r1rccarehr: w1 hours/day kids/grandkids help R with ADLs/IAD	Cont
2	R2RCCAREHR	r2rccarehr: w2 hours/day kids/grandkids help R with ADLs/IAD	Cont
3	R3RCCAREHR	r3rccarehr: w3 hours/day kids/grandkids help R with ADLs/IAD	Cont
4	R4RCCAREHR	r4rccarehr: w4 hours/day kids/grandkids help R with ADLs/IAD	Cont
5	R5RCCAREHR	r5rccarehr: w5 hours/day kids/grandkids help R with ADLs/IAD	Cont
1	S1RCCAREHR	s1rccarehr: w1 hours/day kids/grandkids help S with ADLs/IAD	Cont
2	S2RCCAREHR	s2rccarehr: w2 hours/day kids/grandkids help S with ADLs/IAD	Cont
3	S3RCCAREHR	s3rccarehr: w3 hours/day kids/grandkids help S with ADLs/IAD	Cont
5	201100111111111	solocaloni. "O hoalo, aay hiao, gianahiao help o wich holo, ind	00110

4 5	S4RCCAREHR S5RCCAREHR					s/day kids/grand s/day kids/grand						Cont Cont
2 3 4	R1RCCAREHRM R2RCCAREHRM R3RCCAREHRM R4RCCAREHRM R5RCCAREHRM	<pre>r2rccarehrm: r3rccarehrm: r4rccarehrm:</pre>	w2 w3 w4	R R R	# # #	kids/grandkids kids/grandkids kids/grandkids kids/grandkids kids/grandkids	missing missing missing	hours hours hours	of of of	help help	for for for	Cont Cont Cont Cont
1 2 3 4 5	S1RCCAREHRM S2RCCAREHRM S3RCCAREHRM S4RCCAREHRM S5RCCAREHRM	<pre>s2rccarehrm: s3rccarehrm: s4rccarehrm:</pre>	w2 w3 w4	S S S	# # #	kids/grandkids kids/grandkids kids/grandkids kids/grandkids kids/grandkids	missing missing missing	hours hours hours	of of of	help help help	for for for	Cont Cont Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RCCARE	1774	0.50	0.50	0.00	1.00
R2RCCARE	1674	0.55	0.50	0.00	1.00
R3RCCARE	2318	0.60	0.49	0.00	1.00
R4RCCARE	2516	0.64	0.48	0.00	1.00
R5RCCARE	2211	0.66	0.47	0.00	1.00
S1RCCARE	1148	0.35	0.48	0.00	1.00
S2RCCARE	1029	0.41	0.49	0.00	1.00
S3RCCARE	1251	0.42	0.49	0.00	1.00
S4RCCARE	1277	0.45	0.50	0.00	1.00
S5RCCARE	934	0.43	0.50	0.00	1.00
SURCCARE	934	0.54	0.50	0.00	1.00
R1RCCAREN	1774	0.76	1.06	0.00	13.00
R2RCCAREN	1674	0.84	1.04	0.00	9.00
R3RCCAREN	2318	0.81	0.86	0.00	8.00
R4RCCAREN	2516	0.87	0.89	0.00	8.00
R5RCCAREN	2211	1.02	0.97	0.00	4.00
01 D 00 A D E N	1140	0.56	0.00	0.00	0.00
S1RCCAREN	1148	0.56	0.98	0.00	9.00
S2RCCAREN	1029	0.62	0.98	0.00	8.00
S3RCCAREN	1251	0.57	0.84	0.00	6.00
S4RCCAREN	1277	0.61	0.87	0.00	8.00
S5RCCAREN	934	0.80	0.91	0.00	4.00
R1RCCAREDPM	1774	17.74	28.04	0.00	363.00
R2RCCAREDPM	1673	19.09	25.75	0.00	195.00
R3RCCAREDPM	2304	16.42	21.04	0.00	180.00
R4RCCAREDPM	2512	16.10	20.12	0.00	210.00
R5RCCAREDPM	2175	23.09	25.79	0.00	120.00
S1RCCAREDPM	1148	12.53	25.13	0.00	270.00
S2RCCAREDPM	1029	13.64	23.76	0.00	195.00
S3RCCAREDPM	1243	10.36	18.33	0.00	180.00
S4RCCAREDPM	1275	10.35	16.86	0.00	120.00
S5RCCAREDPM	921	17.40	23.50	0.00	94.00
R1RCCAREDPMM	1774	0.00	0.00	0.00	0.00
R2RCCAREDPMM	1674	0.00	0.02	0.00	1.00
R3RCCAREDPMM	2318	0.01	0.10	0.00	2.00
R4RCCAREDPMM	2516	0.01	0.08	0.00	2.00
R5RCCAREDPMM	2211	0.03	0.22	0.00	3.00
NONCCANEDENIM	2211	0.03	0.22	0.00	3.00
S1RCCAREDPMM	1148	0.00	0.00	0.00	0.00
S2RCCAREDPMM	1029	0.00	0.00	0.00	0.00
S3RCCAREDPMM	1251	0.01	0.09	0.00	1.00
					= : 3 0

Categorical Variable Codes

1277

934

0.00

0.03

S4RCCAREHRM

S5RCCAREHRM

Value	R1RCCARE	R2RCCARE	R3RCCARE	R4RCCARE	R5RCCARE
.d:DK	1		1	6	2
.h:no help received	812	729	1771	1666	1545
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	890	750	925	918	752
1.Yes	884	924	1393	1598	1459
Value	S1RCCARE	S2RCCARE	S3RCCARE	S4RCCARE	S5RCCARE
.d:DK			1	5	
.h:no help received	501	487	1213	1072	716
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	746	611	731	702	427
1.Yes	402	418	520	575	507

0.06

0.21

0.00

0.00

1.00

3.00

How Constructed

The following variables indicate whether the respondent's children or grandchildren help the respondent with any ADL or IADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs and IADLs each. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the

relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL or IADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL or IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRCCARE, RWRCCAREN, RWRCCAREDPM, RWRCCAREDPMM, RWRCCAREHR, and RWRCCAREHRM include help from a child, child-in-law, or grandchild.

RWRCCARE indicates whether any of the respondent's children or grandchildren help the respondent with ADL or IADL needs. RWRCCAREN indicates the number of the respondent's children or grandchildren who help the respondent with ADL or IADL needs. RwRCCARE is coded as 0 if none of the respondent's children or grandchildren help the respondent with ADLs or IADLS; and is coded as 1 if at least one of the respondent's children or grandchildren help the respondent with ADLs or IADLs.

RWRCCAREDPM indicates the number of total days per month the respondent's children or grandchildren help the respondent with ADL or IADL needs. If the respondent reports receiving help every day from that child or grandchild, then a value of 30 is assumed. RWRCCAREDPM is the sum of days per month for all children or grandchildren helpers, and so values can be over 30 days. RWRCCAREDPM is calculated as long as there is one non-missing value. RWRCCAREDPM is assigned a value of 0 if the respondent did not receive help from any children or grandchildren. RWRCCAREDPMM indicates the number of children or grandchildren who helped the respondent for whom no value of days was reported and was not accounted for in RWRCCAREDPMM. RWRCCAREDPMM is assigned special missing value .m if the respondent was not helped by any children or grandchildren.

RWRCCAREHR indicates the number of hours per day the respondent's children or grandchildren help the respondent with ADL or IADL needs. Respondents are asked, on days their children or grandchildren help, how many hours per day that is. If the respondent reports less than an hour for that child or grandchild, then a 1 is assumed. RWRCCAREHR is the sum of hours per day for all children or grandchildren helpers, and so values can be over 24 hours. RWRCCAREHR is calculated as long as there is one non-missing value. RWRCCAREHR is assigned a value of 0 if the respondent did not receive help from any children or grandchildren. RWRCCAREHRM indicates the number of children or grandchildren who helped the respondent for whom no value of hours was reported and was not accounted for in RWRCCAREHR. RWRCCAREHRM is assigned special missing value .m if the respondent was not helped by any children or grandchildren.

SWRCCAREN, SWRCCAREN, SWRCCAREDPM, and SWRCCAREHR indicate whether the respondent's current wave's spouse receives help from children or grandchildren, the number, and the frequency with which, and whether any are paid, and their values are taken from RWRCCARE, RWRCCAREN, RWRCCAREDPM, and RWRCCAREHR. SWRCCAREDPMM and SWRCCAREHRM indicate the number of children who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRCCAREDPMM and RWRCCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent reports 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 MHAS

Respondents are allowed to mention up to 12 caregivers each in Waves 1 and 2 for ADLs and IADLs, up to 8 caregivers each in Waves 3 and 4 for ADLs and IADLs, and up to 3 caregivers each in Wave 5 for ADLs and IADLs.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRCCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRCCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs. The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

Wave 1:	
H14	help dressing
Н15 3	spouse helps walking
H15_4	other helps walking
H16 ³	spouse helps bathing
H16 4	other helps bathing
H17 ⁻³	spouse helps eating
H17 4	other helps eating
H18 3	spouse helps getting in an out of bed
H18 4	other helps getting in an out of bed
H19 ³	spouse helps using toilet
H19 ⁻ 4	other helps using toilet
H26 3	spouse helps with hot meal
H26 4	someone helps with hot meal
H27 ⁻ 3	spouse helps with shopping
H27 4	someone helps with shopping
н28 3	spouse helps with taking medication
H28 4	someone helps with taking medication
н29 3	spouse helps with managing money
H29_4	someone helps with managing money
Wave 1 Helper:	
н22	kinship of helper
н23	roster number of helper
H24	days of help
Н25	hours of help
Н32	kinship of helper
Н33	roster number of helper
Н34	days of help
Н35	hours of help
Wave 2:	
H14	someone help you to get dressed
H15E	spouse helps
H15F	additional person helps
H16E	spouse helps
H16F	additional person helps
H17E	spouse helps
H17F	additional person helps
H18E	spouse helps
H18F	additional person helps
H19E	spouse helps
H19F	additional person helps
H26D	spouse helps
H26E	additional person helps
H27D	spouse helps
H27E	additional person helps
H28D	spouse helps
H28E	additional person helps
H29D	spouse helps
H29E	additional person helps

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Wave 2 Helper:
   H22
                    relationship
   H23
                    registration number
   H24
                    number of days (name) helped last month
                    number of hours during those days
   H32
                    relationship
   Н33
                    registration number
                    number of days (name) helped last month
   H34
   Н35
                    how many hours during those days
Wave 3:
   H14_12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
                    Someone help you to bathe or shower
   H16D 12
   H17D 12
                    Does someone help you eat your food
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22 \overline{1} 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6_12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23_1_12
                    Registration number of helper for ADLs
   H23_2_12
                    Registration number of helper for ADLs
   H23_3_12
                    Registration number of helper for ADLs
   H23 4 12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23 7 12
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24 5 12
                    Number of days (name) helped last month
   H24_6_12
                    Number of days (name) helped last month
   H24_7_12
                    Number of days (name) helped last month
   H24_8_12
                    Number of days (name) helped last month
                    Number of hours during those days (NAME) helped
   H25_1_12
   H25 2 12
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
   H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25 8 12
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32_1_12
                    Relationship with helper for IADLs
   H32_2_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
   H32_3_12
   H32 4 12
                    Relationship with helper for IADLs
   H32_5_12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32 7 12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
    H33 3 12
                    Registration number of helper for IADLs
    H33 4 12
                    Registration number of helper for IADLs
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H33 5 12
                    Registration number of helper for IADLs
   H33 6 12
                    Registration number of helper for IADLs
   н33 7 12
                    Registration number of helper for IADLs
   H33 8 12
                    Registration number of helper for IADLs
                    Number of days (name) helped last month
   H34 1 12
   H34 2 12
                    Number of days (name) helped last month
   H34 3 12
                    Number of days (name) helped last month
   H34 4 12
                    Number of days (name) helped last month
   H34 5 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34_6_12
   H34_7_12
                    Number of days (name) helped last month
   H34_8_12
                    Number of days (name) helped last month
                    Number of hours during those days (NAME) helped
   H35_1_12
   H35_2_12
H35_3_12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35 4 12
                    Number of hours during those days (NAME) helped
   H35 5 12
                    Number of hours during those days (NAME) helped
   H35 6 12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35 7 12
                    Number of hours during those days (NAME) helped
Wave 4:
                    Does someone help respondent to get dressed
   H14 15
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
                    Does someone help respondent eating
   H17D_15
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22_1_15
H22_2_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 3 15
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22 7 15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
   H23 2 15
                    Registration number of person helping with ADLs
   H23_3_15
                    Registration number of person helping with ADLs
   H23_4_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23_5_15
   H23 6 15
                    Registration number of person helping with ADLs
   H23_7_15
H23_8_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H24<sup>1</sup>15
                    Number of days the person helped during last month
   H24 2 15
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
   H24 5 15
                    Number of days the person helped during last month
   H24 6 15
                    Number of days the person helped during last month
   H24 7 15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25 1 15
                    Number of hours during those days that the person helpe
   H25_2_15
                    Number of hours during those days that the person helpe
   H25_3_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 4 15
   H25 5 15
                    Number of hours during those days that the person helpe
   H25 6 15
                    Number of hours during those days that the person helpe
   H25 7 15
                    Number of hours during those days that the person helpe
   H25 8 15
                    Number of hours during those days that the person helpe
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C 15
                    Does someone help respondent to shop for groceries
   H28C 15
                    Does someone help respondent to take medications
    H29C 15
                    Does someone help respondent to manage his/her money
    H32 1 15
                    Respondent's relationship with person helping with IADL
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H32 2 15
                    Respondent's relationship with person helping with IADL
   H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
   H32 7 15
                    Respondent's relationship with person helping with IADL
   H32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_2_15
                    Registration number of person helping with IADLs
   H33_3_15
   н33_4_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_5_15
                    Registration number of person helping with IADLs
   H33_6_15
   H33_7_15
H33_8_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H34 1 15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   H34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34 5 15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   Н34 7 15
                    Number of days the person helped during last month
   H34 8 15
                    Number of days the person helped during last month
   H35_1 15
                    Number of hours during those days that the person helpe
   H35_2_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35_3_15
   H35 4_15
                    Number of hours during those days that the person helpe
   Н35 5 15
                    Number of hours during those days that the person helpe
   Н35 6 15
                    Number of hours during those days that the person helpe
   н35 7 15
                    Number of hours during those days that the person helpe
   H35<sup>8</sup>15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22_1_18
                    R's relationship with person helping with ADLs
   H22_2_18
                    R's relationship with person helping with ADLs
   H22_3_18
                    R's relationship with person helping with ADLs
   H23_1_18
H23_2_18
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23<sup>-</sup>3<sup>-</sup>18
                    Registration number of person helping with ADLs
   H24 1 18
                    Number of days the person helped during last month
   H24 2 18
                    Number of days the person helped during last month
   H24 3 18
                    Number of days the person helped during last month
   H25 1 18
                    Number of hours during those days that the person helpe
   H25 2 18
                    Number of hours during those days that the person helpe
   H25 3 18
                    Number of hours during those days that the person helpe
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C_18
                    Does someone help R to shop for groceries
   H28C_18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32_1_18
H32_2_18
                    R's relationship with person helping with IADLs
                    R's relationship with person helping with IADLs
   H32 3 18
                    R's relationship with person helping with IADLs
   H33 1 18
                    Registration number of person helping with IADLs
   н33 2 18
                    Registration number of person helping with IADLs
   H33 3 18
                    Registration number of person helping with IADLs
   H34 1 18
                    Number of days the person helped during last month
   H34 2 18
                    Number of days the person helped during last month
    H34 3 18
                    Number of days the person helped during last month
    H35 1 18
                    Number of hours during those days that the person helpe
```

 ${
m H35_2_18}$ Number of hours during those days that the person helpe ${
m H35_3_18}$ Number of hours during those days that the person helpe

Activities of Daily Living and Instrumental Activities of Daily Living: Receives Informal Care from Relatives

Wave	Variable	Label	Туре
1	R1RRCARE	rlrrcare: w1 R receives informal care from relatives for ADL	Categ
2	R2RRCARE	r2rrcare: w2 R receives informal care from relatives for ADL	Categ
3	R3RRCARE	r3rrcare: w3 R receives informal care from relatives for ADL	Categ
4	R4RRCARE	r4rrcare: w4 R receives informal care from relatives for ADL	Categ
5	R5RRCARE	r5rrcare: w5 R receives informal care from relatives for ADL	Categ
1	S1RRCARE	slrrcare: w1 S receives informal care from relatives for ADL	Categ
2	S2RRCARE	s2rrcare: w2 S receives informal care from relatives for ADL	Categ
3	S3RRCARE	s3rrcare: w3 S receives informal care from relatives for ADL	Categ
4	S4RRCARE	s4rrcare: w4 S receives informal care from relatives for ADL	Categ
5	S5RRCARE	s5rrcare: w5 S receives informal care from relatives for ADL	Categ
1	R1RRCAREN	rlrrcaren: w1 # relatives who help R with ADLs/IADLs	Cont
2	R2RRCAREN	r2rrcaren: w2 # relatives who help R with ADLs/IADLs	Cont
3	R3RRCAREN	r3rrcaren: w3 # relatives who help R with ADLs/IADLs	Cont
4	R4RRCAREN	r4rrcaren: w4 # relatives who help R with ADLs/IADLs	Cont
5	R5RRCAREN	r5rrcaren: w5 # relatives who help R with ADLs/IADLs	Cont
1	S1RRCAREN	s1rrcaren: w1 # relatives who help S with ADLs/IADLs	Cont
2	S2RRCAREN	s2rrcaren: w2 # relatives who help S with ADLs/IADLs	Cont
3	S3RRCAREN	s3rrcaren: w3 # relatives who help S with ADLs/IADLs	Cont
4	S4RRCAREN	s4rrcaren: w4 # relatives who help S with ADLs/IADLs	Cont
5	S5RRCAREN	s5rrcaren: w5 # relatives who help S with ADLs/IADLs	Cont
1	R1RRCAREDPM	rlrrcaredpm: w1 days/month relatives help R with ADLs/IADLs	Cont
2	R2RRCAREDPM	r2rrcaredpm: w2 days/month relatives help R with ADLs/IADLs	Cont
3	R3RRCAREDPM	r3rrcaredpm: w3 days/month relatives help R with ADLs/IADLs	Cont
4	R4RRCAREDPM	r4rrcaredpm: w4 days/month relatives help R with ADLs/IADLs	Cont
5	R5RRCAREDPM	r5rrcaredpm: w5 days/month relatives help R with ADLs/IADLs	Cont
	212		~ .
1	S1RRCAREDPM	slrrcaredpm: wl days/month relatives help S with ADLs/IADLs	Cont
2	S2RRCAREDPM	s2rrcaredpm: w2 days/month relatives help S with ADLs/IADLs	Cont
3	S3RRCAREDPM	s3rrcaredpm: w3 days/month relatives help S with ADLs/IADLs	Cont
4	S4RRCAREDPM	s4rrcaredpm: w4 days/month relatives help S with ADLs/IADLs	Cont
5	S5RRCAREDPM	s5rrcaredpm: w5 days/month relatives help S with ADLs/IADLs	Cont
1	R1RRCAREDPMM	rlrrcaredpmm: w1 R # relatives missing days of help for ADLs	Cont
2	R2RRCAREDPMM	r2rrcaredpmm: w2 R # relatives missing days of help for ADLs	Cont
3	R3RRCAREDPMM	r3rrcaredpmm: w3 R # relatives missing days of help for ADLs	Cont
4	R4RRCAREDPMM	r4rrcaredpmm: w4 R # relatives missing days of help for ADLs	Cont
5	R5RRCAREDPMM	r5rrcaredpmm: w5 R # relatives missing days of help for ADLs	Cont
J	TOTAL CHILD THE	Torroareaphan. Wo It a relatives missing days of help for histo	00110
1	S1RRCAREDPMM	slrrcaredpmm: w1 S # relatives missing days of help for ADLs	Cont
2	S2RRCAREDPMM	s2rrcaredpmm: w2 S # relatives missing days of help for ADLs	Cont
3	S3RRCAREDPMM	s3rrcaredpmm: w3 S # relatives missing days of help for ADLs	Cont
4	S4RRCAREDPMM	s4rrcaredpmm: w4 S # relatives missing days of help for ADLs	Cont
5	S5RRCAREDPMM	s5rrcaredpmm: w5 S # relatives missing days of help for ADLs	Cont
1	R1RRCAREHR	rlrrcarehr: wl hours/day relatives help R with ADLs/IADLs	Cont
2	R2RRCAREHR	r2rrcarehr: w2 hours/day relatives help R with ADLs/IADLs	Cont
3	R3RRCAREHR	r3rrcarehr: w3 hours/day relatives help R with ADLs/IADLs	Cont
4	R4RRCAREHR	r4rrcarehr: w4 hours/day relatives help R with ADLs/IADLs	Cont
5	R5RRCAREHR	r5rrcarehr: w5 hours/day relatives help R with ADLs/IADLs	Cont
1	S1RRCAREHR	s1rrcarehr: w1 hours/day relatives help S with ADLs/IADLs	Cont
2	S2RRCAREHR	s2rrcarehr: w2 hours/day relatives help S with ADLs/IADLs	Cont
3	S3RRCAREHR	s3rrcarehr: w3 hours/day relatives help S with ADLs/IADLs	Cont
4	S4RRCAREHR	s4rrcarehr: w4 hours/day relatives help S with ADLs/IADLs	Cont
5	S5RRCAREHR	s5rrcarehr: w5 hours/day relatives help S with ADLs/IADLs	Cont

1	R1RRCAREHRM	rlrrcarehrm:	w1	R	#	relatives	missing	hours	of	help	for	ADLs	Cont
2	R2RRCAREHRM	r2rrcarehrm:	w2	R	#	relatives	missing	hours	of	help	for	ADLs	Cont
3	R3RRCAREHRM	r3rrcarehrm:	wЗ	R	#	relatives	missing	hours	of	help	for	ADLs	Cont
4	R4RRCAREHRM	r4rrcarehrm:	w4	R	#	relatives	missing	hours	of	help	for	ADLs	Cont
5	R5RRCAREHRM	r5rrcarehrm:	w5	R	#	relatives	missing	hours	of	help	for	ADLs	Cont
1	S1RRCAREHRM	s1rrcarehrm:	w1	S	#	relatives	missing	hours	of	help	for	ADLs	Cont
2	S2RRCAREHRM	s2rrcarehrm:	w2	S	#	relatives	missing	hours	of	help	for	ADLs	Cont
3	S3RRCAREHRM	s3rrcarehrm:	wЗ	S	#	relatives	missing	hours	of	help	for	ADLs	Cont
4	S4RRCAREHRM	s4rrcarehrm:	w4	S	#	relatives	missing	hours	of	help	for	ADLs	Cont
5	S5RRCAREHRM	s5rrcarehrm:	w5	S	#	relatives	missing	hours	of	help	for	ADLs	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RRCARE	1774	0.04	0.20	0.00	1.00
R2RRCARE	1674	0.05	0.22	0.00	1.00
R3RRCARE	2318	0.05	0.21	0.00	1.00
R4RRCARE	2516	0.04	0.21	0.00	1.00
R5RRCARE	2211	0.05	0.22	0.00	1.00
ROTRICIAL	2211	0.00	0.22	0.00	1.00
S1RRCARE	1148	0.01	0.12	0.00	1.00
S2RRCARE	1029	0.01	0.10	0.00	1.00
S3RRCARE	1251	0.02	0.12	0.00	1.00
S4RRCARE	1277	0.01	0.10	0.00	1.00
S5RRCARE	934	0.01	0.10	0.00	1.00
R1RRCAREN	1774	0.05	0.27	0.00	3.00
R2RRCAREN	1674	0.06	0.34	0.00	8.00
R3RRCAREN	2318	0.06	0.31	0.00	4.00
R4RRCAREN	2516	0.06	0.32	0.00	8.00
R5RRCAREN	2211	0.07	0.33	0.00	3.00
S1RRCAREN	1148	0.02	0.16	0.00	3.00
S2RRCAREN	1029	0.01	0.10	0.00	1.00
S3RRCAREN	1251	0.02	0.13	0.00	2.00
S4RRCAREN	1277	0.01	0.11	0.00	2.00
S5RRCAREN	934	0.01	0.16	0.00	3.00
R1RRCAREDPM	1774	1.10	6.44	0.00	90.00
R2RRCAREDPM	1674	1.64	9.88	0.00	240.00
R3RRCAREDPM	2317	1.27	6.97	0.00	90.00
R4RRCAREDPM	2514	1.25	8.32	0.00	240.00
R5RRCAREDPM	2208	1.44	8.06	0.00	90.00
S1RRCAREDPM	1148	0.39	3.92	0.00	75.00
S2RRCAREDPM	1029	0.21	2.36	0.00	30.00
S3RRCAREDPM	1251	0.36	3.37	0.00	60.00
S4RRCAREDPM	1277	0.21	2.61	0.00	60.00
S5RRCAREDPM	934	0.17	3.15	0.00	90.00
R1RRCAREDPMM	1774	0.00	0.00	0.00	0.00
R2RRCAREDPMM	1674	0.00	0.00	0.00	0.00
R3RRCAREDPMM	2318	0.00	0.04	0.00	2.00
R4RRCAREDPMM	2516	0.00	0.03	0.00	1.00
R5RRCAREDPMM	2211	0.00	0.06	0.00	2.00
1.01.1.0111.1.D11.1111	2211	0.00	0.00	0.00	2.00
S1RRCAREDPMM	1148	0.00	0.00	0.00	0.00
S2RRCAREDPMM	1029	0.00	0.00	0.00	0.00
S3RRCAREDPMM	1251	0.00	0.00	0.00	0.00
S4RRCAREDPMM	1277	0.00	0.00	0.00	0.00
S5RRCAREDPMM	934	0.00	0.00	0.00	0.00

R1RRCAREHR	1774	0.30	2.20	0.00	49.00
R2RRCAREHR	1674	0.33	2.08	0.00	36.00
R3RRCAREHR	2315	0.47	3.36	0.00	72.00
R4RRCAREHR	2515	0.27	1.82	0.00	32.00
R5RRCAREHR	2207	0.43	3.79	0.00	72.00
S1RRCAREHR	1148	0.18	2.07	0.00	49.00
S2RRCAREHR	1029	0.08	0.94	0.00	16.00
S3RRCAREHR	1251	0.13	1.49	0.00	24.00
S4RRCAREHR	1277	0.05	0.75	0.00	21.00
S5RRCAREHR	934	0.13	2.57	0.00	72.00
R1RRCAREHRM	1774	0.00	0.00	0.00	0.00
R2RRCAREHRM	1674	0.00	0.00	0.00	0.00
R3RRCAREHRM	2318	0.00	0.04	0.00	1.00
R4RRCAREHRM	2516	0.00	0.02	0.00	1.00
R5RRCAREHRM	2211	0.00	0.07	0.00	2.00
S1RRCAREHRM	1148	0.00	0.00	0.00	0.00
S2RRCAREHRM	1029	0.00	0.00	0.00	0.00
S3RRCAREHRM	1251	0.00	0.00	0.00	0.00
S4RRCAREHRM	1277	0.00	0.00	0.00	0.00
S5RRCAREHRM	934	0.00	0.00	0.00	0.00

Categorical Variable Codes

Value	R1RRCARE	R2RRCARE	R3RRCARE	R4RRCARE	R5RRCARE
.d:DK	1		1	6	2
.h:no help received	812	729	1771	1666	1545
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	1700	1591	2206	2403	2096
1.Yes	74	83	112	113	115
Value	S1RRCARE	S2RRCARE	S3RRCARE	S4RRCARE	S5RRCARE
.d:DK			1	5	
.h:no help received	501	487	1213	1072	716
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	1131	1019	1232	1265	925
1.Yes	17	10	19	12	9

How Constructed

The following variables indicate whether any of the respondent's relatives help the respondent with any ADL or IADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs and IADLs each. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL or IADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL or IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRRCARE, RWRRCAREN, RWRRCAREDPM, RWRRCAREDPMM, RWRRCAREHR, and RWRRCAREHRM include help from the respondent's parent or other relative.

RWRRCARE indicates whether any of the respondent's relatives help the respondent with ADL or IADL needs. RWRRCAREN indicates the number of the respondent's relatives who help the respondent with ADL or IADL needs. RWRRCARE is coded as 0 if none of the respondent's relatives help the respondent with ADLs or IADLS; and is coded as 1 if at least one of the respondent's relatives help the respondent with ADLs or IADLS.

RWRRCAREDPM indicates the number of total days per month the respondent's relatives help the respondent with ADL or IADL needs. If the respondent reports receiving help every day from that relative, then a value of 30 is assumed. RWRRCAREDPM is the sum of days per month for all relative helpers, and so values can be over 30 days. RWRRCAREDPM is calculated as long as there is one non-missing value. RWRRCAREDPM is assigned a value of 0 if the respondent did not receive help from any relatives. RWRRCAREDPMM indicates the number of relatives who helped the respondent for whom no value of days was reported and was not accounted for in RWRRCAREDPM. RWRRCAREDPMM is assigned special missing value .m if the respondent was not helped by any relatives.

RWRRCAREHR indicates the number of hours per day the respondent's relatives help the respondent with ADL or IADL needs. Respondents are asked, on days their relatives help, how many hours per day that is. If the respondent reports less than an hour for that relative, then a 1 is assumed. RWRRCAREHR is the sum of hours per day for all relative helpers, and so values can be over 24 hours. RWRRCAREHR is calculated as long as there is one non-missing value. RWRRCAREHR is assigned a value of 0 if the respondent did not receive help from any relatives. RWRRCAREHRM indicates the number of relatives who helped the respondent for whom no value of hours was reported and was not accounted for in RWRRCAREHR. RWRRCAREHRM is assigned special missing value .m if the respondent was not helped by any relatives.

SWRRCARE, SWRRCAREN, SWRRCAREDPM, and SWRRCAREHR indicate whether the respondent's current wave's spouse receives help from relatives, the number, and the frequency with which, and their values are taken from RWRRCARE, RWRRCAREN, RWRRCAREDPM, and RWRRCAREHR. SWRRCAREDPMM and SWRRCAREHRM indicate the number of relatives who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRRCAREDPMM and RWRRCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers each in Waves 1 and 2 for ADLs and IADLs, up to 8 caregivers each in Waves 3 and 4 for ADLs and IADLs, and up to 3 caregivers each in Wave 5 for ADLs and IADLs.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRRCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRRCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs. The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

