Harmonized HRS
End of Life
Documentation

VERSION A (1992-2014), MARCH 2019

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Preface

The Health and Retirement Study (HRS) is a nationally representative longitudinal survey of more than 37,000 individuals over age 50 in the United States. In order to make the data more accessible to researchers, we, the USC Gateway to Global Aging Data team, created the Harmonized HRS End of Life, a user-friendly version of a subset of the HRS Exit Interview. The Harmonized HRS End of Life initiative is part of a larger set of projects. With funding and support from the National Institute on Aging, we have also created Harmonized HRS (United States), Harmonized ELSA (England), Harmonized SHARE (Europe + Israel), Harmonized KLoSA (South Korea), Harmonized JSTAR (Japan), Harmonized CHARLS (China), Harmonized LASI (India), Harmonized MHAS (Mexico), Harmonized TILDA (Ireland), and Harmonized CRELES (Costa Rica) 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 conventions of variable naming and data structure. The RAND HRS is another 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 End of Life includes variables with a similar naming convention that mimics the RAND HRS and other Harmonized variables. This document describes these data.

We are grateful for the continuing support of and funding from NIA. We have greatly benefited from the discussions with and the suggestions from our colleagues, David Weir, Arie Kapteyn, Eileen Crimmins, Erik Meijer, and the HRS team.
Requested Acknowledgment

We ask all users of the Harmonized HRS End of Life to please inform our team of any written analysis using data from the Harmonized HRS End of Life or information from the Harmonized HRS End of Life 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 HRS End of Life dataset and Codebook, Version A as of March 2019 developed by the Gateway to Global Aging Data. The development of the Harmonized HRS End of Life was funded by the National Institute on Aging (R01 AG030153, RC2 AG036619, 1R03AG043052). For more information, please refer to www.g2aging.org."

HRS Version and Acknowledgment

This version incorporates the following HRS data and RAND data products:
- RAND HRS Exit/Post-Exit Interview and Finder Files 2014 v.1
- RAND HRS Longitudinal File 2014 v.3
- Harmonized HRS v.B
- Cross-Wave: Tracker 2016 File v.1.0
- 1995 AHEAD Exit (Final) v.2.0
- 1996 HRS Exit (Final) v.1.0
- 1998 HRS Exit (Final) v.1.0
- 2000 HRS Exit (Final) v.1.0

The HRS is supported by the NIA, supplemented by the Social Security Agency, and operated from the Institute for Social Research (ISR) at the University of Michigan. The RAND HRS data file and the RAND HRS Exit/Post-Exit Interview Files are the result of cooperation between the NIA, SSA, ISR at the University of Michigan, and the RAND Center for the Study of Aging.
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1. Introduction and Overview

This report documents the Harmonized HRS End of Life data files, a streamlined collection of variables derived from the Health and Retirement Survey (HRS) Exit Interviews. HRS is a panel survey of people over age 50 and their partners in the United States. Its main goal is to provide panel data that enable research and analysis in support of policies on retirement, health insurance, saving, and economic well-being. The survey elicits information about demographics, income, assets, health, cognition, family structure and connections, health care use and costs, housing, job status and history, expectations, and insurance.

The HRS is primarily supported by the National Institute of Aging (NIA), with additional funding from the Social Security Administration (SSA) and is administered by the Institute for Social Research (ISR) at the University of Michigan. The products released by the Gateway to Global Aging Data are supported by the NIA.

The HRS is comprised of six separate cohorts, summarized below:

<table>
<thead>
<tr>
<th>Cohort</th>
<th>Year Born</th>
<th>Year of First Interview</th>
<th>Years of Subsequent Interviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CODA)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The first wave of the HRS was conducted between April 1992 and March 1993, and included the initial HRS cohort. The first AHEAD wave, which was originally part of a separate study (The Study of Assets and Health Dynamics Among the Oldest Old), was conducted between October 1993 and August 1994. The second wave of the HRS was conducted between May 1994 and March 1995. Like the RAND HRS, we treat the 1993 AHEAD sample and the 1994 HRS sample as part of the second wave of the HRS. The second AHEAD wave was conducted between November 1995 and June 1996. The third wave of the HRS was conducted between May 1996 and February 1997. Like the RAND HRS, we treat the 1995 AHEAD sample and the 1996 HRS sample as part of the third wave of the HRS. The fourth wave of the HRS was conducted between January 1998 and March 1999. It included the HRS and AHEAD cohorts and added the Children of Depression (CODA) cohort, and the War Baby (WB) cohort. The fifth wave was...
conducted between January 2000 and December 2000. The sixth wave was conducted between April 2002 and March 2003. The fifth and sixth waves included the HRS cohort, AHEAD cohort, CODA cohort, and WB cohort. The seventh wave was conducted between February 2004 and February 2005. The seventh wave included the four previously mentioned cohorts and added the Early Baby Boomer (EBB) cohort. The eighth wave was conducted between March 2006 and February 2007. The ninth wave was conducted between February 2008 and February 2009. The eighth and ninth waves included the HRS cohort, AHEAD cohort, CODA cohort, WB cohort, and EBB cohort. The tenth wave was conducted between March 2010 and November 2011. The tenth wave consisted of the five previously mentioned cohorts and added the Mid Baby Boomer (MBB) cohort. The eleventh wave was conducted between April 2012 and May 2013. The twelfth wave was conducted between March 2014 and April 2015. The eleventh and twelfth wave included individuals from the six previously mentioned cohorts.

The data include any individual interviewed at least once in the core interview, and for whom a proxy completed an exit interview. This includes individuals who were age-eligible (born in eligible years) at the time of their first interview, spouses or partners who were not age-eligible at baseline, and spouses or partners who married an age-eligible respondent between survey waves, and then subsequently passed away.

The HRS data contain several auxiliary files. RAND releases 14 RAND HRS Exit/Post-Exit Interview Files, which contain most of the original HRS exit variables with post exit and post exit variables merged to the Respondent level, one for each survey year. These data files do not include core interviews or any restricted data. RAND also releases the RAND HRS Longitudinal data file, which combines information from the core interview data with information from the current Tracker, Region and Mobility, and Master ID files. The Gateway to Global Aging Data releases the Harmonized HRS data file which is built using variables from the RAND Enhanced Fat Files, the RAND HRS data file, the RAND Family data file, as well as select HRS data files. The Harmonized HRS End of Life data file is built using variables from the RAND HRS Exit/Post-Exit Interview files, the RAND HRS Longitudinal data file, the Harmonized HRS data file, as well as select HRS Exit data files. It does not include any data which is not public release.

Documentation of the HRS methodology can be found in An Elementary Cookbook of Data Management using HRS Data with SPSS, SAS and Stata Examples (2004), Overview of HRS Public Data Files for Cross-sectional and Longitudinal Analysis (2010), or Cohort Profile: the Health and Retirement Study (HRS), International Journal of Epidemiology 43(2):576-585 (2014). Documentation of the RAND HRS methodology can be found in RAND HRS Longitudinal File Codebook (2018), and documentation of the RAND HRS Family methodology can be found in RAND HRS Family Data 2012 Documentation: Includes 1992-2012 (Final Release) (2017).

1.1 Gateway to Global Aging Data

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

The result has been a number of surveys designed to be comparable with the HRS: the Mexican Health & Aging Survey (MHAS), the English Longitudinal Study of Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), the Korean Longitudinal Study of Aging (KLoSA), the Japanese Study on Aging 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), and the Longitudinal Aging Study in India (LASI). The overview of this family of surveys, including their research designs, samples, and key domains can be found in Lee (2010).

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

Identifying comparable questions across surveys is the first step toward cross-country analyses. The Gateway to Global Aging Data (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 present 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 HRS End of Life data from the HRS website or downloading the Stata file used to create the Harmonized HRS End of Life data using the Gateway see “Chapter 4. Distribution and Technical Notes.”

1.2 Unit of Observation

The Harmonized HRS End of Life employs a single unit of observation, the individual. We do not distinguish between respondents and spouses, as is done in the RAND HRS or Harmonized HRS. Rather, all variables are respondent-level and can be merged with HRS study data, the RAND HRS Longitudinal File, or the Harmonized HRS using the id variable hhidpn. We do not include non-respondents to the core interview or non-respondents to the exit interview in our files.
1.3 Data File Structure

The Harmonized HRS End of Life data are contained in a single file, which includes the first 11 waves of the HRS Exit Interview, from 1994 to 2014, in addition to the 1995 AHEAD Exit Interview. The data are stored in a “fat format” where each observation represents one respondent. The unit of observation is the individual. Each individual is uniquely identified by the unique identifier hhidpn. This file may be merged with other HRS data using hhidpn.

1.4 Variable Naming Convention

Variable names in the Harmonized HRS End of Life data follow a consistent pattern. The first character indicates that the variable refers to the reference person (“R”). The second character indicates that it pertains to “all” (“A”) waves, i.e., the variable is not specific to any single wave because the exit interview is only given once for each deceased respondent. The remaining characters describe the concept that the variable captures. For example:

```
Variable RAXMEMRY captures whether the respondent had memory problems one month before death. Because the respondent is deceased, the HRS Exit Interview is given exclusively to a proxy respondent. The relationship of the deceased respondent to the proxy is recorded in RAXPRXY, and RAXSMPRX indicates whether this is the same proxy who completed the previous core wave for the respondent.
```

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

```
RAXMEMRY: R HAD MEMORY PROBLEMS ONE MONTH BEFORE DEATH
```

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Reason for missing</th>
</tr>
</thead>
<tbody>
<tr>
<td>.a</td>
<td>Age ineligible</td>
</tr>
<tr>
<td>.d</td>
<td>Don’t know</td>
</tr>
<tr>
<td>.r</td>
<td>Refused</td>
</tr>
<tr>
<td>.n</td>
<td>Not applicable</td>
</tr>
<tr>
<td>.x</td>
<td>Does not apply</td>
</tr>
<tr>
<td>.q</td>
<td>Data not available because question was not asked</td>
</tr>
<tr>
<td>.u</td>
<td>Reference person is not married</td>
</tr>
<tr>
<td>.s</td>
<td>Information not available due to skip patterns</td>
</tr>
<tr>
<td>.m</td>
<td>Other missing</td>
</tr>
<tr>
<td>.i</td>
<td>Invalid response</td>
</tr>
</tbody>
</table>

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

### 1.6 Weighting and Accounting for Survey Design

The Harmonized HRS End of Life does not include weighting variables to account for non-response because none have been created and released by the HRS.

### 1.7 Specifics to the Exit Interview

HRS Exit Interviews are conducted with a “proxy informant” for panel members who have died. The content of the exit interviews is similar to the core interview, but exit interviews are conducted in order to obtain updated information on demographics, physical health, cognition, family structure and transfers, functional limitations, employment, health services and insurance, and wills and life insurance in the period between the last core interview and death of the respondent. To the extent possible, proxy informants who are knowledgeable about the health, family, and financial situation of the decedent are selected. About 95% of proxy responders are related to the respondent; 82% are a spouse or child of the respondent.

Exit interviews are attempted with a proxy in the first survey period following the death of the respondent and the majority of interviews occur within two years of death. Exit interviews began in the 1994/1995 survey period (HRS Wave 2 and AHEAD Wave 2) and have been conducted in every survey period since. As of the 2016 survey year, exit interviews have been
completed for 12,952 HRS respondents, which represent nearly 95% of all decedents, although data from the 2016 Exit interviews has not yet been incorporated into this file.

Beginning in Wave 4 in 1998, Post-Exit interviews are obtained with proxy responders if there remained unresolved financial situations from a prior Exit wave, such as those related to final adjudication of will, trusts, and estates. First Post-Post Exit interviews are obtained beginning in Wave 6 in 2002 if there continue to be unresolved financial situations from a prior Exit wave. A second Post-Post Exit interview was only conducted in Wave 7. Post-Exit interviews are conducted on behalf of decedents whose first Exit interview occurred in AHEAD Wave 2 or in HRS Waves 3 and onward; no Post-Exit interviews are conducted on behalf of decedents whose first Exit interview occurred in HRS Wave 2. Additionally, only financial and estate questions are asked in the Post-Exit interviews. Although most questions in the Post-Exit interviews are asked beginning in Wave 4, questions on death expenses are added in Wave 5, and questions on the date of death are added in Wave 6.

Many questions in the Exit interviews are asked for the time period since the previous core interview or in the two years before death. This question text is designed to account for the approximate two year time gap between interview waves, as well as the possibility that the previous interview occurred sometime before then. Unfortunately, it is not possible to distinguish the exact question wording employed during the Exit interview, and so we have described events as occurring since the previous core interview or in the two years before death, and not limited it to a single time frame.

1.8 Merging the End of Life Data with Core Wave Data

The Harmonized End of Life dataset can be easily merged with HRS study data, the RAND HRS, or the Harmonized HRS, using the unique HRS id variable, Hhidpn. Here we provide an example of Stata code to correctly merge the Harmonized HRS dataset with the Harmonized HRS End of Life dataset.

```
use "filepath\H_HRS_eol.dta"
merge 1:1 hhidpn using "filepath\H_HRS_b.dta"
```

Here we provide an example of Stata code to correctly merge select variables from the Harmonized HRS dataset with select variables from the Harmonized HRS End of Life dataset.

```
use variable1 variable2 variable3 using "filepath\H_HRS_eol.dta"
merge 1:1 hhidpn using "filepath\H_HRS_b.dta", keepusing(variable1 variable2 variable3)
```
In both cases, the same method can be used to merge the RAND HRS and most of the original HRS study data if the name of the dataset is changed.

Because the time from death to the completion of the HRS Exit Interview varies by individual, care must be taken when merging wave-specific variables from the HRS study data, RAND HRS, or Harmonized HRS. In order to merge wave-specific variables from the last completed core wave, it is necessary to employ the use of `RALSTCORE`. Here we provide an example of Stata code to correctly assign whether the respondent had ever reported a diagnosis of cancer in his or her last completed core wave, assuming the HRS Exit Interview took place in wave 12.

```stata
generate ralcancre = .
forvalues w = 1(1)11 {
    replace ralcancre = r`w'cancre if ralstcore==`w'
}
```

Here, we are generate a new variable called `RALCANCRE`, with the “R” indicating the respondent, the “L” indicating the last completed wave, and “CANCRE” indicating ever receiving a cancer diagnosis. We employ the use of a forvalues loop, ranging from waves 1 to 11 using an increase of 1 as it is possible for deceased respondents with an Exit interview in wave 12 to have had their last core interview take place anywhere from wave 1 to wave 11. Within the loop, we replace `RALCANCRE` to take the values of `RWCANCRE` from the RAND HRS if the last completed core wave, `RALSTCORE`, is equal to “W”.

2. Imputations

2.1. Background

Many HRS Exit questions which ask about financial values follow a similar pattern. In the case of assets, proxies are first asked whether the deceased respondent had ownership of the asset, and if so, the proxy is asked the value of the asset. In the case of expenses, the proxy is asked the amount of the expense. If the proxy does not provide an exact value for the respondent’s asset or expense, the HRS Exit surveys the value using unfolding brackets, asking the proxy to identify ranges in which the value of the asset or expense lies. In AHEAD wave 2 and HRS wave 3, the exit interview starts the unfolding bracket sequence by asking the proxy whether the value is more than an amount chosen from a predefined set of thresholds. Starting in wave 4, the HRS exit interview starts the unfolding bracket sequence by asking the proxy whether the value is less than, more than, or about equal to an amount randomly chosen from a predefined set of thresholds. Based on this response, the exit interview asks up to twice more whether the value is more than (in AHEAD wave 2 and HRS wave 3) or whether the value is less than, more than, or about equal to (in HRS wave 4 and onward) some of the other thresholds in an attempt to narrow the possible range of values. The result for some respondents is a closed bracket where the proxy identified a number lower than the value and one higher than the value. Another result for other respondents is an open bracket where the proxy only identified one number lower or higher than the value. One more result for other respondents is an approximate value where the proxy identified a single amount as about equal to the requested value (in HRS wave 4 and onward). A final result for other respondents can be that the proxy was not able to identify any amount which was less than, more than, or about equal to the requested value.

As a result, the HRS Exit data contains no-ownership/zero-value responses, exact amount reports, closed bracket responses, open bracket responses, cases where no bracket information was provided, and cases where ownership is unknown. A no-ownership/zero-value responses results if the proxy reports the respondent not having/owning the expense/asset. An exact amount report results if the proxy reports the respondent having/owning the expense/asset and is able to identify the value. A closed bracket response results if the proxy reports the respondent having/owning the expense/asset and provides an approximate value or an upper and lower bound in which the value lies. An open bracket results if the proxy reports the respondent having/owning the expense/asset and provides some information but only a lower bound or upper bound is identified. Cases where we have no bracket information result if the proxy indicates the respondent having/owning the expense/asset, but neither a lower nor upper bound are identified. Finally, there may be proxies who refused to answer or did not know whether the respondent had/owned the expense/asset. These proxies were not asked to identify the value or taken into an unfolding bracket sequence, and their response is classified as "DK ownership" or “DK whether has expense".
In summary, the data contain valid responses (exact values and cases where we know the individual did not have this type of asset or expense) and several types of responses that require imputations. In decreasing order of the available information, those cases which require imputation:

Case 1: We may know an approximate value, this is considered similar to a closed bracket.
Case 2: We may know a number that the value is less than and a number that the value is more than, this is a closed bracket.
Case 3: We may know only one number that the value is more than or less than, this is an open bracket.
Case 4: We may know that the individual owned the asset or had the expense, but have no information on its value.
Case 5: We may not even know whether the individual owned an asset or had the expense.

For all variables which include imputed values, the Harmonized HRS End of Life provides and flags imputed values in separate variables.

2.2. **Imputation Process**

In principle, imputations should use the conditional distribution of the variable to be imputed conditional on all observed variables. In practice, however, this is impractical, undesirable, and often impossible, especially if the data set has large numbers of variables as does the HRS, which would lead to overfitting and inability to estimate all the coefficients in the models. On the other hand, using a very simplified imputation procedure like a hot deck imputation which does not take into account any observed variables or only a few observed variables (in a conditional hot deck) can lead to a match bias, where the imputation method tends to impute too many values in the middle of the distribution (Hirsch & Schumacher 2004 and Bollinger & Hirsch 2006). Taking into consideration the advantages and disadvantages of different imputation procedures, the Harmonized HRS End of Life provides imputed values using a predictive mean matching imputation method (PMM; Little 1988) with a small number of covariates.

For all of the five cases identified above, Harmonized HRS End of Life imputes the value using the PMM method. The Harmonized HRS End of Life PMM method uses all reported values, treating “no ownership” as a zero value, and estimates a linear regression model for the inverse hyperbolic sine of this value with a small set of covariates. The imputed value is then the reported value of the individual with the closest predicted value, where the donor pool consists of the individuals who reported a value that is consistent with the reported information from the individual that needs imputation. For instance, if a proxy reported the respondent having a value between 10,000 and 25,000 in the unfolding bracket sequence, the donor pool would consist of individuals whose proxy reported a value between 10,000 and 25,000. As part of the imputation process, imputation flag variables are also created, which allow data users to know whether the value was reported or imputed and, if imputed, what information was known.
(regarding ownership and bracket values). In addition to the value, ownership is also taken from the donor individual, so both are jointly imputed. (Note that HRS Exit allows ownership with a zero value, so the two are not equivalent.) For more information about this PMM model refer to Lee, Meijer, and Phillips (2015).

When imputing individual-level values the gender and age at death of the individual are used as covariates.

The Harmonized HRS End of Life provides imputed values for individual medical expenditures, home value, estate value, death expenses, and life insurance settlements. All of the financial variables in the Harmonized HRS End of Life, whether representing assets or expenditures, have already been adjusted by the annual consumer price index based on the year of the respondent’s death. For more information on the calculation of the consumer price index see http://stats.oecd.org.
3. Structure of Codebook

The Data Codebook contains the codebook documenting all variables in the Harmonized HRS End of Life 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.

---

1. **Whether Death was Expected**

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0A RADEXPEC</td>
<td>radexpec: r death expected</td>
<td>Categ</td>
</tr>
</tbody>
</table>

2. **Descriptive Statistics**

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADEXPEC</td>
<td>12712</td>
<td>1.45</td>
<td>0.55</td>
<td>1.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

3. **Categorical Variable Code**

<table>
<thead>
<tr>
<th>Value</th>
<th>RADEXPEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>.d:dk</td>
<td>53</td>
</tr>
<tr>
<td>.m:missing</td>
<td>12</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>174</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>1</td>
</tr>
<tr>
<td>1.expected</td>
<td>7349</td>
</tr>
<tr>
<td>2.unexpected</td>
<td>5017</td>
</tr>
<tr>
<td>3.other</td>
<td>346</td>
</tr>
</tbody>
</table>

4. **How Constructed**

RADEXPEC indicates whether the respondent's death was expected or unexpected, as reported by the proxy. The proxy is asked, "Was the death expected at about the time it occurred, or was it unexpected?" RADEXPEC is coded as follows: 1.expected, 2.unexpected, 3.other. This question is not asked in HRS wave 2, and so RADEXPEC is coded as special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

5. **Cross-Wave Differences in HRS**

The question on the expectation of death is not asked in HRS wave 2, but is asked in AHEAD wave 2 and HRS wave 3 and onward.

6. **HRS Variables Used**

- **Wave 2A Exit:**
  - cs2jx.expected death?

- **Wave 3 Exit:**
  - cs2jx.expected death?

- **Wave 4 Exit:**
  - cs2jx.expected death?
3. Structure of Codebook

Wave 5 Exit:
  R530       cs2jx.expected death?
Wave 6 Exit:
  SA131       death expected/unexpected
Wave 7 Exit:
  TA131       death expected/unexpected
Wave 8 Exit:
  UA131       death expected/unexpected
Wave 9 Exit:
  VA131       death expected/unexpected
Wave 10 Exit:
  WA131       death expected/unexpected
Wave 11 Exit:
  XA131       death expected/unexpected
Wave 12 Exit:
  YA131       death expected/unexpected

1 Title: The variables are documented in groups according to the concept that they measure. For example, there is 1 variable related to expectation of death which corresponds to all waves and the respondent. The title is often followed by a short description of the concept that is captured.

2 Variable Names: This entry shows that the variable represents “all” waves. Please note that while the variable represents “all” waves, not every wave may ask the question encoded in the variable, in which case a special missing is assigned.