```
Wave 1:
   H14
                    help dressing
    H15 3
                    spouse helps walking
    H15 4
                    other helps walking
    H16 3
                   spouse helps bathing
   H16 4
                    other helps bathing
   H17 3
                   spouse helps eating
   H17 4
                   other helps eating
   H18 3
                   spouse helps getting in an out of bed
   H18 4
                   other helps getting in an out of bed
   H19_3
                    spouse helps using toilet
   H19 4
                    other helps using toilet
   H26 3
                    spouse helps with hot meal
   H26 4
                   someone helps with hot meal
   H27 3
                   spouse helps with shopping
   H27 4
                  someone helps with shopping
   H28 3
                  spouse helps with taking medication
   H28 4
                    someone helps with taking medication
   H29 3
                    spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 1 Helper:
   H22
                    kinship of helper
    H23
                    roster number of helper
    H24
                    days of help
    H25
                    hours of help
    H32
                    kinship of helper
    Н33
                    roster number of helper
                    days of help
    H34
    H35
                    hours of help
Wave 2:
    H14
                    someone help you to get dressed
    H15E
                    spouse helps
                    additional person helps
                    spouse helps
    H16E
    H16F
                    additional person helps
    H17E
                    spouse helps
    H17F
                    additional person helps
    H18E
                    spouse helps
                    additional person helps
    H18F
    H19E
                    spouse helps
    H19F
                    additional person helps
   H26D
                    spouse helps
   H26E
                    additional person helps
   H27D
                    spouse helps
   H27E
                    additional person helps
   H28D
                    spouse helps
   H28E
                    additional person helps
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
    H24
                    number of days (name) helped last month
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number of hours during those days
   H32
                    relationship
                    registration number
   H33
   Н34
                    number of days (name) helped last month
                    how many hours during those days
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
   H17D 12
                    Does someone help you eat your food
   H18D_12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22_1_12
                    Relationship with helper for ADLs
   H22_2_12
H22_3_12
                    Relationship with helper for ADLs
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23 4 12
   H23_5_12
                    Registration number of helper for ADLs
   H23_6_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H23_7_12
   H23 8 12
                    Registration number of helper for ADLs
   H24_1_12
H24_2_12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24 5 12
                    Number of days (name) helped last month
   H24 6 12
                    Number of days (name) helped last month
   H24 7 12
                    Number of days (name) helped last month
   H24 8 12
                    Number of days (name) helped last month
   H25_1_12
                    Number of hours during those days (NAME) helped
   H25_2_12
                    Number of hours during those days (NAME) helped
   H25_3_12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H25_4_12
   H25_5_12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
   H25 8 12
                    Number of hours during those days (NAME) helped
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32 1 12
                    Relationship with helper for IADLs
   H32 2 12
                    Relationship with helper for IADLs
   H32 3 12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32_5_12
                    Relationship with helper for IADLs
   H32_6_12
                    Relationship with helper for IADLs
   H32_7_12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33_1_12
H33_2_12
                    Registration number of helper for IADLs
                    Registration number of helper for ADLs
   н33 3 12
                    Registration number of helper for IADLs
   H33 4 12
                    Registration number of helper for IADLs
   H33 5 12
                    Registration number of helper for IADLs
    H33 6 12
                    Registration number of helper for IADLs
    H33 7 12
                    Registration number of helper for IADLs
    Н33 8 12
                    Registration number of helper for IADLs
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H34 1 12
                    Number of days (name) helped last month
   H34 2 12
                    Number of days (name) helped last month
   H34<sup>3</sup>12
                    Number of days (name) helped last month
   H34 4 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 5 12
   H34 6 12
                    Number of days (name) helped last month
   H34 7 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 8 12
   H35_1_12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35_2_12
   H35_3_12
                    Number of hours during those days (NAME) helped
   H35_4_12
                    Number of hours during those days (NAME) helped
   H35_5_12
                    Number of hours during those days (NAME) helped
   H35_6_12
H35_7_12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
                    Does someone help respondent bathing or showering
   H16D 15
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
   H19D 15
                    Does someone help respondent using the toilet
   H22 1 15
                    Respondent's relationship with person helping with ADLs
   H22_2_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22_3_15
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22<sup>7</sup>15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 2 15
   H23 3 15
                    Registration number of person helping with ADLs
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
   H23 6 15
                    Registration number of person helping with ADLs
   H23_7_15
                    Registration number of person helping with ADLs
   H23_8_15
                    Registration number of person helping with ADLs
   H24_1_15
H24_2_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
   H24 5 15
                    Number of days the person helped during last month
   H24 6 15
                    Number of days the person helped during last month
   H24 7 15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25 1 15
                    Number of hours during those days that the person helpe
   H25 2 15
                    Number of hours during those days that the person helpe
   H25 3 15
                    Number of hours during those days that the person helpe
   H25 4 15
                    Number of hours during those days that the person helpe
   H25 5 15
                    Number of hours during those days that the person helpe
   H25 6 15
                    Number of hours during those days that the person helpe
   H25_7_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 8 15
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C_15
H28C_15
                    Does someone help respondent to shop for groceries
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
   H32 1 15
                    Respondent's relationship with person helping with IADL
   H32 2 15
                    Respondent's relationship with person helping with IADL
   H32 3 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
    H32 4 15
    H32 5 15
                    Respondent's relationship with person helping with IADL
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H32 6 15
                    Respondent's relationship with person helping with IADL
   H32 7 15
                    Respondent's relationship with person helping with IADL
   н32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
   H33 2 15
                    Registration number of person helping with IADLs
   Н33 3 15
                    Registration number of person helping with IADLs
   H33 4 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 5 15
   н33_6_15
                    Registration number of person helping with IADLs \,
                    Registration number of person helping with IADLs
   H33_7_15
   н33_8_15
                    Registration number of person helping with IADLs
   H34_1_15
                    Number of days the person helped during last month
   H34_2_15
                    Number of days the person helped during last month
   Н34 3 15
                    Number of days the person helped during last month
   н34 4 15
                    Number of days the person helped during last month
   H34<sup>5</sup>15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   H34 7 15
                    Number of days the person helped during last month
   H34 8 15
                    Number of days the person helped during last month
   H35 1 15
                    Number of hours during those days that the person helpe
   Н35 2 15
                    Number of hours during those days that the person helpe
   Н35 3 15
                    Number of hours during those days that the person helpe
   H35 4 15
                    Number of hours during those days that the person helpe
   Н35 5 15
                    Number of hours during those days that the person helpe
   Н35_6_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35_7_15
   H35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22 1 18
                    R's relationship with person helping with ADLs
   H22 2 18
                    R's relationship with person helping with ADLs
   H22_3_18
                    R's relationship with person helping with ADLs
   H23_1_18
                    Registration number of person helping with ADLs
   H23_2_18
                    Registration number of person helping with ADLs
   H23_3_18
H24_1_18
                    Registration number of person helping with ADLs
                    Number of days the person helped during last month
   H24 2 18
                    Number of days the person helped during last month
   H24 3 18
                    Number of days the person helped during last month
   H25 1 18
                    Number of hours during those days that the person helpe
   H25 2 18
                    Number of hours during those days that the person helpe
   H25 3 18
                    Number of hours during those days that the person helpe
   H26C 18
                    Does someone help R to prepare a hot meal
                    Does someone help R to shop for groceries
   H27C 18
   H28C 18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32_1_18
                    R's relationship with person helping with IADLs
   H32 2 18
                    R's relationship with person helping with IADLs
   H32_3_18
                    R's relationship with person helping with IADLs
   H33_1_18
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_2_18
   Н33 3 18
                    Registration number of person helping with IADLs
   H34_1_18
H34_2_18
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H34 3 18
                    Number of days the person helped during last month
   H35 1 18
                    Number of hours during those days that the person helpe
   H35 2 18
                    Number of hours during those days that the person helpe
   H35_3 18
                    Number of hours during those days that the person helpe
```

Activities of Daily Living and Instrumental Activities of Daily Living: Receives Informal Care from Other Individuals

Wave	Variable	Label	Туре
1	R1RFCARE	rlrfcare: wl R receives informal care from non-relatives for	Categ
2	R2RFCARE	r2rfcare: w2 R receives informal care from non-relatives for	Categ
3	R3RFCARE	r3rfcare: w3 R receives informal care from non-relatives for	Categ
4	R4RFCARE	r4rfcare: w4 R receives informal care from non-relatives for	Categ
5	R5RFCARE	r5rfcare: w5 R receives informal care from non-relatives for	Categ
J	TOTAL OFFICE	Torroate. Wo IN Tooch to Informat out of from non folder to for	ouccg
1	S1RFCARE	slrfcare: w1 S receives informal care from non-relatives for	Categ
2	S2RFCARE	s2rfcare: w2 S receives informal care from non-relatives for	Categ
3	S3RFCARE	s3rfcare: w3 S receives informal care from non-relatives for	Categ
4	S4RFCARE	s4rfcare: w4 S receives informal care from non-relatives for	Categ
5	S5RFCARE	s5rfcare: w5 S receives informal care from non-relatives for	Categ
J	DOTAL CLINE	bollouic. Wo b localves informat outs from non relactives for	ouccg
1	R1RFCAREN	rlrfcaren: w1 # non-relatives who help R with ADLs/IADLs	Cont
2	R2RFCAREN	r2rfcaren: w2 # non-relatives who help R with ADLs/IADLs	Cont
3	R3RFCAREN	r3rfcaren: w3 # non-relatives who help R with ADLs/IADLs	Cont
4	R4RFCAREN	r4rfcaren: w4 # non-relatives who help R with ADLs/IADLs	Cont
5	R5RFCAREN	r5rfcaren: w5 # non-relatives who help R with ADLs/IADLs	Cont
J	KJKECAKEN	isiteaten. WS # non relacives who help k with ADES/IADES	COIIC
1	S1RFCAREN	s1rfcaren: w1 # non-relatives who help S with ADLs/IADLs	Cont
2	S2RFCAREN	s2rfcaren: w2 # non-relatives who help S with ADLs/IADLs	Cont
3	S3RFCAREN	s3rfcaren: w3 # non-relatives who help S with ADLs/IADLs	Cont
4	S4RFCAREN	s4rfcaren: w4 # non-relatives who help S with ADLs/IADLs	Cont.
5	S5RFCAREN	s5rfcaren: w5 # non-relatives who help S with ADLs/IADLs	Cont
5	SURFCAREN	SoftCaten: Wo # non-relactives who help 5 with ADLS/IADLS	COIIC
1	R1RFCAREDPM	r1rfcaredpm: w1 days/month non-relatives help R with ADLs/IA	Cont
2	R2RFCAREDPM	r2rfcaredpm: w2 days/month non-relatives help R with ADLs/IA	Cont
3	R3RFCAREDPM	r3rfcaredpm: w3 days/month non-relatives help R with ADLs/IA	Cont
4	R4RFCAREDPM	r4rfcaredpm: w4 days/month non-relatives help R with ADLs/IA	Cont
5		r5rfcaredpm: w5 days/month non-relatives help R with ADLs/IA	
3	R5RFCAREDPM	in in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	Cont
1	S1RFCAREDPM	slrfcaredpm: w1 days/month non-relatives help S with ADLs/IA	Cont
2	S2RFCAREDPM	s2rfcaredpm: w2 days/month non-relatives help S with ADLs/IA	Cont
3	S3RFCAREDPM	s3rfcaredpm: w3 days/month non-relatives help S with ADLs/IA	Cont
4	S4RFCAREDPM	s4rfcaredpm: w4 days/month non-relatives help S with ADLs/IA	Cont
5	S5RFCAREDPM	s5rfcaredpm: w5 days/month non-relatives help S with ADLs/IA	Cont
J	DOIN CHINEDIN	bollouleapin. Wo dayo, monen non letaelves nelp b with hono, in	COIIC
1	R1RFCAREDPMM	rlrfcaredpmm: w1 R # non-relatives missing days of help for	Cont
2	R2RFCAREDPMM	r2rfcaredpmm: w2 R # non-relatives missing days of help for	Cont
3	R3RFCAREDPMM	r3rfcaredpmm: w3 R # non-relatives missing days of help for	Cont
4	R4RFCAREDPMM	r4rfcaredpmm: w4 R # non-relatives missing days of help for	Cont
5	R5RFCAREDPMM	r5rfcaredpmm: w5 R # non-relatives missing days of help for	Cont
-			
1	S1RFCAREDPMM	s1rfcaredpmm: w1 S # non-relatives missing days of help for	Cont
2	S2RFCAREDPMM	s2rfcaredpmm: w2 S # non-relatives missing days of help for	Cont
3	S3RFCAREDPMM	s3rfcaredpmm: w3 S # non-relatives missing days of help for	Cont
4	S4RFCAREDPMM	s4rfcaredpmm: w4 S # non-relatives missing days of help for	Cont
5	S5RFCAREDPMM	s5rfcaredpmm: w5 S # non-relatives missing days of help for	Cont
J	DONE CANDDERIM	our careapium. wo o # non retactives intesting days of help tor	COIIC
1	R1RFCAREHR	rlrfcarehr: w1 hours/day non-relatives help R with ADLs/IADL	Cont
2	R2RFCAREHR	r2rfcarehr: w2 hours/day non-relatives help R with ADLs/IADL	Cont
3	R3RFCAREHR	r3rfcarehr: w3 hours/day non-relatives help R with ADLs/IADL	Cont
4	R4RFCAREHR	r4rfcarehr: w4 hours/day non-relatives help R with ADLs/IADL	Cont
5	R5RFCAREHR	r5rfcarehr: w5 hours/day non-relatives help R with ADLs/IADL	Cont
J	TOTAL OPPLEMENT	Tottoatoni. Wo houts, day how retactives help it with ADBS/IADB	00110
1	S1RFCAREHR	s1rfcarehr: w1 hours/day non-relatives help S with ADLs/IADL	Cont
2	S2RFCAREHR	s2rfcarehr: w2 hours/day non-relatives help S with ADLs/IADL	Cont
3	S3RFCAREHR	s3rfcarehr: w3 hours/day non-relatives help S with ADLs/IADL	Cont
-			

4 5	S4RFCAREHR S5RFCAREHR					s/day non-rela s/day non-rela						Cont Cont
1 2 3 4 5	R1RFCAREHRM R2RFCAREHRM R3RFCAREHRM R4RFCAREHRM R5RFCAREHRM	<pre>r2rfcarehrm: r3rfcarehrm: r4rfcarehrm:</pre>	w2 w3 w4	R R R	# # #	non-relatives non-relatives non-relatives non-relatives non-relatives	missing missing missing	hours hours hours	of of of	help help help	for for for	Cont Cont Cont Cont
1 2 3 4 5	S1RFCAREHRM S2RFCAREHRM S3RFCAREHRM S4RFCAREHRM S5RFCAREHRM	<pre>s2rfcarehrm: s3rfcarehrm: s4rfcarehrm:</pre>	w2 w3 w4	S S S	# # #	non-relatives non-relatives non-relatives non-relatives non-relatives	missing missing missing	hours hours hours	of of of	help help help	for for for	Cont Cont Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RFCARE	1774	0.03	0.17	0.00	1.00
R2RFCARE	1674	0.03	0.18	0.00	1.00
R3RFCARE	2318	0.04	0.19	0.00	1.00
R4RFCARE	2516	0.03	0.17	0.00	1.00
R5RFCARE	2211	0.07	0.25	0.00	1.00
S1RFCARE	1148	0.01	0.10	0.00	1.00
S2RFCARE	1029	0.02	0.13	0.00	1.00
S3RFCARE	1251	0.01	0.12	0.00	1.00
S4RFCARE	1277	0.01	0.10	0.00	1.00
S5RFCARE	934	0.06	0.24	0.00	1.00
R1RFCAREN	1774	0.04	0.26	0.00	6.00
R2RFCAREN	1674	0.03	0.19	0.00	2.00
R3RFCAREN	2318	0.03	0.21	0.00	4.00
R4RFCAREN	2516	0.03	0.18	0.00	3.00
	2211	0.03	0.30	0.00	3.00
R5RFCAREN	2211	0.07	0.30	0.00	3.00
S1RFCAREN	1148	0.01	0.11	0.00	2.00
S2RFCAREN	1029	0.02	0.13	0.00	1.00
S3RFCAREN	1251	0.01	0.12	0.00	1.00
S4RFCAREN	1277	0.01	0.10	0.00	1.00
S5RFCAREN	934	0.06	0.25	0.00	3.00
R1RFCAREDPM	1774	0.76	5.61	0.00	120.00
R2RFCAREDPM	1674	0.73	4.67	0.00	60.00
R3RFCAREDPM	2317	0.74	4.49	0.00	42.00
R4RFCAREDPM	2517	0.49	3.59	0.00	46.00
R5RFCAREDPM	2197	1.46	6.78	0.00	90.00
S1RFCAREDPM	1148	0.15	2.09	0.00	46.00
S2RFCAREDPM	1029	0.42	3.42	0.00	30.00
S3RFCAREDPM	1251	0.22	2.32	0.00	30.00
S4RFCAREDPM	1277	0.17	2.10	0.00	30.00
S5RFCAREDPM	929	1.33	6.00	0.00	30.00
R1RFCAREDPMM	1774	0.00	0.00	0.00	0.00
R2RFCAREDPMM	1674	0.00	0.00	0.00	0.00
R3RFCAREDPMM	2318	0.00	0.02	0.00	1.00
R4RFCAREDPMM	2516	0.00	0.02	0.00	1.00
R5RFCAREDPMM	2211	0.00	0.11	0.00	2.00
MONE CAMEDELIM	2211	0.01	0.11	0.00	2.00
S1RFCAREDPMM	1148	0.00	0.00	0.00	0.00
S2RFCAREDPMM	1029	0.00	0.00	0.00	0.00
S3RFCAREDPMM	1251	0.00	0.00	0.00	0.00

S4RFCAREDPMM S5RFCAREDPMM	1277 934	0.00 0.01	0.00	0.00	0.00
R1RFCAREHR	1774	0.12	1.14	0.00	24.00
R2RFCAREHR	1674	0.12	0.92	0.00	14.00
R3RFCAREHR	2317	0.23	1.84	0.00	24.00
R4RFCAREHR	2515	0.15	1.26	0.00	24.00
R5RFCAREHR	2199	0.34	2.10	0.00	36.00
S1RFCAREHR	1148	0.02	0.36	0.00	10.00
S2RFCAREHR	1029	0.08	0.83	0.00	12.00
S3RFCAREHR	1250	0.13	1.57	0.00	24.00
S4RFCAREHR	1277	0.05	0.60	0.00	12.00
S5RFCAREHR	929	0.32	1.88	0.00	24.00
R1RFCAREHRM	1774	0.00	0.00	0.00	0.00
R2RFCAREHRM	1674	0.00	0.00	0.00	0.00
R3RFCAREHRM	2318	0.00	0.02	0.00	1.00
R4RFCAREHRM	2516	0.00	0.02	0.00	1.00
R5RFCAREHRM	2211	0.01	0.11	0.00	2.00
S1RFCAREHRM	1148	0.00	0.00	0.00	0.00
S2RFCAREHRM	1029	0.00	0.00	0.00	0.00
S3RFCAREHRM	1251	0.00	0.03	0.00	1.00
S4RFCAREHRM	1277	0.00	0.00	0.00	0.00
S5RFCAREHRM	934	0.01	0.09	0.00	1.00

Categorical Variable Codes

Value	R1RFCARE	R2RFCARE	R3RFCARE	R4RFCARE	R5RFCARE
.d:DK	1		1	6	2
.h:no help received	812	729	1771	1666	1545
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	1723	1621	2231	2443	2067
1.Yes	51	53	87	73	144
Value	S1RFCARE	S2RFCARE	S3RFCARE	S4RFCARE	S5RFCARE
.d:DK			1	5	
.h:no help received	501	487	1213	1072	716
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	1137	1010	1233	1264	878
1.Yes	11	19	18	13	56

How Constructed

The following variables indicate whether any non-relative helps the respondent with any ADL or IADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs and IADLs each. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster number follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship

type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL or IADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL or IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRFCARE, RWRFCAREN, RWRFCAREDPM, RWRFCAREDPMM, RWRFCAREHR, and RWRFCAREHRM include help from another person (not their spouse, child, child-in-law, grandchild, parent, other relative, or paid person).

RWRFCARE indicates whether any of the respondent's non-relatives help the respondent with ADL or IADL needs. RWRFCAREN indicates the number of the respondent's non-relatives who help the respondent with ADL or IADL needs. RWRRCARE is coded as 0 if none of the respondent's non-relatives help the respondent with ADLs or IADLS; and is coded as 1 if at least one of the respondent's non-relatives help the respondent with ADLs or IADLs.

RWRFCAREDPM indicates the number of total days per month the respondent's non-relatives help the respondent with ADL or IADL needs. If the respondent reports receiving help every day from that non-relative, then a value of 30 is assumed. RWRFCAREDPM is the sum of days per month for all non-relative helpers, and so values can be over 30 days. RWRFCAREDPM is calculated as long as there is one non-missing value. RWRFCAREDPM is assigned a value of 0 if the respondent did not receive help from any non-relatives. RWRFCAREDPMM indicates the number of non-relatives who helped the respondent for whom no value of days was reported and was not accounted for in RWRFCAREDPM. RWRFCAREDPMM is assigned special missing value .m if the respondent was not helped by any non-relatives.

RWRFCAREHR indicates the number of hours per day the respondent's non-relatives help the respondent with ADL or IADL needs. Respondents are asked, on days their non-relatives help, how many hours per day that is. If the respondent reports less than an hour for that non-relative, then a 1 is assumed. RWRFCAREHR is the sum of hours per day for all non-relative helpers, and so values can be over 24 hours. RWRFCAREHR is calculated as long as there is one non-missing value. RWRFCAREHR is assigned a value of 0 if the respondent did not receive help from any non-relatives. RWRFCAREHRM indicates the number of non-relatives who helped the respondent for whom no value of hours was reported and was not accounted for in RWRFCAREHR. RWRFCAREDHRM is assigned special missing value .m if the respondent was not helped by any non-relatives.

SWRFCAREN, SWRFCAREN, SWRFCAREDPM, and SWRFCAREHR indicate whether the respondent's current wave's spouse receives help from non-relatives, the number, and the frequency with which, and their values are taken from RWRFCARE, RWRFCAREN, RWRFCAREDPM, and RWRFCAREHR. SWRFCAREDPMM and SWRFCAREHRM indicate the number of non-relatives who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRFCAREDPMM and RWRFCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers each in Waves 1 and 2 for ADLs and IADLs, up to 8 caregivers each in Waves 3 and 4 for ADLs and IADLs, and up to 3 caregivers each in Wave 5 for ADLs and IADLs.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs. The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

```
Wave 1:
   H14
                   help dressing
   H15 3
                    spouse helps walking
   H15 4
                    other helps walking
   H16 3
                   spouse helps bathing
                   other helps bathing
   H16 4
   H17_3
                   spouse helps eating
   H17_4
                    other helps eating
   H18 3
                    spouse helps getting in an out of bed
   H18 4
                    other helps getting in an out of bed
   H19<sup>3</sup>
                   spouse helps using toilet
   H19 4
                   other helps using toilet
   H26 3
                   spouse helps with hot meal
   H26 4
                   someone helps with hot meal
   H27<sup>3</sup>
                  spouse helps with shopping
   H27 4
                  someone helps with shopping
   H28 3
                  spouse helps with taking medication
   H28 4
                  someone helps with taking medication
   H29 3
                    spouse helps with managing money
   H29 4
                    someone helps with managing money
Wave 1 Helper:
   H22
                    kinship of helper
    H23
                    roster number of helper
    H24
                    days of help
    H25
                    hours of help
    H32
                    kinship of helper
                    roster number of helper
   H33
    Н34
                    days of help
    Н35
                    hours of help
Wave 2:
   H14
                    someone help you to get dressed
   H15E
                    spouse helps
   H15F
                    additional person helps
   H16E
                    spouse helps
                    additional person helps
   H16F
    H17E
                    spouse helps
    H17F
                    additional person helps
    H18E
                    spouse helps
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
   H26D
                   spouse helps
   H26E
                    additional person helps
   H27D
                    spouse helps
   H27E
                    additional person helps
   H28D
                    spouse helps
   H28E
                    additional person helps
   H29D
                    spouse helps
   H29E
                    additional person helps
Wave 2 Helper:
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relationship
                    registration number
   H23
   H24
                    number of days (name) helped last month
   H25
                    number of hours during those days
                    relationship
                    registration number
   H34
                    number of days (name) helped last month
   H35
                    how many hours during those days
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
   H16D_12
                    Someone help you to bathe or shower
                    Does someone help you eat your food
   H17D 12
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22 \overline{1} 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
                    Registration number of helper for ADLs
   H23 1 12
   H23_2_12
                    Registration number of helper for ADLs
   H23_3_12
                    Registration number of helper for ADLs
   H23_4_12
                    Registration number of helper for ADLs
   H23_5_12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23<sup>7</sup>12
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24 5 12
                    Number of days (name) helped last month
   H24 6 12
                    Number of days (name) helped last month
   H24_7_12
                    Number of days (name) helped last month
   H24_8_12
                    Number of days (name) helped last month
   H25_1_12
                    Number of hours during those days (NAME) helped
   H25_2_12
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
   H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
   H25 8 12
                    Number of hours during those days (NAME) helped
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32_1_12
                    Relationship with helper for IADLs
   H32_2_12
                    Relationship with helper for IADLs
   H32_3_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
   H32 4 12
   H32_5_12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32<sup>7</sup>12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
   H33 3 12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
    H33 4 12
    H33 5 12
                    Registration number of helper for IADLs
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н33 6 12
                    Registration number of helper for IADLs
   H33 7 12
                    Registration number of helper for IADLs
   н33 8 12
                    Registration number of helper for IADLs
   H34 1 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 3 12
                    Number of days (name) helped last month
   H34 4 12
                    Number of days (name) helped last month
   H34 5 12
                    Number of days (name) helped last month
   H34 6 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34_7_12
   H34_8_12
                    Number of days (name) helped last month
                    Number of hours during those days (NAME) helped
   H35_1_12
   H35_2_12
                    Number of hours during those days (NAME) helped
   H35_3_12
H35_4_12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35 5 12
                    Number of hours during those days (NAME) helped
   H35 6 12
                    Number of hours during those days (NAME) helped
   H35 7 12
                    Number of hours during those days (NAME) helped
   Н35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
                    Does someone help respondent walking across a room
   H15D 15
                    Does someone help respondent bathing or showering
   H16D 15
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
                    Does someone help respondent using the toilet
   H19D 15
   H22_1_15
H22_2_15
H22_3_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
   H22 7 15
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
   H23 2 15
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
   H23_4_15
                    Registration number of person helping with ADLs
   H23_5_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23_6_15
   H23_7_15
H23_8_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H24_1_15
H24_2_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
   H24 5 15
                    Number of days the person helped during last month
   H24 6 15
                    Number of days the person helped during last month
   H24 7 15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25 1 15
                    Number of hours during those days that the person helpe
   H25 2 15
                    Number of hours during those days that the person helpe
   H25 3 15
                    Number of hours during those days that the person helpe
   H25_4_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25_5_15
   H25 6 15
                    Number of hours during those days that the person helpe
   H25_7_15
H25_8_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C 15
                    Does someone help respondent to shop for groceries
   H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
    H32 1 15
                    Respondent's relationship with person helping with IADL
    H32 2 15
                    Respondent's relationship with person helping with IADL
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H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   н32 5 15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 7 15
   H32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 2 15
   H33_3_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_4_15
   н33_5_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_6_15
   H33_7_15
                    Registration number of person helping with IADLs
   H33_8_15
H34_1_15
                    Registration number of person helping with IADLs
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   H34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34 5 15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   H34 7 15
                    Number of days the person helped during last month
   Н34 8 15
                    Number of days the person helped during last month
   Н35 1 15
                    Number of hours during those days that the person helpe
   H35_2 15
                    Number of hours during those days that the person helpe
   Н35_3_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35_4_15
   H35_5_15
                    Number of hours during those days that the person helpe
   Н35 6 15
                    Number of hours during those days that the person helpe
   H35_7_15
H35_8_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
                    Does someone help R bathing or showering
   H16D 18
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22_1_18
                    R's relationship with person helping with ADLs
   H22_2_18
                    R's relationship with person helping with ADLs
   H22_3_18
H23_1_18
                    R's relationship with person helping with ADLs
                    Registration number of person helping with ADLs
   H23 2 18
                    Registration number of person helping with ADLs
   H23_3_18
H24_1_18
                    Registration number of person helping with ADLs
                    Number of days the person helped during last month
   H24 2 18
                    Number of days the person helped during last month
   H24 3 18
                    Number of days the person helped during last month
   H25 1 18
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 2 18
   H25 3 18
                    Number of hours during those days that the person helpe
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C_18
                    Does someone help R to shop for groceries
   H28C_18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32_1_18
                    R's relationship with person helping with IADLs
   H32_2_18
                    R's relationship with person helping with IADLs
   H32_3_18
                    R's relationship with person helping with IADLs
   H33_1_18
H33_2_18
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 3 18
                    Registration number of person helping with IADLs
   H34 1 18
                    Number of days the person helped during last month
   H34 2 18
                    Number of days the person helped during last month
   H34 3 18
                    Number of days the person helped during last month
    H35 1 18
                    Number of hours during those days that the person helpe
    H35 2 18
                    Number of hours during those days that the person helpe
```

H35_3_18

Number of hours during those days that the person helpe

Activities of Daily Living and Instrumental Activities of Daily Living: Whether Receives Any Formal Care

Wave	Variable	Label								Type
1	R1RFAANY	r1rfaany:	w1 F	receives	any	formal	care	for	ADLs/IADLs	Categ
2	R2RFAANY	r2rfaany:	w2 F	receives	any	formal	care	for	ADLs/IADLs	Categ
3	R3RFAANY	r3rfaany:	w3 F	receives	any	formal	care	for	ADLs/IADLs	Categ
4	R4RFAANY	r4rfaany:	w4 F	receives	any	formal	care	for	ADLs/IADLs	Categ
5	R5RFAANY	r5rfaany:	w5 F	receives	any	formal	care	for	ADLs/IADLs	Categ
1	S1RFAANY	s1rfaany:	w1 S	receives	any	formal	care	for	ADLs/IADLs	Categ
2	S2RFAANY	s2rfaany:	w2 S	receives	any	formal	care	for	ADLs/IADLs	Categ
3	S3RFAANY	s3rfaany:	w3 S	receives	any	formal	care	for	ADLs/IADLs	Categ
4	S4RFAANY	s4rfaany:	w4 S	receives	any	formal	care	for	ADLs/IADLs	Categ
5	S5RFAANY	s5rfaany:	w5 S	receives	any	formal	care	for	ADLs/IADLs	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RFAANY	2586	0.02	0.15	0.00	1.00
R2RFAANY	2403	0.02	0.15	0.00	1.00
R3RFAANY	4089	0.02	0.13	0.00	1.00
R4RFAANY	4182	0.02	0.14	0.00	1.00
R5RFAANY	3756	0.02	0.15	0.00	1.00
S1RFAANY	1649	0.01	0.09	0.00	1.00
S2RFAANY	1516	0.01	0.10	0.00	1.00
S3RFAANY	2464	0.01	0.09	0.00	1.00
S4RFAANY	2349	0.01	0.08	0.00	1.00
S5RFAANY	1650	0.02	0.13	0.00	1.00

Categorical Variable Codes

Value	R1RFAANY	R2RFAANY	R3RFAANY	R4RFAANY	R5RFAANY
.d:DK	1		1	6	2
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	2530	2347	4021	4099	3671
1.Yes	56	56	68	83	85
Value	S1RFAANY	S2RFAANY	S3RFAANY	S4RFAANY	S5RFAANY
.d:DK			1	5	
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	1635	1500	2442	2334	1620
1.Yes	14	16	22	15	30

How Constructed

RWRFAANY indicates whether the respondent receives any formal care for difficulties with activities of daily living (ADL) and/or instrumental activities of daily living (IADL). The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs, and up to 12 people in Waves 1 and 2, up to 8 people in

Waves 3 and 4, and up to 3 people in Wave 5 who help them with IADLs. The following relationship is considered to provide formal care: paid person.

Please note that for each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent. In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

RWRFAANY is assigned a value of 0 if the respondent has difficulty with at least one ADL or IADL but receives no help with the activity from a formal caregiver, or does not receive any help at all. RWRFAANY is assigned a value of 1 if the respondent has difficulty with at least one ADL or IADL and a formal caregiver helps with at least one of the activities. RWRFAANY is assigned special missing value .x if the respondent has no difficulty with any ADLs or IADLs. Don't know, refused, and other missing responses are assigned special missing values .d, .r, and .m, respectively. RWRFAANY is assigned a blank missing (.) if the respondent did not participate in the current wave.

SwRFAANY indicates whether the respondent's current wave's spouse receives any formal care for difficulties with ADLs or IADLs, and its values are taken from RwRFAANY. In addition to the special missing codes employed by RwRFAANY, SwRFAANY employs two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

Respondents are allowed to mention up to 12 caregivers each for ADLs and IADLs in Waves 1 and 2, up to 8 caregivers each for ADLs and IADLs in Waves 3 and 4, and up to 3 caregivers each for ADLs and IADLs in Wave 5.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible. Please note that the Harmonized HRS includes categories for paid formal helpers and unpaid formal helpers, while the Harmonized MHAS only includes categories for paid formal helpers.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, RwRFAANY in the Harmonized HRS also includes help using the telephone, whereas RwRFAANY in the Harmonized MHAS does not include help using the telephone.

Wave 1:	
H14	help dressing
H15_3	spouse helps walking
H15_4	other helps walking
H16_3	spouse helps bathing
H16 <u>4</u>	other helps bathing
H17_3	spouse helps eating
H17_4	other helps eating
н18_3	spouse helps getting in an out of bed
H18_4	other helps getting in an out of bed
H19_3	spouse helps using toilet
H19_4	other helps using toilet
H26_3	spouse helps with hot meal
H26_4	someone helps with hot meal
H27_3	spouse helps with shopping

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H27 4
                    someone helps with shopping
    H28 3
                    spouse helps with taking medication
    H28 4
                    someone helps with taking medication
    H29 3
                    spouse helps with managing money
    H29 4
                    someone helps with managing money
Wave 1 Helper:
    H22
                    kinship of helper
    H23
                    roster number of helper
    H32
                    kinship of helper
    Н33
                    roster number of helper
Wave 2:
    H14
                    someone help you to get dressed
    H15E
                    spouse helps
    H15F
                    additional person helps
   H16E
                    spouse helps
   H16F
                    additional person helps
   H17E
                    spouse helps
   H17F
                    additional person helps
   H18E
                    spouse helps
   H18F
                    additional person helps
   H19E
                    spouse helps
   H19F
                    additional person helps
   H26D
                    spouse helps
                    additional person helps
   H26E
   H27D
                    spouse helps
                    additional person helps
   H27E
                    spouse helps
    H28D
    H28E
                    additional person helps
    H29D
                    spouse helps
   H29E
                    additional person helps
Wave 2 Helper:
   H22
                    relationship
    H23
                    registration number
                    relationship
    H32
    Н33
                    registration number
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
    H16D 12
                    Someone help you to bathe or shower
    H17D 12
                    Does someone help you eat your food
    H18D 12
                    Does someone help you get into or out of bed
    H19D 12
                    Does someone help you use toilet, get on off
    H22 1 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
   H23 1 12
                    Registration number of helper for ADLs
   H23 2 12
                    Registration number of helper for ADLs
   H23 3 12
                    Registration number of helper for ADLs
   H23_4_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
    H23_5_12
    H23 6 12
                    Registration number of helper for ADLs
   H23_7_12
H23_8_12
                    Registration number of helper for ADLs
                    Registration number of helper for ADLs
   H26C 12
                    Does anyone help you prepare a hot meal
    H27C 12
                    Does anyone help you shop for groceries
    H28C 12
                    Does anyone help you take medications
    H29C 12
                    Does anyone one help you manage your money
    H32 \overline{1} 12
                    Relationship with helper for IADLs
    H32 2 12
                    Relationship with helper for IADLs
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H32 3 12
                    Relationship with helper for IADLs
   H32 4 12
                    Relationship with helper for IADLs
   H32 5 12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32 7 12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
   Н33 3 12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
   H33_4_12
   H33_5_12
                    Registration number of helper for IADLs
   H33_6_12
                    Registration number of helper for IADLs
       7 12
                    Registration number of helper for IADLs
   Н33
   Н33 8 12
                    Registration number of helper for IADLs
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
   H15D 15
                    Does someone help respondent walking across a room
   H16D 15
                    Does someone help respondent bathing or showering
   H17D 15
                    Does someone help respondent eating
                    Does someone help respondent getting in or out of bed
   H18D 15
   H19D 15
                    Does someone help respondent using the toilet
   H22 1_15
                    Respondent's relationship with person helping with ADLs
   H22_2 15
                    Respondent's relationship with person helping with ADLs
   H22_3 15
                    Respondent's relationship with person helping with ADLs
   H22_4_15
                    Respondent's relationship with person helping with ADLs
   H22_5_15
                    Respondent's relationship with person helping with ADLs
   H22_6_15
H22_7_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
   H23 2 15
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
   H23 4 15
                    Registration number of person helping with ADLs
   H23 5 15
                    Registration number of person helping with ADLs
   H23 6 15
                    Registration number of person helping with ADLs
   H23 7 15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23 8 15
   H26C_15
                    Does someone help respondent to prepare a hot meal
   H27C_15
                    Does someone help respondent to shop for groceries
   H28C_15
                    Does someone help respondent to take medications
                    Does someone help respondent to manage his/her money
   H29C
   H32 1 15
                    Respondent's relationship with person helping with IADL
   H32_2_15
H32_3_15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   H32 5 15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 7 15
   H32 8 15
                    Respondent's relationship with person helping with IADL
   Н33 1 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 2 15
                    Registration number of person helping with IADLs
   H33_3_15
   H33 4 15
                    Registration number of person helping with IADLs
   H33_5_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_6_15
   H33_7_15
                    Registration number of person helping with IADLs
   H33 8 15
                    Registration number of person helping with IADLs
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
   H16D 18
                    Does someone help R bathing or showering
   H17D 18
                    Does someone help R eating
    H18D 18
                    Does someone help R getting in or out of bed
    H19D 18
                    Does someone help R using the toilet
```

R's relationship with person helping with ADLs
R's relationship with person helping with ADLs
R's relationship with person helping with ADLs
Registration number of person helping with ADLs
Registration number of person helping with ADLs
Registration number of person helping with ADLs
Does someone help R to prepare a hot meal
Does someone help R to shop for groceries
Does someone help R to take medications
Does someone help R to manage his/her money
R's relationship with person helping with IADLs
R's relationship with person helping with IADLs
R's relationship with person helping with IADLs
Registration number of person helping with IADLs
Registration number of person helping with IADLs
Registration number of person helping with IADLs

Activities of Daily Living and Instrumental Activities of Daily Living: Receives Formal Care from Paid Professional

Wave	Variable	Label	Туре
1	R1RPFCARE	rlrpfcare: w1 R receives formal care from paid professional	Categ
2	R2RPFCARE	r2rpfcare: w2 R receives formal care from paid professional	Categ
3	R3RPFCARE	r3rpfcare: w3 R receives formal care from paid professional	Categ
4	R4RPFCARE	r4rpfcare: w4 R receives formal care from paid professional	Categ
5	R5RPFCARE	r5rpfcare: w5 R receives formal care from paid professional	Categ
1	S1RPFCARE	slrpfcare: w1 S receives formal care from paid professional	Categ
2	S2RPFCARE	s2rpfcare: w2 S receives formal care from paid professional	Categ
3	S3RPFCARE	s3rpfcare: w3 S receives formal care from paid professional	Categ
4 5	S4RPFCARE S5RPFCARE	s4rpfcare: w4 S receives formal care from paid professional s5rpfcare: w5 S receives formal care from paid professional	Categ Categ
3	SURPECARE		categ
1	R1RPFCAREN	<pre>r1rpfcaren: w1 # paid professionals who help R with ADLs/IAD</pre>	Cont
2	R2RPFCAREN	r2rpfcaren: w2 # paid professionals who help R with ADLs/IAD	Cont
3	R3RPFCAREN	r3rpfcaren: w3 # paid professionals who help R with ADLs/IAD	Cont
4	R4RPFCAREN	r4rpfcaren: w4 # paid professionals who help R with ADLs/IAD	Cont
5	R5RPFCAREN	r5rpfcaren: w5 # paid professionals who help R with ADLs/IAD	Cont
1	S1RPFCAREN	slrpfcaren: w1 # paid professionals who help S with ADLs/IAD	Cont
2	S2RPFCAREN	s2rpfcaren: w2 # paid professionals who help S with ADLs/IAD	Cont
3	S3RPFCAREN	s3rpfcaren: w3 # paid professionals who help S with ADLs/IAD	Cont
4	S4RPFCAREN	s4rpfcaren: w4 # paid professionals who help S with ADLs/IAD	Cont
5	S5RPFCAREN	s5rpfcaren: w5 # paid professionals who help S with ADLs/IAD	Cont
1	R1RPFCAREDPM	rlrpfcaredpm: w1 days/month paid professionals help R with A	Cont
2	R2RPFCAREDPM	r2rpfcaredpm: w2 days/month paid professionals help R with A	Cont
3	R3RPFCAREDPM	r3rpfcaredpm: w3 days/month paid professionals help R with A	Cont
4	R4RPFCAREDPM	r4rpfcaredpm: w4 days/month paid professionals help R with A	Cont
5	R5RPFCAREDPM	r5rpfcaredpm: w5 days/month paid professionals help R with A	Cont
2	S2RPFCAREDPM	s2rpfcaredpm: w2 days/month paid professionals help S with A	Cont
3	S3RPFCAREDPM	s3rpfcaredpm: w3 days/month paid professionals help S with A	Cont
4	S4RPFCAREDPM	s4rpfcaredpm: w4 days/month paid professionals help S with A	Cont
5	S5RPFCAREDPM	s5rpfcaredpm: w5 days/month paid professionals help S with A	Cont
1	R1RPFCAREDPMM	<pre>rlrpfcaredpmm: w1 R # paid professionals missing days of hel</pre>	Cont
2	R2RPFCAREDPMM	r2rpfcaredpmm: w2 R # paid professionals missing days of hel	Cont
3	R3RPFCAREDPMM	r3rpfcaredpmm: w3 R # paid professionals missing days of hel	Cont
4	R4RPFCAREDPMM	r4rpfcaredpmm: w4 R # paid professionals missing days of hel	Cont
5	R5RPFCAREDPMM	r5rpfcaredpmm: w5 R # paid professionals missing days of hel	Cont
1	S1RPFCAREDPMM	slrpfcaredpmm: w1 S # paid professionals missing days of hel	Cont
2	S2RPFCAREDPMM	s2rpfcaredpmm: w2 S # paid professionals missing days of hel	Cont
3	S3RPFCAREDPMM	s3rpfcaredpmm: w3 S # paid professionals missing days of hel	Cont
4	S4RPFCAREDPMM	s4rpfcaredpmm: w4 S # paid professionals missing days of hel	Cont
5	S5RPFCAREDPMM	s5rpfcaredpmm: w5 S # paid professionals missing days of hel	Cont
1	R1RPFCAREHR	rlrpfcarehr: w1 hours/day paid professionals help R with ADL	Cont
2	R2RPFCAREHR	r2rpfcarehr: w2 hours/day paid professionals help R with ADL	Cont
3	R3RPFCAREHR	r3rpfcarehr: w3 hours/day paid professionals help R with ADL	Cont
4	R4RPFCAREHR	r4rpfcarehr: w4 hours/day paid professionals help R with ADL	Cont
5	R5RPFCAREHR	r5rpfcarehr: w5 hours/day paid professionals help R with ADL	Cont
1	S1RPFCAREHR	slrpfcarehr: w1 hours/day paid professionals help S with ADL	Cont
2	S2RPFCAREHR	s2rpfcarehr: w2 hours/day paid professionals help S with ADL	Cont
3	S3RPFCAREHR	s3rpfcarehr: w3 hours/day paid professionals help S with ADL	Cont
4	S4RPFCAREHR	s4rpfcarehr: w4 hours/day paid professionals help S with ADL	Cont

5	S5RPFCAREHR	s5rpfcarehr:	w5 1	nou	ırs	s/day	paid profession	onals hel	Lp S wi	th	ADL	Cont
2 3 4	R1RPFCAREHRM R2RPFCAREHRM R3RPFCAREHRM R4RPFCAREHRM R5RPFCAREHRM	r2rpfcarehrm: r3rpfcarehrm: r4rpfcarehrm:	w2 w3 w4	R R R	###	paid paid paid	professionals professionals professionals professionals professionals	missing missing missing	hours hours hours	of of of	hel hel	Cont Cont Cont Cont
1 2 3 4 5	S1RPFCAREHRM S2RPFCAREHRM S3RPFCAREHRM S4RPFCAREHRM S5RPFCAREHRM	<pre>s2rpfcarehrm: s3rpfcarehrm: s4rpfcarehrm:</pre>	w2 w3 w4	S S	# # #	paid paid paid	professionals professionals professionals professionals professionals	missing missing missing	hours hours	of of of	hel hel	Cont Cont Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RPFCARE	1774	0.03	0.17	0.00	1.00
R2RPFCARE	1674	0.03	0.18	0.00	1.00
R3RPFCARE	2318	0.03	0.17	0.00	1.00
R4RPFCARE	2516	0.03	0.18	0.00	1.00
R5RPFCARE	2211	0.04	0.19	0.00	1.00
S1RPFCARE	1148	0.01	0.11	0.00	1.00
S2RPFCARE	1029	0.02	0.12	0.00	1.00
S3RPFCARE	1251	0.02	0.13	0.00	1.00
S4RPFCARE	1277	0.01	0.11	0.00	1.00
S5RPFCARE	934	0.03	0.18	0.00	1.00
R1RPFCAREN	1774	0.03	0.20	0.00	3.00
R2RPFCAREN	1674	0.03	0.19	0.00	2.00
R3RPFCAREN	2318	0.03	0.18	0.00	2.00
R4RPFCAREN	2516	0.04	0.21	0.00	3.00
R5RPFCAREN	2211	0.05	0.25	0.00	3.00
S1RPFCAREN	1148	0.01	0.11	0.00	1.00
S2RPFCAREN	1029	0.02	0.12	0.00	1.00
S3RPFCAREN	1251	0.02	0.13	0.00	1.00
S4RPFCAREN	1277	0.01	0.13	0.00	3.00
S5RPFCAREN	934	0.04	0.21	0.00	3.00
R1RPFCAREDPM	1774	0.91	5.50	0.00	90.00
R2RPFCAREDPM	1674	0.93	5.26	0.00	60.00
R3RPFCAREDPM	2317	0.65	4.26	0.00	60.00
R4RPFCAREDPM	2516	0.78	5.11	0.00	90.00
R5RPFCAREDPM	2210	1.06	6.31	0.00	90.00
S2RPFCAREDPM	1029	0.44	3.56	0.00	30.00
S3RPFCAREDPM	1251	0.33	2.91	0.00	30.00
S4RPFCAREDPM	1277	0.33	3.65	0.00	90.00
S5RPFCAREDPM	934	0.33	4.88	0.00	60.00
SURFFCAREDEM	934	0.02	4.00	0.00	00.00
R1RPFCAREDPMM	1774	0.00	0.00	0.00	0.00
R2RPFCAREDPMM	1674	0.00	0.00	0.00	0.00
R3RPFCAREDPMM	2318	0.00	0.02	0.00	1.00
R4RPFCAREDPMM	2516	0.00	0.00	0.00	0.00
R5RPFCAREDPMM	2211	0.00	0.02	0.00	1.00
S1RPFCAREDPMM	1148	0.00	0.00	0.00	0.00
S2RPFCAREDPMM	1029	0.00	0.00	0.00	0.00
S3RPFCAREDPMM	1251	0.00	0.00	0.00	0.00
S4RPFCAREDPMM	1277	0.00	0.00	0.00	0.00
S5RPFCAREDPMM	934	0.00	0.00	0.00	0.00

R1RPFCAREHR	1774	0.33	2.37	0.00	48.00
R2RPFCAREHR	1674	0.27	1.88	0.00	24.00
R3RPFCAREHR	2318	0.32	2.26	0.00	30.00
R4RPFCAREHR	2516	0.33	2.34	0.00	36.00
R5RPFCAREHR	2208	0.37	2.66	0.00	48.00
S1RPFCAREHR	1148	0.10	1.05	0.00	24.00
S2RPFCAREHR	1029	0.09	0.85	0.00	12.00
S3RPFCAREHR	1251	0.20	1.86	0.00	24.00
S4RPFCAREHR	1277	0.10	1.26	0.00	24.00
S5RPFCAREHR	933	0.27	2.15	0.00	48.00
R1RPFCAREHRM	1774	0.00	0.00	0.00	0.00
R2RPFCAREHRM	1674	0.00	0.00	0.00	0.00
R3RPFCAREHRM	2318	0.00	0.00	0.00	0.00
R4RPFCAREHRM	2516	0.00	0.00	0.00	0.00
R5RPFCAREHRM	2211	0.00	0.04	0.00	1.00
S1RPFCAREHRM	1148	0.00	0.00	0.00	0.00
S2RPFCAREHRM	1029	0.00	0.00	0.00	0.00
S3RPFCAREHRM	1251	0.00	0.00	0.00	0.00
S4RPFCAREHRM	1277	0.00	0.00	0.00	0.00
S5RPFCAREHRM	934	0.00	0.03	0.00	1.00

Categorical Variable Codes

Value	R1RPFCARE	R2RPFCARE	R3RPFCARE	R4RPFCARE	R5RPFCARE
.d:DK	1		1	6	2
.h:no help received	812	729	1771	1666	1545
.m:Missing	40	30		40	18
.r:Refuse	2		1	1	82
.x:no difficulty	12557	11271	11632	10550	13256
0.No	1718	1618	2250	2433	2126
1.Yes	56	56	68	83	85
Value	S1RPFCARE	S2RPFCARE	S3RPFCARE	S4RPFCARE	S5RPFCARE
.d:DK			1	5	
.h:no help received	501	487	1213	1072	716
.m:Missing	14	8		10	3
.r:Refuse	1				55
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.x:no difficulty	8984	8040	8127	7288	5753
0.No	1134	1013	1229	1262	904
1.Yes	14	16	22	15	30

How Constructed

The following variables indicate whether paid formal caregivers help the respondent with any ADL or IADL needs. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. The instrumental activities of daily living include preparing meals, grocery shopping, taking medications, and managing money. If the respondent reports having difficulty with an ADL or IADL, then they are asked whether someone helps them with that activity. If someone helps with the activity, they are asked for the relationships of up to 12 people in Waves 1 and 2, up to 8 people in Waves 3 and 4, and up to 3 people in Wave 5 who help them with ADLs and IADLs each. The information used to derive these variables is taken from the help files in Waves 1 and 2 and from the individual files in Waves 3 and forward. For each caregiver, the respondent is asked to report their relationship to the caregiver and the caregiver's roster number, if any. In cases where the reported relationship disagrees with the roster number, the roster number takes precedence in defining the relationship for spouses and children, for which the roster numbers follow clear rules. In cases where the reported relationship is "spouse" but the roster number indicates a non-spouse household member or an individual with no roster number, meaning they are not a child or within the household, the relationship type is changed to "other person". In cases of multiple records with the same caregiver relationship and roster number, we only consider the caregiver with the highest level of care provided to the respondent.

In cases of multiple records with the same caregiver relationship and no roster number, we assume all mentions are separate individuals.

The following variables are coded as special missing value .x if the respondent reports no difficulty with any ADL or IADL, and are coded as special missing value .h if the respondent reports difficulty with an ADL or IADL but does not receive any help. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. These variables are set to plain missing (.) for respondents who did not participate in the current wave.

RWRPFCARE, RWRPFCAREDPM, RWRPFCAREDPMM, RWRPFCAREHRM, and RWRPFCAREHRM include help from a paid person.

RWRPFCARE indicates whether any paid professionals help the respondent with ADL or IADL needs. RWRPFCAREN indicates the number of paid professionals who help the respondent with ADL or IADL needs. RWRPFCARE is coded as 0 if no paid professionals help the respondent with ADLs or IADLS; and is coded as 1 if at least one paid professional helps the respondent with ADLs or IADLs.

RWRPFCAREDPM indicates the number of total days per month paid professionals help the respondent with ADL or IADL needs. If the respondent reports receiving help every day from that paid professional, then a value of 30 is assumed. RWRPFCAREDPM is the sum of days per month for all paid professional helpers, and so values can be over 30 days. RWRPFCAREDPM is calculated as long as there is one non-missing value. RWRPFCAREDPM is assigned a value of 0 if the respondent did not receive help from any paid professionals. RWRPFCAREDPMM indicates the number of paid professionals who helped the respondent for whom no value of days was reported and was not accounted for in RWRPFCAREDPMM. RWRPFCAREDPMM is assigned special missing value .m if the respondent was not helped by any paid professionals.

RWRPFCAREHR indicates the number of hours per day paid professionals help the respondent with ADL or IADL needs. Respondents are asked, on days paid professionals help, how many hours per day that is. If the respondent reports less than an hour for that paid professional, then a 1 is assumed. RWRPFCAREHR is the sum of hours per day for all paid professional helpers, and so values can be over 24 hours. RWRPFCAREHR is calculated as long as there is one non-missing value. RWRPFCAREHR is assigned a value of 0 if the respondent does not receive help from any paid professionals. RWRPFCAREHRM indicates the number of paid professionals who helped the respondent for whom no value of hours was reported and was not accounted for in RWRPFCAREHR. RWRPFCAREHRM is assigned special missing value .m if the respondent was not helped by any paid professionals.

SWRPFCAREN, SWRPFCAREDPM, and SWRPFCAREHR indicate whether the respondent's current wave's spouse receives help from paid professionals, the number, and the frequency with which, and their values are taken from RWRPFCARE, RWRPFCAREN, RWRPFCAREDPM, and RWRPFCAREHR. SWRPFCAREDPMM and SWRPFCAREHRM indicate the number of paid professionals who helped the respondent's current spouse for whom a value was not reported for the number of days and hours and are taken from RWRPFCAREDPMM and RWRPFCAREHRM. In addition to the special missing codes employed by the respondent variables, the spouse variables employ two additional special missing codes. A special missing value .u is used when the respondent reports 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 MHAS

Respondents are allowed to mention up to 12 caregivers each in Waves 1 and 2 for ADLs and IADLs, up to 8 caregivers each in Waves 3 and 4 for ADLs and IADLs, and up to 3 caregivers each in Wave 5 for ADLs and IADLs.

Differences with the RAND HRS/Harmonized HRS

The HRS has different categories of relationships between the respondent and their caregiver, but these variables have been created to be as comparable as possible.

RWRPFCARE in the Harmonized MHAS is also comparable to RWRFAANY in the Harmonized HRS, indicating any formal care for ADLs and IADLs, because the MHAS does not have a category for unpaid formal caregivers.

The HRS IADL list includes using the telephone, which is absent in the MHAS. As such, these variables in the Harmonized HRS also include help using the telephone, whereas in the Harmonized MHAS they do not include help using the telephone.

RWRPFCAREDPW in the Harmonized HRS indicates the days per week the respondent received help, while RWRPFCAREDPM in the Harmonized MHAS indicates the days per month the respondent received help. As such, adjustment must be made before comparison of these variables.

The HRS asks for up to 7 relationships of people who help with ADLs (dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet). The MHAS, in contrast, asks for the relationships of a varying number of people across waves who help with ADLs. The HRS asks for up to 6 relationships of people who help with IADLs (preparing meals, grocery shopping, making phone calls, and taking medications), and up to 2 people who help with managing money. The MHAS, in contrast, asks for the relationships of a varying number of people who help with preparing meals, grocery shopping, taking medications, and managing money together.