3 Variable Labels: This entry shows the Stata variable labels. As discussed above, the labels typically include the name of the variable, the file on which it is present, and a description of its contents.

4 Variable Type: This entry indicates the type of variable. It may be continuous (Cont), categorical (Categ), or character (Char).

5 Descriptive Statistics: This entry shows descriptive statistics on each variable. They include the number of nonmissing values, the mean, standard deviation, minimum value, and maximum value.

6 Categorical Value Codes: This entry shows the value label codes. These are only relevant for categorical variables. The first character(s) of the value labels indicate the value to which each label has been assigned. For example, value “1” is mapped into “1. Expected” (not just “Expected”). The entry also indicates which labels are assigned to which variables, and shows frequency tabulations for all categorical variables.

7 How Constructed: This entry provides background on the manner in which variables were constructed.
8. Cross-Wave Differences in HRS: This entry briefly describes differences in question wording or contents between interview waves.

9. HRS Variables Used: This entry provides the names and labels of raw HRS variables that were used to construct the new variables.
4. Distribution and Technical Notes

The Harmonized HRS End of Life Data file is distributed through the Health and Retirement Survey (HRS) website along with the original HRS data, the RAND HRS data, the Harmonized HRS data, the HRS Exit data, and the RAND HRS Exit/Post-Exit data. The Harmonized HRS End of Life data file is made available free of charge but only to users who register with the HRS and agree to the standard conditions. For more information on obtaining access to the HRS data, visit: https://hrs.isr.umich.edu/data-products.

The Harmonized HRS End of Life data file is distributed in Stata, SAS, and SPSS dataset formats.

This is version A of the Harmonized HRS End of Life Data.

A copy of this Harmonized HRS End of Life Codebook and Stata creation code program can be obtained on the Gateway to Global Aging Data (https://g2aging.org/) under the Download tab.
5. Data Codebook
Section A: Demographics
### Person Specific Identifier

<table>
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<tr>
<th>Wave Variable</th>
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<th>Type</th>
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<tr>
<td>DI HHIDPN</td>
<td>hhidpn: hhold id + person number /num</td>
<td>Cont</td>
</tr>
<tr>
<td>AA HHID</td>
<td>hhid: hhold id / 6-char</td>
<td>Char</td>
</tr>
<tr>
<td>AA PN</td>
<td>person number (char)</td>
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#### Descriptive Statistics

<table>
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#### How Constructed:

Person specific identifier, household identifier and person number are based on the RAND HRS Longitudinal File.

HHIDPN is the numeric version of the combined household and person identifier that identifies every single respondent.

HHID is the 6-character HRS household identifier.

PN is the 3-character person number.

For more detailed information about how these variables are created, please refer to RAND HRS Data files webpage: "https://www.rand.org/labor/aging/dataprod/hrs-data.html", or "RAND HRS Data Longitudinal File 2014 (V2) Documentation" (2018).

#### Cross Wave Differences in HRS

No differences known.

#### HRS Variables Used:

RAND HRS:
- HHID: hhid: hhold id / 6-char
- HHIDPN: hhidpn: hhold id + person number /num
- PN: person number (char)
### Wave Status: Exit, Post Exit, and Post Post Exit Interview

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</tr>
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</tr>
<tr>
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<tr>
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### Descriptive Statistics

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INW7PPXT  12952  0.01  0.10  0.00  1.00
INW8PPXT  12952  0.00  0.05  0.00  1.00
INW9PPXT  12952  0.00  0.02  0.00  1.00
INW10PPXT 12952  0.00  0.03  0.00  1.00
INW11PPXT 12952  0.00  0.04  0.00  1.00
INW12PPXT 12952  0.00  0.04  0.00  1.00

Categorical Variable Codes

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| Value             | INW2XT INW3XT INW4XT INW5XT INW6XT INW7XT |
|-------------------|-------|-------|-------|-------|-------|-------|
| 0.nonresp         | 12778 | 11984 | 11712 | 11610 | 11458 | 11730 |
| 1.resp,deceased  | 174   | 968   | 1240  | 1342  | 1494  | 1222  |

| Value             | INW8XT INW9XT INW10XT INW11XT INW12XT |
|-------------------|-------|-------|-------|-------|-------|
| 0.nonresp         | 11642 | 11622 | 11509 | 11765 | 11710 |
| 1.resp,deceased  | 1310  | 1330  | 1443  | 1187  | 1242  |

| Value             | INW4PXT INW5PXT INW6PXT INW7PXT |
|-------------------|-------|-------|-------|-------|
| 0.nonresp         | 12720 | 12596 | 12492 | 12626 |
| 1.resp,deceased  | 232   | 356   | 460   | 326   |

| Value             | INW8PXT INW9PXT INW10PXT INW11PXT INW12PXT |
|-------------------|-------|-------|-------|-------|-------|
| 0.nonresp         | 12837 | 12841 | 12831 | 12822 | 12828 |
| 1.resp,deceased  | 115   | 111   | 121   | 130   | 124   |

| Value             | INW6PXT INW7PXT |
|-------------------|-------|-------|
| 0.nonresp         | 12927 | 12814 |
| 1.resp,deceased  | 25    | 138   |

| Value             | INW8PXT INW9PXT INW10PXT INW11PXT INW12PXT |
|-------------------|-------|-------|-------|-------|-------|
| 0.nonresp         | 12921 | 12945 | 12939 | 12932 | 12934 |
| 1.resp,deceased  | 31    | 7     | 13    | 20    | 18    |

How Constructed:

INXT indicates whether a proxy completed the first exit interview for the deceased respondent in any wave. INXT is coded as 1 if the respondent is deceased and a proxy completed the first exit interview on their behalf in any available wave. All respondents in this dataset are coded as 1 because this dataset only includes respondents who are deceased and have had a completed exit interview.

INWwXT indicates whether a proxy completed the first exit interview for the deceased respondent in the current wave. INWwXT is coded as 1 if a proxy completed the first exit interview on behalf of the deceased respondent in the specified wave. INWwXT is coded as 0 if a proxy completed the first exit interview on behalf of the deceased respondent as part of another wave. Please note that this dataset only includes respondents who are deceased and have had a completed exit interview. INWwXT does not indicate whether the respondent is alive or dead, but rather which wave the respondent's first exit interview took place in.

INWwPXT indicates whether a proxy completed the post exit interview for the deceased respondent in the current wave. The post exit interview is a return exit interview to gather additional information on the respondent's estate which could not be collected at the time of the first exit interview. Post exit interviews are conducted beginning in wave 4, and are conducted for respondents whose first exit interview was completed in AHEAD wave 2 or HRS wave 3 or after (so not completed in HRS wave 2). INWwPXT is not available in waves 2 and 3. INWwPXT is coded as 0 if a proxy completed the first exit interview on behalf of the deceased respondent as part of another wave or no post exit interview was given. INWwPXT is coded as 1 if a proxy completed the post exit interview on behalf of the deceased respondent in the specified wave.
INWwPPXT indicates whether a proxy completed a post post exit interview for the deceased respondent in the current wave. The post post exit interview is a return exit interview to gather additional information on the respondent's estate which could not be collected at the time of the first or post exit interview. Post post exit interviews are conducted beginning in wave 6, and are conducted for respondents whose first exit interview was completed in AHEAD wave 2 or HRS wave 3 or after (so not completed in HRS wave 2). INWwPPXT is not available in waves 2 through 5. In waves 6, and 8 and onward, only one post post exit interview is conducted. In wave 7 alone, a second post post exit interview could be conducted. INWwPPXT is coded as 0 if a proxy completed the first exit interview on behalf of the deceased respondent as part of another wave or no post post exit interview was given. INWwPPXT is coded as 1 if a proxy completed the first or second post post exit interview on behalf of the deceased respondent in the specified wave.

**Cross Wave Differences in HRS**

Post exit interviews are conducted beginning in wave 4, and are conducted for respondents whose first exit interview was completed in AHEAD wave 2 or HRS wave 3 or after. Post exit interviews were not conducted for respondents whose first exit interview was completed in HRS wave 2.

Post post exit interviews are conducted beginning in wave 6, and are conducted for respondents whose first exit interview was completed in AHEAD wave 2 or HRS wave 3 or after. Post post exit interviews were not conducted for respondents whose first exit interview was completed in HRS wave 2. In waves 6, and 8 and onward, only one post post exit interview is conducted. Only in wave 7, a second post post exit interview could be conducted.

**HRS Variables Used:**

Wave 2 Exit:
- W116: ics5. self/proxy interview
Wave 2A Exit:
- N217: cs1.r living
Wave 3 Exit:
- P209: proxy iw flag
Wave 4 Exit:
- POST_EXIT: post exit interview flag
Wave 5 Exit:
- POST_EXIT: post exit interview flag
Wave 6 Exit:
- SA028: r in nursing home
- SZ145: type post exit interview
Wave 7 Exit:
- TA167: r in nursing home
- TZ145: type post exit interview
Wave 8 Exit:
- UA167: r in nursing home
- UZ145: prev wave type post exit interview
Wave 9 Exit:
- VA167: r in nursing home
- VZ145: prev wave type post exit interview
Wave 10 Exit:
- WA028: r in nursing home
- WZ145: type post exit interview
Wave 11 Exit:
- XA028: r in nursing home
- XZ145: type post exit interview
Wave 12 Exit:
- YA028: r in nursing home
- YZ145: type post exit interview
### Exit, Post Exit, and Post Post Exit Interview Dates: Month and Year

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</tr>
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<td>raxtiwy: r exit interview year</td>
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### Descriptive Statistics

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### How Constructed:

RAXTIWM and RAXTIWY indicate the month and year, respectively, in which the respondent's first exit interview took place. Exit interviews have been conducted since HRS wave 2 and AHEAD wave 2 for respondents who had participated in at least one previous wave of the HRS.

RAPXТИIWM and RAPXТИIWY indicate the month and year, respectively, in which the respondent's post exit interview took place. Post exit interviews have been conducted since wave 4 for respondents whose first exit interview was completed in AHEAD wave 2 or HRS wave 3 or after. Post exit interviews were not conducted for respondents whose first exit interview was completed in HRS wave 2. RAPXТИIWM and RAPXТИIWY are assigned special missing .q if the respondent's first exit interview took place in HRS wave 2 and is not eligible for a post exit interview. RAPXТИIWM and RAPXТИIWY are assigned special missing .x if the respondent's first exit interview took place in AHEAD wave 2 or HRS wave 3 or later, but a post exit interview was not conducted on behalf of the respondent. Don't know, refuse, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAPPXТИIWM1 and RAPPXТИIWY1 indicate the month and year, respectively, in which the respondent's first post post exit interview took place. RAPPXТИIWM2 and RAPPXТИIWY2 indicate the month and year, respectively, in which the respondent's second post post exit interview took place. The post post exit interview is a return exit interview to gather additional
information on the respondent's estate which could not be collected at the time of the first or post exit interview. Post post exit interviews have been conducted since wave 6 for respondents whose first exit interview was completed in AHEAD wave 2 or HRS wave 3 or after. Post post exit interviews were not conducted for respondents whose first exit interview was completed in HRS wave 2. In waves 6, and 8 and onward, only one post post exit interview is conducted. In wave 7 alone, a second post post exit interview could be conducted. RAPPXTIW1, RAPPXTIW2, RAPPXTIYW1, and RAPPXTIYW2 are assigned special missing .q if the respondent's first exit interview took place in HRS wave 2 and is not eligible for a post exit interview. RAPPXTIW1, RAPPXTIYW1, RAPPXTIW2, and RAPPXTIYW2 are assigned special missing .x if the respondent's first exit interview took place in AHEAD wave 2 or HRS wave 3, both in wave 3, or later, but a first or second, respectively, post post exit interview was not conducted on behalf of the respondent. Don't know, refuse, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

Exit interviews began to be conducted in HRS wave 2 and AHEAD wave 2 for respondents who had participated in at least one previous wave of the HRS.

There is a specified start and end date for the exit interview only in HRS wave 2. In this wave, RAXTIWM and RAXTIWY indicate the month and year of the end of the exit interview. You can find data for the timing of the start of the wave 2 exit interview in the core HRS data. It is only in HRS wave 2 that there is not a separate exit questionnaire, but rather the questions for the exit interview are within the core questionnaire.

Respondents whose first exit interview took place in HRS wave 2 are not eligible for a post exit interview.

Post exit interviews are conducted beginning in wave 4. First post post exit interviews are conducted beginning in wave 6. A second post post exit interview is only conducted in wave 7.

HRS Variables Used:

Wave 2 Exit:
W59  end of interview - month
W61  end of interview - year

Wave 2A Exit:
N391  cur month text
N393  cur year yyyy

Wave 3 Exit:
P391  cur month text
P393  cur year yyyy

Wave 4 Exit:
Q2561A  fs date of iw - month
Q2561B  fs date of iw - year
Q699  month of interview
Q701  year of interview

Wave 5 Exit:
R768  cscalc2.cur month text
R770  cs22y45.cur year yyyy

Wave 6 Exit:
SA500  date of interview - month
SA501  date of interview - year

Wave 7 Exit:
TA500  date of interview - month
TA501  date of interview - year

Wave 8 Exit:
UA500  date of interview - month
UA501  date of interview - year

Wave 9 Exit:
VA500  date of interview - month
VA501  date of interview - year
Wave 10 Exit:
  WA500          date of interview - month
  WA501          date of interview - year
Wave 11 Exit:
  XA500          date of interview - month
  XA501          date of interview - year
Wave 12 Exit:
  YA500          date of interview - month
  YA501          date of interview - year
**Last Completed Core Interview**

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**Descriptive Statistics**

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**How Constructed:**

RALSTCORE indicates the most recent wave that the now deceased respondent completed while alive, including if the last completed wave was completed by a proxy. This variable is determined based on the INWw variables in the RAND HRS. RALSTCORE can be used to merge the Harmonized HRS Exit to the last completed core wave of the HRS study data, the RAND HRS, or the Harmonized HRS. For additional details and example code to complete this merge, please see section 1.8 of the Introduction and Overview.

RALSTCOREY indicates the year of the most recent wave interview that the now deceased respondent completed while alive, including if the last completed wave was completed by a proxy. This variable is determined based on the INWw and RwIWENDY variables in the RAND HRS.

**Cross Wave Differences in HRS**

No differences known.

**HRS Variables Used:**

RAND HRS:

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### Categorical Variable Codes

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<thead>
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**How Constructed:**

RAXPRXY indicates the relationship of the proxy who completed the first exit interview to the deceased respondent, as reported by the interviewer. RAPXPRXY indicates the relationship of the proxy who completed the post exit interview to the deceased respondent. RAPPXPRXY1 indicates the relationship of the proxy who completed the first post post exit interview to the deceased respondent. RAPPXPRXY2 indicates the relationship of the proxy who completed the second post post exit interview to the deceased respondent. These variables are coded as follows: 1.spouse, 2.child, 3.other relative, 4.other non-relative.

RAXPRXY, RAPXPRXY, RAPPXPRXY1, and RAPPXPRXY2 are coded as 1 if the proxy is the deceased respondent's spouse or partner. RAXPRXY, RAPXPRXY, RAPPXPRXY1, and RAPPXPRXY2 are coded as 2 if the proxy is the deceased respondent's son, stepson or son of partner, spouse/partner of daughter, daughter, stepdaughter or daughter of partner, or spouse/partner of son. RAXPRXY, RAPXPRXY, RAPPXPRXY1, and RAPPXPRXY2 are coded as 3 if the proxy is the deceased respondent's grandchild (of the respondent or their spouse/partner), spouse/partner of grandchild, brother, sister, or other relative. RAXPRXY, RAPXPRXY, RAPPXPRXY1, and RAPPXPRXY2 are coded as 4 if the proxy is another individual, paid helper, or professional.

RAXPRXY, RAPXPRXY, RAPPXPRXY1, and RAPPXPRXY2 are assigned special missing .q if the respondent's first exit interview took place in HRS wave 2 and is not eligible for a post exit interview. RAXPRXY, RAPXPRXY, RAPPXPRXY1, and RAPPXPRXY2 are assigned special missing .x if the respondent's first exit interview took place in AHEAD wave 2 or HRS wave 3 or later, but a post exit interview or post post exit interview was not conducted on behalf of the respondent. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXSMPRXY indicates whether the proxy completing the first exit interview for the deceased respondent is the same as the proxy who helped to complete the previous core interview, as reported by the interviewer. RAPXSMPRXY indicates whether the proxy completing the post exit interview for the deceased respondent is the same as the proxy who completed the first exit interview. RAPPXSMPRXY1 indicates whether the proxy completing the first post post exit interview for the deceased respondent is the same as the proxy who completed the post exit interview. RAPPXSMPRXY2 indicates whether the proxy completing the second post post exit interview for the deceased respondent is the same as the proxy who completed the first post post exit interview. These variables are coded as follows: 1.same proxy, 2.different proxy,
3.unknown. In waves 3 through 5, RAXSMPRXY, RAPXSMPRXY, RAPPXSMPRXY1, and RAPPXSMPRXY2 are coded as 3.unknown if the proxy status of the previous wave was not assigned in the preload or if the proxy name from the previous wave was not preloaded. Starting in wave 6, the interviewer is instructed to report 3.unknown unless they confirm from the exit interview proxy that they were or were not the same proxy who helped to complete the previous core/exit interview. RAXSMPRXY is assigned special missing .p if the deceased respondent's previous core interview was not completed by proxy. RAXSMPRXY is not available in wave 2, and so is assigned special missing .q in this wave. RAPXSMPRXY, RAPPXSMPRXY1, and RAPPXSMPRXY2 are assigned special missing .q if the respondent's first exit interview took place in HRS wave 2 and is not eligible for a post exit interview. RAPXSMPRXY, RAPPXSMPRXY1, and RAPPXSMPRXY2 are assigned special missing .x if the respondent's first exit interview took place in AHEAD wave 2 or HRS wave 3 or later, but a post exit interview or post post exit interview was not conducted on behalf of the respondent. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, there is a larger list of relationship types for the proxy's relationship to the respondent than in other waves. In this wave, RAXPRXY is coded as 2 if the proxy is the deceased respondent's child (natural), adopted child, stepchild (partner's, spouse's or ex-spouse's child), child-in-law, foster child, or child (NA type). RAXPRXY is coded as 3 if the proxy is the deceased respondent's grandchild (including grandchild-in-law and step-grandchild), great grandchild, parent (natural), adoptive parent, step-parent (parent's spouse), spouse's/partner's parent or step-parent, parent (NA type), grandparent, great grandparent, spouse's/partner's grandparent, spouse's/partner's great grandparent, sibling, step-sibling, sibling-in-law, niece/nephew or grandniece/grandnephew, spouse's/partner's step-sibling, spouse's/partner's sibling-in-law, spouse's/partner's niece/nephew, sibling (NA type), aunt/uncle, cousin/cousin-in-law, great aunt/uncle, other relative, spouse's/partner's aunt/uncle, spouse's/partner's cousin, great aunt/uncle of spouse/partner, or other relative of spouse/partner. RAXPRXY is coded as 4 if the proxy is the deceased respondent's friend, friend's child or grandchild, spouse's/partner's friend, spouse's/partner's friend's child, friend or fiancé of respondent's child or of another relative, servant/live-in (paid) help/housekeeper, roomer/boarder, roommate/housemate and their children, landlord, persons unknown to the respondent, or other. Please note that there is a higher proportion of spouse proxies in HRS wave 2, which we believe to be the result of an interviewer preference to interview spouses over other relationship types at that wave.

The questionnaire in HRS wave 2 does not ask whether the proxy in the exit interview is the same as the previous core interview. In waves 3 through 5, the interviewer is not asked to assign a same proxy status of unknown, only to determine whether it is the same proxy as the previous wave or a different/new person. Starting in wave 6, the interviewer is instructed to report an unknown proxy status unless they confirm from the exit interview proxy that they were or were not the same proxy who helped to complete the previous core interview.

Respondents whose first exit interview took place in HRS wave 2 are not eligible for a post exit interview.

Post exit interviews are conducted beginning in wave 4. First post post exit interviews are conducted beginning in wave 6. A second post post exit interview is only conducted in wave 7.

**HRS Variables Used:**

**Wave 2 Exit:**
- W132 icsp2. relationship of proxy to r
- W62 proxy type of interview

**Wave 2A Exit:**
- N218 cs1a.proxy interview
- N219 cs1b.wave2 proxy is:
- N557 cs2-proxy type 1
- N99 w1 iw self-proxy

**Wave 3 Exit:**
- P218 cs1a.proxy interview
Section A: Demographics

P219          cs1b.wave2 proxy is:
P557          cs49.proxy type 1
P99           prev wave iw self/proxy

Wave 4 Exit:
Q222          prev wave iw self/proxy
Q483          cs1a.proxy/self interview
Q484          cs1b.current-wave proxy
Q863          cs2-proxy type 1

Wave 5 Exit:
R222          pr222.prev wave iw self/proxy
R514          cs1a.proxy/self interview
R515          cs1b.current-wave proxy
R947          cs49y48.(cs2)-proxy rel to deceased

Wave 6 Exit:
SA009          proxy/self interview
SA010          current - wave proxy
SA103          proxy relationship to r
S2095          prev wave iw self/proxy

Wave 7 Exit:
TA009          proxy/self interview
TA010          current - wave proxy
TA103          proxy relationship to r
T2095          prev wave iw self/proxy

Wave 8 Exit:
UA009          proxy/self interview
UA010          current - wave proxy
UA103          proxy relationship to r
U2095          prev wave iw self/proxy

Wave 9 Exit:
VA009          proxy/self interview
VA010          current - wave proxy
VA103          proxy relationship to r
V2095          prev wave iw self/proxy

Wave 10 Exit:
WA009          proxy/self interview
WA010          current - wave proxy
WA103          proxy relationship to r
W2095          prev wave iw self/proxy

Wave 11 Exit:
XA009          proxy/self interview
XA010          current - wave proxy
XA103          proxy relationship to r
X2095          prev wave iw self/proxy

Wave 12 Exit:
YA009          proxy/self interview
YA010          current - wave proxy
YA103          proxy relationship to r
Y2095          prev wave iw self/proxy
### Date of Death: Month and Year

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#### Descriptive Statistics

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<td>2014.00</td>
</tr>
</tbody>
</table>

#### How Constructed:

The month and year of the respondent's death is asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. These questions are included in the post and post post exit interviews starting in wave 6. Once the questions are answered, the proxy is not asked these questions again if any further exit interviews are conducted. As such, RAXMONTH and RAXYEAR can contain responses from the exit interview, post exit interview, or post post exit interview.

RAXMONTH and RAXYEAR indicate the deceased respondent's month and year of death, respectively, as reported by the proxy in the exit interview. Starting in AHEAD wave 2 and HRS wave 3 in wave 3, RAXMONTH and RAXYEAR are ascertained from direct questions asking the proxy about the respondent's month and year of death, respectively. Starting in wave 6, if post exit or post post exit interviews are conducted on behalf of the respondent and RAXMONTH or RAXYEAR is missing, then the month and year of death provided in the post or post post exit interview is used. These dates are not specifically obtained in HRS wave 2, and RAXYEAR and RAXMONTH are assigned special missing .q in this wave. RAXYEAR is assigned special missing .i if an invalid year of death was given, either because it did not make sense or because death occurred before the start of the HRS interviews in 1992. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note that the RAND HRS provides additional values for the respondent's month and year of death, separate from RAXMONTH and RAXYEAR which are assigned based on information solely from the exit interview. Specifically, RAIMONTH and RAIYEAR indicate the respondent's date of death from either the exit interview or from the respondent's spouse. The HRS also provides variables for the respondent's month and year of death in their Tracker File, EXDEATHMO and EXDEATHYR, which incorporate data from an exit interview or a spouse/partner core interview, and KNOWNDECEASEDMO and KNOWNDECEASEDHY, which incorporate data from the exit interview, spouse/partner core interview, date reported during field activity by someone with knowledge of the respondent, and an imputed date based on the respondent's last known alive date and the date on which the HRS learned the respondent was deceased. In all calculations involving the date of death, we use the KNOWNDECEASEDMO and KNOWNDECEASEDHYR variables provided in the HRS Tracker File.

#### Cross Wave Differences in HRS

The month and year of death are not specifically obtained in HRS wave 2. Starting in AHEAD wave 2 and HRS wave 3, the month and year of death are ascertained from direct questions to the proxy during the exit interview.

Starting in wave 6, if post exit or post post exit interviews are conducted on behalf of the respondent and RAXMONTH or RAXYEAR is missing, then the month and year of death provided in the post or post post exit interview is used to fill in RAXMONTH and RAXYEAR.
Respondents whose first exit interview took place in HRS wave 2 in wave 2 are not eligible for a post exit interview.

Post exit interviews are conducted beginning in wave 4. First post post exit interviews are conducted beginning in wave 6. A second post post exit interview is only conducted in wave 7.

**HRS Variables Used:**

**Wave 2A Exit:**
- N223           cs2ax.month of death
- N225           cs2bx.year of death

**Wave 3 Exit:**
- P223           cs2ax.month of death
- P225           cs2bx.year of death

**Wave 4 Exit:**
- Q488           cs2ax.month of death
- Q490           cs2bx.year of death

**Wave 5 Exit:**
- R520           cs2ax.month of death
- R522           cs2ax3.year of death

**Wave 6 Exit:**
- SA121          date of death- month
- SA123          date of death- year

**Wave 7 Exit:**
- TA121          date of death- month
- TA123          date of death- year

**Wave 8 Exit:**
- UA121          date of death- month
- UA123          date of death- year

**Wave 9 Exit:**
- VA121          date of death- month
- VA123          date of death- year

**Wave 10 Exit:**
- WA121          date of death- month
- WA123          date of death- year

**Wave 11 Exit:**
-XA121          date of death- month
-XA123          date of death- year

**Wave 12 Exit:**
-YA121          date of death- month
-YA123          date of death- year
### Date of Death: Age at Death

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0A RADAGE</td>
<td>radage: r age at death</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RADAGEF</td>
<td>radagef: r flag age at death</td>
<td>Categ</td>
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</table>

#### Descriptive Statistics

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<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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</thead>
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<tr>
<td>RADAGE</td>
<td>12951</td>
<td>78.95</td>
<td>11.13</td>
<td>37.00</td>
<td>111.00</td>
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<tr>
<td>RADAGEF</td>
<td>12951</td>
<td>0.02</td>
<td>0.17</td>
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<td>2.00</td>
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#### Categorical Variable Codes

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>.m:missing</td>
<td>1</td>
</tr>
<tr>
<td>0.reported/calculated age used</td>
<td>12813</td>
</tr>
<tr>
<td>1.month &amp; year used</td>
<td>57</td>
</tr>
<tr>
<td>2.only year used</td>
<td>81</td>
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</tbody>
</table>

#### How Constructed:

RADAGE indicates the deceased respondent's age at death. RADAGE takes the age calculated in the coverscreen module of the exit interview when possible. If this value is missing, then RADAGE is calculated using year and month of birth (RABYEAR and RABMONTH from the RAND HRS) and year and month of death (KNOWNDECEASEDYR and KNOWNDECEASEDMO from the HRS Tracker File). If birth or death month is missing, then the calculation only considers the birth and death year values. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RADAGEF is a flag variable indicating whether an age was reported or calculated in the coverscreen, or whether year and month or only years are used in the calculation of RADAGE. RADAGEF is coded as follows: 0.reported/calculated age used, 1.month and year used, 2.only year used. RADAGEF is assigned special missing .m if RADAGE has a missing value.

#### Cross Wave Differences in HRS

In HRS wave 2, the proxy is asked for the respondent's age at death, and not for the year and month of death. In all other waves, the proxy is asked for the respondent's year and month of death, and age is calculated in the coverscreen module.

#### HRS Variables Used:

RAND HRS:

- RABMONTH: r birth month
- RABYEAR: r birth year
- S1OBMONTH: s birth month
- S1OBYEAR: s birth year
- S11BMONTH: s birth month
- S11BYEAR: s birth year
- S12BMONTH: s birth month
- S12BYEAR: s birth year
- S18MONTH: s birth month
- S18YEAR: s birth year
- S2BOMONTH: s birth month
- S2BOYEAR: s birth year
S3BMONTH s3bmonth: s birth month
S3BYEAR s3byear: s birth year
S4BMONTH s4bmonth: s birth month
S4BYEAR s4byear: s birth year
S5BMONTH s5bmonth: s birth month
S5BYEAR s5byear: s birth year
S6BMONTH s6bmonth: s birth month
S6BYEAR s6byear: s birth year
S7BMONTH s7bmonth: s birth month
S7BYEAR s7byear: s birth year
S8BMONTH s8bmonth: s birth month
S8BYEAR s8byear: s birth year
S9BMONTH s9bmonth: s birth month
S9BYEAR s9byear: s birth year

Tracker:
KNOWNDECEASEDMO known deceased - month
KNOWNDECEASEDLYR known deceased - year

Wave 2 Exit:
W104 hhcs7d. age

Wave 2A Exit:
N407 r`s current age

Wave 3 Exit:
P407 r`s current age

Wave 4 Exit:
Q1014 r`s cur age (ref q753)

Wave 5 Exit:
R1086 a2ly1.r`s cur age

Wave 6 Exit:
SR_AGE rage

Wave 7 Exit:
TA019 r current age calculation

Wave 8 Exit:
UA019 r current age calculation

Wave 9 Exit:
VA019 r current age calculation

Wave 10 Exit:
WA019 r current age calculation

Wave 11 Exit:
XA019 r current age calculation

Wave 12 Exit:
YA019 r current age calculation
Time from Death to Exit Interview: Months and Years

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>0A RADTOIVWM</td>
<td>radtoivwm: r time between death and exit ivw, months</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RADTOIVWY</td>
<td>radtoivwy: r time between death and exit ivw, years</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RADTOIVWF</td>
<td>radtoivwf: r flag time between death and exit ivw</td>
<td>Categ</td>
</tr>
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</table>

Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
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<th>Mean</th>
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<tr>
<td>RADTOIVWM</td>
<td>12836</td>
<td>13.47</td>
<td>9.76</td>
<td>0.00</td>
<td>118.00</td>
</tr>
<tr>
<td>RADTOIVWY</td>
<td>12836</td>
<td>1.12</td>
<td>0.81</td>
<td>0.00</td>
<td>9.83</td>
</tr>
<tr>
<td>RADTOIVWF</td>
<td>12836</td>
<td>1.00</td>
<td>0.00</td>
<td>1.00</td>
<td>1.00</td>
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Categorical Variable Codes

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</thead>
<tbody>
<tr>
<td>.m:missing</td>
<td>116</td>
</tr>
<tr>
<td>1.month and year used</td>
<td>12836</td>
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</tbody>
</table>

How Constructed:

RADTOIVWM and RADTOIVWY indicate the calculated months and years, respectively, from the respondent's death to the first exit interview. RADTOIVWM is calculated using the year and month of death (KNOWNDECEASEDYR and KNOWNDECEASEDMO from the HRS Tracker File) and the year and month of the exit interview. If exit interview or death month is missing, then the calculation only considers the exit interview and death year values. RADTOIVWY is calculated by dividing RADTOIVWM by 12. If these calculations create a negative value, then RADTOIVWM and RADTOIVWY are assigned special missing .i. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RADTOIVWF is a flag variable indicating whether year and month or only years are used in the calculation of RADTOIVWM and RADTOIVWY. RADTOIVWF is coded as follows: 1. month and year used, 2. only year used. RADTOIVWF is assigned special missing .m if RADTOIVWM and RADTOIVWY have a missing value.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is asked for the respondent's age at death. In all other waves, the proxy is asked for the respondent's year and month of death. The effects of this difference on the calculation of time between death and the exit interview for HRS wave 2 are greatly diminished through the use of KNOWNDECEASEDYR and KNOWNDECEASEDMO from the HRS Tracker File.

HRS Variables Used:

Tracker:

- KNOWNDECEASEDMO known deceased - month
- KNOWNDECEASEDYR known deceased - year

Wave 2 Exit:

- W61 end of interview - year

Wave 2A Exit:

- N391 cur month text
- N393 cur year yyyy

Wave 3 Exit:
Section A: Demographics

P391       cur month text
P393       cur year yyyy
Wave 4 Exit:
Q699       month of interview
Q701       year of interview
Wave 5 Exit:
R768       ccalc2.cur month text
R770       cs22y45.cur year yyyy
Wave 6 Exit:
SA500      date of interview - month
SA501      date of interview - year
Wave 7 Exit:
TA500      date of interview - month
TA501      date of interview - year
Wave 8 Exit:
UA500      date of interview - month
UA501      date of interview - year
Wave 9 Exit:
VA500      date of interview - month
VA501      date of interview - year
Wave 10 Exit:
WA500      date of interview - month
WA501      date of interview - year
Wave 11 Exit:
XA500      date of interview - month
XA501      date of interview - year
Wave 12 Exit:
YA500      date of interview - month
YA501      date of interview - year
**Location of Death**

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
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<tbody>
<tr>
<td>DA</td>
<td>RADLOC</td>
<td>Categ</td>
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**Descriptive Statistics**

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<td>RADLOC</td>
<td>12754</td>
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<td>1.02</td>
<td>1.00</td>
<td>5.00</td>
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**Categorical Variable Codes**

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<td>.d:dk</td>
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<tr>
<td>.m:missing</td>
<td>12</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>174</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>1</td>
</tr>
<tr>
<td>1.private home</td>
<td>3750</td>
</tr>
<tr>
<td>2.hospital</td>
<td>4820</td>
</tr>
<tr>
<td>3.nursing home</td>
<td>2902</td>
</tr>
<tr>
<td>4.hospice</td>
<td>905</td>
</tr>
<tr>
<td>5.other</td>
<td>377</td>
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</tbody>
</table>

**How Constructed:**

RADLOC indicates the respondent's location at the time of their death, as reported by the proxy. RADLOC is coded as follows: 1.private home, 2.hospital, 3.nursing home, 4.hospice, 5.other. RADLOC is coded as 1 if the proxy reports that the respondent died at home. RADLOC is coded as 2 if the proxy reports that the respondent died at the hospital. RADLOC is coded as 3 if the proxy reports that the respondent died in a nursing home or at an assisted living facility, rest home, retirement home, or senior care home. RADLOC is coded as 4 if the proxy reports that the respondent died in hospice. RADLOC is coded as 5 if the proxy reports that the respondent died in another location (e.g., at work, outside, accident, relative's home). This question is not asked in HRS wave 2, and so RADLOC is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

**Cross Wave Differences in HRS**

The respondent's location at death was not asked in HRS wave 2, but is asked in AHEAD wave 2 and HRS wave 3 and onward.

**HRS Variables Used:**

Wave 2A Exit:
- N226  cs2cx.place of death
Wave 3 Exit:
- P226  cs2cx.place of death
Wave 4 Exit:
- Q491  cs2cx.place of death
Wave 5 Exit:
- R525  cs2cx.place of death
Wave 6 Exit:
- SA124 location of death
Wave 7 Exit:
- TA124 location of death
Wave 8 Exit:
- UA124 location of death
Wave 9 Exit:
<table>
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<tr>
<th>VA124</th>
<th>location of death</th>
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<tbody>
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<td>Wave 10 Exit:</td>
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<tr>
<td>WA124</td>
<td>location of death</td>
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<td>Wave 11 Exit:</td>
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</tr>
<tr>
<td>XA124</td>
<td>location of death</td>
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<tr>
<td>Wave 12 Exit:</td>
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<tr>
<td>YA124</td>
<td>location of death</td>
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</table>
Geographic Division of Death

<table>
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<th>Type</th>
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<tr>
<td>O4 RADDIV</td>
<td>raddiv: r death geographic division</td>
<td>Categ</td>
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**Descriptive Statistics**

<table>
<thead>
<tr>
<th>Variable</th>
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<td>RADDIV</td>
<td>12923</td>
<td>4.65</td>
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**Categorical Variable Codes**

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</tr>
<tr>
<td>.r:refuse</td>
<td>1</td>
</tr>
<tr>
<td>1.new england division</td>
<td>925</td>
</tr>
<tr>
<td>2.middle atlantic division</td>
<td>1758</td>
</tr>
<tr>
<td>3.east north central division</td>
<td>2272</td>
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<tr>
<td>4.west north central division</td>
<td>1248</td>
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<tr>
<td>5.south atlantic division</td>
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<tr>
<td>6.east south central division</td>
<td>590</td>
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<tr>
<td>7.west south central division</td>
<td>1230</td>
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<tr>
<td>8.mountain division</td>
<td>438</td>
</tr>
<tr>
<td>9.pacific division</td>
<td>1377</td>
</tr>
<tr>
<td>11.foreign country</td>
<td>50</td>
</tr>
<tr>
<td>12.other</td>
<td>1</td>
</tr>
</tbody>
</table>

**How Constructed:**

RADDIV indicates the division of the United States where the respondent died, as reported by the proxy. RADDIV is coded as follows: 1.New England division, 2.Middle Atlantic division, 3.East North Central division, 4.West North Central division, 5.South Atlantic division, 6.East South Central division, 7.West South Central division, 8.Mountain division, 9.Pacific division, 10.in US, but unknown state, 11.Foreign country, 12.Other. RADDIV is coded as 1 if the proxy reports that the respondent died in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, or Connecticut. RADDIV is coded as 2 if the proxy reports that the respondent died in New York, New Jersey, or Pennsylvania. RADDIV is coded as 3 if the proxy reports that the respondent died in Ohio, Indiana, Illinois, Michigan, or Wisconsin. RADDIV is coded as 4 if the proxy reports that the respondent died in Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, or Kansas. RADDIV is coded as 5 if the proxy reports that the respondent died in Delaware, Maryland, Washington DC, Virginia, West Virginia, North Carolina, South Carolina, Georgia, or Florida. RADDIV is coded as 6 if the proxy reports that the respondent died in Kentucky, Tennessee, Alabama, or Mississippi. RADDIV is coded as 7 if the proxy reports that the respondent died in Arkansas, Louisiana, Oklahoma, or Texas. RADDIV is coded as 8 if the proxy reports that the respondent died in Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, or Nevada. RADDIV is coded as 9 if the proxy reports that the respondent died in Washington, Oregon, California, Alaska, or Hawaii. RADDIV is coded as 10 if the proxy reports that the respondent died in the US, but the state is unknown. RADDIV is coded as 11 if the proxy reports that the respondent died in a foreign country, including US territories. RADDIV is coded as 12 if the proxy reports that the respondent died in some other location. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note that while the state of death is asked, the HRS masks this information and releases it as groups of states, which are presented in RADDIV, to protect respondent anonymity.

**Cross Wave Differences in HRS**
The option of choosing "other" is added beginning in wave 10.

**HRS Variables Used:**

Wave 2 Exit:  
  W6866     s16. state of death (rec
Wave 2A Exit:  
  N227M     cs2dx.location - die - masked
Wave 3 Exit:  
  P227M     cs2dx.location - die - masked
Wave 4 Exit:  
  Q492M     cs2dx.location - region of death - masked
Wave 5 Exit:  
  R526M     cs2fx.location - die- masked
Wave 6 Exit:  
  SA126M    r died- state - masked
Wave 7 Exit:  
  TA126M    r died- state - masked
Wave 8 Exit:  
  UA126M    r died- state - masked
Wave 9 Exit:  
  VA126M    r died- state - masked
Wave 10 Exit:  
  WA126M    r died- state - masked
Wave 11 Exit:  
  XA126M    r died- state - masked
Wave 12 Exit:  
  YA126M    r died- state - masked
### Whether Death was Expected

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<tr>
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<th>Label</th>
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<tbody>
<tr>
<td>0A RADEXPEC</td>
<td>radexpec: r death expected</td>
<td>Categ</td>
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</tbody>
</table>

#### Descriptive Statistics

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#### Categorical Variable Codes

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<td>.m:missing</td>
<td>12</td>
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<tr>
<td>.q:not asked this wave</td>
<td>174</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>1</td>
</tr>
<tr>
<td>1.expected</td>
<td>7349</td>
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<tr>
<td>2.unexpected</td>
<td>5017</td>
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<tr>
<td>3.other</td>
<td>346</td>
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</tbody>
</table>

#### How Constructed:

RADEXPEC indicates whether the respondent's death was expected or unexpected, as reported by the proxy. The proxy is asked, "Was the death expected at about the time it occurred, or was it unexpected?" RADEXPEC is coded as follows: 1.expected, 2.unexpected, 3.other. This question is not asked in HRS wave 2, and so RADEXPEC is coded as special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

#### Cross Wave Differences in HRS

The question on the expectation of death is not asked in HRS wave 2, but is asked in AHEAD wave 2 and HRS wave 3 and onward.

#### HRS Variables Used:

- Wave 2A Exit: N233 cs2jx.expected death?
- Wave 3 Exit: P233 cs2jx.expected death?
- Wave 4 Exit: Q496 cs2jx.expected death?
- Wave 5 Exit: R530 cs2jx.expected death?
- Wave 6 Exit: SA131 death expected/unexpected
- Wave 7 Exit: TA131 death expected/unexpected
- Wave 8 Exit: UA131 death expected/unexpected
- Wave 9 Exit: VA131 death expected/unexpected
- Wave 10 Exit: WA131 death expected/unexpected
- Wave 11 Exit:XA131 death expected/unexpected
- Wave 12 Exit: 
| YA131 | death expected/unexpected |
### Main Cause of Death

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<th>Label</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
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<td>racod_h: disease that caused r's death</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RAGCOD</td>
<td>ragcod: grouped disease that caused r's death</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RACODCNCR</td>
<td>racodcnr: cancer caused r's death</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RACODCRDO</td>
<td>racodcrdo: cardiovascular disease caused r's death</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RACODOTHR</td>
<td>racodothr: other disease caused r's death</td>
<td>Categ</td>
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### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<tr>
<td>RACOD_H</td>
<td>12487</td>
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<td>3.37</td>
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<td>RAGCOD</td>
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### Categorical Variable Codes

#### RACOD_H

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<tbody>
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<td>.m: missing</td>
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<tr>
<td>.n: none</td>
<td>47</td>
</tr>
<tr>
<td>.r: refuse</td>
<td>13</td>
</tr>
<tr>
<td>1. cancers, tumors</td>
<td>3049</td>
</tr>
<tr>
<td>2. skin conditions</td>
<td>19</td>
</tr>
<tr>
<td>3. musculoskeletal system,</td>
<td>144</td>
</tr>
<tr>
<td>4. heart, circulatory, blood</td>
<td>4647</td>
</tr>
<tr>
<td>5. allergies, hayfever, sinu</td>
<td>1423</td>
</tr>
<tr>
<td>6. endocrine, metabolic, nut</td>
<td>435</td>
</tr>
<tr>
<td>7. digestive system (stomach</td>
<td>890</td>
</tr>
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<td>8. neurological, sensory con</td>
<td>262</td>
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<tr>
<td>9. reproductive system, pros</td>
<td>6</td>
</tr>
<tr>
<td>10. emotional, psychological</td>
<td>45</td>
</tr>
<tr>
<td>11. miscellaneous</td>
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</tr>
<tr>
<td>12. other symptoms</td>
<td>529</td>
</tr>
<tr>
<td>13. other health condition</td>
<td>633</td>
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</table>

#### RAGCOD

<table>
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<td>.c: not a health condition</td>
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<tr>
<td>.d: dk</td>
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<tr>
<td>.m: missing</td>
<td>37</td>
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<tr>
<td>.n: none</td>
<td>47</td>
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<tr>
<td>.r: refuse</td>
<td>13</td>
</tr>
<tr>
<td>1. cancer</td>
<td>3049</td>
</tr>
<tr>
<td>2. cardiovascular</td>
<td>4647</td>
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<tr>
<td>3. other</td>
<td>4798</td>
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#### RACODCNCR

<table>
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<td>98</td>
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<tr>
<td>.d: dk</td>
<td>246</td>
</tr>
<tr>
<td>.m: missing</td>
<td>37</td>
</tr>
<tr>
<td>.n: none</td>
<td>46</td>
</tr>
<tr>
<td>.r: refuse</td>
<td>12</td>
</tr>
<tr>
<td>Value ----------------------</td>
<td>RACODCRDO</td>
</tr>
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<td>---------------------------</td>
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<tr>
<td>.c: not a health condition</td>
<td>98</td>
</tr>
<tr>
<td>.d: dk</td>
<td>246</td>
</tr>
<tr>
<td>.m: missing</td>
<td>37</td>
</tr>
<tr>
<td>.n: none</td>
<td>46</td>
</tr>
<tr>
<td>.r: refuse</td>
<td>12</td>
</tr>
<tr>
<td>0. no</td>
<td>7312</td>
</tr>
<tr>
<td>1. yes</td>
<td>5201</td>
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<table>
<thead>
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<td>.d: dk</td>
<td>246</td>
</tr>
<tr>
<td>.m: missing</td>
<td>37</td>
</tr>
<tr>
<td>.n: none</td>
<td>46</td>
</tr>
<tr>
<td>.r: refuse</td>
<td>12</td>
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<td>0. no</td>
<td>6774</td>
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<tr>
<td>1. yes</td>
<td>5739</td>
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</table>