Wave 1:	
H14	help dressing
Н15 3	spouse helps walking
H15 4	other helps walking
H16 ⁻ 3	spouse helps bathing
H16 4	other helps bathing
H17 ⁻ 3	spouse helps eating
H17 4	other helps eating
н18 ⁻ 3	spouse helps getting in an out of bed
H18 4	other helps getting in an out of bed
н19 [—] 3	spouse helps using toilet
H19 4	other helps using toilet
н26 3	spouse helps with hot meal
H26 4	someone helps with hot meal
H27 3	spouse helps with shopping
H27_4	someone helps with shopping
H28 3	spouse helps with taking medication
H28 4	someone helps with taking medication
H29 ³	spouse helps with managing money
H29_4	someone helps with managing money
Wave 1 Helper:	
H22	kinship of helper
H23	roster number of helper
H24	days of help
H25	hours of help
Н32	kinship of helper
Н33	roster number of helper
Н34	days of help
Н35	hours of help
Wave 2:	
H14	someone help you to get dressed
H15E	spouse helps
H15F	additional person helps
H16E	spouse helps
H16F	additional person helps
H17E	spouse helps
H17F	additional person helps
H18E	spouse helps
H18F	additional person helps
H19E	spouse helps
H19F	additional person helps
H26D	spouse helps
H26E	additional person helps
H27D	spouse helps
H27E	additional person helps
H28D	spouse helps
H28E	additional person helps
H29D	spouse helps
H29E	additional person helps
Wave 2 Helper:	

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relationship
                    registration number
   H23
   H24
                    number of days (name) helped last month
   H25
                    number of hours during those days
                    relationship
   H33
                    registration number
   H34
                    number of days (name) helped last month
   H35
                    how many hours during those days
Wave 3:
   H14 12
                    Someone help you to get dressed
   H15D 12
                    Someone help you walk across room
   H16D 12
                    Someone help you to bathe or shower
                    Does someone help you eat your food
   H17D 12
   H18D 12
                    Does someone help you get into or out of bed
   H19D 12
                    Does someone help you use toilet, get on off
   H22 \overline{1} 12
                    Relationship with helper for ADLs
   H22 2 12
                    Relationship with helper for ADLs
   H22 3 12
                    Relationship with helper for ADLs
   H22 4 12
                    Relationship with helper for ADLs
   H22 5 12
                    Relationship with helper for ADLs
   H22 6 12
                    Relationship with helper for ADLs
   H22 7 12
                    Relationship with helper for ADLs
   H22 8 12
                    Relationship with helper for ADLs
                    Registration number of helper for ADLs
   H23 1 12
   H23_2_12
                    Registration number of helper for ADLs
   H23_3_12
                    Registration number of helper for ADLs
   H23_4_12
                    Registration number of helper for ADLs
   H23 5 12
                    Registration number of helper for ADLs
   H23 6 12
                    Registration number of helper for ADLs
   H23<sup>7</sup>12
                    Registration number of helper for ADLs
   H23 8 12
                    Registration number of helper for ADLs
   H24 1 12
                    Number of days (name) helped last month
   H24 2 12
                    Number of days (name) helped last month
   H24 3 12
                    Number of days (name) helped last month
   H24 4 12
                    Number of days (name) helped last month
   H24 5 12
                    Number of days (name) helped last month
   H24 6 12
                    Number of days (name) helped last month
   H24_7_12
                    Number of days (name) helped last month
   H24_8_12
                    Number of days (name) helped last month
   H25_1_12
                    Number of hours during those days (NAME) helped
   H25_2_12
                    Number of hours during those days (NAME) helped
   H25 3 12
                    Number of hours during those days (NAME) helped
   H25 4 12
                    Number of hours during those days (NAME) helped
   H25 5 12
                    Number of hours during those days (NAME) helped
   H25 6 12
                    Number of hours during those days (NAME) helped
   H25 7 12
                    Number of hours during those days (NAME) helped
   H25 8 12
                    Number of hours during those days (NAME) helped
   H26C 12
                    Does anyone help you prepare a hot meal
   H27C 12
                    Does anyone help you shop for groceries
   H28C 12
                    Does anyone help you take medications
   H29C 12
                    Does anyone one help you manage your money
   H32_1_12
                    Relationship with helper for IADLs
   H32_2_12
                    Relationship with helper for IADLs
   H32_3_12
                    Relationship with helper for IADLs
                    Relationship with helper for IADLs
   H32 4 12
   H32_5_12
                    Relationship with helper for IADLs
   H32 6 12
                    Relationship with helper for IADLs
   H32<sup>7</sup>12
                    Relationship with helper for IADLs
   H32 8 12
                    Relationship with helper for IADLs
   H33 1 12
                    Registration number of helper for IADLs
   H33 2 12
                    Registration number of helper for ADLs
   H33 3 12
                    Registration number of helper for IADLs
                    Registration number of helper for IADLs
    H33 4 12
    H33 5 12
                    Registration number of helper for IADLs
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```
н33 6 12
                    Registration number of helper for IADLs
   H33 7 12
                    Registration number of helper for IADLs
   н33 8 12
                    Registration number of helper for IADLs
   H34 1 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34 3 12
                    Number of days (name) helped last month
   H34 4 12
                    Number of days (name) helped last month
   H34 5 12
                    Number of days (name) helped last month
   H34 6 12
                    Number of days (name) helped last month
                    Number of days (name) helped last month
   H34_7_12
   H34_8_12
                    Number of days (name) helped last month
                    Number of hours during those days (NAME) helped
   H35_1_12
   H35_2_12
                    Number of hours during those days (NAME) helped
                    Number of hours during those days (NAME) helped
   H35 3 12
   н35 4 12
                    Number of hours during those days (NAME) helped
   H35 5 12
                    Number of hours during those days (NAME) helped
   H35 6 12
                    Number of hours during those days (NAME) helped
   H35 7 12
                    Number of hours during those days (NAME) helped
   Н35 8 12
                    Number of hours during those days (NAME) helped
Wave 4:
   H14 15
                    Does someone help respondent to get dressed
                    Does someone help respondent walking across a room
   H15D 15
                    Does someone help respondent bathing or showering
   H16D 15
   H17D 15
                    Does someone help respondent eating
   H18D 15
                    Does someone help respondent getting in or out of bed
                    Does someone help respondent using the toilet
   H19D 15
   H22_1_15
H22_2_15
H22_3_15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 4 15
                    Respondent's relationship with person helping with ADLs
   H22 5 15
                    Respondent's relationship with person helping with ADLs
   H22 6 15
                    Respondent's relationship with person helping with ADLs
                    Respondent's relationship with person helping with ADLs
   H22 7 15
   H22 8 15
                    Respondent's relationship with person helping with ADLs
   H23 1 15
                    Registration number of person helping with ADLs
   H23 2 15
                    Registration number of person helping with ADLs
   H23 3 15
                    Registration number of person helping with ADLs
   H23_4_15
                    Registration number of person helping with ADLs
   H23_5_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H23_6_15
   H23_7_15
H23_8_15
                    Registration number of person helping with ADLs
                    Registration number of person helping with ADLs
   H24_1_15
H24_2_15
                    Number of days the person helped during last month
                    Number of days the person helped during last month
   H24 3 15
                    Number of days the person helped during last month
   H24 4 15
                    Number of days the person helped during last month
   H24 5 15
                    Number of days the person helped during last month
   H24 6 15
                    Number of days the person helped during last month
   H24 7 15
                    Number of days the person helped during last month
   H24 8 15
                    Number of days the person helped during last month
   H25 1 15
                    Number of hours during those days that the person helpe
   H25 2 15
                    Number of hours during those days that the person helpe
   H25 3 15
                    Number of hours during those days that the person helpe
   H25_4_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25_5_15
   H25 6 15
                    Number of hours during those days that the person helpe
   H25_7_15
H25_8_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H26C 15
                    Does someone help respondent to prepare a hot meal
   H27C 15
                    Does someone help respondent to shop for groceries
   H28C 15
                    Does someone help respondent to take medications
   H29C 15
                    Does someone help respondent to manage his/her money
    H32 1 15
                    Respondent's relationship with person helping with IADL
    H32 2 15
                    Respondent's relationship with person helping with IADL
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H32 3 15
                    Respondent's relationship with person helping with IADL
   H32 4 15
                    Respondent's relationship with person helping with IADL
   н32 5 15
                    Respondent's relationship with person helping with IADL
   H32 6 15
                    Respondent's relationship with person helping with IADL
                    Respondent's relationship with person helping with IADL
   H32 7 15
   H32 8 15
                    Respondent's relationship with person helping with IADL
   H33 1 15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 2 15
   н33_3_15
                    Registration number of person helping with IADLs \,
                    Registration number of person helping with IADLs
   H33_4_15
   н33_5_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33_6_15
   H33_7_15
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   Н33 8 15
   н34 1 15
                    Number of days the person helped during last month
   H34 2 15
                    Number of days the person helped during last month
   H34 3 15
                    Number of days the person helped during last month
   H34 4 15
                    Number of days the person helped during last month
   H34 5 15
                    Number of days the person helped during last month
   H34 6 15
                    Number of days the person helped during last month
   H34 7 15
                    Number of days the person helped during last month
   Н34 8 15
                    Number of days the person helped during last month
   H35 1 15
                    Number of hours during those days that the person helpe
   H35_2 15
                    Number of hours during those days that the person helpe
   Н35_3_15
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H35_4_15
   H35_5_15
                    Number of hours during those days that the person helpe
   Н35 6 15
                    Number of hours during those days that the person helpe
   H35<sup>-7</sup>15
                    Number of hours during those days that the person helpe
   н35 8 15
                    Number of hours during those days that the person helpe
Wave 5:
   H14 18
                    Does someone help R to get dressed
   H15D 18
                    Does someone help R walking across a room
                    Does someone help R bathing or showering
   H16D 18
   H17D 18
                    Does someone help R eating
   H18D 18
                    Does someone help R getting in or out of bed
   H19D 18
                    Does someone help R using the toilet
   H22_1_18
                    R's relationship with person helping with ADLs
   H22_2_18
                    R's relationship with person helping with ADLs
   H22_3_18
H23_1_18
                    R's relationship with person helping with ADLs
                    Registration number of person helping with ADLs
   H23 2 18
                    Registration number of person helping with ADLs
   H23 3 18
                    Registration number of person helping with ADLs
   H24<sup>-1</sup>18
                    Number of days the person helped during last month
   H24 2 18
                    Number of days the person helped during last month
   H24 3 18
                    Number of days the person helped during last month
   H25 1 18
                    Number of hours during those days that the person helpe
                    Number of hours during those days that the person helpe
   H25 2 18
   H25 3 18
                    Number of hours during those days that the person helpe
   H26C 18
                    Does someone help R to prepare a hot meal
   H27C_18
                    Does someone help R to shop for groceries
   H28C_18
                    Does someone help R to take medications
   H29C 18
                    Does someone help R to manage his/her money
   H32_1_18
                    R's relationship with person helping with IADLs
   H32_2_18
                    R's relationship with person helping with IADLs
   H32_3_18
                    R's relationship with person helping with IADLs
   H33_1_18
H33_2_18
                    Registration number of person helping with IADLs
                    Registration number of person helping with IADLs
   H33 3 18
                    Registration number of person helping with IADLs
   H34 1 18
                    Number of days the person helped during last month
   H34 2 18
                    Number of days the person helped during last month
   H34 3 18
                    Number of days the person helped during last month
    H35 1 18
                    Number of hours during those days that the person helpe
    H35 2 18
                    Number of hours during those days that the person helpe
```

H35_3_18

Number of hours during those days that the person helpe

Receives Help with Chores from Children or Grandchildren

Wave	Variable	Label	Type
1	H1RCCHORE	hlrcchore: w1 R+S receives help with chores from children/gr	Categ
2	H2RCCHORE	h2rcchore: w2 R+S receives help with chores from children/gr	Categ
3	H3RCCHORE	h3rcchore: w3 R+S receives help with chores from children/gr	Categ
4	H4RCCHORE	h4rcchore: w4 R+S receives help with chores from children/gr	Categ
5	H5RCCHORE	h5rcchore: w5 R+S receives help with chores from children/gr	Categ
2	H2RCCHORENF	h2rcchorenf: w2 R+S receive enough help with chores from chi	Categ
3	H3RCCHORENF	h3rcchorenf: w3 R+S receive enough help with chores from chi	Categ
4	H4RCCHORENF	h4rcchorenf: w4 R+S receive enough help with chores from chi	Categ
5	H5RCCHORENF	h5rcchorenf: w5 R+S receive enough help with chores from chi	Categ
3	H3RCCHOREHR	h3rcchorehr: w3 hours/year children/grandchildren help with	Cont
4	H4RCCHOREHR	h4rcchorehr: w4 hours/year children/grandchildren help with	Cont
5	H5RCCHOREHR	h5rcchorehr: w5 hours/year children/grandchildren help with	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1RCCHORE	14887	0.48	0.50	0.00	1.00
H2RCCHORE	13442	0.45	0.50	0.00	1.00
H3RCCHORE	14938	0.47	0.50	0.00	1.00
H4RCCHORE	14263	0.52	0.50	0.00	1.00
H5RCCHORE	15584	0.52	0.50	0.00	1.00
H2RCCHORENF	11557	2.33	0.57	1.00	3.00
H3RCCHORENF	13441	2.22	0.61	1.00	3.00
H4RCCHORENF	13477	2.16	0.60	1.00	3.00
H5RCCHORENF	14207	2.20	0.63	1.00	3.00
H3RCCHOREHR	14853	530.64	1276.71	0.00	8760.00
H4RCCHOREHR	14209	453.48	983.52	0.00	8760.00
H5RCCHOREHR	15418	572.80	1233.74	0.00	8760.00

Categorical Variable Codes

Value		H1RCCHORE	H2RCCHORE	H3RCCHORE	H4RCCHORE	H5RCCHORE
.c:no living children	İ	743	589	744	629	1473
.d:DK		20	6	6	7	17
.m:Missing		32	25	16	34	20
.r:Refuse	1	24	2	19	12	20
0.No	1	7815	7458	7886	6903	7447
1.Yes		7072	5984	7052	7360	8137
Value			H2RCCHORENF	H3RCCHORENF	H4RCCHORENF	H5RCCHORENF
.c:no living children	i		383	744	629	1473
.d:DK	İ		458	335	108	409
.m:Missing			121	16	34	20
.p:Proxy interview, not asked	1		422	847	533	721
.r:Refuse	1		1098	340	164	284
1.more than enough	1		617	1299	1483	1687
2.enough			6499	7847	8335	8025
3.not enough			4441	4295	3659	4495

How Constructed

HwRCCHORE indicates whether the respondent's and spouse's children, children-in-law, and/or grandchildren spent at least one hour a week helping the respondent and their spouse with household chores, errands, transportation, and similar activities in the last two years. HwRCCHORE is assigned a value of 0 if the

respondent and their spouse did not receive at least one hour a week of help from their children, and is assigned a 1 if the respondent and their spouse did receive at least one hour a week of help from their children. HwRCCHORE is assigned special missing value .c if the respondent and their spouse do not have any living children. Don't know, refused, and other missing responses are assigned special missing values .d, .r, .m, respectively. HwRCCHORE is assigned plain missing (.) if the respondent did not participate in the current wave.

HwRCCHORENF indicates how the respondent and their spouse would describe the amount of help with household chores received from their children, children-in-law, and/or grandchildren. This question is asked regardless of whether the respondent and their spouse received at least one hour a week of help with household chores from their children in the past two years. HwRCCHORENF is coded as follows: 1.more than enough, 2.enough, 3.not enough. HwRCCHORENF is assigned special missing value .c if the respondent and their spouse do not have any living children. HwRCCHORENF is assigned special missing value .p if this question is skipped because the section is answered by proxy respondent. Don't know, refused, and other missing responses are assigned special missing values .d, .r, .m, respectively. HwRCCHORENF is assigned plain missing (.) if the respondent did not participate in the current wave.

HwRCCHOREHR indicates how many hours per year the respondent and their spouse received help with household chores from their children, children-in-law, or grandchildren in the last two years. Respondents are able to report the total number of hours in days, weeks, months, or years, the responses to which have been converted to the number of hours in a year. HwRCCHOREHR is assigned a value of 0 if the respondent and their spouse did not receive at least one hour a week of help. HwRCCHOREHR is assigned special missing value .c if the respondent and their spouse do not have any living children. HwRCCHOREHR is assigned special missing value .i if the respondent reports receiving more than 24 hours of help per day. Don't know, refused, and other missing responses are assigned special missing values .d, .r, .m, respectively. HwRCCHOREHR is assigned plain missing (.) if the respondent did not participate in the current wave.

Cross Wave Differences in MHAS

The respondent is asked whether the respondent and their spouse receive help with household chores from their children at least one hour a week, and how they would describe that amount of help starting in Wave 2.

Starting in Wave 3, the respondent is asked how many hours the respondent and their spouse received help with household chores from their children.

Differences with the RAND HRS/Harmonized HRS

There is no comparable question in the HRS.

```
Wave 1:
   G2
                    alive children
   G25
                    assistance from children
Wave 2:
   G1B
                    status of children
   G24
                    (grand) children spent at least one hour helping you
                    physical help from others was sufficient
   TIPENT 03
                    Type of interview 2003
Wave 3:
                    Last 2 years: Respondent received >1 hour per week..from
   G24 12
    G25B1 12
                    Last 2 years: Number of hours respondent... from childre
   G25B2_12
                    Last 2 years: Respondent's period to report receiving ho
                    Opinion of non-financial assistance received from child
   G27 12
    G2 12
                    Does respondent/spouse have living children
   TIPENTG 12
                    Type of interview section G 2012
Wave 4:
   G24 15
                    Last 2 years:Respondent received >1 hour per week..from
   G25B1 15
                    Last 2 years: Number of hours respondent... from childre
   G25B2 15
                    Last 2 years: Respondent's period to report receiving ho
    G27 15
                    Opinion of non-financial assistance received from child
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G2_15 TIPENTG_15 Wave 5:	Does respondent/spouse have living children Type of interview Section G 2015
G24 18	Last 2 years: Respondent received 1+ hour per weekfro
G25B1 18	Last 2 years: Number of hours respondent from childre
G25B2_18	Last 2 years: Respondent's period to report receiving ho
G27 18	Opinion of non-financial assistance received from child
G2 18	Does respondent/spouse have living children
TIPENT_HH_18	Type of interview Household Sections 2018
G25B2_18 G27_18 G2_18	Last 2 years: Respondent's period to report receiving he Opinion of non-financial assistance received from child Does respondent/spouse have living children

Provides Informal Care

Wave	Variable	Label	Туре
3 4	H1GCAANY H2GCAANY H3GCAANY H4GCAANY	h1gcaany: w1 R+S provide any informal care h2gcaany: w2 R+S provide any informal care h3gcaany: w3 R+S provide any informal care h4gcaany: w4 R+S provide any informal care h5gcaany: w5 R+S provide any informal care	Categ Categ Categ Categ Categ
1 2 3 4 5	H1GCCARE_M H2GCCARE_M H3GCCARE_M H4GCCARE_M	h1gccare_m: w1 R+S provide informal care to children/grandch h2gccare_m: w2 R+S provide informal care to children/grandch h3gccare_m: w3 R+S provide informal care to children/grandch h4gccare_m: w4 R+S provide informal care to children/grandch h5gccare_m: w5 R+S provide informal care to children/grandch	Categ Categ Categ Categ Categ
	H1GCCAREHR_M H2GCCAREHR_M H3GCCAREHR_M H4GCCAREHR_M H5GCCAREHR_M	hlgccarehr_m: w1 hours/year R+S provide informal care to chi h2gccarehr_m: w2 hours/year R+S provide informal care to chi h3gccarehr_m: w3 hours/year R+S provide informal care to chi h4gccarehr_m: w4 hours/year R+S provide informal care to chi h5gccarehr_m: w5 hours/year R+S provide informal care to chi	Cont Cont Cont Cont
2 3 4	R1GPCARE R2GPCARE R3GPCARE R4GPCARE R5GPCARE	r1gpcare: w1 R provided informal care to parents r2gpcare: w2 R provided informal care to parents r3gpcare: w3 R provided informal care to parents r4gpcare: w4 R provided informal care to parents r5gpcare: w5 R provided informal care to parents	Categ Categ Categ Categ Categ
	S1GPCARE S2GPCARE S3GPCARE S4GPCARE S5GPCARE	slgpcare: w1 S provided informal care to parents s2gpcare: w2 S provided informal care to parents s3gpcare: w3 S provided informal care to parents s4gpcare: w4 S provided informal care to parents s5gpcare: w5 S provided informal care to parents	Categ Categ Categ Categ Categ
2	R1GPCAREHR R2GPCAREHR R3GPCAREHR R4GPCAREHR	rlgpcarehr: wl hours/year R provided informal care to parent r2gpcarehr: w2 hours/year R provided informal care to parent r3gpcarehr: w3 hours/year R provided informal care to parent r4gpcarehr: w4 hours/year R provided informal care to parent	Cont Cont Cont
	S1GPCAREHR S2GPCAREHR S3GPCAREHR S4GPCAREHR	slgpcarehr: w1 hours/year S provided informal care to parent s2gpcarehr: w2 hours/year S provided informal care to parent s3gpcarehr: w3 hours/year S provided informal care to parent s4gpcarehr: w4 hours/year S provided informal care to parent	Cont Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1GCAANY	15596	0.45	0.50	0.00	1.00
H2GCAANY	13986	0.40	0.49	0.00	1.00
H3GCAANY	15672	0.44	0.50	0.00	1.00
H4GCAANY	14876	0.46	0.50	0.00	1.00
H5GCAANY	17014	0.47	0.50	0.00	1.00
H1GCCARE M	14892	0.44	0.50	0.00	1.00
H2GCCARE M	13445	0.38	0.49	0.00	1.00
H3GCCARE M	14932	0.41	0.49	0.00	1.00
H4GCCARE M	14261	0.44	0.50	0.00	1.00
H5GCCARE_M	15572	0.46	0.50	0.00	1.00
H1GCCAREHR M	14400	738.87	1454.81	0.00	8760.00
H2GCCAREHR M	13000	537.09	1166.73	0.00	8760.00

6 821

1

4009 131

2661

412

11

4205

333

3412

444

194

1

4782 349

2861

634

95

4

4847 280

2231

566

99

10

5227

1188

501

472

How Constructed

.p:Proxy interview, not asked

.m:Missing

.u:Unmar

.v:SP NR

0.No

1.Yes

HwGCAANY indicates whether the respondent and their spouse provide any informal care to their children, grandchildren, or parents. HwGCAANY is coded as 0 if they did not provide any informal care or if the respondent and their spouse have no living parents or children, and is coded as 1 if they provided informal care. HwGCAANY is assigned special missing value .p if these questions were skipped because the interview was completed by proxy. Don't know, refused, or other missing responses are assigned special missing values .d, .r, .m, respectively. HwGCAANY is assigned plain missing (.) if the respondent and their spouse did not participate in the current wave.

HwGCCARE_M indicates whether the respondent and their spouse spent at least one hour a week helping their children, children-in-law, or grandchildren in the last two years. HwGCCARE_M is coded as 0 if they did not spend at least one hour a week helping their children, and is coded as 1 if they did spend at least one hour a week helping their children. HwGCCARE_M is assigned special missing value .c if the respondent and their spouse have no living children. Don't know, refused, or other missing responses are assigned special missing values .d, .r, .m, respectively. HwGCCARE_M is assigned plain missing (.) if the respondent and their spouse did not participate in the current wave.

HwGCCAREHR_M indicates the number of hours per year the respondent and their spouse spent helping their children, children-in-law, or grandchildren in the last two years. Respondents are able to report the total number of hours in days, weeks, months, or years, the responses to which have been converted to the number of hours in a year. HwGCCAREHR_M is assigned a value of 0 if the respondent and their spouse did not spend at least one hour a week providing help. HwGCCAREHR_M is assigned special missing value .i if the respondent reports providing more than 24 hours per day of help. HwGCCAREHR_M is assigned special missing value .c if the respondent and their spouse have no living children. Don't know, refused, or other missing responses are assigned special missing values .d, .r, .m, respectively. HwGCCAREHR_M is assigned plain missing (.) if the respondent and their spouse did not participate in the current wave.

RwGPCARE indicates whether the respondent or their spouse spent at least one hour a week helping the respondent's parents with basic personal activities, excluding help with household chores, errands, and transportation. RwGPCARE is coded as 0 if they did not help their parents at all or did so less than one hour a week, and is coded as 1 if they did help their parents at least one hour a week or about 100 hours in the last two years. RwGPCARE is assigned special missing value .f if the respondent has no living parents. RwGPCARE is assigned special missing value .p if this question was skipped because the interview was completed by proxy. Don't know, refused, or other missing responses are assigned special missing values .d, .r, .m, respectively. RwGPCARE is assigned plain missing (.) if the respondent did not participate in the current wave.

RWGPCAREHR indicates the number of hours the respondent or their spouse spent helping the respondent's parents with basic personal activities because of a health problem in the last two years. Respondents are able to report the total number of hours in days, weeks, months, or years, the responses to which have been converted to the number of hours in a year. HwGPCAREHR is assigned a value of 0 if the respondent or their spouse did not spend at least one hour a week providing help. RwGPCAREHR is assigned special missing value .i if the respondent reports providing more than 24 hours per day of help. HwGPCAREHR is assigned special missing value .p if this question was skipped because the interview was completed by proxy. Don't know, refused, or other missing responses are assigned special missing values .d, .r, .m, respectively. HwGPCAREHR is assigned plain missing (.) if the respondent did not participate in the current wave.

SwGPCARE and SwGPCAREHR indicate whether the respondent's current wave's spouse or the respondent spent at least one hour a week helping the respondent's spouse's parents with basic personal activities, and the number of hours provided per year, and their values are taken from RwGPCARE and RwGPCAREHR. In addition to the special missing values employed by RwGPCARE and RwGPCAREHR, SwGPCARE and SwGPCAREHR employ two additional special missing values, .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 MHAS

Respondents in Wave 5 are not asked how many hours of help they provided to their parents.

Differences with the RAND HRS/Harmonized HRS

The HRS asks whether the respondent helps take care of their grandchildren, which is available as HwGKSIT in the Harmonized HRS and through several additional variables in the RAND HRS Family. The MHAS asks whether the respondent cares for their children or grandchildren, which is available in HwGCCARE M in the

Harmonized MHAS. In the HRS, family respondents are asked about personal help and help with chores provided to the respondent's and/or their spouse's parents, whereas in the MHAS, individual respondents are asked about personal help provided to their parents. As such, HwGPCARE in the Harmonized HRS includes personal help and chore help given to parents from the respondent and/or their spouse, while RwGPCARE in the Harmonized MHAS includes personal help given to parents from the respondent. There are additional variables related to care given to parents available in the RAND HRS Family.

```
Wave 1:
                    parents alive
   F33
   F37
                    assisted parents
                    assisted parents 100 hours
   F38
   F40 1
                   times assistance to parents
   F40 2
                   period assistance to parents
   G11
                   assistance to children
   G13 1
                   hours assisting children
    G13_2
                    period assisting children
   G2
                    alive children
Wave 2:
   F39
                    interviewer: how many parents are alive
   F43
                    help to parents with to perform basics
                    help was at least an hour a week
   F44
   F46 1
                   hours spent helping them - number of hours
                   hours spent helping them - period
   F46 2
                   spent 1 hr a week helping (grand) children
   G10
   G12 1
                   how many hours spent helping per period - number of hou
   G12 2
                   how many hours spent helping per period - per period
   G1B
                    status of children
Wave 3:
   F10A 12
                    Last interview: Was respondent's father living
   F12 12
                    Currently: Is respondent's father living
                    Last interview: Was respondent's mother living
   F1A 12
   F3_12
                    Currently: Is respondent's mother living
   F43_12
                    Last 2 years:Did respondent/spouse provide...assistance
   F44_12
                    Last 2 years:Did respondent assist parent(s) for >1 hou
   F46_1_12
F46_2_12
                    Number of hours respondent spent helping his/her parent
                    Period to report spending time helping his/her parent(s
   G10 12
                    Last 2 years: Respondent/spouse spent at least 1 hour...
   G12 1 12
                    Respondent's total hours spent...children/grandchildren
   G12 2 12
                    Period respondent reported assisting children/grandchil
   G2 12
                    Does respondent/spouse have living children
Wave 4:
   F12 15
                    Is respondent's father alive
   F3 15
                    Is respondent's mother alive
   F43 15
                    In the last 2 years: Did respondent/spouse provide...ass
   F44 15
                    Last 2 years:Did respondent assist parent(s) for >1 hou
                    Number of hours respondent spent helping his/her parent
   F46 1 15
   F46_2_15
                    Period to report spending time helping his/her parent(s
   G10_15
                    Last 2 years: Respondent/spouse spent at least 1 hour...
   G12_1_15
                    Respondent's total hours spent...children/grandchildren
    G12 2 15
                    Period respondent reported assisting children/grandchil
   G2 15
                    Does respondent/spouse have living children
Wave 5:
   F12 18
                   Is R's father alive
   F3 18
                   Is R's mother alive
   F43 18
                   In the last 2 years:Did R/spouse provide...assistance f
                    Last 2 years:Did R assist parent(s) for 1+ hours/week o
   F44 18
   G10 18
                    Last 2 years: Respondent/spouse spent at least 1 hour...
   G12 1 18
                    Respondent's total hours spent...children/grandchildren
   G12 2 18
                    Period respondent reported assisting children/grandchil
   G2 18
                    Does respondent/spouse have living children
```

Provides Informal Care for Sick or Disabled Adults

Wave	Variable	Label	Type
3 4 5	R3GCARESCK R4GCARESCK R5GCARESCK	r3gcaresck: w3 R cares for sick or disabled adult r4gcaresck: w4 R cares for sick or disabled adult r5gcaresck: w5 R cares for sick or disabled adult	Categ Categ Categ
4	S3GCARESCK S4GCARESCK S5GCARESCK	s3gcaresck: w3 S cares for sick of disabled adult s4gcaresck: w4 S cares for sick of disabled adult s5gcaresck: w5 S cares for sick of disabled adult	Categ Categ Categ
4	R3GCARESCKD_M R4GCARESCKD_M R5GCARESCKD_M	r3gcaresckd_m: w3 R frequency cares for sick or disabled adu r4gcaresckd_m: w4 R frequency cares for sick or disabled adu r5gcaresckd_m: w5 R frequency cares for sick or disabled adu	Categ Categ Categ
3 4 5	S3GCARESCKD_M S4GCARESCKD_M S5GCARESCKD_M	s3gcaresckd_m: w3 S frequency cares for sick or disabled adu s4gcaresckd_m: w4 S frequency cares for sick or disabled adu s5gcaresckd_m: w5 S frequency cares for sick or disabled adu	Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3GCARESCK	14439	0.18	0.38	0.00	1.00
R4GCARESCK	13825	0.19	0.39	0.00	1.00
R5GCARESCK	15777	0.18	0.39	0.00	1.00
S3GCARESCK	9858	0.18	0.39	0.00	1.00
S4GCARESCK	9175	0.20	0.40	0.00	1.00
S5GCARESCK	6898	0.18	0.38	0.00	1.00
R3GCARESCKD M	14413	7.88	2.60	1.00	9.00
R4GCARESCKD M	13813	7.73	2.73	1.00	9.00
R5GCARESCKD_M	15764	7.77	2.72	1.00	9.00
S3GCARESCKD M	9841	7.87	2.61	1.00	9.00
S4GCARESCKD M	9167	7.72	2.73	1.00	9.00
S5GCARESCKD M	6893	7.78	2.72	1.00	9.00

Categorical Variable Codes

Value	R3GCARESCK 2 1275 7 11832 2607	R4GCARESCK 1 23 929 1 11166 2659	R5GCARESCK 2 1328 7 12881 2896
Value	\$3GCARESCK 2 726 6 4782 349 8050 1808	S4GCARESCK 1 5 470 1 4847 280 7367 1808	\$5GCARESCK 1 560 2 5227 501 5651 1247
Value .d:DK	R3GCARESCKD_M 3 25	R4GCARESCKD_M 1 12 23	R5GCARESCKD_M 2 13

<pre>.p:Proxy interview, not asked</pre>	1275 929	1328
.r:Refuse	7 1	. 7
1.Almost every day	1435 1504	1702
2.4 or more times a week	98 135	170
3.2 or 3 times a week	302 354	375
4.Once a week	166 202	229
5.4 or more times a month	141 182	130
6.2 or 3 times a month	96 131	125
7.Once a month	78 139	152
8.Almost Never, sporadic	265	
9.Never	11832 11166	12881
Value	- S3GCARESCKD_M S4GCARESCKD_M	S5GCARESCKD_M
.d:DK	2 1	1
.i:Invalid	17 8	5
.m:Missing	5	
<pre>.p:Proxy interview, not asked</pre>	726 470	560
.r:Refuse	6 1	. 2
.u:Unmar	4782 4847	5227
.v:SP NR	349 280	501
1.Almost every day	986 984	764
2.4 or more times a week	62 86	69
3.2 or 3 times a week	227 259	142
4.Once a week	115 150	91
5.4 or more times a month	100 124	59
6.2 or 3 times a month	68 99	56
7.Once a month	55 98	61
8.Almost Never, sporadic	178	
9.Never	8050 7367	5651

How Constructed

RwGCARESCK indicates whether the respondent has cared for a sick or disabled adult in the past year. RwGCARESCK is coded as 1 if the respondent did provide care for a sick or disabled adult in the past year, while a 0 indicates they did not. RwGCARESCK is assigned special missing value .p if this question is not asked because this section was answered by proxy. Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. RwGCARESCK is set to plain missing (.) for respondents who did not participate in the current wave.