How Constructed:

RACOD_H indicates the respondent's specific main cause of death. The proxy is asked the following open-ended question, "What was the major illness that led to (her/his) death?" The illnesses reported are then recoded and released according to the Health Conditions Master Code by the HRS. Please note that the proxy is able to report 4 major illnesses in HRS wave 2, and in all other waves the proxy is able to report 2 major illnesses that led to the respondent's death, though the majority only report one, and this variable only takes into account the first report of cause of death in all waves. RACOD_H is coded as follows: 1. cancers, tumors; 2. skin conditions; 3. musculoskeletal system, connective tissue conditions; 4. heart, circulatory, blood conditions; 5. allergies, hayfever, sinusitis, tonsillitis; 6. endocrine, metabolic, nutritional conditions; 7. digestive system (stomach, liver, gallbladder, kidney, bladder) conditions; 8. neurological, sensory conditions; 9. reproductive system, prostate conditions; 10. emotional, psychological conditions; 11. miscellaneous; 12. other symptoms; 13. other health condition. RACOD_H is assigned special missing .c if the proxy reports that the respondent's cause of death was not a health condition. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAGCOD indicates the respondent's grouped main cause of death. Please note that the proxy is able to report 4 major illnesses in HRS wave 2, and in all other waves the proxy is able to report 2 major illnesses that led to the respondent's death, though the majority only report one, and this variable only takes into account the first report of cause of death in all waves. RAGCOD is coded as follows: 1. cancer, 2. cardiovascular, 3. other. RAGCOD is coded as 1 if the proxy reports that the respondent died as a result of cancers and tumors. RAGCOD is coded as 2 if the proxy reports that the respondent died as a result of heart, circulatory, and blood conditions. RAGCOD is coded as 3 if the proxy reports that the respondent died as a result of skin conditions, musculoskeletal system and connective tissue conditions; allergies, hayfever, sinusitis, tonsillitis; endocrine, metabolic and nutritional conditions; digestive system (stomach, liver, gallbladder, kidney, bladder) conditions; neurological and sensory conditions; reproductive system and prostate conditions; emotional and psychological conditions; miscellaneous; other symptoms; or other health condition. RAGCOD is assigned special missing .c if the proxy reports that the respondent's cause of death was not a health condition. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RACODCNCR, RACODCRDO, and RACODOTH Boolean variables indicate whether cancer, cardiovascular disease, or other conditions were mentioned as a cause of death. These variables take into account all causes of death reported by the proxy. RACODCNCR is coded as 0 if cancer was not mentioned as a cause of death, and is coded as 1 if cancer was mentioned as a cause of death. RACODCRDO is coded as 0 if cardiovascular disease was not mentioned as a cause of death, and is coded as 1 if cardiovascular disease was mentioned as a cause of death. RACODOTH is coded as 0 if another health condition was not mentioned as a cause of death, and is coded as 1 if another
health condition was mentioned as a cause of death. These other conditions include: skin conditions; musculoskeletal system and connective tissue conditions; allergies, hayfever, sinusitis, tonsillitis; endocrine, metabolic and nutritional conditions; digestive system (stomach, liver, gallbladder, kidney, bladder) conditions; neurological and sensory conditions; reproductive system and prostate conditions; emotional and psychological conditions; miscellaneous; other symptoms; or other health condition. RACODCNCR, RACODCRDO, and RACODOTHR are assigned special missing .c if the proxy reports that the respondent's cause of death was not a health condition. RACODCNCR, RACODCRDO, and RACODOTHR are assigned special missing .n if the proxy reports that the respondent's cause of death was "none". Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

The proxy is able to report 4 major illnesses in HRS wave 2 (although a maximum of 3 was reported), and in all other waves the proxy is able to report 2 major illnesses that led to the respondent's death.

HRS wave 2 uses a different coding system for causes of death than all of the following waves. The values of this variable have been assigned codes corresponding to the appropriate group. For more information on how causes of death are assigned values, please see "Health and Retirement Study 2006 Exit, Final, Version 1.0 October 2008: Data Description and Usage".

HRS Variables Used:

Wave 2 Exit:
- W6867          s17.cause of death    :1
- W6868          s17.cause of death    :2
- W6869          s17.cause of death    :3

Wave 2A Exit:
- N234M1M  cause of death - masked
- N234M2M  cause of death - masked

Wave 3 Exit:
- P234M1M  cs2kx.cause of death - masked
- P234M2M  cs2kx.cause of death - masked

Wave 4 Exit:
- Q497M1M  cs2kx. cause of death - masked -1
- Q497M2M  cs2kx. cause of death - masked -2

Wave 5 Exit:
- R531M1M  cs2kx. cause of death- 1- masked
- R531M2M  cs2kx. cause of death- 2- masked

Wave 6 Exit:
- SA133M1M  cause of death-masked- 1
- SA133M2M  cause of death-masked- 2

Wave 7 Exit:
- TA133M1M  cause of death-masked- 1
- TA133M2M  cause of death-masked- 2

Wave 8 Exit:
- UA133M1M  cause of death-masked- 1
- UA133M2M  cause of death-masked- 2

Wave 9 Exit:
- VA133M1M  cause of death-masked- 1
- VA133M2M  cause of death-masked- 2

Wave 10 Exit:
- WA133M1M  cause of death-masked- 1
- WA133M2M  cause of death-masked- 2

Wave 11 Exit:
- XA133M1M  cause of death-masked- 1
- XA133M2M  cause of death-masked- 2

Wave 12 Exit:
- YA133M1M  cause of death-masked- 1
- YA133M2M  cause of death-masked- 2
### Duration of Final Illness

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA RADDUR</td>
<td>raddur: r duration final illness/death</td>
<td>Categ</td>
</tr>
</tbody>
</table>

#### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADDUR</td>
<td>12347</td>
<td>4.10</td>
<td>1.56</td>
<td>1.00</td>
<td>6.00</td>
</tr>
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</table>

#### Categorical Variable Codes

<table>
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<th>Value</th>
<th>RADDUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>.d:dk</td>
<td>240</td>
</tr>
<tr>
<td>.m:missing</td>
<td>12</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>174</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>9</td>
</tr>
<tr>
<td>.s:skipped</td>
<td>170</td>
</tr>
<tr>
<td>1.no warning, 1-2 hrs</td>
<td>1207</td>
</tr>
<tr>
<td>2.less than 1 day</td>
<td>835</td>
</tr>
<tr>
<td>3.less than 1 week</td>
<td>2013</td>
</tr>
<tr>
<td>4.less than 1 month</td>
<td>2424</td>
</tr>
<tr>
<td>5.less than 1 year</td>
<td>3186</td>
</tr>
<tr>
<td>6.more than 1 year</td>
<td>2682</td>
</tr>
</tbody>
</table>

#### How Constructed:

RADDUR indicates the duration of the respondent's final illness. The proxy is asked, "About how long was it between the start of the final illness and the death?" RADDUR is coded as follows: 1.no warning, 1-2 hrs, 2.less than 1 day, 3.less than 1 week, 4.less than 1 month, 5.less than 1 year, 6.more than 1 year. This question is asked starting in HRS wave 3 or AHEAD wave 2 (both considered wave 3 in this dataset), so RADDUR for HRS wave 2 is assigned special missing .q. Only in HRS wave 3, this question is not asked if the proxy reports that the respondent had no other major illnesses since the previous interview before death, in which case RADDUR is assigned special missing .s. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

#### Cross Wave Differences in HRS

The duration of the final illness that led to death is asked starting in HRS wave 3 or AHEAD wave 2.

Only in HRS wave 3, this question is not asked if the proxy reports that the respondent had no other major illnesses since the previous interview before death. These wave 3 cases have been coded with special missing .s, as the question was skipped in this wave.

#### HRS Variables Used:

Wave 2 Exit:
- W6855 s10.ill >3 months

Wave 2A Exit:
- N235 cs2mx.time to death

Wave 3 Exit:
- P235 cs2nx.illnesses
- P237 cs2mx.time to death

Wave 4 Exit:
- Q500 cs2mx.time to death

Wave 5 Exit:
- R532 cs2mx.time to death
Wave 6 Exit: SA134 duration final illness/death
Wave 7 Exit: TA134 duration final illness/death
Wave 8 Exit: UA134 duration final illness/death
Wave 9 Exit: VA134 duration final illness/death
Wave 10 Exit: WA134 duration final illness/death
Wave 11 Exit: XA134 duration final illness/death
Wave 12 Exit: YA134 duration final illness/death
### Relationship Status at Death

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<th>Label</th>
<th>Type</th>
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<tbody>
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<td>radmarr: r married at death</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADMARRP</td>
<td>radmarrp: r married/partnered at death</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RASMSPOUS</td>
<td>rasmspous: r whether same spouse/partner as previous wave</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RASPALIV</td>
<td>raspaliv: r whether previous wave spouse/partner is alive</td>
<td>Categ</td>
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</tbody>
</table>

#### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<td>0.49</td>
<td>0.00</td>
<td>1.00</td>
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<td>RADMARRP</td>
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<td>0.50</td>
<td>0.00</td>
<td>1.00</td>
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<tr>
<td>RASMSPOUS</td>
<td>5954</td>
<td>0.93</td>
<td>0.25</td>
<td>0.00</td>
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<td>RASPALIV</td>
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<td>0.94</td>
<td>0.23</td>
<td>0.00</td>
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#### Categorical Variable Codes

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<tr>
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</tr>
<tr>
<td>.u:unmarried/unpartnered</td>
<td>6809</td>
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<tr>
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<td>390</td>
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<tr>
<td>1.yes</td>
<td>5564</td>
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<table>
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</tr>
<tr>
<td>.q:not asked this wave</td>
<td>174</td>
</tr>
<tr>
<td>.u:unmarried/unpartnered</td>
<td>6809</td>
</tr>
<tr>
<td>0.no</td>
<td>341</td>
</tr>
<tr>
<td>1.yes</td>
<td>5564</td>
</tr>
</tbody>
</table>

#### How Constructed:

RADMARR indicates whether the respondent was married at the time of their death. RADMARRP indicates whether the respondent was married or partnered at the time of their death. In HRS wave 2, RADMARR and RADMARRP are taken from a single question ascertaining the respondent's relationship status at death. Starting in HRS wave 3 and AHEAD wave 2, RADMARR and RADMARRP are taken from several questions ascertaining the respondent's relationship status at death. RADMARR and RADMARRP are coded as 0 if the respondent was not married or married/partnered, respectively, at the time of their death. RADMARR and RADMARRP are coded as 1 if the proxy reports that the respondent was married or married/partnered, respectively, at the time of their death in at least one of the questions concerning relationship status. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.
RASMSPOUS indicates whether the respondent's spouse/partner at death was the same spouse as in the previous core wave. Starting in HRS wave 3 and AHEAD wave 2, this information is taken from a direct question asking whether the spouse/partner from the previous wave was still the respondent's spouse/partner at death. RASMSPOUS is coded as 0 if the respondent's spouse/partner at death was not the same spouse/partner as in the previous core wave. RASMSPOUS is coded as 1 if the respondent's spouse/partner at death was the same spouse/partner as in the previous core wave. RASMSPOUS is assigned special missing .u if the respondent was not married or partnered at the previous interview in all other waves. This question is not asked directly in HRS wave 2 and so is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RASPALIV indicates whether the respondent's spouse/partner from the previous core wave was still alive at the time of the respondent's death. Starting in HRS wave 3 and AHEAD wave 2, this information is taken from a direct question asking whether the spouse/partner from the previous wave was still living at the time of the respondent's death. RASPALIV is coded as 0 if the respondent's spouse/partner was no longer alive at the time of the respondent's death. RASPALIV is coded as 1 if the respondent's spouse/partner was still alive at the time of the respondent's death. RASPALIV is assigned special missing .u if the respondent was not married or partnered in the previous core wave. This question is not asked directly in HRS wave 2 and so is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, a single question is asked to ascertain the respondent's relationship status at death. Starting in HRS wave 3 and AHEAD wave 2, several questions are asked to ascertain the respondent's relationship status at death. Starting in wave 4, these questions are combined to form a variable of coupleness status within the CAPI module, and this variable is used to assign values for RADMARR and RADMARRP in wave 4 and onward.

In HRS wave 2, questions determining whether the previous spouse/partner was still the respondent's spouse/partner at the time of death, and whether the respondent's spouse/partner from the previous wave was still living at the time of the respondent's death are not asked. In all other waves, direct questions are asked to the proxy to ascertain this information.

In HRS waves 3 and 4 and AHEAD wave 2, the proxy is only asked if the spouse was still living if the respondent had no longer been married or partnered to their previous wave spouse/partner, which has been taken into account for the coding of this variable.

HRS Variables Used:

Wave 2 Exit:
AMARSTAT       1992 marital status
W200           a1. marital status
W201           a2. marriage start after

Wave 2A Exit:
N240           cs4x.r same sp/p
N241           cs5x.sp/p alive
N244           cs7x.w1 couple new sp
N245           cs8x.w1 couple partner
N247           cs9x.w1 only new sp
N248           cs10x.w1 only new partner

Wave 3 Exit:
P240           cs4x.r same sp/p
P241           cs5x.sp/p alive
P244           cs7x.w1 couple new sp
P245           cs8x.w1 couple partner
P247           cs9x.w1 only new sp
P248           cs10x.w1 only new partner

Wave 4 Exit:
Q36           r marital stat
Q506 cs5x.preload spouse/p alive
Q548 cs15d.current coupleness

Wave 5 Exit:
R178 pr178.virgin r coupleness
R543 cs4x.1st r same spouse/p
R545 cs5x.preload spouse/p alive
R597 cs15d.current coupleness

Wave 6 Exit:
SA020 1st r same sp/p
SA023 previous wave sp/p alive
SA038 current coupleness
SA206 R prev wave coupleness status r

Wave 7 Exit:
TA020 1st r same sp/p
TA023 previous wave sp/p alive
TA038 current coupleness
T2066 R coupleness status r

Wave 8 Exit:
UA020 1st r same sp/p
UA023 previous wave sp/p alive
UA038 current coupleness
U2066 R coupleness status r

Wave 9 Exit:
YA020 1st r same sp/p
YA023 previous wave sp/p alive
YA038 current coupleness
Y2066 R coupleness status r

Wave 10 Exit:
WA020 1st r same sp/p
WA023 previous wave sp/p alive
WA038 current coupleness
W2066 R coupleness status r

Wave 11 Exit:
XA020 1st r same sp/p
XA023 previous wave sp/p alive
XX2065 R coupleness status r - updated
X2066 R coupleness status r

Wave 12 Exit:
YA020 1st r same sp/p
YA023 previous wave sp/p alive
Y2065 R coupleness status r - updated
Y2066 R coupleness status r
### Living Location Prior to Death

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<tr>
<td>OA RADLIVNH</td>
<td>radlivnh: r whether lived in nursing home prior to death</td>
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<tr>
<td>OA RAMVHLP</td>
<td>ramvlp: r moved into someone's house for help</td>
<td>Categ</td>
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<tr>
<td>OA RALVHLP</td>
<td>ralvlp: # weeks r lived in other person's home</td>
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<tr>
<td>OA RALVHLPD</td>
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#### Descriptive Statistics

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<td>5.more than 1 year</td>
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#### How Constructed:

RADLIVNH indicates whether the respondent was living in a nursing home or other health care facility at the time of their death. RADLIVNH is coded as follows: 0.no, 1.yes, nursing home, 2.yes, hospice. RADLIVNH is coded as 0 if the respondent was not living in a nursing home or other health care facility at the time of their death. RADLIVNH is coded as 1 if the respondent was living in a nursing home or other long term care facility at the time of their death. RADLIVNH is coded as 2 if the respondent was living in a hospice facility at the time of their death. In wave 10, the proxy is only asked whether the respondent lived in a nursing home, hospice is not an option and no instructions are given for the interviewer in the event that the proxy reports that the respondent lived in a hospice facility. Starting in wave 11, the proxy is only asked whether the respondent lived in a nursing home and the interviewer is given instructions to code the answer as "no" if the respondent was receiving hospice care. This question is not asked in HRS wave 2, and so RADLIVNH is assigned special missing .q in
this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAMVHLP indicates whether the respondent moved into and then out of someone else's house or apartment since the last interview or in the two years preceding death. RAMVHLP is coded as 0 if the respondent did not move into and then out of someone else's house or apartment since the last interview, RAMVHLP is coded as 1 if the respondent did move into and then out of someone else's house or apartment since the last interview. This question is not asked in HRS wave 2, and so RAMVHLP is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RALVHLP indicates how many weeks the respondent lived in someone else's house or apartment since the last interview or in the two years preceding death. This information is originally collected in either weeks or months, and the month values have been multiplied by 4.3 and rounded to the nearest whole number to provide the value in weeks in RALVHLP. RALVHLPD indicates the amount of time the respondent lived in someone else's house or apartment since the last interview, and is a categorized version of RALVHLP. RALVHLPD is coded as follows: 3.less than 1 month, 4.less than 1 year, 5.more than 1 year. RALVHLPD is coded as 2 if the respondent spent 0 weeks living in someone else's house. RALVHLPD is coded as 3 if the respondent spent 1 to 4 weeks living in someone else's house. RALVHLPD is coded as 4 if the respondent spent 5 to 51 weeks living in someone else's house. RALVHLPD is coded as 5 if the respondent spent 52 or more weeks living in someone else's house. RALVHLP and RALVHLPD are assigned special missing .x if the respondent did not move into and then out of someone else's house or apartment in the two years preceding death. This question is not asked in HRS wave 2, and so RALVHLP and RALVHLPD are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

Questions pertaining to whether the respondent lived in a nursing home or hospice facility at the time of death, whether the respondent moved into and then out of someone else's house or apartment in the two years preceding death, and how long the respondent lived in someone else's house or apartment are not asked in HRS wave 2. These questions are asked starting in HRS wave 3 and AHEAD wave 2 (both considered wave 3 in this dataset), and onward.

When asked if the respondent lived in a nursing home at the time of death, the proxy has an option of saying that the respondent lived in a hospice facility in AHEAD wave 2 and HRS waves 3 through 9. In wave 10, the proxy is only asked whether the respondent lived in a nursing home, hospice is not an option and no instructions are given for the interviewer in the event that the proxy reports that the respondent lived in a hospice facility. Starting in wave 11, the proxy is only asked whether the respondent lived in a nursing home and the interviewer is given instructions to code the answer as "no" if the respondent was receiving hospice care.

Please note that up to and including wave 11 questions asks about receiving care in a hospice facility, whereas starting in wave 12 questions are asked about receiving hospice care in an alternative location.

HRS Variables Used:

Wave 2A Exit:
- N249 cs11.r-where live
- N588 cs52x.r moved in
- N594 cs53cx.weeks/months stay
- N595 cs53cax.weeks/months

Wave 3 Exit:
- P249 cs11.r-where live
- P606 cs52x.r moved in
- P612 cs53cx.weeks/months stay
- P613 cs53cax.weeks/months

Wave 4 Exit:
- Q519 cs11.r in nursing home
Q912  cs52x.r moved in
Q918  cs53cx.time stayed
Q919  cs53cax.weeks/months

Wave 5 Exit:
R1002  cs53cx.weeks/months stay
R1003  cs53cax.weeks/months
R558   cs11.r in nursing home
R996   cs52x.r moved in

Wave 6 Exit:
SA028   r in nursing home
SA142   r move in/out before death
SA146   duration r stayed w/ child
SA147   duration r stayed w/ child- period

Wave 7 Exit:
TA142   r move in/out before death
TA146   duration r stayed w/ child
TA147   duration r stayed w/ child- period
TA167   r in nursing home

Wave 8 Exit:
UA142   r move in/out before death
UA146   duration r stayed w/ child
UA147   duration r stayed w/ child- period
UA167   r in nursing home

Wave 9 Exit:
VA142   ex r moved in
VA146   ex r stay with person how many weeks/months
VA147   ex r stay with person unit how many weeks/months
VA167   r in nursing home

Wave 10 Exit:
WA028   r in nursing home
WA142   ex r moved in
WA146   ex r stay with person how many weeks/months
WA147   ex r stay with person unit how many weeks/months

Wave 11 Exit:
XA028   r in nursing home
XA142   ex r moved in
XA146   ex r stay with person how many weeks/months
XA147   ex r stay with person unit how many weeks/months

Wave 12 Exit:
YA028   r in nursing home
YA142   ex r moved in
YA146   ex r stay with person how many weeks/months
YA147   ex r stay with person unit how many weeks/months
Section B: Health
Doctor Diagnosed Conditions: Cancer

Wave Variable | Label                                                        | Type
--- | --- | ---
OA RALCANCRE | ralcancre: r ever had cancer as of last ivw | Categ
OA RAXCANCRF | raxcancrf: r dispute flag previous cancer | Categ
OA RAXCANCR | raxcancr: r new report of cancer since last ivw | Categ
OA RAXCANCRE | raxcancre: r ever had cancer in lifetime | Categ

Descriptive Statistics

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<tr>
<th>Variable</th>
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<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
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Categorical Variable Codes

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.m:missing                 | 21
.r:refuse                  | 2
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1.yes                      | 3275
Value----------------------| RAXCANCRF
.q:not asked this wave     | 174
0.no dispute               | 12630
1.disp prv wv, did have   | 13
2.disp prv wv, did not have| 135
Value----------------------| RAXCANCR
.d:dk                     | 107
.m:missing                 | 4
.r:refuse                  | 3
0.no                       | 11238
1.yes                      | 1600
Value----------------------| RAXCANCRE
.d:dk                     | 105
.r:refuse                  | 2
0.no                       | 7963
1.yes                      | 4882

How Constructed:

RALCANCRE indicates whether the deceased respondent had ever been told by a doctor that he/she had cancer or a malignant tumor, excluding minor skin cancer, in his/her last completed core interview. RALCANCRE is based on RwCANCRE in the RAND HRS and is taken from the last core wave completed. RALCANCRE is coded as 0 if the respondent reported never having been diagnosed with cancer, and is coded as 1 if the respondent reported being diagnosed with cancer. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXCANCRF indicates whether the exit interview proxy disputes the respondent's previous report of a cancer diagnosis. RAXCANCRF is coded as 0 if the proxy did not dispute the
respondent's previous report of a cancer diagnosis. RAXCANCREF is coded as 1 if the proxy disputes the previous report of a cancer diagnosis, but reports that the respondent did have cancer since the last interview. RAXCANCREF is coded as 2 if the proxy disputes the previous report of a cancer diagnosis and reports that the respondent did not have cancer. RAXCANCREF is coded as special missing .q in HRS wave 2 because the proxy was not able to dispute the previous report's diagnosis. In AHEAD wave 2 and HRS waves 3 and 4 the proxy can only dispute the previous report of a cancer diagnosis by reporting that the respondent did not have cancer. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note that the dispute of a previously reported cancer diagnosis does not impact values for RwCANCRE in the RAND HRS or RALCANCRE in the Harmonized HRS End of Life.

RAXCANCNCR indicates whether the respondent was diagnosed with cancer between the last completed core interview and the respondent's exit interview. RAXCANCNCR is coded as 0 if the respondent had never been diagnosed with cancer from his/her last completed core wave or from the exit interview, or if the respondent had ever been diagnosed with cancer in his/her last completed core wave. RAXCANCNCR is coded as 1 if the respondent had never been diagnosed with cancer from his/her last completed core wave and the proxy reports a cancer diagnosis for the respondent in the exit interview. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXCANCNCRE indicates whether the deceased respondent had ever been told by a doctor that he/she had cancer or a malignant tumor, excluding minor skin cancer, as reported by the proxy in the HRS exit interview. RAXCANCNCRE is based on questions asked to the proxy in the exit interview, and carries forward positive responses from RALCANCRE. RAXCANCNCRE is coded as 0 if the proxy reports that the respondent never had cancer, or if, starting in HRS wave 3 and AHEAD wave 2, the proxy reports that the respondent's previous report of cancer was incorrect and the respondent did not have cancer. RAXCANCNCRE is coded as 1 if the proxy reports that the respondent had cancer, or if, starting in wave 5, the proxy reports that the respondent's previous report of cancer was incorrect but the respondent did have cancer. We assume that the respondent has better knowledge of their health history than a proxy, and so RAXCANCNCRE is coded as 1 if RALCANCNCRE is coded as 1, regardless of the response from the exit interview proxy. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not able to dispute the previous report of a cancer diagnosis. In AHEAD wave 2 and HRS waves 3 and 4, the proxy is only able to dispute the previous positive report of a cancer diagnosis, and report that the respondent did not have cancer in previous waves. These differences impact the coding of RAXCANCREF, RAXCANCNCR, and RAXCANCNCRE for these waves.

For any differences in the construction of RwCANCRE, which is used to create RALCANCRE, please see "Doctor diagnosed health problems: Ever Have Condition" in the RAND HRS Longitudinal File codebook.

HRS Variables Used:

RAND HRS:

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### Doctor Diagnosed Conditions: Lung Disease

**Wave Variable**  
**Label**  
| 0A RALLUNGE | rallunge: r ever had lung disease as of last ivw | Categ |
| 0A RAXLUNGF | raxlungf: r dispute flag previous lung disease | Categ |
| 0A RAXLUNG | raxlung: r new report of lung disease since last ivw | Categ |
| 0A RAXLUNGE | raxlunge: r ever had lung disease in lifetime | Categ |

#### Descriptive Statistics

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#### How Constructed:

RALLUNGE indicates whether the deceased respondent had ever been told by a doctor that he/she had chronic lung disease, such as chronic bronchitis or emphysema, in his/her last completed core interview. RALLUNGE is based on RwLUNGE in the RAND HRS and is taken from the last core wave completed. RALLUNGE is coded as 0 if the respondent reported never having been diagnosed with chronic lung disease, and is coded as 1 if the respondent reported being diagnosed with chronic lung disease. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXLUNGF indicates whether the exit interview proxy disputes the respondent's previous report of a chronic lung disease diagnosis. RAXLUNGF is coded as 0 if the proxy did not dispute the
respondent's previous report of a chronic lung disease diagnosis. RAXLUNGF is coded as 1 if the proxy disputes the previous report of a chronic lung disease diagnosis, but reports that the respondent did have chronic lung disease since the last interview. RAXLUNGF is coded as 2 if the proxy disputes the previous report of a chronic lung disease diagnosis and reports that the respondent did not have chronic lung disease. RAXLUNGF is coded as special missing .q in HRS wave 2 because the proxy was not able to dispute the previous wave's report. In AHEAD wave 2 and HRS waves 3 and 4 the proxy can only dispute the previous report of a cancer diagnosis by reporting that the respondent did not have a chronic lung disease diagnosis. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note that the dispute of a previously reported chronic lung disease diagnosis does not impact values for RwLUNGE in the RAND HRS, or for RALLUNGE in the Harmonized HRS End of Life.

RAXLUNG indicates whether the respondent was diagnosed with chronic lung disease between the last completed core interview and the respondent's exit interview. RAXLUNG is coded as 0 if the respondent had never been diagnosed with chronic lung disease from his/her last completed core wave or from the exit interview, or if the respondent had ever been diagnosed with chronic lung disease in his/her last completed core wave. RAXLUNG is coded as 1 if the respondent had never been diagnosed with chronic lung disease from his/her last completed core wave and the proxy reports a chronic lung disease diagnosis for the respondent in the exit interview. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXLUNGE indicates whether the deceased respondent had ever been told by a doctor that he/she had chronic lung disease, such as chronic bronchitis or emphysema, as reported by the proxy. RAXLUNGE is based on questions asked to the proxy in the exit interview, and carries forward positive responses from RALLUNGE. RAXLUNGE is coded as 0 if the proxy reports that the respondent never had chronic lung disease, or if, starting in HRS wave 3 and AHEAD wave 2, the proxy reports that the respondent's previous report of chronic lung disease was incorrect and the respondent did not have chronic lung disease. RAXLUNGE is coded as 1 if the proxy reports that the respondent had chronic lung disease, or if, starting in wave 5, the proxy reports that the respondent's previous report of chronic lung disease was incorrect but the respondent did have chronic lung disease. We assume that the respondent has better knowledge of their health history than a proxy, and so RAXLUNGE is coded as 1, regardless of the response from the exit interview proxy. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not able to dispute the previous report of a chronic lung disease diagnosis. In AHEAD wave 2 and HRS waves 3 and 4, the proxy is only able to dispute the previous positive report of a chronic lung disease diagnosis, and report that the respondent did not have chronic lung disease in previous waves. These differences impact the coding of RAXLUNGF, RAXLUNG, and RAXLUNGE for these waves.

For any differences in the construction of RwLUNGE, which is used to create RALLUNGE, please see "Doctor diagnosed health problems: Ever Have Condition" in the RAND HRS Longitudinal File codebook.

HRS Variables Used:

RAND HRS:

- **R10LUNGE**: r10lunge:w10 r ever had lung disease
- **R11LUNGE**: r11lunge:w11 r ever had lung disease
- **R1LUNGE**: r1lunge:w1 r ever had lung disease
- **R2LUNGE**: r2lunge:w2 r ever had lung disease
- **R3LUNGE**: r3lunge:w3 r ever had lung disease
- **R4LUNGE**: r4lunge:w4 r ever had lung disease
- **R5LUNGE**: r5lunge:w5 r ever had lung disease
- **R6LUNGE**: r6lunge:w6 r ever had lung disease
- **R7LUNGE**: r7lunge:w7 r ever had lung disease
R8LUNGE r8lunge:w8 r ever had lung disease
R9LUNGE r9lunge:w9 r ever had lung disease
Wave 2 Exit: W362 bl14.chronic lung disease
Wave 2A Exit: N818 b6.lung
Wave 3 Exit: P805 b6. lung
Wave 4 Exit: Q1146 b6. lung
Wave 5 Exit: R1191 b6. lung
Wave 6 Exit: SC030 lung disease
Wave 7 Exit: TC030 lung disease
Wave 8 Exit: UC030 lung disease
Wave 9 Exit: VC030 lung disease
Wave 10 Exit: WC030 lung disease
Wave 11 Exit: XC030 lung disease
Wave 12 Exit: YC030 lung disease
Doctor Diagnosed Conditions: Heart Conditions

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.q:not asked this wave | 9080
.r:refuse              | 3
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1.yes                  | 1137

How Constructed:

RALHEARTE indicates whether the deceased respondent had ever been told by a doctor that he/she had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems, in his/her last completed core interview. RALHEARTE is based on RwHEARTE in the RAND HRS and is taken from the last core wave completed. RALHEARTE is coded as 0 if the respondent reported never having been diagnosed with heart problems, and is coded as 1 if the respondent reported being diagnosed with heart problems. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHEARTF indicates whether the exit interview proxy disputes the respondent's previous report of heart problems. RAXHEARTF is coded as 0 if the proxy did not dispute the respondent's previous report of heart problems. RAXHEARTF is coded as 1 if the proxy disputes the previous report of heart problems, but reports that the respondent did have heart problems since the last interview. RAXHEARTF is coded as 2 if the proxy disputes the previous report of heart problems and reports that the respondent did not have heart problems. RAXHEARTF is coded as special missing .q in HRS wave 2 because the proxy was not able to dispute the previous wave's report. In AHEAD wave 2 and HRS waves 3 and 4 the proxy can only dispute the previous report of heart problems by reporting that the respondent did not have heart problems. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note that the dispute of previously reported heart problems does not impact values for RwHEARTE in the RAND HRS or for RALHEARTE in the Harmonized HRS End of Life.

RAXHEART indicates whether the respondent was diagnosed with heart problems between the last completed core interview and the respondent's exit interview. RAXHEART is coded as 0 if the respondent had never been diagnosed with heart problems from his/her last completed core wave or from the exit interview, or if the respondent had ever been diagnosed with heart problems in his/her last completed core wave. RAXHEART is coded as 1 if the respondent had never been diagnosed with heart problems from his/her last completed core wave and the proxy reports a diagnosis of a heart problem for the respondent in the exit interview. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHEARTE indicates whether the deceased respondent had ever been told by a doctor that he/she had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems, as reported by the proxy. RAXHEARTE is coded as 0 if the proxy reports that the respondent never had heart problems, or if, starting in HRS wave 3 and AHEAD wave 2, the proxy reports of diagnoses preloaded for the exit interview, and carries forward positive responses from RALHEARTE. RAXHEARTE is coded as 1 if the proxy reports that the respondent did not have heart problems. RAXHEARTE is coded as 1 if the proxy reports that the respondent had heart problems, or if, starting in wave 5, the proxy reports that the respondent's previous report of heart problems was incorrect but the respondent did have heart problems. We assume that the respondent has better knowledge of their health history than a proxy, and so RAXHEARTE is coded as 1 if RALHEARTE is coded as 1, regardless of the response from the exit interview proxy. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHRTATT indicates whether the deceased respondent had a heart attack or myocardial infarction since the last interview or in the last two years before death, as reported by the proxy. RAXHRTATT is based on questions asked to the proxy and reports of diagnoses preloaded for the exit interview, and does not consider RwHRTATT in the Harmonized HRS. RAXHRTATT is coded as 0 if the proxy reports that the respondent did not have a heart attack or myocardial infarction since the last interview or in the last two years before death. RAXHRTATT is coded
as 1 if the proxy reports that the respondent did have a heart attack or myocardial
infarction since the last interview or in the last two years before death. In all waves, this
question is not asked if the respondent had no heart problems, in which case RAXHRTATT is
coded as 0. In waves 4 and onward, this question is also not asked if the respondent had
heart problems but was not taking or carrying medication for a heart problem or had not seen
a doctor for his/her heart problem since the last interview or in the last two years before
death, in which case RAXHRTATT is coded as 0. In waves 10 and onward, this question is also
not asked if the proxy reported that the respondent never had a heart attack, in which case
RAXHRTATT is coded as 0. In waves 10 and onward, this question is also not asked if the proxy
reported that the respondent had a heart attack and his/her first heart attack occurred
between the previous interview date and the exit interview, in which case RAXHRTATT is coded
as 1. Don't know, refused, or other missing responses are assigned special missing .d, .r,
.m, respectively.

RAXHRTATTE indicates whether the deceased respondent had ever been told by a doctor that
he/she had a heart attack. RAXHRTATTE is based on questions asked to the proxy, reports of
diagnoses preloaded for the exit interview, and RwHRTATT and RwHRTATTE in the Harmonized HRS.
This question is not added to the HRS exit interview until wave 10. Starting in wave 10 of
the exit interview, the proxy is asked whether the respondent ever had a heart attack if the
proxy reported that the respondent ever had heart problems. RAXHRTATTE is coded as 0 if
the proxy reports that the respondent had never been diagnosed with a heart attack or never
had heart problems. RAXHRTATTE is coded as 1 if the proxy reports that the respondent had
ever been diagnosed with a heart attack, or if the proxy reports that the respondent had a
heart attack since the last interview or in the last two years before death. We assume that
the respondent has better knowledge of their health history than a proxy, and so RAXHRTATTE
is coded as 1 if the respondent had given a positive answer to ever having been diagnosed
with a heart attack or being diagnosed with a heart attack since their last interview in a
core interview (RwHRTATTE and RwHRTATT in the Harmonized HRS). RAXHRTATTE is assigned special
missing .q in waves 2 through 9, when this question is not asked as part of the exit
interview. Don't know, refused, or other missing responses are assigned special missing .d,
.r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not able to dispute the previous report of heart problems. In
AHEAD wave 2 and HRS waves 3 and 4, the proxy is only able to dispute the previous positive
report of heart problems, and report that the respondent did not have cancer in previous
waves. These differences impact the coding of RAXHEARTF, RAXHEART, and RAXHEARTE for these
waves.

In all waves, whether the respondent had a heart attack since the last interview or in the
last two years before death is not asked if the respondent had no heart problems. In waves 4
and onward, this question is also not asked if the respondent had heart problems but was not
taking or carrying medication for a heart problem or had not seen a doctor for his/her heart
problem since the last interview or in the last two years before death. For both cases,
RAXHRTATT is set to 0.

In waves 2 through 9 of the HRS Exit interview, proxies are only asked if the respondent had
a heart attack since the last interview or in the last two years before death. Starting in
wave 10 of the HRS Exit interview, proxies are first asked whether the respondent had ever
had a heart attack, and if so, then asked the month and year of the first heart attack, and
then asked whether they had a heart attack since the last interview or in the last two years
before death. If the proxy reported that the respondent had never had a heart attack,
RAXHRTATT is set to 0. If the proxy reported that the respondent had ever had a heart attack
and his/her first heart attack occurred between the previous interview date and the exit
interview, then the proxy is not asked if the respondent had a heart attack since the last
interview or in the last two years before death and RAXHRTATT is set to 1.

In the core HRS interviews, respondents are asked whether they have ever had a heart attack
in waves 1, 2 and starting in wave 10, and they are asked whether they have had a heart
attack in the last two years or since the last interview starting in wave 2.
For any differences in the construction of RwHEARTE, which is used to create RALHEARTE, please see "Doctor diagnosed health problems: Ever Have Condition" in the RAND HRS Longitudinal File codebook.

For any differences in the construction of RwHRTATT or RwHRTATTE, which are used in the construction of RAXHRTATTE, please see "Doctor Diagnosed Diseases: Diagnosed Since Last Wave" and "Doctor Diagnosed Diseases: Ever Diagnosed", respectively, in the Harmonized HRS codebook.

HRS Variables Used:

RAND HRS:
- R10HEARTE r10hearte:w10 r ever had heart problems
- R11HEARTE r11hearte:w11 r ever had heart problems
- R1HEARTE r1hearte:w1 r ever had heart problems
- R2HEARTE r2hearte:w2 r ever had heart problems
- R3HEARTE r3hearte:w3 r ever had heart problems
- R4HEARTE r4hearte:w4 r ever had heart problems
- R5HEARTE r5hearte:w5 r ever had heart problems
- R6HEARTE r6hearte:w6 r ever had heart problems
- R7HEARTE r7hearte:w7 r ever had heart problems
- R8HEARTE r8hearte:w8 r ever had heart problems
- R9HEARTE r9hearte:w9 r ever had heart problems

_H_HRS:
- R10HRTATT r10hrtatt:w10 r reports heart attack this wave
- R10HRTATTE r10hrtatte:w10 r ever had heart attack
- R11HRTATT r11hrtatt:w11 r reports heart attack this wave
- R11HRTATTE r11hrtatte:w11 r ever had heart attack
- R1HRTATTE r1hrtatte:w1 r ever had heart attack
- R2HRTATT r2hrtatt:w2 r reports heart attack this wave
- R2HRTATTE r2hrtatte:w2 r ever had heart attack
- R3HRTATT r3hrtatt:w3 r reports heart attack this wave
- R4HRTATT r4hrtatt:w4 r reports heart attack this wave
- R5HRTATT r5hrtatt:w5 r reports heart attack this wave
- R6HRTATT r6hrtatt:w6 r reports heart attack this wave
- R7HRTATT r7hrtatt:w7 r reports heart attack this wave
- R8HRTATT r8hrtatt:w8 r reports heart attack this wave
- R9HRTATT r9hrtatt:w9 r reports heart attack this wave

Wave 2 Exit:
- W367 b15.heart problems ever
- W368 b15.heart conditions
- W369 b15a.heart attack/myocar

Wave 2A Exit:
- N828 b7.heart condition
- N834 b7d.heart attack

Wave 3 Exit:
- P815 b7. heart condition
- P821 b7d. heart attack

Wave 4 Exit:
- Q1156 b7. heart condition
- Q1157 b7a. heart medication
- Q1158 b7b. heart seen dr
- Q1162 b7d. heart attack

Wave 5 Exit:
- R1201 b7. heart condition
- R1202 b7a. heart medication
- R1203 b7b. heart seen dr
- R1207 b7d. heart attack

Wave 6 Exit:
- SC036 heart condition
- SC037 heart medication
- SC038 has r seen heart doctor
- SC040 heart attack
Wave 7 Exit:
TC036          heart condition
TC037          heart medication
TC038          has r seen heart doctor
TC040          heart attack
Wave 8 Exit:
UC036          heart condition
UC037          heart medication
UC038          has r seen heart doctor
UC040          heart attack
Wave 9 Exit:
VC036          heart condition
VC037          heart medication
VC038          has r seen heart doctor
VC040          heart attack
Wave 10 Exit:
WC036          heart condition
WC037          heart medication
WC038          has r seen heart doctor
WC040          heart attack
WC257          ever had heart attack
WC258          year first had heart attack
WC293          prev wave iw year
Wave 11 Exit:
XC036          heart condition
XC037          heart medication
XC038          has r seen heart doctor
XC040          heart attack
XC257          ever had heart attack
XC258          year first had heart attack
XC293          prev wave iw year
Wave 12 Exit:
YC036          heart condition
YC037          heart medication
YC038          has r seen heart doctor
YC040          heart attack
YC257          ever had heart attack
YC258          year first had heart attack
YZ093          prev wave iw year
Doctor Diagnosed Conditions: Stroke

Wave Variable      Label                                                         Type
0A  RALSTROKE     ralstroke: r ever had stroke as of last ivw                   Categ
0A  RAXSTROKF     raxstrokf: r dispute flag prev wave stroke                    Categ
0A  RAXSTROK      raxstrok: r new report of stroke since last ivw               Categ
0A  RAXSTROKE     raxstroke: r ever had stroke in lifetime                     Categ

Descriptive Statistics

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Categorical Variable Codes

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2.disp prv wv, did not have| 94
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.r:refuse                  | 6
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1.yes                      | 915
2.possible                 | 240
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.r:refuse                  | 5
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1.yes                      | 3948
2.possible                 | 240

How Constructed:

RALSTROKE indicates whether the deceased respondent had ever been told by a doctor that he/she had a stroke in his/her last completed core interview. RALSTROKE is based on RwSTROKE in the RAND HRS and is taken from the last core wave completed. RALSTROKE is coded as 0 if the respondent reported never having been diagnosed with a stroke, and is coded as 1 if the respondent reported being diagnosed with a stroke. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.
RAXSTROKF indicates whether the exit interview proxy disputes the respondent's previous report of a stroke diagnosis. RAXSTROKF is coded as 0 if the proxy did not dispute the respondent's previous report of a stroke. RAXSTROKF is coded as 1 if the proxy disputes the previous report of a stroke, but reports that the respondent did have a stroke since the last interview. RAXSTROKF is coded as 2 if the proxy disputes the previous report of a stroke and reports that the respondent did not have a stroke. RAXSTROKF is coded as special missing .q in HRS wave 2 because the proxy was not able to dispute the previous wave's report. In AHEAD wave 2 and HRS waves 3 and 4 the proxy can only dispute the previous report of a stroke diagnosis by reporting that the respondent did not have stroke. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note that the dispute of a previously reported stroke does not impact values for RwSTROKE in the RAND HRS, or for RALSTROKE in the Harmonized HRS End of Life.

RAXSTROK indicates whether the respondent was diagnosed with a stroke between the last completed core interview and the respondent's exit interview. RAXSTROK is coded as 0 if the respondent had never been diagnosed with a stroke from his/her last completed core wave or from the exit interview, or if the respondent had ever been diagnosed with a stroke in his/her last completed core wave. RAXSTROK is coded as 1 if the respondent had never been diagnosed with a stroke from his/her last completed core wave and the proxy reports a stroke diagnosis for the respondent in the exit interview. RAXSTROK is coded as 2 if the respondent had never been diagnosed with a stroke from his/her last completed core wave and the proxy reports a possible stroke for the respondent in the exit interview. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXSTROKE indicates whether the deceased respondent had ever been told by a doctor that he/she had a stroke, as reported by the proxy. RAXSTROKE is based on questions asked to the proxy in the exit interview, and carries forward positive responses from RALSTROKE. RAXSTROKE is coded as 0 if the proxy reports that the respondent never had a stroke, or if, starting in HRS wave 3 and AHEAD wave 2, the proxy reports that the respondent's previous report of a stroke was incorrect and the respondent did not have a stroke. RAXSTROKE is coded as 1 if the proxy reports that the respondent had a stroke, or if, starting in wave 5, the proxy reports that the respondent's previous report of a stroke was incorrect but the respondent did have a stroke. We assume that the respondent has better knowledge of their health history than a proxy, and so RAXSTROKE is coded as 1 if RALSTROKE is coded as 1, regardless of the response from the exit interview proxy. RAXSTROKE is coded as 2 if the proxy reports that the respondent had a possible stroke or transient ischemic attack. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not able to dispute the previous report of a stroke diagnosis. In AHEAD wave 2 and HRS waves 3 and 4, the proxy is only able to dispute the previous positive report of a stroke diagnosis, and report that the respondent did not have a stroke in previous waves. These differences impact the coding of RAXSTROKF, RAXSTROK, and RAXSTROKE for these waves.