RwGCARESCKD_M indicates the frequency with which the respondent cared for a sick or disabled adult in the past year. If the respondent reports caring for a sick or disabled adult, then they are asked to provide the number of times they did so either per week or per month. RwGCARESCK is coded as follows: 1.Almost every day, 2.4 or more times a week, 3.2 or 3 times a week, 4.Once a week, 5.4 or more times a month, 6.2 or 3 times a month, 7.Once a month, 8.Almost Never, sporadic, 9.Never. RwGCARESCKD_M is assigned special missing value .p if this question is not asked because this section was answered by proxy. RwGCARESCKD_M is assigned special missing value .i to indicate inconsistent frequency, if the respondent reports caring for a sick or disabled adult more than 21 times per week or more than 81 times per month (that is more than 3 times per day). Don't know, refused, or other missing responses are assigned special missing values .d, .r, and .m, respectively. RwGCARESCKD_M is set to plain missing (.) for respondents who did not participate in the current wave.

SwGCARESCK and SwGCARESCKD_M indicate whether and how frequently the respondent's current wave's spouse cared for a sick or disabled adult, and their values are taken from RwGCARESCK and RwGCARESCKD_M. In addition to the special missing codes employed by RwGCARESCK and RwGCARESCKD_M, SwGCARESCK and SwGCARESCKD_M employ two additional special missing codes. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

This question is asked starting in Wave 3. In Wave 3, there is a code to indicate that the respondent cared for a sick or disabled adult sporadically in the past year. Starting in Wave 4, this code is no longer present.

Differences with the RAND HRS/Harmonized HRS

In the HRS, this question is asked in the self-completion questionnaire and references the past month, so

RwGCARESCK in the Harmonized HRS uses a special missing code to indicate whether the respondent did not return their self-completion questionnaire. In the MHAS, this question is asked in the core interview but not to proxy respondents and references the past year, so RwGCARESCK in the Harmonized MHAS uses a special missing code to indicate whether the interview was by proxy. Please keep in mind the differences in time frame when comparing these variables.

The frequency of care provided to sick or disabled adults is different between the two surveys. As such, the Harmonized HRS uses the variable name RwGCARESCKD_H to indicate the frequency of: 1.daily, 2.several times a week, 3.once a week, 4.several times a month, 5.at least once a month, 6.not in the last month/never. The Harmonized MHAS, on the other hand, uses the variable name RwGCARESCKD_M to indicate the frequency of: 1.Almost every day, 2.4 or more times a week, 3.2 or 3 times a week, 4.0nce a week, 5.4 or more times a month, 6.2 or 3 times a month, 7.0nce a month, 8.Almost Never, sporadic, 9.Never.

Wave 3:	
D34A1 12	Does respondent care for a sick/disabled adult
D34A2_12	Respondent's frequency caring for a sick/disabled adult
D34A3_12	Respondent's time period caring for a sick/disabled adu
Wave 4:	
D34A1_15	Does respondent care for a sick or disabled adult
D34A2_15	Respondent's frequency caring for a sick or disabled ad
D34A3_15	Respondent's time period caring for a sick or disabled
Wave 5:	
D34A1_18	Does R care for a sick or disabled adult
D34A2_18	R's frequency caring for a sick or disabled adult
D34A3 18	R's time period caring for a sick or disabled adult

Section M: Stress

Social Support: Spouse

Wave	Variable	Label	Туре
2	R2SUSTDFE_M R3SUSTDFE_M	r2sustdfe_m: w2 R Thinks spouse understands the way they fee r3sustdfe_m: w3 R Thinks spouse understands the way they fee	Categ Categ
2	S2SUSTDFE_M S3SUSTDFE_M	s2sustdfe_m: w2 S Thinks spouse understands the way they fee s3sustdfe_m: w3 S Thinks spouse understands the way they fee	Categ Categ
2	R2SRELY_M R3SRELY_M	r2srely_m: w2 R can rely on spouse for a serious problem r3srely_m: w3 R Can rely on spouse for a serious problem	Categ Categ
2	S2SRELY_M S3SRELY_M	s2srely_m: w2 S can rely on spouse for a serious problem s3srely_m: w3 S Can rely on spouse for a serious problem	Categ Categ
2	R2SOPENUP_M R3SOPENUP_M	r2sopenup_m: w2 R can open up their worries to spouse r3sopenup_m: w3 R Can open up their worries to spouse	Categ Categ
2	S2SOPENUP_M S3SOPENUP_M	s2sopenup_m: w2 S can open up their worries to spouse s3sopenup_m: w3 S Can open up their worries to spouse	Categ Categ
2	R2SLETDOW_M R3SLETDOW_M	r2sletdow_m: w2 Spouse let R down when counting on them r3sletdow_m: w3 Spouse let R down when counting on them	Categ Categ
2	S2SLETDOW_M S3SLETDOW_M	s2sletdow_m: w2 Spouse let S down when counting on them s3sletdow_m: w3 Spouse let S down when counting on them	Categ Categ
	R2SSUPPORT4_M R3SSUPPORT4_M	r2ssupport4_m: w2 R's spouse support summary mean score r3ssupport4_m: w3 R's spouse support summary mean score	Cont Cont
2	S2SSUPPORT4_M S3SSUPPORT4_M	s2ssupport4_m: w2 S's spouse support summary mean score s3ssupport4_m: w3 S's spouse support summary mean score	Cont Cont
	R2SSUPPORT4M_M R3SSUPPORT4M_M	r2ssupport4m_m: w2 Missings in R's spouse support summary me r3ssupport4m_m: w3 Missings in R's spouse support summary me	Cont Cont
2	S2SSUPPORT4M_M S3SSUPPORT4M_M	s2ssupport4m_m: w2 Missings in S's spouse support summary me s3ssupport4m_m: w3 Missings in S's spouse support summary me	Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2SUSTDFE_M	8813	1.35	0.58	1.00	3.00
R3SUSTDFE_M	10150	1.35	0.58		3.00
S2SUSTDFE_M	8691	1.35	0.58	1.00	3.00
S3SUSTDFE_M	9813	1.34	0.58		3.00
R2SRELY_M	8820	1.25	0.54	1.00	3.00
R3SRELY_M	10162	1.24	0.52		3.00
S2SRELY_M	8698	1.25	0.54	1.00	3.00
S3SRELY M	9824	1.23	0.52		3.00
R2SOPENUP_M R3SOPENUP M	8823 10158	1.32 1.32	0.59	1.00	3.00
S2SOPENUP_M S3SOPENUP M	8700 9821	1.31 1.31	0.59	1.00	3.00

R2SLETDOW_M	8731	2.49	0.72	1.00	3.00
R3SLETDOW_M	10095	2.31	0.81		3.00
S2SLETDOW_M	8609	2.49	0.72	1.00	3.00
S3SLETDOW_M	9761	2.31	0.81		3.00
R2SSUPPORT4_M	8839	1.36	0.50	1.00	3.00
R3SSUPPORT4_M	10168	1.40	0.47		3.00
S2SSUPPORT4_M	8715	1.36	0.50	1.00	3.00
S3SSUPPORT4_M	9830	1.39	0.47		3.00
R2SSUPPORT4M_M R3SSUPPORT4M_M	13704 15723	1.43 1.42	1.91 1.91	0.00	4.00
S2SSUPPORT4M_M	9564	0.37	1.14	0.00	4.00
S3SSUPPORT4M_M	10592	0.30	1.04	0.00	

Categorical Variable Codes

Value .d:DK	R2SUSTDFE_M	R3SUSTDFE_M 22
.m:Missing	3	
.n:Not married/coupled	3659	4813
.p:Proxy interview, not asked	1178	727
.r:Refuse	21	11
1.A lot 2.Little	6208 2110	7146 2452
3.Not at all	495	552
J.NOC at all	433	332
Value	S2SUSTDFE M	S3SUSTDFE M
.d:DK	<u>2</u> 9	21
.m:Missing	2	
.n:Not married/coupled	2	31
.p:Proxy interview, not asked	821	721
.r:Refuse	19	6
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	6138	6947
2.Little	2067	2347
3.Not at all	486	519
Value	R2SRELY M	R3SRELY M
.d:DK	<u></u>	_9
.m:Missing	3	
.n:Not married/coupled	3659	4813
.p:Proxy interview, not asked	1178	727
.r:Refuse	18	12
1.A lot	7041	8206
2.Little	1312	1483
3.Not at all	467	473
Value	S2SRELY M	S3SRELY M
.d:DK	$\overline{2}6$	8
.m:Missing	2	
.n:Not married/coupled	2	31
.p:Proxy interview, not asked	821	721
.r:Refuse	15	8
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	6951	7962
2.Little	1291	1420
3.Not at all	456	442
Value	R2SOPENUP M	R3SOPENUP M
.d:DK	$\overline{2}$ 3	11
.m:Missing	3	
.n:Not married/coupled	3659	4813
.p:Proxy interview, not asked	1178	727

.r:Refuse	18	14	
1.A lot	6600	7541	
2.Little	1655	2001	
3.Not at all	568	616	
Value	S2SOPENUP M	S3SOPENUP M	
.d:DK	$\overline{2}$ 3	<u>1</u> 0	
.m:Missing	2		
.n:Not married/coupled	2	31	
.p:Proxy interview, not asked	821	721	
.r:Refuse	16	9	
.u:Unmar	4009	4782	
.v:SP NR	131		
1.A lot	6523	7325	
2.Little		1918	
3.Not at all	556		
The actual and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a control and a	000	0.70	
Value	R2SLETDOW M	R3SLETDOW M	
.d:DK	92	63	
.m:Missing	3	03	
.n:Not married/coupled	3659	4813	
.p:Proxy interview, not asked	1178		
.r:Refuse	41	25	
1.A lot.		2232	
2.Little		2457	
3.Not at all		5406	
J.NOC at all	3400	3400	
Value	S2SLETDOW M	S3SLETDOW M	
.d:DK	91	60	
.m:Missing	2	00	
.n:Not married/coupled	2	31	
.p:Proxy interview, not asked	821	721	
.p:Proxy interview, not asked .r:Refuse	39	19	
.r:Refuse .u:Unmar	4009		
	131		
.v:SP NR			
1.A lot	1178		
2.Little	2015	2375	
3.Not at all	5416	5223	

How Constructed

MHAS Waves 2 and 3 include four questions about spouse social support which are only asked if the respondent was presently married or in a consensual union and the interview was not by proxy.

RwSUSTDFE_M indicates how much the respondent feels their spouse really understands the way they feel about things.

 $RwSRELY_M$ indicates how much the respondent feels they can confide in their spouse if they have a serious problem.

RwSOPENUP_M indicates how much the respondent feels their spouse would listen if they need to talk about their worries.

 $RwSLETDOW_M$ indicates how much the respondent feels they would be disappointed when they are counting on their spouse.

RWSUSTDFE_M, RWSRELY_M, RWSOPENUP_M and RWSLETDOW_M are coded as follow: 1. a lot, 2. little and 3. not at all. Special missing .n is assigned if the respondent indicates they were not presently married or in a consensual union and are hence not asked these questions. Special missing .p is assigned if the interview is by proxy in which case these questions are not asked. Don't know, refused, or missing responses are assigned special missing values .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwSUSTDFE_M, SwSRELY_M, SwSOPENUP_M and SwSLETDOW_M indicate how much the current wave's spouse agrees with statements about their spouse and are taken from the spouse's values to RwSUSTDFE_M, RwSRELY_M, RwSOPENUP_M and RwSLETDOW_M. In addition to the special missing codes used in RwSUSTDFE_M, RwSRELY_M, RwSOPENUP_M and RwSLETDOW_M, SwSUSTDFE_M, SwSRELY_M, SwSOPENUP_M and SwSLETDOW_M 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.

RWSSUPPORT4_M indicates the mean of the answers to four different spouse questions (RwSUSTDFE_M, RwSRELY_M, RwSOPENUP_M and RwSLETDOW_M) and can be used as a summary score. RwSSUPPORT4_M is calculated for any respondent with at least one non-missing value for its four components. Since RwSSUPPORT4_M indicates how much the respondents feel lack of support by their spouse, we reverse coded the values of RwSLETDOW_M to make sure that higher scores indicate less support the respondent feels by their spouse. The coding of RwSUSTDFE_M, RwSRELY_M and RwSOPENUP_M did not change. RwSSUPPORT4M_M counts the number of components with missing values in RwSSUPPORT4_M, which could be between no missing components (0) and four missing components (4). Special missing .n is assigned if the respondent indicates they were not presently married or in a consensual union and are hence not asked these questions. Special missing .p is assigned if the interview is by proxy in which case these questions are not asked. Special missing value .d, .r, or .m is assigned if all four components of the summary score are don't know, refused or otherwise missing, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwSSUPPORT4 and SwSSUPPORT4M_M indicate the mean summary score of the answer to four different spouse support questions and the count of any missing components for the current wave's spouse and are taken from the spouse's values to RwSSUPPORT4 and RwSSUPPORT4M_M. In addition to the special missing codes used in RwSSUPPORT4_M and RwSSUPPORT4M_M 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 MHAS

Questions about spouse's social support are only asked in MHAS Waves 2 and 3.

Differences with the RAND HRS/Harmonized HRS

Unlike HRS, MHAS did not ask the following of the respondent:

- 1. how often they feel their spouse makes too many demands on them;
- 2. how much the respondent feels their spouse criticizes them;
- 3. how much the respondent feels their spouse gets on their nerves.

HRS uses a four-point response scale from "a lot" to "not at all", while MHAS uses a three-point response scale from "a lot" to "not at all."

Also, the following questions wording is slightly different between HRS and MHAS:

- 1. HRS asks "How much can you rely on them if you have a serious problem?" whereas MHAS asks "How much can you confide in him/her if you have a serious problem?"
- 2. HRS asks "How much can you open up to them if you need to talk about your worries?" whereas MHAS asks "How much does your spouse listen if you need to talk about your worries?"
- 3. HRS asks "How much do they let you down when you are counting on them?" whereas MHAS asks "How much does he/she disappoint you when you are you are counting on him/her?"

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Wave 2:

D2 marital status

D3A spouse understands your feelings

D3B confide in spouse

D3C spouse listens

D3D spouse disappoints

Wave 3:

A3_12 Current marital status
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Respondent's current marital status
Rate your spouse's understanding about your feelings
Rate your confidence level in your spouse regarding a s
Rate your spouse's attention level when speaking to him
Rate your level of disappointment in your spouse

Social Support: Children

Wave	Variable	Label	Туре
2	R2KUSTDFE_M R3KUSTDFE_M	r2kustdfe_m: w2 R Thinks children understand the way they fe r3kustdfe_m: w3 R Thinks children understand the way they fe	Categ Categ
2	s2KUSTDFE_M s3KUSTDFE_M	s2kustdfe_m: w2 S Thinks children understand the way they fe s3kustdfe_m: w3 S Thinks children understand the way they fe	Categ Categ
2	R2KRELY_M R3KRELY_M	r2krely_m: w2 R Can rely on children for a serious problem r3krely_m: w3 R Can rely on children for a serious problem	Categ Categ
2	S2KRELY_M S3KRELY_M	s2krely_m: w2 S Can rely on children for a serious problem s3krely_m: w3 S Can rely on children for a serious problem	Categ Categ
2	R2KOPENUP_M R3KOPENUP_M	r2kopenup_m: w2 R Can open up their worries to children r3kopenup_m: w3 R Can open up their worries to children	Categ Categ
2	S2KOPENUP_M S3KOPENUP_M	s2kopenup_m: w2 S Can open up their worries to children s3kopenup_m: w3 S Can open up their worries to children	Categ Categ
2	R2KLETDOW_M R3KLETDOW_M	r2kletdow_m: w2 Children let R down when counting on them r3kletdow_m: w3 Children let R down when counting on them	Categ Categ
2	S2KLETDOW_M S3KLETDOW_M	s2kletdow_m: w2 Children let S down when counting on them s3kletdow_m: w3 Children let S down when counting on them	Categ Categ
2	R2KSUPPORT4_M R3KSUPPORT4_M	r2ksupport4_m: w2 R's Children support summary mean score r3ksupport4_m: w3 R's children support summary mean score	Cont Cont
2	S2KSUPPORT4_M S3KSUPPORT4_M	s2ksupport4_m: w2 S's Children support summary mean score s3ksupport4_m: w3 S's children support summary mean score	Cont Cont
2	R2KSUPPORT4M_M R3KSUPPORT4M_M	r2ksupport4m_m: w2 Missings in R's children support summary r3ksupport4m_m: w3 Missings in R's children support summary	Cont Cont
2	S2KSUPPORT4M_M S3KSUPPORT4M_M	s2ksupport4m_m: w2 Missings in S's children support summary s3ksupport4m_m: w3 Missings in S's children support summary	Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2KUSTDFE_M	11865	1.31	0.54	1.00	3.00
R3KUSTDFE_M	13543	1.31	0.54		3.00
S2KUSTDFE_M	8507	1.27	0.51	1.00	3.00
S3KUSTDFE_M	9470	1.28	0.52		3.00
R2KRELY_M	11867	1.24	0.51	1.00	3.00
R3KRELY_M	13561	1.23	0.50		3.00
S2KRELY_M	8510	1.21	0.48	1.00	3.00
S3KRELY_M	9480	1.21	0.47		3.00
R2KOPENUP_M	11871	1.29	0.55	1.00	3.00
R3KOPENUP_M	13556	1.28	0.54		3.00
S2KOPENUP_M	8513	1.26	0.52	1.00	3.00
S3KOPENUP_M	9473	1.25	0.51		3.00

R2KLETDOW_M R3KLETDOW_M	11747 13489	2.51 2.33	0.70 0.80	1.00	3.00
S2KLETDOW_M S3KLETDOW_M	8424 9433	2.54 2.35	0.69 0.80	1.00	3.00
R2KSUPPORT4_M R3KSUPPORT4_M	11894 13580	1.33 1.37	0.46 0.45	1.00	3.00
S2KSUPPORT4_M S3KSUPPORT4_M	8524 9489	1.30 1.35	0.43 0.42	1.00	3.00
R2KSUPPORT4M_M R3KSUPPORT4M_M	13704 15723	0.54 0.56	1.36 1.37	0.00	4.00
S2KSUPPORT4M_M S3KSUPPORT4M_M	9564 10592	0.45 0.43	1.25 1.22	0.00	4.00

Categorical Variable Codes

Value	R2KUSTDFE_M 58	R3KUSTDFE_M 57
.m:Missing	3 584	920
.p:Proxy interview, not asked	1178	1169
r:Refuse	16	34
1.A lot	8688	9954
2.Little	2721	3026
3.Not at all	456	563
Value	S2KUSTDFE M	S3KUSTDFE M
.d:DK	28	32
.m:Missing	2	
.n:No children	195	389
<pre>.p:Proxy interview, not asked .r:Refuse</pre>	821 11	689 12
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	6422	7159
2.Little	1831	1992
3.Not at all	254	319
Value	R2KRELY M	R3KRELY M
.d:DK		$\frac{-}{4}$ 1
.m:Missing	3	
.n:No children	584	920
.p:Proxy interview, not asked	1178	1169
r:Refuse	17	32
1.A lot	9471	10900
2.Little	1925	2162
3.Not at all	471	499
Value	S2KRELY_M	_
.d:DK	23	22
.m:Missing	2	200
.n:No children .p:Proxy interview, not asked	195 821	389 689
.r:Refuse	13	12
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	6969	7760
2.Little	1280	1441
3.Not at all	261	279
Value	R2KOPENUP M	R3KOPENUP_M
.d:DK	<u>5</u> 2	$\overline{4}$ 0
.m:Missing	3	
.n:No children	584	920
.p:Proxy interview, not asked	1178	1169

.r:Refuse	16	38
1.A lot	9010	
2.Little	2286	2581
3.Not at all	575	621
77.3	COMODERNID W	COMODENIAD W
Value	S2KOPENUP_M	S3KOPENUP_M
.d:DK	21	22
.m:Missing	2	
.n:No children	195	389
.p:Proxy interview, not asked	821	689
.r:Refuse	12	19
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	6621	7426
2.Little	1579	1690
3.Not at all	313	357
Value	R2KLETDOW M	R3KLETDOW M
.d:DK	94	103
.m:Missing	199	200
.n:No children	1 458	920
.p:Proxy interview, not asked	1178	1169
.r:Refuse	1 28	42
1.A lot	1449	
2.Little	1 2900	3308
3.Not at all	7398	7305
Value	S2KLETDOW_M	S3KLETDOW_M
.d:DK	94	60
.m:Missing	197	
.n:No children		389
.p:Proxy interview, not asked	821	689
r:Refuse	28	21
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	934	1941
2.Little	2011	2261
3.Not at all	5479	5231
· · · · · · · · · · · · · · · · · · ·	,	

How Constructed

MHAS Waves 2 and 3 include four questions about children's social support which are only asked if the respondent has living children and the interview was not by proxy.

 $RwKUSTDFE_M$ indicates how much the respondent feels their children really understand the way they feel about things.

 $RwKRELY_M$ indicates how much the respondent feels they can confide in their children if they have a serious problem.

 $RwKOPENUP_M$ indicates how much the respondent feels their children would listen if they need to talk about their worries.

 $RwKLETDOW_M$ indicates how much the respondent feels they would be disappointed when they are counting on their children.

RWKUSTDFE_M, RWKRELY_M, RwKOPENUP_M and RWKLETDOW_M are coded as follow: 1. a lot, 2. little and 3. not at all. Special missing .n is assigned if the respondent indicates they did not have any children, hence the questions are not asked. Special missing .p is assigned if the interview is by proxy in which case these questions are not asked. Don't know, refused, or missing responses are assigned special missing values .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwKUSTDFE_M, SwKRELY_M, SwKOPENUP_M and SwKLETDOW_M indicate how much the current wave's spouse agrees with statements about their children and are taken from the spouse's values to RwKUSTDFE_M, RwKRELY_M, RwKOPENUP_M and RwKLETDOW_M. In addition to the special missing codes used in RwKUSTDFE_M, RwKRELY_M, RwKOPENUP_M and RwKLETDOW_M, SwKUSTDFE_M, SwKRELY_M, SwKOPENUP_M and SwKLETDOW_M 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.

RWKSUPPORT4_M indicates the mean of the answers to four different children questions (RwKUSTDFE_M, RwKRELY_M, RwKOPENUP_M and RwKLETDOW_M) and can be used as a summary score. RwKSUPPORT4_M is calculated for any respondent with at least one non-missing value for its four components. Since RwKSUPPORT4_M indicates how much the respondents feel lack of support by their children, we reverse coded the values of RwKLETDOW_M to make sure that higher scores indicate less support the respondent feels by their children. The coding of RwKUSTDFE_M, RwKRELY_M and RwKOPENUP_M did not change. RwKSUPPORT4M_M counts the number of components with missing values in RwKSUPPORT4_M, which could be between no missing components (0) and four missing components (4). Special missing .n is assigned if the respondent indicates they do not have living children, hence the questions are not asked. Special missing .p is assigned if the interview is by proxy in which case these questions are not asked. Special missing value .d, .r, or .m is assigned if all four components of the summary score are don't know, refused, or otherwise missing, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwKSUPPORT4_M and SwKSUPPORT4M_M indicate the mean summary score of the answers to four different children support questions and the count of any missing components for the current wave's spouse and are taken from the spouse's values to RwKSUPPORT4_M and RwKSUPPORT4M_M. In addition to the special missing codes used in RwKSUPPORT4_M and RwKSUPPORT4M_M, SwKSUPPORT4_M and SwKSUPPORT4M_M 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 MHAS

Questions about children's social support are only asked in MHAS Waves 2 and 3.

Differences with the RAND HRS/Harmonized HRS

Unlike HRS, MHAS did not ask the following of the respondent:

- 1. how often they feel their children make too many demands on them;
- 2. how much the respondent feels their children criticize them;
- 3. how much the respondent feels their children get on their nerves.

HRS uses a four-point response scale from "a lot" to "not at all", MHAS uses a 3 point response scale from "a lot" to "not at all."

Also, the following questions wording is slightly different between HRS and MHAS:

- 1. HRS asks "How much can you rely on them if you have a serious problem?" whereas MHAS asks "How much can you confide in them if you have a serious problem?
- 2. HRS asks "How much can you open up to them if you need to talk about your worries?" whereas MHAS asks "How much do they listen if you need to talk about your worries?"
- 3. HRS asks "How much do they let you down when you are counting on them?" whereas MHAS asks "How much do they disappoint you when you are talking to them?"

```
Wave 2:
   D4
                    person has living children
   D5A
                    children understand your feelings
    D5B
                    confide in children
   D5C
                    children listen
   D5D
                    children disappoint
Wave 3:
   A7 2 12
                   Correct number of children born alive
   A8 12
                   Number of children currently living
```

AA19 12	Respondent's number of children born alive
AA20_12	Of children born alive how many children currently livi
D22A_12	Rate your children's understanding about your feelings
D22B_12	Rate your confidence level in your children regarding a
D22C_12	Rate your children's attention level when speaking to t
D22D_12	Rate your level of disappointment in your children

Social Support: Friends

Wave	Variable	Label	Туре
	R2FUSTDFE_M R3FUSTDFE_M	r2fustdfe_m: w2 R Thinks friends understand the way they fee r3fustdfe_m: w3 R Thinks friends understand the way they fee	Categ Categ
2	S2FUSTDFE_M S3FUSTDFE_M	s2fustdfe_m: w2 S Thinks friends understand the way they fee s3fustdfe_m: w3 S Thinks friends understand the way they fee	Categ Categ
2	R2FRELY_M R3FRELY_M	r2frely_m: w2 R Can rely on friends for a serious problem r3frely_m: w3 R Can rely on friends for a serious problem	Categ Categ
2	S2FRELY_M S3FRELY_M	<pre>s2frely_m: w2 S Can rely on friends for a serious problem s3frely_m: w3 S Can rely on friends for a serious problem</pre>	Categ Categ
2	R2FOPENUP_M R3FOPENUP_M	r2fopenup_m: w2 R Can open up their worries to friends r3fopenup_m: w3 R Can open up their worries to friends	Categ Categ
2	S2FOPENUP_M S3FOPENUP_M	s2fopenup_m: w2 S Can open up their worries to friends s3fopenup_m: w3 S Can open up their worries to friends	Categ Categ
2	R2FLETDOW_M R3FLETDOW_M	r2fletdow_m: w2 Friends let R down when counting on them r3fletdow_m: w3 Friends let R down when counting on them	Categ Categ
2	S2FLETDOW_M S3FLETDOW_M	s2fletdow_m: w2 Friends let S down when counting on them s3fletdow_m: w3 Friends let S down when counting on them	Categ Categ
2	R2FSUPPORT4_M R3FSUPPORT4_M	r2fsupport4_m: w2 R's Friends support summary mean score r3fsupport4_m: w3 R's Friends support summary mean score	Cont Cont
2	S2FSUPPORT4_M S3FSUPPORT4_M	s2fsupport4_m: w2 S's Friends support summary mean score s3fsupport4_m: w3 S's Friends support summary mean score	Cont Cont
	R2FSUPPORT4M_M R3FSUPPORT4M_M	r2fsupport4m_m: w2 Missings in R's friends support summary m r3fsupport4m_m: w3 Missings in R's friends support summary m	Cont Cont
	S2FSUPPORT4M_M S3FSUPPORT4M_M	s2fsupport4m_m: w2 Missings in S's friends support summary m s3fsupport4m_m: w3 Missings in S's friends support summary m	Cont Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2FUSTDFE_M	8869	1.56	0.65	1.00	3.00
R3FUSTDFE_M	8769	1.54	0.66		3.00
S2FUSTDFE_M	6241	1.59	0.65	1.00	3.00
S3FUSTDFE_M	6106	1.56	0.66		3.00
R2FRELY_M	8887	1.64	0.70	1.00	3.00
R3FRELY_M	8805	1.62	0.69		3.00
S2FRELY_M	6257	1.66	0.70	1.00	3.00
S3FRELY_M	6131	1.63	0.69		3.00
R2FOPENUP_M	8887	1.58	0.68	1.00	3.00
R3FOPENUP_M	8813	1.57	0.68		3.00
S2FOPENUP_M	6259	1.60	0.68	1.00	3.00
S3FOPENUP_M	6136	1.59	0.68		3.00

R2FLETDOW_M	8689	2.43	0.68	1.00	3.00
R3FLETDOW_M	8760	2.36	0.72		3.00
S2FLETDOW_M S3FLETDOW_M	6108 6103	2.42 2.36	0.68 0.72	1.00	3.00 3.00
R2FSUPPORT4_M	8932	1.59	0.54	1.00	3.00
R3FSUPPORT4_M	8836	1.59	0.50		3.00
S2FSUPPORT4_M	6285	1.61	0.54	1.00	3.00
S3FSUPPORT4_M	6151	1.61	0.50		3.00
R2FSUPPORT4M_M R3FSUPPORT4M_M	13704 15723	1.42 1.76	1.90 1.98	0.00	4.00
S2FSUPPORT4M_M S3FSUPPORT4M_M	9564 10592	1.40 1.69	1.89 1.97	0.00	4.00

Categorical Variable Codes

Value .d:DK	R2FUSTDFE_M 119	R3FUSTDFE_M 106
.m:Missing	3	
.n:No friends	3519	5554
.p:Proxy interview, not asked	1178	1275
.r:Refuse	16	19
1.A lot	4700	4795
2.Little	3366	3176
3.Not at all	803	798
Value	S2FUSTDFE M	S3FUSTDFE M
.d:DK	8 0	 69
.m:Missing	2	
.n:No friends	2408	3679
.p:Proxy interview, not asked	821	726
r:Refuse	12	12
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	3158	3251
2.Little	2511	2291
3.Not at all	572	564
Value	R2FRELY M	R3FRELY M
.d:DK	$1\overline{0}0$	- 71
.m:Missing	3	
.n:No friends	3519	5554
.p:Proxy interview, not asked	1178	1275
r:Refuse	17	18
1.A lot	4374	4420
2.Little	3360	3307
3.Not at all	1153	1078
Value	S2FRELY_M	_
.d:DK	64	45
.m:Missing	2	
.n:No friends	2408	3679
.p:Proxy interview, not asked	821	726
.r:Refuse	12	11
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	2951	3002
2.Little	2491	2379
3.Not at all	815	750
Value	R2FOPENUP_M	R3FOPENUP_M
.d:DK	101	6 5
.m:Missing	3	
.n:No friends	3519	5554
.p:Proxy interview, not asked	1178	1275

.r:Refuse	16	16
1.A lot	4714	
2.Little	3207	
3.Not at all	966	966
Value	S2FOPENUP M	S3FOPENUP M
.d:DK		$\overline{4}1$
.m:Missing	2	
.n:No friends	2408	3679
.p:Proxy interview, not asked	821	726
.r:Refuse	12	10
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	3190	3219
2.Little	2381	2236
3.Not at all	688	681
Value	R2FLETDOW M	R3FLETDOW M
.d:DK	2 8 3	$1\overline{0}5$
.m:Missing	3	
.n:No friends	3519	5554
.p:Proxy interview, not asked	1178	1275
.r:Refuse	32	29
1.A lot	947	1271
2.Little	3033	3029
3.Not at all	4709	4460
Value	S2FLETDOW_M	S3FLETDOW_M
.d:DK	201	65
.m:Missing	2	
.n:No friends	2408	3679
.p:Proxy interview, not asked	821	726
.r:Refuse	24	19
.u:Unmar	4009	4782
.v:SP NR	131	349
1.A lot	675	885
2.Little	2222	
3.Not at all	3211	3090

How Constructed

MHAS Waves 2 and 3 include four questions about friend's, acquaintance's, or work colleague's social support which are only asked if the respondent reports that they have friends, acquaintances, or work colleagues and the interview was not by proxy.