For any differences in the construction of RwSTROKE, which is used to create RALSTROKE, please see "Doctor diagnosed health problems: Ever Have Condition" in the RAND HRS Longitudinal File codebook.

HRS Variables Used:

RAND HRS:

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<td>r10stroke:w10 r ever had stroke</td>
</tr>
<tr>
<td>R11STROKE</td>
<td>r11stroke:w11 r ever had stroke</td>
</tr>
<tr>
<td>R1STROKE</td>
<td>r1stroke:w1 r ever had stroke</td>
</tr>
<tr>
<td>R2STROKE</td>
<td>r2stroke:w2 r ever had stroke</td>
</tr>
<tr>
<td>R3STROKE</td>
<td>r3stroke:w3 r ever had stroke</td>
</tr>
<tr>
<td>R4STROKE</td>
<td>r4stroke:w4 r ever had stroke</td>
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<td>R5STROKE</td>
<td>r5stroke:w5 r ever had stroke</td>
</tr>
<tr>
<td>R6STROKE</td>
<td>r6stroke:w6 r ever had stroke</td>
</tr>
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R7STROKE          r7stroke:w7 r ever had stroke
R8STROKE          r8stroke:w8 r ever had stroke
R9STROKE          r9stroke:w9 r ever had stroke
Wave 2 Exit:
    W379            b21.stroke
Wave 2A Exit:
    N848            b9.stroke
Wave 3 Exit:
    P835            b9. stroke
Wave 4 Exit:
    Q1176           b9. stroke
Wave 5 Exit:
    R1221           b9. stroke
    R1223           b9j. another stroke-2yr
Wave 6 Exit:
    SC053           stroke
Wave 7 Exit:
    TC053           stroke
Wave 8 Exit:
    UC053           stroke
Wave 9 Exit:
    VC053           stroke
Wave 10 Exit:
    WC053           stroke
Wave 11 Exit:
    XC053           stroke
Wave 12 Exit:
    YC053           stroke
Doctor Diagnosed Conditions: Diabetes

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA RALDIABE</td>
<td>raldiabe: r ever had diabetes as of last ivw</td>
<td>Categ</td>
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Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
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<tr>
<td>RALDIABE</td>
<td>12916</td>
<td>0.28</td>
<td>0.45</td>
<td>0.00</td>
<td>1.00</td>
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Categorical Variable Codes

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>.d:dk</td>
<td>17</td>
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<tr>
<td>.m:missing</td>
<td>18</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>1</td>
</tr>
<tr>
<td>0.no</td>
<td>9349</td>
</tr>
<tr>
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</table>

How Constructed:

RALDIABE indicates whether the deceased respondent had ever been told by a doctor that he/she had diabetes or high blood sugar in his/her last completed core interview. RALDIABE is based on RwDIABE in the RAND HRS and is taken from the last core wave completed. RALDIABE is coded as 0 if the respondent reported never having been diagnosed with diabetes, and is coded as 1 if the respondent reported being diagnosed with diabetes. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

The proxy is only asked if the respondent had been told by a doctor that he/she had diabetes in the HRS wave 2 exit interview. This question is not asked in any other wave, and so we chose not to provide this information.

For any differences in the construction of RwDIABE, which is used to create RALDIABE, please see "Doctor diagnosed health problems: Ever Have Condition" in the RAND HRS Longitudinal File codebook.

HRS Variables Used:

RAND HRS:

- R10DIABE r10diabe:w10 r ever had diabetes
- R11DIABE r11diabe:w11 r ever had diabetes
- R1DIABE  r1diabe:w1  r ever had diabetes
- R2DIABE  r2diabe:w2  r ever had diabetes
- R3DIABE  r3diabe:w3  r ever had diabetes
- R4DIABE  r4diabe:w4  r ever had diabetes
- R5DIABE  r5diabe:w5  r ever had diabetes
- R6DIABE  r6diabe:w6  r ever had diabetes
- R7DIABE  r7diabe:w7  r ever had diabetes
- R8DIABE  r8diabe:w8  r ever had diabetes
- R9DIABE  r9diabe:w9  r ever had diabetes
Memory Problems

Wave Variable | Label | Type
---|---|---
OA RALMEMRYE | ralmemrye: r ever had memory problems as of last ivw | Categ
OA RAXMEMRY | raxmemry: r had memory problems one month before death | Categ
OA RAXMEMREYE | raxmemreye: r ever had memory-related disease in lifetime | Categ

Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>RALMEMRYE</td>
<td>10315</td>
<td>0.19</td>
<td>0.40</td>
<td>0.00</td>
<td>1.00</td>
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<td>RAXMEMRY</td>
<td>9119</td>
<td>0.48</td>
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<td>1.00</td>
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<td>RAXMEMREYE</td>
<td>11609</td>
<td>0.44</td>
<td>0.50</td>
<td>0.00</td>
<td>1.00</td>
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Categorical Variable Codes

<table>
<thead>
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<tr>
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<td>10</td>
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<td>.m:missing</td>
<td>6</td>
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<tr>
<td>.q:not asked this wave</td>
<td>2621</td>
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<td>0.no</td>
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<td>0.no</td>
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<table>
<thead>
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<tr>
<td>.a:younger than 65</td>
<td>183</td>
</tr>
<tr>
<td>.d:dk</td>
<td>16</td>
</tr>
<tr>
<td>.m:missing</td>
<td>2</td>
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<tr>
<td>.q:not asked this wave</td>
<td>1142</td>
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<tr>
<td>0.no</td>
<td>6466</td>
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<td>1.yes</td>
<td>5143</td>
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</table>

How Constructed:

RALMEMRYE indicates whether the deceased respondent had ever been told by a doctor that he/she had memory problems in his/her last completed core interview. RALMEMRYE is based on RwMEMRYE in the RAND HRS in waves 4 through 9 and RwALZHEE and RwDEMENE in the RAND HRS starting in wave 10. In all cases, the values are taken from the last core wave completed. If the respondent's last core wave was wave 4 through 9, then RALMEMRYE is coded as 0 if the respondent reported never having been diagnosed with memory problems, and is coded as 1 if the respondent reported being diagnosed with memory problems, as reported in RwMEMRYE in the RAND HRS. If the respondent's last core wave was wave 10 and onward, then RALMEMRYE is coded as 0 if the respondent reported never having Alzheimer's disease or dementia, and is coded as 1 if the respondent reported being diagnosed with either Alzheimer's disease or dementia, as reported in RwALZHEE and RwDEMENE in the RAND HRS. Questions on memory problems were not asked prior to wave 4, so if the respondent's last core wave was prior to wave 4 then RALMEMRYE is assigned special missing .q. Don't know, refused, or other missing responses are assigned special missing .a, .d, .m, respectively.

RAXMEMRY indicates whether the deceased respondent had memory problems as of one month before death, according to the proxy. RAXMEMRY is coded as 0 if the proxy reports that the
respondent did not have memory problems as of one month before death. RAXMEMRY is coded as 1 if the proxy reports that the respondent had memory problems as of one month before death. This question is asked starting in wave 6, and so RAXMEMRY is assigned special missing .q in AHEAD wave 2 and HRS waves 2 through 5. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXMEMRYE indicates whether a doctor ever told the deceased respondent that he/she had a memory-related disease. In waves 4 and 5 of the HRS exit interview, the proxy is asked whether a doctor ever told the deceased respondent that he/she had a memory-related disease. In wave 4, RAXMEMRYE is coded as 0 if the proxy reports that the respondent never had a memory-related disease, and is coded as 1 if the proxy reports that the respondent had a memory-related disease. In wave 5, RAXMEMRYE is coded as 0 if the proxy reports that the respondent never had a memory-related disease and the respondent reported never being diagnosed with a memory-related disease in the last core interview, and is coded as 1 if the respondent had a memory-related disease as reported by the proxy in the exit interview or as reported in the last core interview. Only in wave 5, RAXMEMRYE is coded as special missing .a if the proxy was not asked this question in the exit interview because the respondent was younger than age 65 at the time of death. Starting in wave 6, RAXMEMRYE is coded as 0 if the respondent reported never being diagnosed with a memory-related disease in the last core interview and the proxy reported that the respondent did not have memory problems as of one month before death, or if the respondent was not asked about being diagnosed with a memory-related disease in the last core interview and the proxy reported that the respondent did not have memory problems as of one month before death, and is coded as 1 if the respondent reported being diagnosed with a memory-related disease in the last core interview or the proxy reported that the respondent had memory problems as of one month before death. RAXMEMRYE is assigned special missing .q in waves 2 and 3 when no questions about memory-related conditions are asked. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

Questions about doctor diagnosed memory problems were not added to the core interviews until wave 4. Similarly, no question on memory is asked in the exit interview prior to wave 4. In the wave 4 exit interview, the proxy is asked if the respondent was ever told by a doctor that he/she had a memory-related disease. For respondents whose last core interview was before wave 4, RAXMEMRYE is only based on the proxy's report. For respondents whose last core interview was at wave 4 or later, RAXMEMRYE is based on both the proxy's report in the exit interview and the respondent's report in their last core interview.

In waves 5, the proxy is asked if the respondent was ever told by a doctor that he/she had a memory-related disease only if the respondent was 65 or older at the time of death. In these cases, RAXMEMRYE is assigned special missing .a.

Starting in wave 6, the proxy is asked if the respondent had memory problems as of one month before death.

In the HRS Core interview, respondents are asked if they have ever been diagnosed with a memory-related disease in waves 4 through 9, and are asked if they have ever been diagnosed with Alzheimer's disease or with dementia starting in wave 10. RALMEMRYE and RAXMEMRYE employ the single question about memory-related diseases in waves 4 through 9 and the two separate questions about Alzheimer's disease or dementia starting in wave 10.

For any differences in the construction of RwMEMRYE, RwALZHEE, and RwDEMENE, which are used to create RALMEMRYE, please see "Doctor diagnosed health problems: Memory-related disease" in the RAND HRS Longitudinal File codebook.

HRS Variables Used:

RAND HRS:
- R10ALZHEE: r10alzhee:w10 r ever reported alzheimer
- R10DEMENE: r10demene:w10 r ever reported dementia
- R11ALZHEE: r11alzhee:w11 r ever reported alzheimer
Section B: Health

R11DEMENE r11demene:w1 r ever reported dementia
R4MEMRYE r4memrye:w4 r ever had memory problem
R5MEMRYE r5memrye:w5 r ever had memory problem
R6MEMRYE r6memrye:w6 r ever had memory problem
R7MEMRYE r7memrye:w7 r ever had memory problem
R8MEMRYE r8memrye:w8 r ever had memory problem
R9MEMRYE r9memrye:w9 r ever had memory problem

Wave 4 Exit:
  Q1216 b14. memory-related disease
Wave 5 Exit:
  R1240 b14x. memory-related disease
Wave 6 Exit:
  SC193 r have memory problems
Wave 7 Exit:
  TC193 r have memory problems
Wave 8 Exit:
  UC193 r have memory problems
Wave 9 Exit:
  VC193 r have memory problems
Wave 10 Exit:
  WC193 r have memory problems
Wave 11 Exit:
  XC193 r have memory problems
Wave 12 Exit:
  YC193 r have memory problems
Section C: Health Care Utilization and Insurance
### Hospital Stays: Length of Final Stay, if Died in Hospital

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0A RADHOSPNIT</td>
<td>radhospnit: r # nights final hospital stay before death</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RADHOSPNITD</td>
<td>radhospnitd: r duration final hospital stay before death</td>
<td>Categ</td>
</tr>
</tbody>
</table>

#### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
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<td>4300</td>
<td>22.02</td>
<td>130.83</td>
<td>0.00</td>
<td>4745.00</td>
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<tr>
<td>RADHOSPNITD</td>
<td>4300</td>
<td>1.59</td>
<td>1.00</td>
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#### Categorical Variable Codes

<table>
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<th>Value</th>
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<tbody>
<tr>
<td>.d:dk</td>
<td>84</td>
</tr>
<tr>
<td>.m:missing</td>
<td>73</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>916</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>3</td>
</tr>
<tr>
<td>.x:did not die in hospital</td>
<td>7576</td>
</tr>
<tr>
<td>0.0 nights</td>
<td>469</td>
</tr>
<tr>
<td>1.less than 1 week</td>
<td>1630</td>
</tr>
<tr>
<td>2.1 week to lt 1 month</td>
<td>1641</td>
</tr>
<tr>
<td>3.1 month to lt 3 months</td>
<td>414</td>
</tr>
<tr>
<td>4.3 months to lt 6 months</td>
<td>87</td>
</tr>
<tr>
<td>5.6 months to lt 1 year</td>
<td>27</td>
</tr>
<tr>
<td>6.1 year or more</td>
<td>32</td>
</tr>
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</table>

#### How Constructed:

RADHOSPNIT indicates the duration of the respondent's final hospital stay in days if the respondent died in a hospital. RADHOSPNITD is a categorized version of this variable. If the proxy reports that the respondent died in a hospital, the proxy is asked the length of the respondent's final stay at the hospital. The proxy can report the length of stay in hours, days, weeks, months, or years. These responses are converted to the number of days of the respondent's final hospital stay for RADHOSPNIT. For RADHOSPNITD, these responses are grouped and coded as follows: 0.zero nights, 1.less than 1 week, 2.one week to less than one month, 3.one month to less than three months, 4.three months to less than six months, 5.six months to less than one year, 6.one year or more. RADHOSPNIT and RADHOSPNITD are assigned special missing .x if the respondent did not die in a hospital. The duration of the respondent's final hospital stay if the respondent died in a hospital is not asked in HRS wave 2 or in AHEAD wave 2, so for these waves RADHOSPNIT and RADHOSPNITD are assigned special missing .q. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

#### Cross Wave Differences in HRS

The duration of the respondent's final hospital stay if the respondent died in a hospital is not asked in HRS wave 2 or in AHEAD wave 2.

Please note that the report of the length of the respondent's final hospital stay is distributed in two variables, the first providing a value and the second providing the unit of time corresponding to the value. Only in wave 3, the units of time are given as: 1.hours, 2.days or nights, 3.weeks, 4.months, 5.years. Starting in wave 4, option 2 is only given as "2.days".
HRS Variables Used:

Wave 2A Exit:
  N226         cs2cx.place of death

Wave 3 Exit:
  P1238        ex1.hospital # nights - final
  P1238A       ex1.hospital # nights - final - per

Wave 4 Exit:
  Q1722        ex1.how long in hospital before death
  Q1723        exla.units in hospital

Wave 5 Exit:
  R1735        ex1.how long in hospital before death
  R1736        exla.units in hospital

Wave 6 Exit:
  SA124        location of death
  SN301        time in hospital before death
  SN302        time in hospital before death - unit

Wave 7 Exit:
  TA124        location of death
  TN301        time in hospital before death
  TN302        time in hospital before death - unit

Wave 8 Exit:
  UA124        location of death
  UN301        time in hospital before death
  UN302        time in hospital before death - unit

Wave 9 Exit:
  VA124        location of death
  VN301        time in hospital before death
  VN302        time in hospital before death - unit

Wave 10 Exit:
  WA124        location of death
  WN301        time in hospital before death
  WN302        time in hospital before death - unit

Wave 11 Exit:
  XA124        location of death
  XN301        time in hospital before death
  XN302        time in hospital before death - unit

Wave 12 Exit:
  YA124        location of death
  YN301        time in hospital before death
  YN302        time in hospital before death - unit
### Hospital Stays: Since Last Interview

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0A RAXHOSP</td>
<td>raxhosp: r any hospital stay since last ivw</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RAXHSPTIM</td>
<td>raxhsptim: r # hospital stays since last ivw</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXHSPNIT</td>
<td>raxhspnit: r total # nights in hospital since last ivw</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXHSPNITD</td>
<td>raxhspnitud: r total duration hospital stays since last ivw</td>
<td>Categ</td>
</tr>
</tbody>
</table>

#### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
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<td>RAXHOSP</td>
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<td>0.00</td>
<td>1.00</td>
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<td>RAXHSPTIM</td>
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<td>3.81</td>
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<td>RAXHSPNIT</td>
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<td>RAXHSPNITD</td>
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#### Categorical Variable Codes

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<td>.r:refuse</td>
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<tr>
<td>1.yes</td>
<td>10105</td>
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<td>23</td>
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<tr>
<td>.r:refuse</td>
<td>3</td>
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<tr>
<td>0.0 nights</td>
<td>2706</td>
</tr>
<tr>
<td>1.less than 1 week</td>
<td>2945</td>
</tr>
<tr>
<td>2.1 week to lt 1 month</td>
<td>4351</td>
</tr>
<tr>
<td>3.1 month to lt 3 months</td>
<td>1391</td>
</tr>
<tr>
<td>4.3 months to lt 6 months</td>
<td>237</td>
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<tr>
<td>5.6 months to lt 1 year</td>
<td>55</td>
</tr>
<tr>
<td>6.1 year or more</td>
<td>35</td>
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</tbody>
</table>

#### How Constructed:

RAXHOSP indicates whether the deceased respondent stayed overnight at a hospital since the previous interview/in the last 2 years. If the proxy reports that the respondent died in a hospital, the proxy is first asked the length of the respondent’s final stay at the hospital, recorded in RAXHOSP. Then the proxy is asked if the respondent had stayed overnight in a hospital since the previous interview/in the last 2 years in addition to the final hospital stay. If the proxy reports that the respondent died somewhere other than a hospital, the proxy is asked if the respondent stayed overnight in a hospital since the previous interview/in the last 2 years. RAXHOSP is coded as 0 if the proxy reports that the respondent had not been a patient in a hospital overnight and the proxy reports that the respondent did not die in a hospital. RAXHOSP is coded as 1 if the proxy reports that the respondent had been a patient in a hospital overnight or the proxy reports that the respondent died in a hospital. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHSPTIM indicates the number of times the deceased respondent was a patient overnight in a hospital since the previous interview/in the last 2 years, including the respondent’s final
hospitalization if he/she died in a hospital. After answering whether the respondent had overnight stays in a hospital, other than his/her final hospitalization, the proxy is asked how many different times he/she was a patient in a hospital overnight since the previous interview/in the last 2 years including his/her final hospitalization if applicable. If the proxy reported that the respondent had not stayed overnight in a hospital, then RAXHSPTIM is set to 0. If the proxy reported that the respondent died in a hospital, but had not stayed in a hospital other than his/her final hospitalization, then RAXHSPTIM is set to 1. If the proxy reported that the respondent stayed in a hospital other than his/her final hospitalization, then RAXHSPTIM takes the value of the total number of hospital stays, including the final stay, reported by the proxy. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHSPNIT indicates the total number of nights the deceased respondent was a patient overnight in a hospital since the previous interview/in the last 2 years whether the respondent died in a hospital or not. RAXHSPNITD is a categorized version of RAXHSPNIT. After answering the number of times the respondent was a patient overnight in a hospital, the proxy is asked how many nights the respondent was a patient in a hospital since the previous interview/in the last 2 years including his/her final hospitalization if applicable. If the proxy reported that the respondent had not stayed overnight in a hospital, then RAXHSPNIT is set to 0. If the proxy reported that the respondent died in a hospital, but had not stayed in a hospital other than his/her final hospitalization, then RAXHSPNIT is assigned the number of nights of the respondent's final stay, recorded in RADHOSPNIT. If the proxy reported that the respondent stayed in a hospital other than his/her final hospitalization, then RAXHSPNIT is assigned the total number of nights of all hospital stays, including the final stay, reported by the proxy. Please note that the total number of nights in the hospital was collected in days, whereas the length of the respondent's final stay in the hospital is recorded in hours, days, weeks, months, or years. All values have been converted to days for RAXHSPNIT, and are categorized for RAXHSPNITD. RAXHSPNITD is coded as follows: 0. zero nights, 1. less than one week, 2. one week to less than one month, 3. one month to less than three months, 4. three months to less than six months, 5. six months to less than one year, 6. one year or more. For clarification, RAXHSPNIT and RAXHSPNITD are equivalent to the nonmissing values in RADHOSPNIT and RADHOSPNITD, respectively, if the respondent had a total of one hospital stay and died in the hospital. Don't know, refused, or other missing responses for RAXHSPNIT and RAXHSPNITD are assigned special missing .d, .r, .m, respectively.

**Cross Wave Differences in HRS**

Please note that the proxy had the option to report the total number of nights the respondent spent in a hospital in days, weeks or months in HRS wave 2, though there were no instances where the hospital stays were reported in weeks or months. In all other waves, the proxy only has the option to report the total number of nights in the hospital as the number of days, not as weeks or months.