 $RwFUSTDFE_M$ indicates how much the respondent feels their friends/acquaintances/work colleagues really understand the way they feel about things.

RWFRELY_M indicates how much the respondent feels they can confide in their friends/acquaintances/work colleagues if they have a serious problem.

RwFOPENUP_M indicates how much the respondent feels friends/acquaintances/work colleagues would listen if they need to talk about their worries.

 ${\tt RwFLETDOW_M} \ \, \text{indicates how much the respondent feels they would be disappointed when they are counting on their friends/acquaintances/work colleagues.}$

RWFUSTDFE_M, RWFRELY_M, RWFOPENUP_M and RWFLETDOW_M are coded as follow: 1. a lot, 2. little and 3. not at all. Special missing .n is assigned if the respondent indicates they did not have any friends, hence the questions are not asked. Special missing .p is assigned if the interview is by proxy in which case these questions are not asked. Don't know, refused, or missing responses are assigned special missing values .d, .r, .m, respectively. Plain missing (.) is assigned for respondents who did not respond to the current wave.

SwFUSTDFE_M, SwFRELY_M, SwFOPENUP_M and SwFLETDOW_M indicate how much the current wave's spouse agrees with statements about their friends and are taken from the spouse's values to RwFUSTDFE_M, RwFRELY_M, RwFOPENUP_M and RwFLETDOW_M. In addition to the special missing codes used in RwFUSTDFE_M, RwFRELY_M, RwFOPENUP_M and RwFLETDOW_M, SwFUSTDFE_M, SwFRELY_M, SwFOPENUP_M and SwFLETDOW_M 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.

RWFSUPPORT4_M indicates the mean of the answers to four different friend support questions (RwFUSTDFE_M, RwFRELY_M, RwFOPENUP_M and RwFLETDOW_M) and can be used as a summary score. RwFSUPPORT4_M is calculated for any respondent with at least one non-missing value for its four components. Since RwFSUPPORT4_M is the variable that indicates how much the respondents feel lack of support from their friends/acquaintances/work colleagues, we reverse coded the values of RwFLETDOW_M to make sure that higher scores indicate less support the respondent feels by their friends. The coding of RwFUSTDFE_M, RwFRELY_M and RwFOPENUP_M did not change. RwFSUPPORT4M_M counts the number of components with missing values in RwFSUPPORT4_M, which could be between no missing components (0) and four missing components (4). RwFSUPPORT4_M is assigned special missing values .d, .r, or .m if the answers to all components are don't know, refused, or otherwise missing. RwFSUPPORT4_M is assigned special missing value .p or .n if the interview was completed by proxy or if the respondent reported having no friends, respectively. RwFSUPPORT4_M and RwFSUPPORT4M_M are assigned plain missing (.) if the respondent did not respond to the current wave.

SwFSUPPORT4_M and SwFSUPPORT4M_M indicate the mean summary score of the answers to four different friends support questions and the count of any missing components for the current wave's spouse and are taken from the spouse's values to RwFSUPPORT4_M and RwFSUPPORT4M_M. In addition to the special missing codes used in RwFSUPPORT4_M and RwFSUPPORT4M_M, SwFSUPPORT4_M and SwFSUPPORT4M_M 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 MHAS

Questions about friend's, acquaintance's, or work colleague's social support are only asked in MHAS Waves 2 and 3.

Differences with the RAND HRS/Harmonized HRS

Unlike HRS, MHAS did not ask the following of the respondent:

- 1. how often they feel their friends make too many demands on them;
- 2. how much the respondent feels their friends criticize them;
- 3. how much the respondent feels their friends get on their nerves.

HRS uses a four-point response scale from "a lot" to "not at all", MHAS uses a three-point response scale from "a lot" to "not at all."

Also, the following questions wording is slightly different between HRS and MHAS:

- 1. HRS asks "How much can you rely on them if you have a serious problem?" whereas MHAS asks "How much can you confide in them if you have a serious problem?
- 2. HRS asks "How much can you open up to them if you need to talk about your worries?" whereas MHAS asks "How much do they listen if you need to talk about your worries?"
- 3. HRS asks "How much do they let you down when you are counting on them?" whereas MHAS asks "How much do they disappoint you when you are talking to them?"

HRS also just asks about "friends", whereas MHAS extends the questions to "friends/acquaintances/work colleagues."

MHAS Variables Used

Wave 2:

D6 have friends and companions

D7A friends understand

D7B	confide in friends
D7C	friends listen
D7D	friends disappoint
Wave 3:	
D23 12	Does respondent have friends, acquaintances or work coll
D24A_12	Rate your friends understanding about your feelings
D24B 12	Rate your confidence level in your friends regarding a
D24C 12	Rate your friends attention level when speaking to them
D24D_12	Rate your level of disappointment in your friends

Experienced Death of a Child

Wave	Variable	Label									Type
1	H1CHDEATHE	h1chdeathe:	w1	R+S	Ever	experienced	death	of	own	child	Categ
2	H2CHDEATHE	h2chdeathe:	w2	R+S	Ever	experienced	death	of	own	child	Categ
3	H3CHDEATHE	h3chdeathe:	wЗ	R+S	Ever	experienced	death	of	own	child	Categ
4	H4CHDEATHE	h4chdeathe:	w4	R+S	Ever	experienced	death	of	own	child	Categ
5	H5CHDEATHE	h5chdeathe:	w5	R+S	Ever	experienced	death	of	own	child	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CHDEATHE	15186	0.37	0.48	0.00	1.00
H2CHDEATHE	13704	0.38	0.49	0.00	1.00
H3CHDEATHE	15723	0.32	0.46	0.00	1.00
H4CHDEATHE	14779	0.32	0.47	0.00	1.00
H5CHDEATHE	17114	0.27	0.44	0.00	1.00

Categorical Variable Codes

Value	H1CHDEATHE	H2CHDEATHE	H3CHDEATHE	H4CHDEATHE	H5CHDEATHE
0.No	9513	8510	10764	10057	12548
1.Yes	5673	5194	4959	4722	4566

How Constructed

HwCHDEATHE indicates whether the respondent and/or their spouse has ever experienced the death of their own child. This variable is based on the count of deceased children that the respondent and their spouse provide during their interviews (HwDCHILD), including children who died prior to the respondent joining MHAS, children who were household residents and passed away, and children who lived separately and passed away. HwCHDEATHE is given a code of 0 if the respondent reported no deceased children. HwCHDEATHE is given a code of 1 if the respondent reported at least one deceased child. Don't know, refused, or missing responses are assigned special missing values .d, .r, .m, respectively. HwCHDEATHE is assigned plaing missing (.) for respondents who did not participate in the current wave.

Cross Wave Differences in MHAS

Please see Section G: Number of Deceased Children for any differences across waves.

Differences with the RAND HRS/Harmonized HRS

Unlike HRS, most of the childhood and lifetime stressful events questions were not asked in the MHAS. In addition, the HRS asks whether the respondent has experienced the death of their own child while in the MHAS the variable is created using the count of deceased children that the respondent and their spouse have ever had. It is a respondent-level variable in the Harmonized MHAS.

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Wave 1:

B25 registration number of deceased children

Wave 2:

B1 code of respondent

TRH10 relationship with spouse

TRH3 registration number

TRH5 current situation

TRH9 relationship

Wave 3:
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B21B_12 B3 12	Deceased CHILD: registration number
B3_12 B7 12	Follow-up respondent's registration number Residency status of non-resident child
NB25 12	New respondent's registration number
TRH10 12	
· —	Resident's relationship to respondent's spouse
TRH3_12	Household Resident registration number
TRH5_12	Former Resident's current residential status
TRH9_12	Resident's relationship to respondent
Wave 4:	
B21B_15	Deceased Child: Registration number
B3_15	Non-resident Child: Registration number
В7 15	Non-resident Child: Residency status of non-resident ch
NB 2 5 15	Deceased Child: Registration number
TRH10 15	Resident's relationship to respondent's spouse
TRH3_15	Household resident registration number
TRH5 15	Former resident's current residential status
TRH9 15	Resident's relationship to respondent
Wave 5:	
B21B 18	
вз 1 8	Non-resident Child: Registration number
В7 ⁻ 18	Non-resident Child: Residency status of non-resident ch
NB25 18	Deceased Child: Registration number
TRH10 18	Resident's relationship to respondent's spouse
TRH3 18	Household resident registration number
TRH5 18	Former resident's current residential status
TRH9 18	Resident's relationship to respondent
NB25_15 TRH10_15 TRH3_15 TRH5_15 TRH9_15 Wave 5: B21B_18 B3_18 B7_18 NB25_18 TRH10_18 TRH3_18 TRH5_18	Deceased Child: Registration number Resident's relationship to respondent's spouse Household resident registration number Former resident's current residential status Resident's relationship to respondent Non-resident Child: Registration number Non-resident Child: Residency status of non-resident ch Deceased Child: Registration number Resident's relationship to respondent's spouse Household resident registration number

Section O: End of Life Planning

Will: Whether Has a Will

Wave	Variable	Label	Type
1	H1WITWILL M	h1witwill m: w1 R+S have made arrangements	Categ
2	H2WITWILL M	h2witwill m: w2 R+S have made arrangements	Categ
3	H3WITWILL_M	h3witwill_m: w3 R+S have made arrangements	Categ
4	H4WITWILL M	h4witwill m: w4 R+S have made arrangements	Categ
5	H5WITWILL_M	h5witwill_m: w5 R+S have made arrangements	Categ
3	H3WITWILL	h3witwill: w3 R+S have witnessed will	Categ
4	H4WITWILL	h4witwill: w4 R+S have witnessed will	Categ
5	H5WITWILL	h5witwill: w5 R+S have witnessed will	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1WITWILL M	13648	0.14	0.34	0.00	1.00
H2WITWILL M	12307	0.12	0.33	0.00	1.00
H3WITWILL M	13363	0.17	0.37	0.00	1.00
H4WITWILL M	12963	0.19	0.39	0.00	1.00
H5WITWILL_M	14437	0.16	0.37	0.00	1.00
	10055	0 10	0.00	0.00	1 00
H3WITWILL	13357	0.13	0.33	0.00	1.00
H4WITWILL	12954	0.14	0.35	0.00	1.00
H5WITWILL	14431	0.12	0.33	0.00	1.00

Categorical Variable Codes

Value	H1WITWILL M	H2WITWILL M	H3WITWILL M	H4WITWILL M	H5WITWILL M
.a:owns no assets	1331	$11\overline{2}7$	13 6 8	12 <u>9</u> 6	17 8 3
.d:DK	62	7	33	12	42
.m:Missing	59	31		50	20
.p:Proxy interview, not asked	502	554	911	588	803
.r:Refuse	69	13	48	23	29
0.no	11803	10774	11152	10488	12055
1.yes	1845	1533	2211	2475	2382
Value			H3WITWILL	H4WITWILL	H5WITWILL
.a:owns no assets			1368	1296	1783
.d:DK			36	18	45
.m:Missing				50	20
.p:Proxy interview, not asked			911	588	803
.r:Refuse			51	26	32
0.no			11668	11120	12643
			11000	11120	12010

How Constructed

HwWITWILL_M is an MHAS specific variable that indicates whether the respondent and their spouse have made arrangements to transfer their assets in case of death. HwWITWILL_M is assigned a 0 if no arrangements have been made, and is assigned a 1 if arrangements have been made to transfer their assets in case of death. HwWITWILL_M is assigned special missing .p if this question was skipped because the interview was by proxy. HwWITWILL_M is assigned special missing .a if the respondent voluntarily reports that they do not own assets. Don't know, refused or otherwise missing responses are assigned special missing .d, .r, and .m, respectively. HwWITWILL_M is set to plain missing (.) for respondents who did not participate in the current wave.

HwWITWILL indicates whether the respondent and their spouse have made arrangements to transfer their assets in case of death which have been written in a formal will by a notary. Starting in Wave 3, the respondent is first asked whether they have made any arrangements to transfer their assets in case of death, and if so, is then asked if these arrangements are written in a formal will by a notary. HwWITWILL

is assigned a 0 if no arrangements have been made or if arrangements have been made but they have not been written in a formal will by a notary. HwWITWILL is assigned a 1 if arrangements have been made and they have been written in a formal will by a notary. HwWITWILL is assigned special missing .p if these questions were skipped because the interview was by proxy. HwWITWILL is assigned special missing .a if the respondent voluntarily reports that they do not own assets. Don't know, refused or otherwise missing responses are assigned special missing .d, .r, and .m, respectively. HwWITWILL is set to plain missing (.) for respondents who did not participate in the current wave.

Cross Wave Differences in MHAS

In all waves, the respondent is asked "Have you made any arrangements to transfer your assets in case of death?" Starting in Wave 3, if the answer is yes, then the respondent is asked "Are these arrangements written in a formal will by a notary?"

Differences with the RAND HRS/Harmonized HRS

The HRS asks both the respondent and the spouse whether they have a will that is written and witnessed, the answers to which are presented in RwWITWILL and SwWITWILL in the Harmonized HRS. The MHAS asks at the couple-level whether arrangements have been made to transfer their assets in case of death, which could indicate a formal or informal arrangement, which is presented in HwWITWILL_M in the Harmonized MHAS. Starting in Wave 3 of the MHAS, the respondent is asked whether the arrangements have been written in a formal will by a notary, making the question more comparable to the one asked in the HRS, and the answers to which are presented in HwWITWILL in the Harmonized MHAS.

Wave 1:	
ENT TIP	type of individual interview
K88	transfers plans
Wave 2:	
K93	transfers plans
TIPENT	type of individual interview
Wave 3:	
K93A 12	Arrangements to transfer asset(s) at time of death
К93B 12	Formal arrangements written by a notary
TIPENTK 12	Type of interview section K 2012
Wave 4:	
K93A 15	Arrangements to transfer asset(s) at time of death
К93В [—] 15	Formal arrangements written by a notary
TIPENTK 15	Type of interview section K 2015
Wave 5:	
K93A_18	Arrangements to transfer asset(s) at time of death
K93B_18	Formal arrangements written by a notary
TIPENT_HH_18	Type of interview Household Sections 2018

Will: Beneficiaries of Will

Wave	Variable	Label								Type
1 2 3 4	H1WILLSP H2WILLSP H3WILLSP H4WILLSP	h2willsp: h3willsp:	w2 w3	R+S R+S	will will	has has	provisions provisions provisions	for for	spouse spouse	Categ Categ
5	H5WILLSP	-					provisions provisions		-	Categ Categ
1 2 3 4 5	H1WILLCG H2WILLCG H3WILLCG H4WILLCG H5WILLCG	h2willcg: h3willcg: h4willcg:	w2 w3 w4	R+S R+S R+S	will will will	has has has	provisions provisions provisions	for for for	child/grandchild child/grandchild child/grandchild child/grandchild child/grandchild	Categ Categ Categ Categ Categ
1 2 3 4 5	H1WILLOT H2WILLOT H3WILLOT H4WILLOT H5WILLOT	h2willot: h3willot: h4willot:	w2 w3 w4	R+S R+S R+S	will will will	has has has	provisions provisions provisions provisions provisions	for for for	other other	Categ Categ Categ Categ Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1WILLSP	1742	0.66	0.47	0.00	1.00
H2WILLSP	1489	0.63	0.48	0.00	1.00
H3WILLSP	2211	0.62	0.48	0.00	1.00
H4WILLSP	2452	0.61	0.49	0.00	1.00
H5WILLSP	2382	0.61	0.49	0.00	1.00
H1WILLCG	1822	0.92	0.27	0.00	1.00
H2WILLCG	1502	0.90	0.29	0.00	1.00
H3WILLCG	1653	0.94	0.23	0.00	1.00
H4WILLCG	1796	0.94	0.23	0.00	1.00
H5WILLCG	1763	0.94	0.23	0.00	1.00
H1WILLOT	1822	0.06	0.24	0.00	1.00
H2WILLOT	1502	0.08	0.28	0.00	1.00
H3WILLOT	1653	0.05	0.22	0.00	1.00
H4WILLOT	1796	0.04	0.20	0.00	1.00
H5WILLOT	1763	0.06	0.24	0.00	1.00

Categorical Variable Codes

Value	- H1WILLSP	H2WILLSP	H3WILLSP	H4WILLSP	H5WILLSP
.a:owns no assets	1331	1127	1368	1296	1783
.d:DK	[62	7	33	12	42
.m:Missing	107	31		50	20
.p:Proxy interview, not asked	502	554	911	588	803
.r:Refuse	69	13	48	23	29
.w:no will	11803	10774	11152	10488	12055
0.no	592	545	831	968	934
1.yes	1150	944	1380	1484	1448
Value	- H1WILLCG	H2WILLCG	H3WILLCG	H4WILLCG	H5WILLCG
.a:owns no assets	1331	1127	1368	1296	1783
.d:DK	73	9	36	27	62
.m:Missing	59	31		50	20
.p:Proxy interview, not asked	502	554	911	588	803
.r:Refuse	81	42	87	55	40
.w:no will	11803	10774	11668	11120	12643

0.no 1.yes		146 1676	144 1358	91 1562	99 1697	98 1665
Value		H1WILLOT	H2WILLOT	H3WILLOT	H4WILLOT	H5WILLOT
.a:owns no assets		1331	1127	1368	1296	1783
.d:DK		73	9	36	27	62
.m:Missing		59	31	516	50	20
.p:Proxy interview, not asked		502	554	911	588	803
.r:Refuse		81	42	87	55	40
.w:no will	i	11803	10774	11152	11120	12643
0.no		1707	1377	1568	1722	1654
1.yes	j	115	125	85	74	109

How Constructed

HwWILLSP indicates whether the respondent's spouse would be a beneficiary of their assets in case of death. HwWILLCG indicates whether the respondent's children and/or grandchildren would be a beneficiary of their assets in case of death. HwWILLOT indicates whether someone other than the respondent's spouse, children and/or grandchildren would be a beneficiary of their assets in case of death. In Waves 1 and 2 if the respondent reports having made arrangements to transfer assets in case of death, and starting in Wave 3 if the respondent reports having a written will, then the respondent is asked "Excluding your spouse, who would be the beneficiary of your assets in case of death?" HwWILLSP is assigned a value of 0 if the respondent reports having a will and being partnered, separated, divorced, widowed, or never married, and is assigned a value of 1 if the respondent reports having a will and being married. Even though the question explicitly excludes the spouse, due to institutional arrangements in Mexico, a spouse will automatically be a beneficiary of their spouse's will. HwWILLCG is assigned a value of 0 if the respondent reports that another person or no one else would be the beneficiary, and is assigned a value of 1 if the respondent reports that children and/or grandchildren would be a beneficiary of their assets. HwWILLOT is assigned a value of 0 if the respondent reports that the children and/or grandchildren or no one else would be the beneficiary, and is assigned a value of 1 if the respondent reports that another person would be a beneficiary of their assets. HwWILLSP, HwWILLCG, and HwWILLOT are assigned special missing .p if these questions were skipped because the interview was by proxy. HwWILLSP, HwWILLCG, HwWILLOT are assigned special missing .a if the respondent voluntarily reports that they do not own assets. HwWILLSP, HwWILLCG, and HwWILLOT are assigned special missing .w if the respondent has not made arrangements to transfer assets in case of death in Waves 1 and 2, and if the respondent does not have a written will starting in Wave 3. Don't know, refused or otherwise missing responses are assigned special missing .d, .r, and .m, respectively. HwWILLSP, HwWILLCG, and HwWILLOT are set to plain missing (.) for respondents who did not participate in the current wave.

Cross Wave Differences in MHAS

In Waves 1 and 2, respondents are asked who, excluding their spouse, would be a beneficiary of their assets if they report having made arrangements to transfer their assets in case of death. Starting in Wave 3, respondents are asked this question only if they report having a formal will written by a notary.

Differences with the RAND HRS/Harmonized HRS

The HRS asks both the respondent and their spouse whether they have a will that is written and witnessed. The MHAS asks at the couple-level whether arrangements have been made to transfer their assets in case of death, which could indicate a formal or informal arrangement. Starting in Wave 3 of the MHAS, the respondent is asked whether the arrangements have been written in a formal will by a notary, making the question more comparable to the one asked in the HRS.

In the HRS, if the respondent reports having a will, the respondent is asked separately whether the will has provisions for family other than their spouse, children, grandchildren, and charity. In the MHAS, if the respondent reports having made arrangements in Waves 1 and 2, or if the respondent reports having a formal will starting in Wave 3, then the respondent is asked who would be the beneficiary of their assets in case of death, excluding their spouse, and are given the following options: 1.children and/or grandchildren, 2.other, 3.child and/or grandchild and other, 4.no one else. Due to institutional arrangements in Mexico, a spouse will automatically be a beneficiary of their spouse's will and so is not explicitly asked in the MHAS. Because of these differences in categories, the variables RwWILLSP, RwWILLFM, RwWILLCH, RwWILLGK, and RwWILLAR are primarily used in the Harmonized HRS, and HwWILLSP, HwWILLCG, and HwWILLOT are used in the Harmonized MHAS.

Wave 1:	
ENT TIP	type of individual interview
K88	transfers plans
K89	beneficiary of will
Wave 2:	
K93	transfers plans
K94	beneficiary of will
TIPENT	type of individual interview
Wave 3:	
K93A_12	Arrangements to transfer asset(s) at time of death
K93B_12	Formal arrangements written by a notary
K94_12	At death, exclusing spouse, who would receive assets
TIPENTK_12	Type of interview section K 2012
Wave 4:	
K93A_15	Arrangements to transfer asset(s) at time of death
K93B_15	Formal arrangements written by a notary
K94_15	At death, exclusing spouse, who would be beneficiary of
TIPENTK_15	Type of interview section K 2015
Wave 5:	
K93A_18	Arrangements to transfer asset(s) at time of death
K93B_18	Formal arrangements written by a notary
K94_18	At death, exclusing spouse, who would be beneficiary of
TIPENT_HH_18	Type of interview Household Sections 2018

Covered by Life Insurance

Wave	Variable	Label	Type
1	R1LIFEIN M	rllifein m: w1 R Covered by life insurance	Categ
2	R2LIFEIN M	r2lifein m: w2 R Covered by life insurance	Categ
3	R3LIFEIN M	r3lifein m: w3 R Covered by life insurance	Categ
4	R4LIFEIN M	r4lifein m: w4 R Covered by life insurance	Categ
5	R5LIFEIN_M	r5lifein_m: w5 R Covered by life insurance	Categ
1	S1LIFEIN_M	sllifein_m: w1 S Covered by life insurance	Categ
2	S2LIFEIN M	s2lifein_m: w2 S Covered by life insurance	Categ
3	S3LIFEIN M	s3lifein_m: w3 S Covered by life insurance	Categ
4	S4LIFEIN M	s4lifein m: w4 S Covered by life insurance	Categ
5	S5LIFEIN M	s5lifein m: w5 S Covered by life insurance	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIFEIN M	6579	0.16	0.37	0.00	1.00
R2LIFEIN M	5749	0.12	0.33	0.00	1.00
R3LIFEIN M	5680	0.18	0.39	0.00	1.00
R4LIFEIN M	5561	0.11	0.31	0.00	1.00
R5LIFEIN_M	7040	0.15	0.36	0.00	1.00
S1LIFEIN M	4976	0.17	0.37	0.00	1.00
S2LIFEIN M	4380	0.13	0.34	0.00	1.00
S3LIFEIN M	4204	0.19	0.39	0.00	1.00
S4LIFEIN M	4031	0.11	0.31	0.00	1.00
S5LIFEIN M	2664	0.09	0.28	0.00	1.00

Categorical Variable Codes

Value	R1LIFEIN M	R2LIFEIN M	R3LIFEIN M	R4LIFEIN M	R5LIFEIN M
.d:DK	83	30	9	- 63	$\overline{1}7$
.m:Missing	42	42		40	18
.q:not asked		10			
.r:Refuse	55	3	7	7	23
.w:not working	8427	7870	10027	9108	10016
0.no	5526	5031	4640	4955	5990
1.yes	1053	718	1040	606	1050
Value	S1LIFEIN_M	S2LIFEIN_M	S3LIFEIN_M	S4LIFEIN_M	S5LIFEIN_M
.d:DK	63	24	6	50	4
.m:Missing	14	19		10	3
.q:not asked		8			
.r:Refuse	45	1	3	6	12
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
.w:not working	5550	5132	6379	5555	4778
0.no	4149	3809	3401	3584	2432
1.yes	827	571	803	447	232

How Constructed

RWLIFEIN M is an MHAS specific variable that indicates whether the respondent has life insurance.

The number of questions and wording changed between waves depending on the type of interview: follow-up or new subject interviews. In Wave 1, respondents are asked "In your main job which of the following benefits do you receive (did you receive)... Life Insurance?". In Wave 2, follow-up respondents were asked "In your primary job which of the following benefits do you receive (did you receive)... Life Insurance?" and new respondents were asked "In your current primary job, which of the following benefits

do you receive?". In Wave 3, both follow-up and new respondents were asked the two questions. Starting in Wave 4, only new respondents were asked "In your primary job throughout your life, which of the following benefits do you receive (did you receive)... Life Insurance?" and both follow-up and new respondents were asked "In your current primary job, which of the following benefits do you receive?".

RwLIFEIN_M is assigned a value of 0 if the respondent did not report having life insurance, and is assigned a value of 1 if the respondent did report having life insurance. RwLIFEIN_M is set to .w, if the respondent reports they are currently not working. RwLIFEIN_M is assigned special missing values .d or .r for don't know or refused responses, respectively. In Wave 2, RwLIFEIN_M is set to .q to indicate that the life insurance question was not asked for follow-up respondents that are currently working. The variables are set to plain missing (.) for respondents who did not respond to the current wave.

SwLIFEIN_M are taken from the Wave 'w' spouse's value for RwLIFEIN_M. In addition to the special missing codes used in RwLIFEIN, if the respondent is not designated as coupled in the current wave and assumed to be single, a special missing value of .u is used. Also, if the respondent is not designated as coupled in the current wave but reports being married, a special missing value of .v is used.

Cross Wave Differences in MHAS

The number of questions and wording changed between waves depending on the type of interview: follow-up or new subject interviews. In Wave 1, respondents are asked "In your main job which of the following benefits do you receive (did you receive)... Life Insurance?". In Wave 2, follow-up respondents were asked "In your primary job which of the following benefits do you receive (did you receive)... Life Insurance?" and new respondents were asked "In your current primary job, which of the following benefits do you receive?". In Wave 3, both follow-up and new respondents were asked the two questions. Starting in Wave 4, only new respondents were asked "In your primary job throughout your life, which of the following benefits do you receive (did you receive)... Life Insurance?" and both follow-up and new respondents were asked "In your current primary job, which of the following benefits do you receive?". Also different to Wave 2, is the dynamics of the Employment Section (determined by the skip patterns) which was modified depending on the type of interview: follow-up or new subject interviews, in particular for the 'Work History' and 'Principal Occupation' questions. The difference in the skip patterns affects the Life Insurance variable.

Differences with the RAND HRS/Harmonized HRS

Different from the HRS, the MHAS asks respondents whether they have life insurance as a benefit from their main or current job.

Wave 1:	
I17G	benefits for life insurance
Wave 2:	
I12_7	received benefits - life insurance
I25_6	benefits from current job - life insurance
Wave 3:	
I12_7_12	Received(s) benefits from primary job - life insurance
I25_7_12	Benefits from current job - life insurance
Wave 4:	
I12_7_15	Did respondent received (receives) benefits from his/her
I25A7 15	Does respondent receive benefits from his/her current p
Wave 5:	
I12 7 18	Did R receive (receives) benefits from his/her primary j
I25A7_18	Does R receive benefits from his/her current primary jo

Section Q: Psychosocial

Depressive Symptoms: CESD

Wave	Variable	Label	Туре
1	R1DEPRES	rldepres: w1 R CESD-Felt depressed	Categ
2	R2DEPRES	r2depres: w2 R CESD-Felt depressed	Categ
3	R3DEPRES	r3depres: w3 R CESD-Felt depressed	Categ
4	R4DEPRES	r4depres: w4 R CESD-Felt depressed	Categ
	R5DEPRES	r5depres: w5 R CESD-Felt depressed	Categ
1	S1DEPRES	sldepres: w1 S CESD-Felt depressed	Categ
2	S2DEPRES	s2depres: w2 S CESD-Felt depressed	Categ
3	S3DEPRES	s3depres: w3 S CESD-Felt depressed	Categ
4	S4DEPRES	s4depres: w4 S CESD-Felt depressed	Categ
5	S5DEPRES	s5depres: w5 S CESD-Felt depressed	Categ
			-
1	R1EFFORT	rleffort: w1 R CESD-Everything an effort	Categ
2	R2EFFORT	r2effort: w2 R CESD-Everything an effort	Categ
3	R3EFFORT	r3effort: w3 R CESD-Everything an effort	Categ
4	R4EFFORT	r4effort: w4 R CESD-Everything an effort	Categ
5	R5EFFORT	r5effort: w5 R CESD-Everything an effort	Categ
	S1EFFORT	sleffort: w1 S CESD-Everything an effort	Categ
2	S2EFFORT	s2effort: w2 S CESD-Everything an effort	Categ
3	S3EFFORT	s3effort: w3 S CESD-Everything an effort	Categ
	S4EFFORT	s4effort: w4 S CESD-Everything an effort	Categ
5	S5EFFORT	s5effort: w5 S CESD-Everything an effort	Categ
1	D1 GI EEDD	williams will D. CECD Class was mostless	C = + = =
	R1SLEEPR R2SLEEPR	r1sleepr: w1 R CESD-Sleep was restless r2sleepr: w2 R CESD-Sleep was restless	Categ
	R3SLEEPR		Categ
	R4SLEEPR	r3sleepr: w3 R CESD-Sleep was restless	Categ
	R4SLEEPR R5SLEEPR	r4sleepr: w4 R CESD-Sleep was restless r5sleepr: w5 R CESD-Sleep was restless	Categ
5	KJSLEEFK	IJSTeepr: WJ R CESD-Steep was rescress	Categ
1	S1SLEEPR	s1sleepr: w1 S CESD-Sleep was restless	Categ
	S2SLEEPR	s2sleepr: w2 S CESD-Sleep was restless	Categ
3	S3SLEEPR	s3sleepr: w3 S CESD-Sleep was restless	Categ
4	S4SLEEPR	s4sleepr: w4 S CESD-Sleep was restless	Categ
5	S5SLEEPR	s5sleepr: w5 S CESD-Sleep was restless	Categ
1	R1WHAPPY	rlwhappy: w1 R CESD-Felt happy	Categ
2	R2WHAPPY	r2whappy: w2 R CESD-Felt happy	Categ
3	R3WHAPPY	r3whappy: w3 R CESD-Felt happy	Categ
4	R4WHAPPY	r4whappy: w4 R CESD-Felt happy	Categ
5	R5WHAPPY	r5whappy: w5 R CESD-Felt happy	Categ
_			
1	S1WHAPPY	slwhappy: w1 S CESD-Felt happy	Categ
	S2WHAPPY	s2whappy: w2 S CESD-Felt happy	Categ
	S3WHAPPY	s3whappy: w3 S CESD-Felt happy	Categ
4	S4WHAPPY	s4whappy: w4 S CESD-Felt happy	Categ
5	S5WHAPPY	s5whappy: w5 S CESD-Felt happy	Categ
1	R1FLONE	rlflone: wl R CESD-Felt lonely	Categ
	R2FLONE	r2flone: w2 R CESD-Felt lonely	Categ
	R3FLONE	r3flone: w3 R CESD-Felt lonely	Categ
	R4FLONE	r4flone: w4 R CESD-Felt lonely	Categ
	R5FLONE	r5flone: w5 R CESD-Felt lonely	Categ
5	1.01 101111	TOTALO, NO IN OLIOP FOTO TOMOTY	Julia
1	S1FLONE	slflone: w1 S CESD-Felt lonely	Categ
2	S2FLONE	s2flone: w2 S CESD-Felt lonely	Categ
3	S3FLONE	s3flone: w3 S CESD-Felt lonely	Categ
4	S4FLONE	s4flone: w4 S CESD-Felt lonely	Categ
5	S5FLONE	s5flone: w5 S CESD-Felt lonely	Categ
		-	

1			
	R1ENLIFE	rlenlife: w1 R CESD-Enjoyed life	Categ
			_
2	R2ENLIFE	r2enlife: w2 R CESD-Enjoyed life	Categ
3	R3ENLIFE	r3enlife: w3 R CESD-Enjoyed life	Categ
			_
4	R4ENLIFE	r4enlife: w4 R CESD-Enjoyed life	Categ
5	R5ENLIFE	r5enlife: w5 R CESD-Enjoyed life	Categ
0	NO ENTETE	reentrie. We k edeb bijoyed file	ouccg
1	S1ENLIFE	slenlife: w1 S CESD-Enjoyed life	Categ
2	S2ENLIFE	s2enlife: w2 S CESD-Enjoyed life	Categ
			_
3	S3ENLIFE	s3enlife: w3 S CESD-Enjoyed life	Categ
4	S4ENLIFE	s4enlife: w4 S CESD-Enjoyed life	Categ
			_
5	S5ENLIFE	s5enlife: w5 S CESD-Enjoyed life	Categ
1	R1FSAD	r1fsad: w1 R CESD-Felt sad	Categ
			_
2	R2FSAD	r2fsad: w2 R CESD-Felt sad	Categ
3	R3FSAD	r3fsad: w3 R CESD-Felt sad	Categ
			_
4	R4FSAD	r4fsad: w4 R CESD-Felt sad	Categ
5	R5FSAD	r5fsad: w5 R CESD-Felt sad	Categ
J	1101 0110	Torsaa. Wo K obbb rere baa	caeeg
1	S1FSAD	slfsad: w1 S CESD-Felt sad	Categ
2	S2FSAD	s2fsad: w2 S CESD-Felt sad	Categ
			_
3	S3FSAD	s3fsad: w3 S CESD-Felt sad	Categ
4	S4FSAD	s4fsad: w4 S CESD-Felt sad	Categ
_			_
5	S5FSAD	s5fsad: w5 S CESD-Felt sad	Categ
1	R1FTIRED	r1ftired: w1 R CESD-Felt tired	Categ
			_
2	R2FTIRED	r2ftired: w2 R CESD-Felt tired	Categ
3	R3FTIRED	r3ftired: w3 R CESD-Felt tired	Categ
			_
4	R4FTIRED	r4ftired: w4 R CESD-Felt tired	Categ
5	R5FTIRED	r5ftired: w5 R CESD-Felt tired	Categ
J	KJETIKED	iditiled. Wd R CESD-felt tiled	Categ
1	S1FTIRED	s1ftired: w1 S CESD-Felt tired	Categ
2	S2FTIRED	s2ftired: w2 S CESD-Felt tired	Categ
			_
3	S3FTIRED	s3ftired: w3 S CESD-Felt tired	Categ
4	S4FTIRED	s4ftired: w4 S CESD-Felt tired	Categ
_			_
5	S5FTIRED	s5ftired: w5 S CESD-Felt tired	Categ
1	R1ENERG	rlenerg: w1 R CESD-Had a lot of energy	Categ
			_
2	R2ENERG	r2energ: w2 R CESD-Had a lot of energy	Categ
3	R3ENERG	r3energ: w3 R CESD-Had a lot of energy	Categ
			_
4	R4ENERG	r4energ: w4 R CESD-Had a lot of energy	Categ
5	R5ENERG	r5energ: w5 R CESD-Had a lot of energy	Categ
_			
1	S1ENERG	slenerg: w1 S CESD-Had a lot of energy	Categ
2	S2ENERG	s2energ: w2 S CESD-Had a lot of energy	Categ
3	S3ENERG	s3energ: w3 S CESD-Had a lot of energy	Categ
4	S4ENERG	s4energ: w4 S CESD-Had a lot of energy	Categ
-			
	CERNERG	- Farmer and G. CECD Hard a late of annual and	0 - +
5	S5ENERG	s5energ: w5 S CESD-Had a lot of energy	Categ
5	S5ENERG	s5energ: w5 S CESD-Had a lot of energy	Categ
		-	-
1	R1CESD_M	rlcesd_m: w1 R CESD Modified Score	Cont
1		-	-
1 2	R1CESD_M R2CESD_M	<pre>rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score</pre>	Cont Cont
1 2 3	R1CESD_M R2CESD_M R3CESD_M	<pre>rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score</pre>	Cont Cont Cont
1 2	R1CESD_M R2CESD_M R3CESD_M R4CESD_M	<pre>rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score</pre>	Cont Cont
1 2 3 4	R1CESD_M R2CESD_M R3CESD_M R4CESD_M	<pre>rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score</pre>	Cont Cont Cont Cont
1 2 3	R1CESD_M R2CESD_M R3CESD_M	<pre>rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score</pre>	Cont Cont Cont
1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score	Cont Cont Cont Cont Cont
1 2 3 4	R1CESD_M R2CESD_M R3CESD_M R4CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score	Cont Cont Cont Cont
1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score	Cont Cont Cont Cont Cont
1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score	Cont Cont Cont Cont Cont
1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score	Cont Cont Cont Cont Cont
1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score	Cont Cont Cont Cont Cont
1 2 3 4 5 1 2 3 4	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M S3CESD_M S4CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont
1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M S1CESD_M S1CESD_M S2CESD_M S3CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont
1 2 3 4 5 1 2 3 4	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M S3CESD_M S4CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont
1 2 3 4 5 1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M S1CESD_M S2CESD_M S3CESD_M S4CESD_M S5CESD_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w1 S CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s5cesd_m: w5 S CESD Modified Score s5cesd_m: w5 S CESD Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont
1 2 3 4 5 1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M S3CESD_M S4CESD_M S4CESD_M R1CESDM_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w5 R CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s5cesd_m: w5 S CESD Modified Score r1cesdm_m: w1 R CESD-Missings in Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont
1 2 3 4 5 1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M S3CESD_M S4CESD_M S4CESD_M R1CESDM_M R2CESDM_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w5 R CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s5cesd_m: w5 S CESD Modified Score r1cesdm_m: w1 R CESD-Missings in Modified Score r2cesdm_m: w2 R CESD-Missings in Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont
1 2 3 4 5 1 2 3 4 5	R1CESD_M R2CESD_M R3CESD_M R4CESD_M R5CESD_M S1CESD_M S2CESD_M S3CESD_M S4CESD_M S4CESD_M R1CESDM_M	rlcesd_m: w1 R CESD Modified Score r2cesd_m: w2 R CESD Modified Score r3cesd_m: w3 R CESD Modified Score r4cesd_m: w4 R CESD Modified Score r5cesd_m: w5 R CESD Modified Score s1cesd_m: w5 R CESD Modified Score s2cesd_m: w2 S CESD Modified Score s3cesd_m: w3 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s4cesd_m: w4 S CESD Modified Score s5cesd_m: w5 S CESD Modified Score r1cesdm_m: w1 R CESD-Missings in Modified Score	Cont Cont Cont Cont Cont Cont Cont Cont

	R4CESDM_M R5CESDM_M	_		CESD-Missings CESD-Missings			Cont Cont
1	S1CESDM M	s1cesdm m:	w1 S	CESD-Missings	in Modified	Score	Cont
2	S2CESDM M	s2cesdm m:	w2 S	CESD-Missings	in Modified	Score	Cont
3	S3CESDM M	s3cesdm m:	w3 S	CESD-Missings	in modified	Score	Cont
4	S4CESDM M	s4cesdm m:	w4 S	CESD-Missings	in modified	Score	Cont
5	S5CESDM M	s5cesdm m:	w5 S	CESD-Missings	in modified	Score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DEPRES	14007	0.38	0.48	0.00	1.00
R2DEPRES	12503	0.39	0.49	0.00	1.00
R3DEPRES	14427	0.35	0.48	0.00	1.00
R4DEPRES	13830	0.33	0.47	0.00	1.00
R5DEPRES	15770	0.32	0.47	0.00	1.00
RODELRES	13770	0.32	0.17	0.00	1.00
S1DEPRES	9886	0.34	0.47	0.00	1.00
S2DEPRES	8727	0.36	0.48	0.00	1.00
S3DEPRES	9850	0.32	0.47	0.00	1.00
S4DEPRES	9174	0.30	0.46	0.00	1.00
S5DEPRES	7068	0.30	0.46	0.00	1.00
R1EFFORT	13984	0.36	0.48	0.00	1.00
R2EFFORT	12510	0.37	0.48	0.00	1.00
R3EFFORT	14426	0.36	0.48	0.00	1.00
R4EFFORT	13833	0.36	0.48	0.00	1.00
R5EFFORT	15761	0.33	0.47	0.00	1.00
S1EFFORT	9869	0.34	0.47	0.00	1.00
S2EFFORT	8731	0.35	0.48	0.00	1.00
S3EFFORT	9853	0.34	0.47	0.00	1.00
S4EFFORT	9173	0.34	0.47	0.00	1.00
S5EFFORT	7065	0.32	0.47	0.00	1.00
			0.40		
R1SLEEPR	14034	0.37	0.48	0.00	1.00
R2SLEEPR	12513	0.39	0.49	0.00	1.00
R3SLEEPR	14433	0.42	0.49	0.00	1.00
R4SLEEPR	13843	0.42	0.49	0.00	1.00
R5SLEEPR	15769	0.42	0.49	0.00	1.00
S1SLEEPR	9903	0.35	0.48	0.00	1.00
S2SLEEPR	8736	0.37	0.48	0.00	1.00
S3SLEEPR	9855	0.40	0.49	0.00	1.00
S4SLEEPR	9178	0.41	0.49	0.00	1.00
S5SLEEPR	7068	0.41	0.49	0.00	1.00
R1WHAPPY	13996	0.75	0.43	0.00	1.00
R2WHAPPY	12477	0.73	0.44	0.00	1.00
R3WHAPPY	14415	0.80	0.40	0.00	1.00
R4WHAPPY	13814	0.81	0.39	0.00	1.00
R5WHAPPY	15742	0.81	0.40	0.00	1.00
C1 MILL DDV	0.07.6	0.70	0 40	0.00	1 00
S1WHAPPY	9876	0.78	0.42	0.00	1.00
S2WHAPPY	8708	0.75	0.43	0.00	1.00
S3WHAPPY	9849	0.82	0.38	0.00	1.00
S4WHAPPY	9161	0.83	0.37	0.00	1.00
S5WHAPPY	7058	0.82	0.38	0.00	1.00
R1FLONE	14012	0.33	0.47	0.00	1.00
R2FLONE	12505	0.33	0.47	0.00	1.00
R3FLONE	14437	0.30	0.46	0.00	1.00

R4FLONE	13839	0.30	0.46	0.00	1.00
R5FLONE	15759	0.29	0.45	0.00	1.00
S1FLONE	9885	0.26	0.44	0.00	1.00
S2FLONE	8728	0.27	0.44	0.00	1.00
S3FLONE	9859	0.24	0.43	0.00	1.00
S4FLONE	9177	0.24	0.43	0.00	1.00
S5FLONE	7063	0.24	0.43	0.00	1.00
DOLHOND	7005	0.21	0.15	0.00	1.00
R1ENLIFE	13918	0.71	0.45	0.00	1.00
R2ENLIFE	12464	0.68	0.47	0.00	1.00
R3ENLIFE	14413	0.77	0.42	0.00	1.00
	13801	0.79	0.41	0.00	1.00
R4ENLIFE					
R5ENLIFE	15735	0.78	0.41	0.00	1.00
S1ENLIFE	9818	0.74	0.44	0.00	1.00
S2ENLIFE	8699	0.71	0.46	0.00	1.00
S3ENLIFE	9848	0.79	0.40	0.00	1.00
S4ENLIFE	9155	0.81	0.39	0.00	1.00
S5ENLIFE	7059	0.80	0.40	0.00	1.00
SSENDIFE	1033	0.00	0.40	0.00	1.00
R1FSAD	14006	0.40	0.49	0.00	1.00
R2FSAD	12514	0.41	0.49	0.00	1.00
R3FSAD	14433	0.40	0.49	0.00	1.00
R4FSAD	13835	0.40	0.49	0.00	1.00
R5FSAD	15760	0.39	0.49	0.00	1.00
S1FSAD	9884	0.36	0.48	0.00	1.00
S2FSAD	8737	0.37	0.48	0.00	1.00
S3FSAD	9860	0.36	0.48	0.00	1.00
S4FSAD	9173	0.35	0.48	0.00	1.00
S5FSAD	7064	0.35	0.48	0.00	1.00
SJESAD	7004	0.33	0.40	0.00	1.00
R1FTIRED	14012	0.60	0.49	0.00	1.00
R2FTIRED	12515	0.57	0.49	0.00	1.00
R3FTIRED	14440	0.59	0.49	0.00	1.00
R4FTIRED	13844	0.60	0.49	0.00	1.00
R5FTIRED	15767	0.58	0.49	0.00	1.00
S1FTIRED	9891	0.58	0.49	0.00	1.00
S2FTIRED	8737	0.56	0.50	0.00	1.00
S3FTIRED	9862	0.58	0.49	0.00	1.00
S4FTIRED	9179	0.59	0.49	0.00	1.00
S5FTIRED	7066	0.57	0.49	0.00	1.00
SSFIINED	7000	0.37	0.45	0.00	1.00
R1ENERG	13938	0.44	0.50	0.00	1.00
R2ENERG	12470	0.40	0.49	0.00	1.00
R3ENERG	14419	0.48	0.50	0.00	1.00
R4ENERG	13829	0.47	0.50	0.00	1.00
R5ENERG	15738	0.46	0.50	0.00	1.00
S1ENERG	9839	0.45	0.50	0.00	1.00
S2ENERG	8703	0.41	0.49	0.00	1.00
S3ENERG	9854	0.50	0.50	0.00	1.00
S4ENERG	9172	0.49	0.50	0.00	1.00
S5ENERG	7051	0.45	0.50	0.00	1.00
ONTHING	1001	0.40	0.50	0.00	1.00
R1CESD M	14055	3.50	2.66	0.00	9.00
R2CESD M	12522	3.64	2.70	0.00	9.00
R3CESD M	14446	3.36	2.64	0.00	9.00
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R4CESD_M	13846	3.33	2.64	0.00	9.00
R5CESD M	15775	3.27	2.60	0.00	9.00
_					
S1CESD M	9916	3.25	2.59	0.00	9.00
SICESD_M	2310	J. 4J	4.00	0.00	9.00

S2CESD M	8740	3.41	2.63	0.00	9.00	
S3CESD M	9865	3.13	2.55	0.00	9.00	
S4CESD M	9181	3.10	2.56	0.00	9.00	
S5CESD_M	7070	3.11	2.54	0.00	9.00	
_						
R1CESDM M	15186	0.71	2.38	0.00	9.00	
R2CESDM M	13704	0.79	2.53	0.00	9.00	
R3CESDM M	15723	0.74	2.46	0.00	9.00	
R4CESDM M	14779	0.58	2.19	0.00	9.00	
R5CESDM_M	17114	0.71	2.42	0.00	9.00	
S1CESDM M	10648	0.66	2.29	0.00	9.00	
S2CESDM_M	9564	0.79	2.53	0.00	9.00	
S3CESDM M	10592	0.63	2.28	0.00	9.00	
S4CESDM M	9652	0.45	1.94	0.00	9.00	
S5CESDM_M	7638	0.68	2.36	0.00	9.00	
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Categorical Variable Codes

Value .d:DK	R1DEPRES 87	R2DEPRES	R3DEPRES	R4DEPRES	R5DEPRES 8
.m:Missing	4	1 /	13	3	0
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	56	6	8	7	8
0.No	8723	7596	9416	9302	10705
1.Yes	5284	4907	5011	4528	5065
Value	S1DEPRES	S2DEPRES	S3DEPRES	S4DEPRES	S5DEPRES
.d:DK	63	11	10	4	4
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	36	5	6	4	3
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	6519	5586	6722	6466	4957
1.Yes	3367	3141	3128	2708	2111
Value	R1EFFORT	R2EFFORT	R3EFFORT	R4EFFORT	R5EFFORT
.d:DK	85	11	15	7	13
.m:Missing	4	±±	10	3	10
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	81	5	7	7	12
0.No	8896	7942	9304	8886	10580
1.Yes	5088	4568	5122	4947	5181
Value	S1EFFORT	S2EFFORT	S3EFFORT	S4EFFORT	S5EFFORT
.d:DK	60	8	7	4	5
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	56	4	6	5	5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No 1.Yes	6499 3370	5695	6525 3328	6043	4828 2237
1. Yes	3370	3036	3328	3130	2231
Value	R1SLEEPR	R2SLEEPR	R3SLEEPR	R4SLEEPR	R5SLEEPR
.d:DK	60	7	7	3	5
.m:Missing	4			3	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	56	6	8	1	12
0.No	8898	7620	8391	8002	9218
1.Yes	5136	4893	6042	5841	6551
Value	0101 EEDD	GOGI EEDD	0301 BBBB	CACT BEDD	OF OT BEDD
	S1SLEEPR	S2SLEEPR 5	S3SLEEPR 4	S4SLEEPR	S5SLEEPR
.d:DK .m:Missing	43	5	4	3	2
.m:missing	660	821	726	470	563
.r:Refuse	39	821	726	470	5 5
.u:Unmar	4205	4009	4782	4847	5 5227
.u. oinaa	4203	4009	4/02	404/	JZZI

.v:SP NR	333	131	349	280	501
0.No	6463	5465	5874	5407	4186
1.Yes	3440	3271	3981	3771	2882
Value	R1WHAPPY	R2WHAPPY	R3WHAPPY	R4WHAPPY	R5WHAPPY
.d:DK	RIWHAPPI 80	35	19	18	18
.m:Missing	4	33	19	3	10
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	74	14	14	15	26
0.No	3437	3382	2923	2606	3064
1.Yes	10559	9095	11492	11208	12678
1.103	10333	3033	11472	11200	12070
Value	S1WHAPPY	S2WHAPPY	S3WHAPPY	S4WHAPPY	S5WHAPPY
.d:DK	58	26	12	12	8
.m:Missing	3	20	12	12	Ŭ
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	51	9	5	9	9
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	2192	2150	1770	1532	1272
1.Yes	7684	6558	8079	7629	5786
1.100	, 00 1	0000	0013	, 023	0,00
Value	R1FLONE	R2FLONE	R3FLONE	R4FLONE	R5FLONE
.d:DK	68	15	3	4	12
.m:Missing	4			3	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
r:Refuse	70	6	8	4	15
0.No	9407	8409	10086	9648	11153
1.Yes	4605	4096	4351	4191	4606
Value	S1FLONE	S2FLONE	S3FLONE	S4FLONE	S5FLONE
.d:DK	50	11	2	2	4
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	50	4	5	3	8
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	7299	6368	7491	6938	5379
1.Yes	2586	2360	2368	2239	1684
Value	R1ENLIFE	R2ENLIFE	R3ENLIFE	R4ENLIFE	R5ENLIFE
.d:DK	128	44	15	31	31
.m:Missing	4			3	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	104	18	20	15	20
0.No	3975	3954	3296	2888	3429
1.Yes	9943	8510	11117	10913	12306
Value	S1ENLIFE	S2ENLIFE	S3ENLIFE	S4ENLIFE	S5ENLIFE
.d:DK	95	31	9	16	9
.m:Missing	3				
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	72	13	9	11	7
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	2587	2548	2034	1718	1437
1.Yes	7231	6151	7814	7437	5622
1	D1 D03 D	505015	D25015	D 4 D 6 3 D	555635
Value	R1FSAD	R2FSAD	R3FSAD	R4FSAD	R5FSAD
.d:DK	75	7	4	9	8
.m:Missing	4	1170	1075	4	1 2 0 0
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	69	5	11	2	18
0.No	8423	7423	8594	8370	9691
1.Yes	5583	5091	5839	5465	6069
Value	01 003 0	005075	מ צ הט בו כ ט	CAECAE	CERCAR
.d:DK	S1FSAD 53	S2FSAD 3	S3FSAD 2	S4FSAD	S5FSAD 2
	3	S	۷	6 1	۷
.m:Missing		821	706	470	560
.p:Proxy interview, not asked	660 48	821	726 4	4 / 0	563 9
.r:Refuse .u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
· v · OT 1417	333	191	272	200	501

Section Q: Psychosocial					<u>757</u>
0.No	6347	5534	6266	5923	4619
1.Yes	3537	3203	3594	3250	2445
Value	R1FTIRED	R2FTIRED	R3FTIRED	R4FTIRED	R5FTIRED
.d:DK	72	7	5	1	7
.m:Missing	4			4	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	66	4	3	1	12
0.No	5665	5331	5906	5536	6602
1.Yes	8347	7184	8534	8308	9165
Value	S1FTIRED	S2FTIRED	S3FTIRED	S4FTIRED	S5FTIRED
.d:DK	51	4	3	1	4
.m:Missing	3			1	
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	43	2	1	1	5
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	4127	3849	4124	3748	3032
1.Yes	5764	4888	5738	5431	4034
Value	R1ENERG	R2ENERG	R3ENERG	R4ENERG	R5ENERG
.d:DK	122	42	11	9	27
.m:Missing	4			4	
.p:Proxy interview, not asked	1032	1178	1275	929	1328
.r:Refuse	90	14	18	8	21
0.No	7770	7512	7479	7298	8433
1.Yes	6168	4958	6940	6531	7305
Value	S1ENERG	S2ENERG	S3ENERG	S4ENERG	S5ENERG
.d:DK	85	33	6	5	12
.m:Missing	3			1	
.p:Proxy interview, not asked	660	821	726	470	563
.r:Refuse	61	7	6	4	12
.u:Unmar	4205	4009	4782	4847	5227
.v:SP NR	333	131	349	280	501
0.No	5406	5175	4972	4718	3879

How Constructed

1.Yes

RwDEPRES, RwEFFORT, RwSLEEPR, RwWHAPPY, RwFLONE, RwENLIFE, RwFSAD, RwFTIRED and RwENERG are yes/no indicators for whether the respondent experienced certain feelings the majority of the time during the week prior to the interview. A code of 0 indicates that the respondent did not experience a particular feeling. A code of 1 indicates that the respondent experienced a particular feeling.

3528

4882

4454

3172

4433

RwDEPRES indicates whether the respondent felt depressed. RwEFFORT indicates whether the respondent felt that everything was an effort. RwSLEEPR indicates whether their sleep was restless. RwWHAPPY indicates whether the respondent was happy. RwFLONE indicates whether the respondent felt lonely. RwENLIFE indicates whether the respondent enjoyed life. RwFSAD indicates whether the respondent felt sad. RwFTIRED indicates whether the respondent felt tired. RwENERG indicates whether the respondent had a lot energy.

When respondents "don't know" or refuse to answer, the variables are assigned special missing values .d or .r, respectively. Variables are set to special missing value .p for proxy interviews, to special missing value .m for other missing responses, and to plain missing (.) for respondents who did not respond to the current wave.

SwDEPRES, SwEFFORT, SwSLEEPR, SwWHAPPY, SwFLONE, SwENLIFE, SwFSAD, SwFTIRED and SwENERG indicate whether the respondent's spouse reported certain feelings and are taken directly from the spouse's RwDEPRES, RwEFFORT, RwSLEEPR, RwWHAPPY, RwFLONE, RwENLIFE, RwFSAD, RwFTIRED and RwENERG variables, respectively. SwDEPRES, SwEFFORT, SwSLEEPR, SwWHAPPY, SwFLONE, SwENLIFE, SwFSAD, SwFTIRED and SwENERG employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RWCESD_M is an MHAS specific variable that indicates the sum of RwDEPRES, RwEFFORT, RwSLEEPR, (1-RwWHAPPY), RwFLONE, (1-RwENLIFE), RwFSAD, RwFTIRED and (1-RwENERG). Thus the higher the score, the more negative the respondent's feelings were during the past week. RwCESDM_M is the number of CESD questions

with missing values, ranging from 0 to 9. RwCESD_M is calculated for all respondents who answered at least one of the CESD component questions, that is respondents with RwCESDM_M value of less than 9. RwCESD_M is assigned special missing .d, .r, or .m, for don't know, refused, or other missing answers. RwCESD_M and RwCESDM_M are set to plain missing (.) for respondents who did not respond to the current wave.

SwCESD_M and SwCESDM_M are taken directly from the spouse's values of RwCESD_M and RwCESDM_M, respectively. SwCESD_M and SwCESDM_M employ the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

No differences known.

Differences with the RAND HRS/Harmonized HRS

The MHAS includes a modified version of the CESD that includes the same RwDEPRES, RwEFFORT, RwSLEEPR, RwWHAPPY, RwFLONE, RwENLIFE, and RwFSAD items included in the version used in the HRS. Two more items, RwFTIRED (whether the respondent felt tired) and RwENERG (whether the respondent had a lot energy) were also included instead of RwGOING, used in the HRS. The difference between the two CESD versions impacts the summary indices. Thus, in the Harmonized MHAS two specific indices were created, RwCESD_M and RwCESDM M, with values ranging from 0 to 9.