**HRS Variables Used:**

**Wave 2 Exit:**
- W410  b29.hospital overnight
- W411  b29a.times in hospital o
- W412  b29b.number of nights in
- W413  b29b.units in hospital

**Wave 2A Exit:**
- N1664  e1.hospital-yr
- N1665  e2.hospital times
- N1666  e3.hosp-1 #nights

**Wave 3 Exit:**
- P1238  ex1.hospital # nights - final
- P1238A ex1.hospital # nights - final -per
- P1245  e1. hospital-yr
- P1246  e2. hospital times
- P1247  e3. hosp-1 #nights

**Wave 4 Exit:**
- Q1722  ex1.how long in hospital before death
Q1723  ex1a.units in hospital
Q1728  e1. hospital-yr
Q1729  e2. hospital times
Q1730  e3. hosp-1 #nights

Wave 5 Exit:
R1735  ex1.how long in hospital before death
R1736  ex1a.units in hospital
R1739  e1. hospital-yr
R1740  e2. hospital times
R1741  e3. hosp-1 #nights

Wave 6 Exit:
SA124  location of death
SN099  overnight stay in hosp-since prev iw/2yr
SN100  num times r stayed overnight in hosp
SN101  num nights r spent overnight in hospital
SN301  time in hospital before death
SN302  time in hospital before death- unit

Wave 7 Exit:
TA124  location of death
TN099  overnight stay in hosp-since prev iw/2yr
TN100  num times r stayed overnight in hosp
TN101  num nights r spent overnight in hospital
TN301  time in hospital before death
TN302  time in hospital before death- unit

Wave 8 Exit:
UA124  location of death
UN099  overnight stay in hosp-since prev iw/2yr
UN100  num times r stayed overnight in hosp
UN101  num nights r spent overnight in hospital
UN301  time in hospital before death
UN302  time in hospital before death- unit

Wave 9 Exit:
VA124  location of death
VN099  overnight stay in hosp-since prev iw/2yr
VN100  num times r stayed overnight in hosp
VN101  num nights r spent overnight in hospital
VN301  time in hospital before death
VN302  time in hospital before death- unit

Wave 10 Exit:
WA124  location of death
WN099  overnight stay in hosp-since prev iw/2yr
WN100  num times r stayed overnight in hosp
WN101  num nights r spent overnight in hospital
WN301  time in hospital before death
WN302  time in hospital before death- unit

Wave 11 Exit:
XA124  location of death
XN099  overnight stay in hosp-since prev iw/2yr
XN100  num times r stayed overnight in hosp
XN101  num nights r spent overnight in hospital
XN301  time in hospital before death
XN302  time in hospital before death- unit

Wave 12 Exit:
YA124  location of death
YN099  overnight stay in hosp-since prev iw/2yr
YN100  num times r stayed overnight in hosp
YN101  num nights r spent overnight in hospital
YN301  time in hospital before death
YN302  time in hospital before death- unit
### Nursing Home Stays: Length of Final Stay, if Died in Nursing Home

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<td>DA RADNURSNITD</td>
<td>radnursnitt: r duration final nursing home stay before death</td>
<td>Categ</td>
</tr>
<tr>
<td>DA RADNURSNITF</td>
<td>radnursnitf: r flag # nights of final nursing home stay</td>
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#### Descriptive Statistics

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#### Categorical Variable Codes

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<td>3.1 month to lt 3 months</td>
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<td>4.3 months to lt 6 months</td>
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<td>5.6 months to lt 1 year</td>
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<td>6.1 year or more</td>
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<td>2.calculation used only yea</td>
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#### How Constructed:

RADNURSNIT indicates the duration of the respondent's final nursing home stay in days if the respondent died in a nursing home. RADNURSNITD is a categorized version of this variable. If the proxy reports that the respondent died in a nursing home, the proxy is asked the length of the respondent's final stay at the nursing home. In all waves the proxy can report the length of stay in days or months. Starting in AHEAD wave 2 and HRS wave 3 through wave 9, the proxy can also report the year and month the respondent entered the nursing home. In waves 7 to 12, the proxy can also report the length of stay in years. If the proxy reports the year and month the respondent entered the nursing home, then the number of months the respondent resided in the nursing home is calculated using entrance year and month and death year and month (KNOWNDECEASEDYR and KNOWNDECEASEDYM from the HRS Tracker File). If entrance month or death month is unavailable, then this calculation only takes into account entrance year and death year. These responses are converted to the number of days of the respondent's final nursing home stay for RADNURSNIT. For RADNURSNITD, these responses are grouped and coded as follows: 1.less than one week, 2.one week to less than one month, 3.one month to less than three months, 4.three months to less than six months, 5.six months to less than one year, 6.one year or more. RADNURSNIT and RADNURSNITD are assigned special missing .x if the respondent did not die in a nursing home. RADNURSNIT and RADNURSNITD are assigned special
missing .i if the calculation of the length of nursing stay from entrance month and year resulted in a negative value. The duration of the respondent's final nursing home stay if the respondent died in a nursing home is not asked in HRS wave 2, so RADNURSNIT and RADNURSNITD are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RADNURSNITF is a flag variable indicating whether the calculation of the length of the respondent's final nursing home stay only used entrance and death years because either entrance or death month was missing. RADNURSNITF is coded as 0 if the proxy did not report month or year but instead provided the actual length of stay. RADNURSNITF is coded as 1 if the calculation of the length of the respondent's final nursing home stay used month and year values. RADNURSNITF is coded as 2 if the calculation of the length of the respondent's final nursing home stay used only year values because either nursing home entrance month or death month was missing. RADNURSNITF is only assigned values of 0 in HRS waves 10 and onward because the proxy was not able to report the month and year the respondent entered a nursing home for their final stay. RADNURSNITF is assigned special missing .x if the respondent did not die in a nursing home. The duration of the respondent's final nursing home stay if the respondent died in a nursing home is not asked in HRS wave 2, so RADNURSNITF is assigned special missing .q in this wave. RADNURSNITF is assigned special missing .m if RADNURSNIT and RADNURSNITD have a .d, .r, .i, or .m missing value.

Cross Wave Differences in HRS

The duration of the respondent's final nursing home stay if the respondent died in a nursing home is not asked in HRS wave 2.

The proxy can report the respondent's length of stay in different ways across waves. In all waves the proxy can report the length of stay in days or months. Starting in AHEAD wave 2 and HRS wave 3 through wave 9, the proxy can also report the year and month the respondent entered the nursing home. In waves 7 to 12, the proxy can also report the length of stay in years.

HRS Variables Used:

Tracker:
  KNOWNDECEASEDMO known deceased - month
  KNOWNDECEASEDYR known deceased - year

Wave 2 Exit:
  N1674  e4x.nursing home # nights - final
  N1675  e4xax.months
  N1676  e4xbx.date-month
  N1678  e4xdx.date-year

Wave 3 Exit:
  P1255  e4x.nursing home # nights - final
  P1256  e4xax.months
  P1257  e4xbx.date-month
  P1259  e4xdx.date-year

Wave 4 Exit:
  Q1736  e4x.nursing home # nights - final
  Q1737  e4xax.number of months
  Q1738  e4xbx.date-month
  Q1740  e4xdx.date-year

Wave 5 Exit:
  R1747  e4x.nursing home # nights - final
  R1748  e4xax.months
  R1749  e4xbx.date-month
  R1751  e4xdx.date-year

Wave 6 Exit:
  SA124  location of death
  SN309  nursing home b/f death - days
  SN310  nursing home b/f death - months
  SN311  nursing home b/f death - since month
SN313 nursing home b/f death- since year

Wave 7 Exit:
TA124 location of death
TN257 nursing home b/f death- years
TN258 year entered nursing home
TN259 month entered nursing home
TN309 nursing home b/f death- days
TN310 nursing home b/f death- months

Wave 8 Exit:
UA124 location of death
UN257 nursing home b/f death- years
UN258 year entered nursing home
UN259 month entered nursing home
UN309 nursing home b/f death- days
UN310 nursing home b/f death- months

Wave 9 Exit:
VA124 location of death
VN257 nursing home b/f death- years
VN258 year entered nursing home
VN259 month entered nursing home
VN309 nursing home b/f death- days
VN310 nursing home b/f death- months

Wave 10 Exit:
WA124 location of death
WN257 nursing home b/f death- years
WN309 nursing home b/f death- days
WN310 nursing home b/f death- months

Wave 11 Exit:
XA124 location of death
XN257 nursing home b/f death- years
XN309 nursing home b/f death- days
XN310 nursing home b/f death- months

Wave 12 Exit:
YA124 location of death
YN257 nursing home b/f death- years
YN309 nursing home b/f death- days
YN310 nursing home b/f death- months
Nursing Home Stays: Since Last Interview

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<tr>
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<tr>
<td>0A RAXNRSTIM</td>
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<td>Cont</td>
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<tr>
<td>0A RAXNRSNIT</td>
<td>raxnrsnit: r total # nights nursing home stays since last iv</td>
<td>Cont</td>
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<tr>
<td>0A RAXNRSNITD</td>
<td>raxnrsnitd: r total duration nursing home stays since last i</td>
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<tr>
<td>0A RAXNRSNITF</td>
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Descriptive Statistics

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Categorical Variable Codes

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RAXNRSNITD

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<td>3.1 month to lt 3 months</td>
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<td>4.3 months to lt 6 months</td>
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<td>5.6 months to lt 1 year</td>
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<td>6.1 year or more</td>
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RAXNRSNITF

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How Constructed:

RAXNRSHOM indicates whether the deceased respondent stayed overnight at a nursing home, convalescent home, or other long-term health care facility since the previous interview/in the last 2 years, excluding any hospice stays. If the proxy reports that the respondent died in a nursing home, the proxy is first asked the length of the respondent's final stay at the
nursing home before his/her death, recorded in RADNURSNIT. Then the proxy is asked if the respondent had stayed overnight in a nursing home since the previous interview/in the last 2 years in addition to the final nursing home stay. If the proxy reports that the respondent died somewhere other than a nursing home, the proxy is asked if the respondent stayed overnight in a nursing home, convalescent home, or other long-term health care facility since the previous interview/in the last 2 years, excluding any hospice stays. RAXNRSHOM is coded as 0 if the proxy reports that the respondent had not been a patient in a nursing home overnight and the proxy reports that the respondent did not die in a nursing home. RAXNRSHOM is coded as 1 if the proxy reports that the respondent had been a patient in a nursing home overnight or the proxy reports that the respondent died in a nursing home. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXNRSTIM indicates the number of times the deceased respondent was a patient overnight in a nursing home since the previous interview/in the last 2 years, including the respondent's final stay if he/she died in a nursing home. After answering whether the respondent had overnight stays in a nursing home, other than his/her final nursing home stay, the proxy is asked how many different times he/she was a patient in a nursing home overnight since the previous interview/in the last 2 years including his/her final nursing home stay if applicable. If the proxy reported that the respondent had not stayed overnight in a nursing home, then RAXNRSTIM is set to 0. If the proxy reported that the respondent died in a nursing home, but had not stayed in a nursing home other than his/her final nursing home stay, then RAXNRSTIM is set to 1. If the proxy reported that the respondent had stayed in a nursing home other than his/her final nursing home stay, then RAXNRSTIM takes the value of the total number of nursing home stays, including the final stay, reported by the proxy. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXNRSNIT indicates the total number of nights the deceased respondent was a patient overnight in a nursing home since the previous interview/in the last 2 years whether the respondent died in a nursing home or not. RAXNRSNITD is a categorized version of RAXNRSNIT. After answering the number of times the respondent was a patient overnight in a nursing home, the proxy is asked how long the respondent was a patient in a nursing home since the previous interview/in the last 2 years including his/her final nursing home stay if applicable. If the proxy reported that the respondent had not stayed overnight in a nursing home, then RAXNRSNIT is set to 0. If the proxy reported that the respondent died in a nursing home, then RAXNRSNIT is set to 1. If the proxy reported that the respondent had stayed in a nursing home other than his/her final nursing home stay, then RAXNRSNIT takes the value of the respondent's final nursing home stay, reported in RADNURSNIT. If the proxy reported that the respondent had stayed in a nursing home other than his/her final nursing home stay, then RAXNRSNIT is assigned the total number of nights of all nursing home stays, including the final stay, as reported by the proxy. In all waves, the proxy can respond with the number of nights or number of months. Only in HRS wave 2, the proxy can also respond with the number of weeks. Starting in AHEAD wave 2 and HRS wave 3, the proxy can also respond by saying the respondent's stay was continuous since he/she entered. If the proxy reports that the respondent's stay was continuous, then the number of months the respondent resided in the nursing home is calculated using the year and month the respondent moved to a nursing home obtained in the coverscreen, if available, and death year and month (KNOWNDECEASEDYR and KNOWNDECEASEDMO from the HRS Tracker File). If entrance month or death month is unavailable, then this calculation only takes into account entrance year and death year. All values have been converted to days for RAXNRSNIT, and are categorized for RAXNRSNITD. RAXNRSNITD is coded as follows: 0.zero nights, 1.less than one week, 2.one week to less than one month, 3.one month to less than three months, 4.three months to less than six months, 5.six months to less than one year, 6.one year or more. RAXNRSNIT and RAXNRSNITD are assigned special missing .c if the proxy reports a continuous stay at a nursing home but no entrance date is available. RAXNRSNIT and RAXNRSNITD are assigned special missing .i if the calculation of the continuous stay at a nursing home results in a negative value. RAXNRSNIT and RAXNRSNITD are only available in waves 2 through 6, and are assigned special missing .q starting in wave 7. For clarification, RAXNRSNIT and RAXNRSNITD are equivalent to the nonmissing values in RADNURSNIT and RADNURSNITD, respectively, if the respondent had a total of one nursing home stay and died in a nursing home. Don't know, refused, or other missing responses for RAXNRSNIT and RAXNRSNITD are assigned special missing .d, .r, .m, respectively.

RAXNRSNITF is a flag variable indicating whether the calculation of the total length of the respondent's nursing home stay only used entrance and death years because either entrance or death month was missing. RAXNRSNITF is coded as 0 if the proxy did not report month or year.
but instead provided the actual length of stay. RAXNRSNITF is coded as 1 if the calculation of the total length of the respondent's nursing home stay used month and year values. RAXNRSNITF is coded as 2 if the calculation of the total length of the respondent's nursing home stay used only year values because either nursing home entrance month or death month was missing. RAXNRSNITF is only assigned values of 0 in HRS wave 2 because the proxy was not able to report the month and year the respondent entered a nursing home. RAXNRSNITF is assigned special missing .q starting in wave 7 when this information is no longer obtained. RAXNRSNITF is assigned a special missing .m if RAXNRSNIT and RAXNRSNITD have a .d, .r, .i, .c, or .m missing value.

Cross Wave Differences in HRS

The duration of the respondent's total nursing home stays is no longer asked starting in wave 7.

Only in AHEAD wave 2 and HRS wave 3, the proxy is not asked if the respondent had any stay (other than his/her final stay) in a nursing home if the respondent lived in a nursing home at the time of death. If the respondent lived in a nursing home, then RAXNRSHOM is assigned a value of 1.

The proxy can report the respondent's length of stay in different ways across waves. In all waves the proxy can report the length of stay in days or months. Only in HRS wave 2, the proxy can report the length of stay in weeks. Starting in AHEAD wave 2 and HRS wave 3, the proxy can report that the respondent's nursing home stay was continuous since entry.

HRS Variables Used:

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<tr>
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<td>W416</td>
<td>b30a.times in nursery ho</td>
</tr>
<tr>
<td>W417</td>
<td>b30b.number of nights in nursery ho</td>
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<tr>
<td>W418</td>
<td>b30b.units in nursery ho</td>
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Wave 2A Exit:

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<td>N1682</td>
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<td>N1683</td>
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<td>e7a.nurhm-1 months</td>
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<tr>
<td>N249</td>
<td>cs11.r-where live</td>
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<td>cs25.month moved to nurs home</td>
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<tr>
<td>P1259</td>
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<td>P1262</td>
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<td>e6.nurhm # times</td>
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<tr>
<td>P1264</td>
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<td>P1265</td>
<td>e7a.nurhm-1 months</td>
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<tr>
<td>P249</td>
<td>cs11.r-where live</td>
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<td>cs25.month moved to nurs home</td>
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<td>cs25a.year moved to nurs home</td>
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Q1738  e4xbx.date-month
Q1740  e4xdx.date-year
Q1743  e5. nursing home-yr
Q1744  e6. nurhm # times
Q1745  e7. nurhm-1 nights
Q1746  e7a.nurhm-1 months
Q720  cs25.month moved to nurs home
Q721  cs25.year moved to nurs home

Wave 5 Exit:
R1747  e4x.nursing home # nights - final
R1748  e4xax.months
R1749  e4xbx.date-month
R1751  e4xdx.date-year
R1754  e5. nursing home-yr
R1755  e6. nurhm # times
R1756  e7. nurhm-1 nights
R1757  e7a.nurhm-1 months
R789  cs25.month moved to nurs home
R790  cs25a.(cs25) year moved to nurs home

Wave 6 Exit:
SA065  month moved to nh
SA066  year moved to nurs home
SA124  location of death
SN114  ever patient overnight in nursing home
SN115  # times spent overnight in nursing home
SN116  num nights r spent overnight in nh
SN117  num mos r spent overnight in nh
SN309  nursing home b/f death- days
SN310  nursing home b/f death- months
SN311  nursing home b/f death- since month
SN313  nursing home b/f death- since year

Wave 7 Exit:
TA065  month moved to nh
TA066  year moved to nurs home
TA124  location of death
TN114  ever patient overnight in nursing home
TN115  # times spent overnight in nursing home
TN257  nursing home b/f death- years
TN258  year entered nursing home
TN259  month entered nursing home
TN309  nursing home b/f death- days
TN310  nursing home b/f death- months

Wave 8 Exit:
UA065  month moved to nh
UA066  year moved to nurs home
UA124  location of death
UN114  ever patient overnight in nursing home
UN115  # times spent overnight in nursing home
UN257  nursing home b/f death- years
UN258  year entered nursing home
UN259  month entered nursing home
UN309  nursing home b/f death- days
UN310  nursing home b/f death- months

Wave 9 Exit:
VA124  location of death
VN114  ever patient overnight in nursing home
VN115  # times spent overnight in nursing home
VN257  nursing home b/f death- years
VN258  year entered nursing home
VN259  month entered nursing home
VN309  nursing home b/f death- days
VN310  nursing home b/f death- months
VN315  hospice- days
VN316  hospice- number months

Wave 10 Exit:
  WA124  location of death
  WN114  ever patient overnight in nursing home
  WN115  # times spent overnight in nursing home
  WN257  nursing home b/f death- years
  WN309  nursing home b/f death- days
  WN310  nursing home b/f death- months
  WN315  hospice- days
  WN316  hospice- number months

Wave 11 Exit:
  XA124  location of death
  XN114  ever patient overnight in nursing home
  XN115  # times spent overnight in nursing home
  XN257  nursing home b/f death- years
  XN309  nursing home b/f death- days
  XN310  nursing home b/f death- months
  XN315  hospice- days
  XN316  hospice- number months

Wave 12 Exit:
  YA124  location of death
  YN114  ever patient overnight in nursing home
  YN115  # times spent overnight in nursing home
  YN257  nursing home b/f death- years
  YN309  nursing home b/f death- days
  YN310  nursing home b/f death- months
# Hospice: Length of Final Stay, if Died in Hospice

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<th>Label</th>
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<tr>
<td>DA RADHSPCNITD</td>
<td>radhspcnitd: r duration final hospice stay before death</td>
<td>Categ</td>
</tr>
<tr>
<td>DA RADHSPCNITF</td>
<td>radhspcnitf: r flag # nights final hospice stay before death</td>
<td>Categ</td>
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## Descriptive Statistics

<table>
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<tr>
<th>Variable</th>
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## Categorical Variable Codes

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<tr>
<td>.q:not asked this wave</td>
<td>1416</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>3</td>
</tr>
<tr>
<td>.x:did not die in hospice</td>
<td>10747</td>
</tr>
<tr>
<td>1. less than 1 week</td>
<td>384</td>
</tr>
<tr>
<td>2.1 week to lt 1 month</td>
<td>244</td>
</tr>
<tr>
<td>3.1 month to lt 3 months</td>
<td>72</td>
</tr>
<tr>
<td>4.3 months to lt 6 months</td>
<td>30</td>
</tr>
<tr>
<td>5.6 months to lt 1 year</td>
<td>14</td>
</tr>
<tr>
<td>6.1 year or more</td>
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<table>
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<tr>
<td>.q:not asked this wave</td>
<td>1416</td>
</tr>
<tr>
<td>0. reported length of stay</td>
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</table>

## How Constructed:

RADHSPCNIT indicates the duration of the respondent's final hospice stay in days if the respondent died in a hospice facility. RADHSPCNITD is a categorized version of this variable. If the proxy reports that the respondent died in a hospice facility, the proxy is asked the length of the respondent's final stay at the hospice facility. In all waves the proxy can report the length of stay in days or months. In waves 4 through 6, the proxy can also report the year and month the respondent entered the hospice facility. If the proxy reports the year and month the respondent entered the hospice facility, then the number of months the respondent resided in the hospice facility is calculated using the entrance year and month and death year and month (KNOWNDECEASEDYR and KNOWNDECEASEDMO from the HRS Tracker File). If entrance month or death month is unavailable, then the calculation only takes into account entrance year and death year. These responses are converted to the number of days of the respondent's final hospice stay for RADHSPCNIT. For RADHSPCNITD, these responses are grouped and coded as follows: 1.less than one week, 2.one week to less than one month, 3.one month to less than three months, 4.three months to less than six months, 5.six months to less than one year, 6.one year or more. RADHSPCNIT and RADHSPCNITD are assigned special missing .x if the respondent did not die in a hospice facility. RADHSPCNIT and RADHSPCNITD are assigned special missing .i if the calculation of the length of hospice stay from entrance month and year resulted in a negative value. RADHSPCNIT and RADHSPCNITD are available starting in AHEAD wave 2 and HRS wave 3 through wave 11, and so is assigned special missing .q in HRS wave 2 and...
starting in wave 12. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RADHSPCNITF is a flag variable indicating whether the calculation of the total length of the respondent's hospice stay only used entrance and death years because either entrance or death month was missing. RADHSPCNITF is coded as 0 if the proxy did not report month or year but instead provided the actual length of stay. RADHSPCNITF is coded as 1 if the calculation of the length of the respondent's final hospice stay used month and year values. RADHSPCNITF is coded as 2 if the calculation of the length of the respondent's final hospice stay used only year values because either nursing home entrance month or death month was missing. RADHSPCNITF is only assigned values of 0 in AHEAD wave 2 and HRS waves 3 and 7 through 11 because the proxy was not able to report the month and year the respondent entered a hospice facility. RADHSPCNITF is assigned special missing .x if the respondent did not die in a hospice facility. RADHSPCNITF is assigned special missing .q starting in HRS waves 2 and 12 when this information is no longer obtained. RADHSPCNITF is assigned special missing .m if RADHSPCNIT and RADHSPCNITD have a .d, .r, or .m missing value.

Cross Wave Differences in HRS

The duration of the respondent's final hospice stay if the respondent died in a hospice facility is not asked in HRS wave 2 or starting in wave 12.

The proxy can report the respondent's length of stay in different ways across waves. In all waves the proxy can report the length of stay in days or months. In waves 4 through 6, the proxy can also report the year and month the respondent entered the hospice facility.