MHAS Variables Used

```
Wave 1:
    C52A
                    depression
    C52B
                    effort
    C52D
                    happiness
    C52E
                    loneliness
    C52F
                    enjoy life
    C52G
                    sadness
    C52H
                    felt tired
    C52I
                    eneray
Wave 2:
    C49 1
                    last week's majority emotions - depressed
    C49 2
                    last week's majority emotions - everything was an effor
   C49_3
                    last week's majority emotions - disturbed sleep
    C49 4
                    last week's majority emotions - happy
    C49 5
                    last week's majority emotions - alone
    C49 6
                    last week's majority emotions - enjoying life
    C49 7
                    last week's majority emotions - sad
    C49 8
                    last week's majority emotions - tired
                    last week's majority emotions - had a lot of energy
    C49 9
Wave 3:
   C49 1 12
                    Within the past week: Respondent was depressed
    C49 2 12
                    Within the past week: Respondent experienced difficulty
    C49 3 12
                    Within the past week: Respondent experienced restless sl
    C49 4 12
                    Within the past week: Respondent was happy
    C49 5 12
                    Within the past week: Respondent was lonely
   C49 6 12
                    Within the past week: Respondent enjoyed life
    C49 7 12
                    Within the past week: Respondent was sad
    C49 8 12
                    Within the past week: Respondent felt tired
    C49_9_12
                    Within the past week: Respondent was energetic
Wave 4:
                    Last week, the majority of the time: Respondent felt de
    C49 1 15
    C49 2 15
                    Last week, the majority of the time: Respondent felt th
                    Last week, the majority of the time: Respondent had res
    C49 3 15
    C49 4 15
                    Last week, the majority of the time: Respondent felt ha
    C49 5 15
                    Last week, the majority of the time: Respondent felt lo
    C49 6 15
                    Last week, the majority of the time: Respondent felt he
    C49 7 15
                    Last week, the majority of the time: Respondent felt sa
```

C49_8_15	Last week,	the majority o	of the time:	Respondent felt ti
C49_9_15	Last week,	the majority o	of the time:	Respondent felt ve
Wave 5:				
C49_1_18	Last week,	the majority o	of the time:	R felt depressed
C49_2_18	Last week,	the majority o	of the time:	R felt everything
C49_3_18	Last week,	the majority o	of the time:	R had restless sle
C49_4_18	Last week,	the majority o	of the time:	R felt happy
C49_5_18	Last week,	the majority o	of the time:	R felt lonely
C49_6_18	Last week,	the majority o	of the time:	R felt he/she enjo
C49_7_18	Last week,	the majority o	of the time:	R felt sad
C49_8_18	•	the majority o		
C49_9_18	Last week,	the majority o	of the time:	R felt very energe

Satisfaction with Life Scale

Wave	Variable	Label	Туре
3	R3LIDEAL3	r3lideal3: w3 R Life is close to ideal	Categ
	R4LIDEAL3	r4lideal3: w4 R Life is close to ideal	Categ
	R5LIDEAL3	r5lideal3: w5 R Life is close to ideal	Categ
J	KULIDEALU	initialis. Wo k life is close to ideal	categ
3	S3LIDEAL3	s3lideal3: w3 S Life is close to ideal	Categ
4	S4LIDEAL3	s4lideal3: w4 S Life is close to ideal	Categ
5	S5LIDEAL3	s5lideal3: w5 S Life is close to ideal	Categ
3	R3LEXCL3	r3lexcl3: w3 R Life conditions are excellent	Categ
4	R4LEXCL3	r4lexcl3: w4 R Life conditions are excellent	Categ
	R5LEXCL3	r5lexcl3: w5 R Life conditions are excellent	Categ
Ŭ	110 110 110		oaceg
3	S3LEXCL3	s3lexcl3: w3 S Life conditions are excellent	Categ
4	S4LEXCL3	s4lexcl3: w4 S Life conditions are excellent	Categ
5	S5LEXCL3	s5lexcl3: w5 S Life conditions are excellent	Categ
3	R3LSTSF3	r3lstsf3: w3 R Satisfied with life	Categ
	R4LSTSF3	r4lstsf3: w4 R Satisfied with life	Categ
	R5LSTSF3	r5lstsf3: w5 R Satisfied with life	Categ
Ŭ	110201010	201000101 #0 1 000101100 #15.1 1110	oaceg
3	S3LSTSF3	s3lstsf3: w3 S Satisfied with life	Categ
4	S4LSTSF3	s4lstsf3: w4 S Satisfied with life	Categ
5	S5LSTSF3	s51stsf3: w5 S Satisfied with life	Categ
3	R3LIMPTT3	r3limptt3: w3 R Gotten important things in life	Categ
	R4LIMPTT3	r4limptt3: w4 R Gotten important things in life	Categ
	R5LIMPTT3	r5limptt3: w5 R Gotten important things in life	Categ
	S3LIMPTT3	s3limptt3: w3 S Gotten important things in life	Categ
	S4LIMPTT3	s4limptt3: w4 S Gotten important things in life	Categ
5	S5LIMPTT3	s5limptt3: w5 S Gotten important things in life	Categ
3	R3LCHNOT3	r3lchnot3: w3 R Change almost nothing if lived again	Categ
4	R4LCHNOT3	r4lchnot3: w4 R Change almost nothing if lived again	Categ
5	R5LCHNOT3	r5lchnot3: w5 R Change almost nothing if lived again	Categ
3	S3LCHNOT3	s3lchnot3: w3 S Change almost nothing if lived again	Categ
	S4LCHNOT3	s4lchnot3: w4 S Change almost nothing if lived again	Categ
	S5LCHNOT3	s51chnot3: w5 S Change almost nothing if lived again	Categ
Ü	DOLIGINOIS	botomoco. Wo b ondinge almost nothing if lived again	ouccg
3	R3LSATSC3	r3lsatsc3: w3 R Satisfaction with life scale score	Cont
4	R4LSATSC3	r4lsatsc3: w4 R Satisfaction with life scale score	Cont
5	R5LSATSC3	r5lsatsc3: w5 R Satisfaction with life scale score	Cont
3	S3LSATSC3	s3lsatsc3: w3 S Satisfaction with life scale score	Cont
	S4LSATSC3	s4lsatsc3: w4 S Satisfaction with life scale score	Cont
	S5LSATSC3	s51satsc3: w5 S Satisfaction with life scale score	Cont
Ü		11 11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1	
3	R3LSATSC3M	r3lsatsc3m: w3 R Satisfaction with life scale missing count	Cont
4	R4LSATSC3M	r4lsatsc3m: w4 R Satisfaction with life scale missing count	Cont
5	R5LSATSC3M	r5lsatsc3m: w5 R Satisfaction with life scale missing count	Cont
3	S3LSATSC3M	s3lsatsc3m: w3 S Satisfaction with life scale missing count	Cont
	S4LSATSC3M	s31satsc3m: w3 S Satisfaction with life scale missing count s41satsc3m: w4 S Satisfaction with life scale missing count	Cont
5	S5LSATSC3M	s51satsc3m: w4 S Satisfaction with life scale missing count	Cont
_		TITELETTEM, NO D DECEMBER WITCH TITE DOCTO MIDDING COUNTY	00110

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3LIDEAL3	14160	2.59	0.70	1.00	3.00
R4LIDEAL3	13634	2.58	0.70	1.00	3.00
R5LIDEAL3	15473	2.57	0.70	1.00	3.00
ROLIDEALS	154/3	2.57	0.71	1.00	3.00
S3LIDEAL3	9719	2.62	0.68	1.00	3.00
S4LIDEAL3	9086	2.60	0.68	1.00	3.00
S5LIDEAL3	6945	2.60	0.69	1.00	3.00
R3LEXCL3	14325	2.48	0.71	1.00	3.00
R4LEXCL3	13754	2.46	0.73	1.00	3.00
R5LEXCL3	15588	2.48	0.73	1.00	3.00
KULEKCIU	15500	2.40	0.72	1.00	3.00
S3LEXCL3	9808	2.51	0.70	1.00	3.00
S4LEXCL3	9139	2.48	0.71	1.00	3.00
S5LEXCL3	6983	2.51	0.70	1.00	3.00
R3LSTSF3	14370	2.79	0.52	1.00	3.00
R4LSTSF3	13788	2.79	0.53	1.00	3.00
R5LSTSF3	15620	2.79	0.53	1.00	3.00
1.0101010	10020	2.75	0.00	1.00	0.00
S3LSTSF3	9833	2.81	0.51	1.00	3.00
S4LSTSF3	9155	2.81	0.51	1.00	3.00
S5LSTSF3	6996	2.82	0.50	1.00	3.00
R3LIMPTT3	14340	2.74	0.57	1.00	3.00
R4LIMPTT3	13749	2.74	0.58	1.00	3.00
R5LIMPTT3	15580	2.75	0.56	1.00	3.00
1(0111111111		2.70	0.00	1.00	3.00
S3LIMPTT3	9817	2.76	0.55	1.00	3.00
S4LIMPTT3	9140	2.76	0.56	1.00	3.00
S5LIMPTT3	6980	2.77	0.54	1.00	3.00
R3LCHNOT3	14241	2.46	0.79	1.00	3.00
R4LCHNOT3	13669	2.46	0.80	1.00	3.00
R5LCHNOT3	15523	2.52	0.76	1.00	3.00
TO HOTHWOTO	13323	2.02	0.70	1.00	3.00
S3LCHNOT3	9769	2.48	0.78	1.00	3.00
S4LCHNOT3	9102	2.47	0.80	1.00	3.00
S5LCHNOT3	6960	2.55	0.75	1.00	3.00
R3LSATSC3	14356	2.61	0.46	1.00	3.00
R4LSATSC3	13774	2.61	0.46	1.00	3.00
R5LSATSC3	15607	2.62	0.46	1.00	3.00
S3LSATSC3	9828	2.63	0.45	1.00	3.00
S4LSATSC3	9152	2.62	0.45	1.00	3.00
S5LSATSC3	6992	2.65	0.45	1.00	3.00
R3LSATSC3M	26839	2.34	2.48	0.00	5.00
R4LSATSC3M	26839	2.44	2.49	0.00	5.00
R5LSATSC3M	26839	2.10	2.46	0.00	5.00
S3LSATSC3M	10592	0.38	1.29	0.00	5.00
S4LSATSC3M	9863	0.37	1.29	0.00	5.00
S5LSATSC3M	8687	0.99	1.98	0.00	5.00

Categorical Variable Codes

Value		R3LIDEAL3	R4LIDEAL3	R5LIDEAL3
.d:DK	1	214	146	171
.m:Missing			23	
.p:Proxy interview, not asked		1275	929	1328

.r:Refuse	74	47	142
1.Disagree	1734	1724	1996
2.Neutral	2280	2316	2693
3.Agree	10146	9594	10784
Value	S3LIDEAL3	S4LIDEAL3	S5LIDEAL3
.d:DK	108	69	68
.m:Missing		5	
.p:Proxy interview, not asked	726	470	563
.r:Refuse	39	22	62
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Disagree	1116	1041	815
2.Neutral	1480	1516	1140
3.Agree	7123	6529	4990
-			
Value	R3LEXCL3	R4LEXCL3	R5LEXCL3
.d:DK	76	50	77
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	47	23	121
1.Disagree	1873	1911	2081
2.Neutral	3747	3641	3992
3.Agree	8705	8202	9515
*****g=***			
Value	S3LEXCL3	S4LEXCL3	S5LEXCL3
.d:DK	33	22	32
.m:Missing	1	5	32
.p:Proxy interview, not asked	726	470	563
.r:Refuse	1 25	16	60
.u:Unmar	1 4782	4847	5227
.v:SP NR	349	280	501
	1156	1170	826
1.Disagree	2521	2436	1737
2.Neutral	•		
3.Agree	6131	5533	4420
Value	R3LSTSF3	R4LSTSF3	R5LSTSF3
	•		
.d:DK	51	27	59
.m:Missing	1075	23	1200
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	27	12	107
1.Disagree	789	811	922
2.Neutral	1414	1205	1429
3.Agree	12167	11772	13269
Value	S3LSTSF3	S4LSTSF3	S5LSTSF3
.d:DK	18	14	28
.m:Missing		5	
.p:Proxy interview, not asked	726	470	563
.r:Refuse	15	8	51
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Disagree	508	500	351
2.Neutral	880	761	567
3.Agree	8445	7894	6078
Value		R4LIMPTT3	R5LIMPTT3
.d:DK	69	53	92
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	39	25	114
1.Disagree	959	983	1018
2.Neutral	1813	1623	1825
3.Agree	11568	11143	12737
Value	S3LIMPTT3	S4LIMPTT3	S5LIMPTT3
.d:DK	28	22	41
.m:Missing		5	
.p:Proxy interview, not asked	726	470	563
r:Refuse	21	15	54
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Disagree	607	601	409
=			

2.Neutral	1172	1037	768
3.Agree	8038	7502	5803
-			
Value	R3LCHNOT3	R4LCHNOT3	R5LCHNOT3
.d:DK	151	128	129
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	56	30	134
1.Disagree	2714	2717	2602
2.Neutral	2253	1978	2313
3.Agree	9274	8974	10608
Value	S3LCHNOT3	S4LCHNOT3	S5LCHNOT3
.d:DK	SSECTION 5	54LCHN013	55LCHN013
	0.0	5	33
<pre>.m:Missing .p:Proxy interview, not asked</pre>	1 1 726	470	563
.r:Refuse	32	18	60
	1 32 1 4782	4847	5227
.u:Unmar	•		
.v:SP NR	349	280	501
1.Disagree	1778	1777	1093
2.Neutral		1253	977
3.Agree	1514 6477	6072	4890

How Constructed

RWLIDEAL3, RWLEXCL3, RWLSTSF3, RWLIMPTT3, and RWLCHNOT3 indicate how much the respondent agrees with specific statements about their satisfaction with life. RWLIDEAL3 indicates how much the respondent agrees with the statement, in most things my life is close to my ideal. RWLEXCL3 indicates how much the respondent agrees with the statement, the conditions of my life are excellent. RWLSTSF3 indicates how much the respondent agrees with the statement, I am satisfied with my life. RWLIMPTT3 indicates how much the respondent agrees with the statement, so far I have got the important things that are important to me in life. RWLCHNOT3 indicates how much the respondent agrees with the statement, if I were to be born again I would change almost nothing in my life. RWLIDEAL3, RWLEXCL3, RWLSTSF3, RWLIMPTT3, and RWLCHNOT3 are coded as follows: l.disagree, 2.neutral, 3.agree. Please note that the answer scale in the original questions goes from 1.agree to 3.disagree, which have been reverse-coded for these variables to 1.disagree to 3.agree. These questions are not asked during interviews completed by a proxy on behalf of the respondent and special missing .p is assigned in these cases. Don't know, refused, or other missing values are assigned special missing codes .d, .r, .m, respectively. RWLIDEAL3, RWLEXCL3, RWLEXCL3, RWLSTSF3, RWLIMPTT3, and RWLCHNOT3 are set to plain missing (.) for respondents who did not respond to the current wave.

SwLIDEAL3, SwLEXCL3, SwLSTSF3, SwLIMPTT3, and SwLCHNOT3 indicate how much the respondent's spouse agrees with specific statements about their satisfaction with life and are taken directly from the spouse's responses to RwLIDEAL3, RwLEXCL3, RwLSTSF3, RwLIMPTT3, and RwLCHNOT3, respectively. In addition to the special missing codes used in RwLIDEAL3, RwLEXCL3, RwLSTSF3, RwLIMPTT3, and RwLCHNOT3, SwLIDEAL3, SwLEXCL3, SwLSTSF3, SwLIMPTT3, and SwLCHNOT3 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.

RwLSATSC3 is the mean of RwLIDEAL3, RwLEXCL3, RwLSTSF3, RwLIMPTT3, and RwLCHNOT3 using a 3-item scale ranging from 1.disagree to 3.agree. Thus the higher the score, the more the respondent is satisfied with their life. RwLSATSC3 is not computed for respondents with 3 or more missing values for RwLIDEAL3, RwLEXCL3, RwLSTSF3, RwLIMPTT3, and RwLCHNOT3. Respondents whose survey was completed by a proxy on their behalf who are not asked these questions are assigned special missing .p. Don't know, refused, or other missing responses to the components of RwLSATSC3 are assigned special missing .d, .r, .m, respectively. RwLSATSCM3 indicates how many individual measures used to derive RwLSATSC3 are missing. RwLSATSC3 and RwLSATSCM3 are assigned plain missing (.) if the respondent did not participate in the current wave.

SwLSATSC3 is the respondent's spouse's mean satisfaction with life using a 3-item scale, and its values are taken from RwLSATSC3. SwLSATSCM3 indicates the number of missing components for the respondent's spouse's mean satisfaction with life, and its values are taken from RwLSATSCM3. In addition to the special missing codes used in RwLSATSC3 and RwLSATSCM3, SwLSATSC3 and SwLSATSCM3 employ two other 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 MHAS

Satisfaction with life scale questions were added to the MHAS starting in Wave 3.

Differences with the RAND HRS/Harmonized HRS

In the HRS, satisfaction with life scale questions are asked using finer response scales than the MHAS. In Wave 7, HRS uses a 6-point response scale as follows: 1.strongly agree, 2.agree, 3.slightly agree, 4.neither agree nor disagree, 5.slight disagree, 6.disagree, 7.strongly disagree. In Wave 8, HRS uses a 6-point response scale as follows: 1.strongly disagree, 2.somewhat disagree, 3.slightly disagree, 4.slightly agree, 5.somewhat agree, 6.strongly agree. Starting in Wave 9, the HRS uses a 7-point response scale as follows: 1.strongly disagree, 2.somewhat disagree, 3.slightly disagree, 4.neither agree nor disagree, 5.slightly agree, 6.somewhat agree, 7.strongly agree. Unlike the HRS, the MHAS uses a 3-point response scale of 1.agree, 2.neutral, 3.disagree. To provide variables which are comparable between the MHAS and the HRS at Wave 7 and the HRS at Wave 9 and later, the response scale has been reverse-coded in these Harmonized MHAS variables and in the Harmonized HRS a 3-point scale version of the satisfaction with life scale score is provided, which is also reverse-coded for HRS Wave 7.

MHAS Variables Used

Wave 3:	
D33A 12	Respondent believes his/her life is close to ideal
D33B 12	Respondent believes his/her life conditions are excelle
D33C 12	Respondent is satisfied with his/her life
D33D 12	Respondent has received the most important things in hi
D33E 12	If born again:respondent would not change anything abou
Wave 4:	
D33A 15	Respondent believes his/her life is close to ideal
D33B_15	Respondent believes his/her life conditions are excelle
D33C 15	Respondent is satisfied with his/her life
D33D_15	Respondent has gained the things that are important to
D33E_15	If born again, respondent would change almost nothing a
Wave 5:	
D33A_18	R believes his/her life is close to ideal
D33B_18	R believes his/her life conditions are excellent
D33C_18	R is satisfied with his/her life
D33D_18	R has gained the things that are important to him/her a
D33E_18	If born again, R would change almost nothing about his/

Single Life Satisfaction Question

Wave	Variable	Label	Type
3	R3SATLIFE	r3satlife: w3 R Satisfied with life	Categ
4	R4SATLIFE	r4satlife: w4 R Satisfied with life	Categ
5	R5SATLIFE	r5satlife: w5 R Satisfied with life	Categ
3	S3SATLIFE	s3satlife: w3 S Satisfied with life	Categ
4	S4SATLIFE	s4satlife: w4 S Satisfied with life	Categ
5	S5SATLIFE	s5satlife: w5 S Satisfied with life	Categ
3	R3SATLIFEZ	r3satlifez: w3 R Satisfied with life z-score	Cont
4	R4SATLIFEZ	r4satlifez: w4 R Satisfied with life z-score	Cont
5	R5SATLIFEZ	r5satlifez: w5 R Satisfied with life z-score	Cont
3	S3SATLIFEZ	s3satlifez: w3 S Satisfied with life z-score	Cont
4	S4SATLIFEZ	s4satlifez: w4 S Satisfied with life z-score	Cont
5	S5SATLIFEZ	s5satlifez: w5 S Satisfied with life z-score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3SATLIFE	14370	1.21	0.52	1.00	3.00
R4SATLIFE	13788	1.21	0.53	1.00	3.00
R5SATLIFE	15620	1.21	0.53	1.00	3.00
S3SATLIFE	9833	1.19	0.51	1.00	3.00
S4SATLIFE	9155	1.19	0.51	1.00	3.00
S5SATLIFE	6996	1.18	0.50	1.00	3.00
R3SATLIFEZ	14370	0.00	1.00	-0.40	3.42
R4SATLIFEZ	13788	-0.00	1.00	-0.39	3.39
R5SATLIFEZ	15620	-0.00	1.00	-0.39	3.36
S3SATLIFEZ	9833	-0.03	0.97	-0.40	3.42
S4SATLIFEZ	9155	-0.02	0.97	-0.39	3.39
S5SATLIFEZ	6996	-0.05	0.94	-0.39	3.36

Categorical Variable Codes

Value	R3SATLIFE	R4SATLIFE	R5SATLIFE
.d:DK	51	27	59
.m:Missing		23	
.p:Proxy interview, not asked	1275	929	1328
.r:Refuse	27	12	107
1.Agree	12167	11772	13269
2.Neutral	1414	1205	1429
3.Disagree	789	811	922
Value	S3SATLIFE	S4SATLIFE	S5SATLIFE
.d:DK	18	14	28
.m:Missing		5	
.p:Proxy interview, not asked	726	470	563
.r:Refuse	15	8	51
.u:Unmar	4782	4847	5227
.v:SP NR	349	280	501
1.Agree	8445	7894	6078
2.Neutral	880	761	567
3.Disagree	508	500	351

How Constructed

RwSATLIFE indicates the respondent's agreement with the statement, I am satisfied with my life. RwSATLIFE is coded as follows: 1.agree, 2.neutral, 3.disagree. RwSATLIFEZ is a z-scored version of the respondent's agreement with the statement, I am satisfied with my life. RwSATLIFEZ z-scores the responses from RwSATLIFE. This question is not asked during interviews completed by a proxy on behalf of the respondent and special missing .p is assigned in these cases. Don't know, refused, or other missing values are assigned special missing codes .d, .r, .m, respectively. RwSATLIFE and RwSATLIFEZ are set to plain missing (.) for respondents who did not respond to the current wave.

SwSATLIFEZ indicates the respondent's spouse's level of agreement with the statement, I am satisfied with my life, while SwSATLIFEZ is a z-scored version, and they are taken directly from the spouse's responses to RwSATLIFE and RwSATLIFEZ. In addition to the special missing codes used in RwSATLIFE and RwSATLIFEZ, SwSATLIFE and SwSATLIFEZ employ two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in MHAS

A question of satisfaction with life was added to the MHAS starting in Wave 3.

Differences with the RAND HRS/Harmonized HRS

In the HRS, satisfaction with life is asked using a 5-point response scale of 1.completely satisfied, 2.very satisfied, 3.somewhat satisfied, 4.not very satisfied, 5.not at all satisfied. Unlike the HRS, the MHAS uses a 3-point response scale of 1.agree, 2.neutral, 3.disagree. To provide variables which are comparable between the HRS and the MHAS, the response scale of RwSATLIFEZ has been z-scored in the Harmonized MHAS and in the Harmonized HRS a z-scored version of HRS respondent's answer to satisfaction with life is provided.

MHAS Variables Used

Wave 3:	
D33C 12	Respondent is satisfied with his/her life
Wave 4:	
D33C_15	Respondent is satisfied with his/her life
Wave 5:	
D33C 18	R is satisfied with his/her life

Cantril Ladder

Wave Variable Label Type

2 R2CANTRIL r2cantril: w2 R Cantril ladder rating Cont

2 S2CANTRIL s2cantril: w2 S Cantril ladder rating Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2CANTRIL	10248	5.15	3.19	1.00	10.00
S2CANTRIL	7263	5.20	3.17	1.00	10.00

How Constructed

RwCANTRIL is the respondent's rating of their present situation in comparison to all other people in Mexico, and is shown an image of a ladder with 10 steps. It is scored with a range of 1 to 10, where a 1 indicates the lowest step on the ladder and a 10 indicates the highest step on the ladder. This question is not asked during interviews completed by a proxy on behalf of the respondent and special missing .p is assigned in these cases. Don't know, refused, or other missing values are assigned special missing codes .d, .r, .m, respectively. RwCANTRIL is set to plain missing (.) for respondents who did not respond to the current wave. This question is only asked in Wave 2.

SwCANTRIL is the respondent's spouse's rating of their present situation in comparison to all other people in Mexico, and is taken directly from the spouse's responses to RwCANTRIL. In addition to the special missing codes used in RwCANTRIL, SwCANTRIL 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 MHAS

The respondent is only asked to rate their present situation in comparison to all other people in Mexico in Wave 2.

Differences with the RAND HRS/Harmonized HRS

A comparable measure will be provided in the next version of the Harmonized HRS, or can be created using HRS data.

MHAS Variables Used

Wave 2:

D1C mexican ladder

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References

Bugliari D, Carroll J, Hayden O, Hayes J, Hurd M, Karabatakis A, Main R, Marks J, McCullough C, Meijer E, Moldoff M, Pantoja P, Rohwedder S, St.Clair P. 2021. *RAND HRS Longitudinal File 2018 (V1) Documentation: Includes 1992-2018 (Early Release)*. RAND Center for the Study of Aging, Santa Monica, CA. https://hrsdata.isr.umich.edu/sites/default/files/documentation/other/1615843861/randhrs1992 2018v1.pdf

Chen L, Michaels-Obregon A, Orozco K, Wong R. 2021. Imputation of Non-Response on Economic Variables in the Mexican Health and Aging Study (MHAS/ENASEM) 2018. [PDF document]. Retrieved from MHAS_ENASEM_2018.pdf

Gruenewald TL, Crosswell AD, Epel E, Mayer S, Smith J, Lee J. 2020. Measures of Stress in the Health and Retirement Study (HRS) and the HRS Family of Studies. [PDF document]. Retrieved from https://g2aging.org/startfile.php?f=documents/Stress%20Measurement%20in%20the%20HRS%20Family%20of%20Studies%20Guide_5%2014%2020.pdf&rs=^q^section=documentation

Lee J, Phillips D, Wilkens J. 2019. Gateway to Global Aging Data. Encyclopedia of Gerontology and Population Aging, eds. Danan Gu and Matthew E. Dupre. https://doi.org/10.1007/978-3-319-69892-2_1105-1

MHAS. 2018. Mexican Health and Aging Study 2018, Methodological Document. [PDF document]. Retrieved from http://mhasweb.org/Resources/DOCUMENTS/2018/Methodological Document 2018.pdf

Nagi SZ. 1976. An epidemiology of disability among adults in the United States. Milbank Memorial Fund Quarterly, 54:439-467.

https://www.jstor.org/stable/3349677?casa_token=zwqavZ7uhBsAAAAA:e3Hi7MQFVYUHOLGRsYF21OsEMBQx6miozvrNAWIRxt3eru8lp6bDM5sxF-cIwu65pIKhHAjReeAFVG3wd1M_CIwD9zUjW3iyXJrFg2fPHqNi-P-4kQrT

Wallace RB., Herzog AR. 1995. "Overview of the Health Measures in the Health and Retirement Study." *The Journal of Human Resources* 30 (Supplement), S84-S107.

Wilkens J, Green H, Petrosyan S, Shao K, Rebellato G, Phillips D, Lee J. 2022. *Harmonized HRS Documentation, Version C, January 2022*. Center for Economic and Social Research, University of Southern California, Los Angeles, CA.

 $\frac{https://hrsdata.isr.umich.edu/sites/default/files/documentation/other/1646094221/Harmonized\%20HRS\%20C\%20199}{2-2019.pdf}$

Wong R, Michaels-Obregon A, Palloni A. 2017. Cohort Profile: The Mexican Health and Aging Study (MHAS). Int. J. Epidemiol. doi:10.1093/ije/dyu263. https://academic.oup.com/ije/article-pdf/46/2/e2/24171610/dyu263.pdf

Wong R, Espinoza M. 2004. Imputation of Non-Response on Economic Variables in the Mexican Health and Aging Study (MHAS/ENASEM) 2001. [PDF document]. Retrieved from http://mhasweb.org/Resources/DOCUMENTS/2001/Imputation_of_Non-Reponse_on_Economic_Variables_in_the_MHAS-ENASEM_2001.pdf

References 769

Wong R, Espinoza M. 2004. Imputation of Non-Response on Economic Variables in the Mexican Health and Aging Study (MHAS/ENASEM) 2003. [PDF document]. Retrieved from

http://mhasweb.org/Resources/DOCUMENTS/2003/Imputation_of_Non-Reponse on Economic Variables in the MHAS-ENASEM 2003.pdf

Wong R, Orozco-Rocha K, Zhang D, Michaels-Obregon A, Gonzalez-Gonzalez C. 2016. Imputation of Non-Response on Economic Variables in the Mexican Health and Aging Study (MHAS/ENASEM) 2012. [PDF document]. Retrieved from

http://mhasweb.org/Resources/DOCUMENTS/2012/Imputations/Imputation_of_Non_Reponse_on_Economic_Variables in the MHAS_ENASEM_2012.pdf

Wong R, Orozco-Rocha K, Zhang D, Michaels-Obregon A. 2017. Imputation of Non-Response on Economic Variables in the Mexican Health and Aging Study (MHAS/ENASEM) 2015. [PDF document]. Retrieved from http://mhasweb.org/Resources/DOCUMENTS/2015/Imputations/Imputation_of_Non_Reponse_on_Economic_Variables in the MHAS_ENASEM_2015.pdf