HRS Variables Used:

Tracker:
- KNOWNDECEASED known deceased - month
- KNOWNDECEASED known deceased - year

Wave 2A Exit:
- N1694 ex10f.hospice # nights - final
- N1695 ex10fa.months

Wave 3 Exit:
- P1275 ex10f.hospice # nights - final
- P1276 ex10fa.months

Wave 4 Exit:
- Q1757 e10xf. hospice # nights - final
- Q1758 e10xfa.number of months
- Q1759 e10xfb.date-month
- Q1761 e10xfd.date-year

Wave 5 Exit:
- R1768 e10xf. hospice # nights - final
- R1769 e10xfa.hospice-months
- R1770 e10xfb.hospice date-month
- R1772 e10xfd.hospice date-year

Wave 6 Exit:
- SA124 location of death
- SN315 hospice- days
- SN316 hospice- number months
- SN317 hospice- since month
- SN319 hospice- since year

Wave 7 Exit:
- TA124 location of death
- TN315 hospice- days
- TN316 hospice- number months

Wave 8 Exit:
- UA124 location of death
- UN315 hospice- days
- UN316 hospice- number months

Wave 9 Exit:
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<th>Description</th>
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<td>VA124</td>
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<tr>
<td>VN315</td>
<td>hospice- days</td>
</tr>
<tr>
<td>VN316</td>
<td>hospice- number months</td>
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</tbody>
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Wave 10 Exit:
- WA124 | location of death         |
- WN315 | hospice- days             |
- WN316 | hospice- number months    |

Wave 11 Exit:
- XA124 | location of death         |
- XN315 | hospice- days             |
- XN316 | hospice- number months    |
## Section C: Health Care Utilization and Insurance

### Hospice: Since Last Interview

<table>
<thead>
<tr>
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<td>Categ</td>
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<tr>
<td>0A RAXHPCTIM</td>
<td>raxhpctim: r # hospice stays since last ivw</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXHPCNIT</td>
<td>raxhpcnit: r total # nights hospice stays since last ivw</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXHPCNITD</td>
<td>raxhpcnidx: r total duration hospice stays since last ivw</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RAXHPCSERV</td>
<td>raxhpcserv: r any hospice services since last ivw</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RAXHPCSNIT</td>
<td>raxhpcsnit: r total # nights use hospice services since last ivw</td>
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<tr>
<td>0A RAXHPCSNITD</td>
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### Descriptive Statistics

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### Categorical Variable Codes

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<tr>
<td>3.1 month to lt 3 months</td>
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<tr>
<td>4.3 months to lt 6 months</td>
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<td>46</td>
<td>46</td>
</tr>
<tr>
<td>5.6 months to lt 1 year</td>
<td>20</td>
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<td>20</td>
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<tr>
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Section C: Health Care Utilization and Insurance

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</tr>
<tr>
<td>2.1 week to lt 1 month</td>
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</tr>
<tr>
<td>3.1 month to lt 3 months</td>
<td>95</td>
</tr>
<tr>
<td>4.3 months to lt 6 months</td>
<td>46</td>
</tr>
<tr>
<td>5.6 months to lt 1 year</td>
<td>38</td>
</tr>
<tr>
<td>6.1 year or more</td>
<td>20</td>
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**How Constructed:**

RAXHOSPICE indicates whether the deceased respondent stayed overnight at a hospice facility since the previous interview/in the last 2 years. If the proxy reports that the respondent died in a hospice facility, the proxy is first asked the length of the respondent's final stay at the hospice facility before his/her death, recorded in RADHSPCNIT. Then the proxy is asked if the respondent had stayed overnight in a hospice facility since the previous interview/in the last 2 years in addition to the final hospice stay. If the proxy reports that the respondent died somewhere other than a hospice facility, the proxy is asked if the respondent stayed overnight in a hospice facility since the previous interview/in the last 2 years. RAXHOSPICE is coded as 0 if the proxy reports that the respondent had not been a patient in a hospice facility overnight and the proxy reports that the respondent did not die in a hospice facility. RAXHOSPICE is coded as 1 if the proxy reports that the respondent had been a patient in a hospice facility overnight or the proxy reports that the respondent died in a hospice facility. RAXHOSPICE is available starting in AHEAD wave 2 and HRS waves 3 through 11, and so is assigned special missing .q in HRS wave 2 and starting again in wave 12. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHPCTIM indicates the number of times the deceased respondent was a patient overnight in a hospice facility since the previous interview/in the last 2 years, including the respondent's final stay if he/she died in a hospice facility. After answering whether the respondent had overnight stays in a hospice facility, other than his/her final hospice stay, the proxy is asked how many different times he/she was a patient in a hospice facility overnight since the previous interview/in the last 2 years including his/her final hospice stay if applicable. If the proxy reported that the respondent had not stayed overnight in a hospice facility, then RAXHPCTIM is set to 0. If the proxy reported that the respondent died in a hospice facility, but had not stayed in a hospice facility other than his/her final stay, then RAXHPCTIM is set to 1. If the proxy reported that the respondent stayed in a hospice facility other than his/her final stay, then RAXHPCTIM takes the value of the total number of hospice stays, including the final stay, reported by the proxy. RAXHPCTIM is available starting in AHEAD wave 2 and HRS waves 3 through 11, and so is assigned special missing .q in HRS wave 2 and starting again in wave 12. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHPCNIT indicates the total number of nights the deceased respondent was a patient overnight in a hospice facility since the previous interview/in the last 2 years whether the respondent died in a hospice facility or not. RAXHPCNITD is a categorized version of RAXHPCNIT. After answering the number of times the respondent was a patient overnight in a hospice facility, the proxy is asked how long the respondent was a patient in a hospice facility since the previous interview/in the last 2 years including his/her final hospice stay if applicable. If the proxy reported that the respondent had not stayed overnight in a hospice facility, then RAXHPCNIT is set to 0. If the proxy reported that the respondent died in a hospice facility, and the respondent had not stayed in a hospice facility other than his/her final hospice stay, then RAXHPCNIT is assigned the number of nights of the respondent's final stay, recorded in RADHSPCNIT. If the proxy reported that the respondent stayed in a hospice facility other than his/her final hospice stay, RAXHPCNIT is assigned the total number of nights of all hospice stays, including the final stay, as reported by the proxy. In all waves the proxy can respond with the number of nights. Starting in wave 4, the proxy can also respond with the number of months, or that the respondent’s stay was continuous since he/she entered. All values have been converted to days for RAXHPCNIT, and are categorized for RAXHPCNITD. RAXHPCNITD is coded as follows: 0.zero nights,
1. less than one week, 2. one week to less than one month, 3. one month to less than three months, 4. three months to less than six months, 5. six months to less than one year, 6. one year or more. RAXHFCNIT and RAXHFCNITD are assigned special missing .c if the proxy reports a continuous stay at a hospice facility because no entrance date is available to calculate the number of nights. RAXHFCNIT and RAXHFCNITD are available starting in AHEAD wave 2 and HRS waves 3 through 11, and are assigned special missing .q in HRS wave 2 and starting again in wave 12. For clarification, RAXHFCNIT and RAXHFCNITD are equivalent to the nonmissing values in RADHSPCNIT and RADHSPCNITD, respectively, if the respondent had a total of one hospice facility stay and died in a hospice facility. Don't know, refused, or other missing responses for RAXHFCNIT and RAXHFCNITD are assigned special missing .d, .r, .m, respectively.

RAXHPCSERV indicates whether the deceased respondent received any hospice services since the previous interview/in the last 2 years. In the HRS Exit interview, hospice services are described as follows: "Hospice specializes in taking care of patients with terminal illness and their families. Hospice care is typically given by a nurse trained in hospice care. It is not the same as home health." RAXHOSPICE, RAXHPCTIM, RAXHFCNIT, and RAXHPCNITD offer information on hospice services received specifically at a dedicated hospice facility, whereas RAXHPCSERV, RAXHPCNIT, and RAXHPCNITD offer information on hospice services received at any location. RAXHPCSERV is coded as 0 if the proxy reports that the respondent did not receive any hospice services. RAXHPCSERV is coded as 1 if the proxy reports that the respondent did receive hospice services. RAXHPCSERV is available starting in wave 12, and so is assigned special missing .q in waves 2 through 11. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHPCSNIT indicates the length of time the deceased respondent received hospice services since the previous interview/in the last 2 years. RAXHPCSNITD is a categorized version of RAXHPCSNIT. After answering whether the respondent received hospice services, the proxy is asked how long in total hospice services were in place before his/her death. The proxy can respond with the number of days or the number of months. RAXHPCSNIT is assigned a value of 0 if the respondent did not receive any hospice services. All values have been converted to days for RAXHPCSNIT, and are categorized for RAXHPCSNITD. RAXHPCSNITD is coded as follows: 0. zero nights, 1. less than one week, 2. one week to less than one month, 3. one month to less than three months, 4. three months to less than six months, 5. six months to less than one year, 6. one year or more. RAXHPCSNITD is available starting in wave 12, and is assigned special missing .q in waves 2 through 11. Don't know, refused, or other missing responses for RAXHPCSNITD are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

Questions regarding the respondent's hospice facility stays are not asked in HRS wave 2 and again starting in wave 12.

The proxy can report the respondent's length of stay at a hospice facility in different ways across waves. In all waves the proxy can respond with the number of nights. Starting in wave 4 through wave 11, the proxy can also respond with the number of months, or that the respondent's stay was continuous since he/she entered.

There is a transition in wave 12 regarding the questions asked about hospice. In AHEAD wave 2 and HRS waves 3 through 11, questions about hospice are asked regarding stays in a hospice facility. Starting in wave 12, questions about hospice are asked regarding the use of hospice services. Because of this difference in language, we created separate variables indicating the stays at hospice facilities versus the use of hospice services.

Questions regarding the respondent's use of hospice services are not asked prior to wave 12.

HRS Variables Used:

Wave 2A Exit:

N1694  ex10f.hospice # nights - final
N1695  ex10fa.months
N1699  ex10g.hospice-yr
N1700  ex10h.hospice # times
Section C: Health Care Utilization and Insurance

Wave 3 Exit:
- P1275: ex10f.hospice # nights - final
- P1276: ex10fa.months
- P1280: ex10g.hospice-yr
- P1281: ex10h.hospice # times
- P1282: ex10j.hospice-1 nights

Wave 4 Exit:
- Q1757: e10xf. hospice # nights - final
- Q1758: e10xfa.number of months
- Q1759: e10xfb.date-month
- Q1761: e10xfd.date-year
- Q1764: ex10g.hospice stay - not final
- Q1765: ex10h. hospice # times
- Q1766: ex10j. hospice-1 nights
- Q1767: ex10ja.hospice-1 months

Wave 5 Exit:
- R1768: e10xf. hospice # nights - final
- R1769: e10xfa.hospice-months
- R1770: e10xfb.hospice date-month
- R1772: e10xfd.hospice date-year
- R1775: ex10g. hospice-yr
- R1776: ex10h. hospice # times
- R1777: ex10j. hospice-1 nights
- R1778: ex10ja.hospice-1 months

Wave 6 Exit:
- SA065: month moved to nh
- SA066: year moved to nurs home
- SA124: location of death
- SN315: hospice- days
- SN316: hospice- number months
- SN317: hospice- since month
- SN319: hospice- since year
- SN320: since last iw- hospice patient
- SN321: hospice patient # times
- SN322: since last iw- hospice # nights

Wave 7 Exit:
- TA065: month moved to nh
- TA066: year moved to nurs home
- TA124: location of death
- TN315: hospice- days
- TN316: hospice- number months
- TN320: since last iw- hospice patient
- TN321: hospice patient # times
- TN322: since last iw- hospice # nights

Wave 8 Exit:
- UA065: month moved to nh
- UA066: year moved to nurs home
- UA124: location of death
- UN315: hospice- days
- UN316: hospice- number months
- UN320: since last iw- hospice patient
- UN321: hospice patient # times
- UN322: since last iw- hospice # nights
- UN323: since last iw- hospice # months

Wave 9 Exit:
- VA065: month moved to nh
- VA066: year moved to nurs home
- VA124: location of death
- VN315: hospice- days
- VN316: hospice- number months
- VN320: since last iw- hospice patient
- VN321: hospice patient # times
Section C: Health Care Utilization and Insurance

VN322  since last iw- hospice # nights
VN323  since last iw- hospice # months

Wave 10 Exit:
WA065  month moved to nh
WA066  year moved to nurs home
WA124  location of death
WN315  hospice- days
WN316  hospice- number months
WN320  since last iw- hospice patient
WN321  hospice patient # times
WN322  since last iw- hospice # nights
WN323  since last iw- hospice # months

Wave 11 Exit:
XA065  month moved to nh
XA066  year moved to nurs home
XA124  location of death
XN315  hospice- days
XN316  hospice- number months
XN320  since last iw- hospice patient
XN321  hospice patient # times
XN322  since last iw- hospice # nights
XN323  since last iw- hospice # months

Wave 12 Exit:
YN436  hospice service
YN437  hospice service how long days
YN438  hospice service how long months
### Hospital, Hospice, or Nursing Home: Since Last Interview

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#### Descriptive Statistics

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#### Categorical Variable Codes

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<td>1703</td>
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<td>1: yes</td>
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#### How Constructed:

RAXHHNH indicates whether the deceased respondent was a patient overnight in a hospital, hospice facility, or nursing home since the previous interview/in the last 2 years, including the respondent’s final stay in a hospital, hospice facility, or nursing home, if applicable. RAXHHNH is coded as 0 if the proxy reported that the respondent did not stay in a hospital, hospice facility, or nursing home since the previous interview/in the last 2 years. RAXHHNH is coded as 1 if the proxy reported that the respondent stayed at least once in a hospital, hospice facility, or nursing home since the previous interview/in the last 2 years. Because use of a hospice facility is not asked about in HRS wave 2, this variable is not available and is assigned special missing .q in this wave. Because the question changes from use of a hospice facility to use of hospice services in wave 12, this variable is no longer available and is assigned special missing .q starting in wave 12. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHHNTIM indicates the number of times the deceased respondent was a patient overnight in a hospital, hospice facility, or nursing home since the previous interview/in the last 2 years. RAXHHNTIM is a sum of the number of reported stays at a hospital, hospice facility, and nursing home, as long as at least one of the values is not missing. Because use of a hospice facility is not asked about in HRS wave 2, this variable is not available and is assigned special missing .q in this wave. Because the question changes from use of a hospice facility to use of hospice services in wave 12, this variable is no longer available and is assigned special missing .q starting in wave 12. If the number of stays at all of these locations has been answered don't know, refused, or is otherwise missing, then RAXHHNTIM takes the respective special missing value, .d, .r, .m.

#### Cross Wave Differences in HRS

The use of hospice facilities is not asked about in HRS wave 2 or again starting in wave 12. Starting in wave 12, the HRS no longer asks about the use of hospice facilities, but rather asks about the use of hospice services.

#### HRS Variables Used:

Wave 2A Exit:
- N1664 e1.hospital-yr
- N1665 e2.hospital times
R1736  exla.units in hospital
R1739  e1. hospital-yr
R1740  e2. hospital times
R1741  e3. hosp-1 #nights
R1747  e4x.nursing home # nights - final
R1748  e4xax.months
R1749  e4xbx.date-month
R1751  e4xdx.date-year
R1754  e5. nursing home-yr
R1755  e6. nurhm # times
R1756  e7. nurhm-1 nights
R1757  e7a.nurhm-1 months
R1768  e10xf. hospice # nights - final
R1769  e10xfa.hospice-months
R1770  e10xfb.hospice date-month
R1772  e10xfd.hospice date-year
R1775  ex10g. hospice-yr
R1776  ex10h. hospice # times
R1777  ex10j. hospice-1 nights
R1778  ex10ja.hospice-1 months
R789  cs25.month moved to nurs home
R790  cs25a.(cs25) year moved to nurs home

Wave 6 Exit:
SN099  overnight stay in hosp-since prev iw/2yr
SN100  num times r stayed overnight in hosp
SN114  ever patient overnight in nursing home
SN115  # times spent overnight in nursing home
SN301  time in hospital before death
SN302  time in hospital before death- unit
SN309  nursing home b/f death- days
SN310  nursing home b/f death- months
SN311  nursing home b/f death- since month
SN313  nursing home b/f death- since year
SN315  hospice- days
SN316  hospice- number months
SN317  hospice- since month
SN319  hospice- since year
SN320  since last iw- hospice patient
SN321  hospice patient # times

Wave 7 Exit:
TN099  overnight stay in hosp-since prev iw/2yr
TN100  num times r stayed overnight in hosp
TN114  ever patient overnight in nursing home
TN115  # times spent overnight in nursing home
TN257  nursing home b/f death- years
TN258  year entered nursing home
TN259  month entered nursing home
TN301  time in hospital before death
TN302  time in hospital before death- unit
TN309  nursing home b/f death- days
TN310  nursing home b/f death- months
TN315  hospice- days
TN316  hospice- number months
TN320  since last iw- hospice patient
TN321  hospice patient # times

Wave 8 Exit:
UN099  overnight stay in hosp-since prev iw/2yr
UN100  num times r stayed overnight in hosp
UN114  ever patient overnight in nursing home
UN115  # times spent overnight in nursing home
UN257  nursing home b/f death- years
UN258  year entered nursing home
UN259  month entered nursing home
UN301  time in hospital before death
UN302  time in hospital before death- unit
UN309  nursing home b/f death- days
UN310  nursing home b/f death- months
UN315  hospice- days
UN316  hospice- number months
UN320  since last iw- hospice patient
UN321  hospice patient # times

Wave 9 Exit:
VN099  overnight stay in hosp-since prev iw/2yr
VN100  num times r stayed overnight in hosp
VN114  ever patient overnight in nursing home
VN115  # times spent overnight in nursing home
VN257  nursing home b/f death- years
VN258  year entered nursing home
VN259  month entered nursing home
VN301  time in hospital before death
VN302  time in hospital before death- unit
VN309  nursing home b/f death- days
VN310  nursing home b/f death- months
VN315  hospice- days
VN316  hospice- number months
VN320  since last iw- hospice patient
VN321  hospice patient # times

Wave 10 Exit:
WN099  overnight stay in hosp-since prev iw/2yr
WN100  num times r stayed overnight in hosp
WN114  ever patient overnight in nursing home
WN115  # times spent overnight in nursing home
WN257  nursing home b/f death- years
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WN310  nursing home b/f death- months
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WN316  hospice- number months
WN320  since last iw- hospice patient
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Wave 11 Exit:
XN099  overnight stay in hosp-since prev iw/2yr
XN100  num times r stayed overnight in hosp
XN114  ever patient overnight in nursing home
XN115  # times spent overnight in nursing home
XN257  nursing home b/f death- years
XN301  time in hospital before death
XN302  time in hospital before death- unit
XN309  nursing home b/f death- days
XN310  nursing home b/f death- months
XN315  hospice- days
XN316  hospice- number months
XN320  since last iw- hospice patient
XN321  hospice patient # times
## Out-Of-Pocket Medical Costs

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**How Constructed:**

RAXOOPHONH, RAXOOPHOS, RAXOOPNH, RAXOOPHPC, RAXOOPDOC, RAXOOPDRUG, RAXOOPSPEC, RAXOOPOME, RAXOOPHMCR, RAXOOPOSRG, RAXOOPDEN, RAXOOPMD, and RAXOOPMDP provide information on out-of-pocket medical expenses. All have been adjusted to 2010 dollars based on the consumer price index for the year of death.

RAXOOPHONH, RAXOOPHOS, RAXOOPNH, RAXOOPHPC, RAXOOPDOC, RAXOOPDRUG, RAXOOPSPEC, RAXOOPOME, RAXOOPHMCR, RAXOOPOSRG, RAXOOPDEN, RAXOOPMD, and RAXOOPMDP are the out-of-pocket costs for specific major medical expenses and include imputed values to address item-missingness. The proxy is asked about how much the respondent paid out-of-pocket for each major medical expenditure since the previous interview or in the last 2 years before death. If the proxy answers don't know or refuses to answer, a series of unfolding bracket questions is asked to obtain a minimum and maximum bracket value of the out-of-pocket expenses. If the respondent did not use one of the specified services, then the out-of-pocket cost for that item is assumed to be 0.

RAXOOPHONH is the out-of-pocket costs for hospital and nursing home stays and includes imputed values. RAXOOPHONH is available in AHEAD wave 2 and HRS waves 2 through 5, and so is assigned special missing .q in HRS wave 2 and starting in wave 6. RAXOOPHOS is the out-of-pocket costs for hospital stays and includes imputed values. RAXOOPHOS is available starting in wave 6, and so is assigned special missing .q in AHEAD wave 2 and HRS waves 2 through 5. RAXOOPNH is the out-of-pocket costs for hospital stays and includes imputed values. RAXOOPNH is available starting in wave 6, and so is assigned special missing .q in AHEAD wave 2 and HRS waves 2 through 5. RAXOOPHPC is the out-of-pocket costs for hospice and includes imputed values. In AHEAD wave 2 and HRS waves 3 through 11, this includes the cost of hospice stays, whereas starting in wave 12, this includes the use of hospice services. RAXOOPHPC is available starting in AHEAD wave 2 and HRS wave 3, and so is assigned special missing .q in
HRS wave 2. RAXOOPDOC is the out-of-pocket costs for doctor visits and includes imputed values. RAXOOPDOC is available starting in AHEAD wave 2 and HRS wave 3, and so is assigned special missing .q in HRS wave 2. RAXOOPDRUG is the out-of-pocket costs for drug expenses and includes imputed values. RAXOOPDRUG is available starting in AHEAD wave 2 and HRS wave 3, and so is assigned special missing .q in HRS wave 2. RAXOOPSPHM is the out-of-pocket costs for special facilities and services and in-home medical care and includes imputed values. RAXOOPSPHM is available in AHEAD wave 2 and HRS waves 2 through 5, and so is assigned special missing .q in HRS wave 2 and starting in wave 6. RAXOOPSPEC is the out-of-pocket costs for special facilities and services, including adult care, social workers, outpatient rehab, and transportation or meals for the elderly, and includes imputed values. RAXOOPSPEC is available in AHEAD wave 2 and HRS waves 2 through 5. RAXOOPHMCR is the out-of-pocket costs for in-home medical care and includes imputed values. RAXOOPHMCR is available starting in wave 6, and so is assigned special missing .q in AHEAD wave 2 and HRS waves 2 through 5. RAXOOPME is the out-of-pocket costs for other medical expenses not covered by insurance, including medications, special food, equipment, visits by health professionals, or other costs, and includes imputed values. RAXOOPME is available starting in AHEAD wave 2 and HRS wave 3, and so is assigned special missing .q in HRS wave 2. RAXOOPOSRG is the out-of-pocket costs for outpatient surgery and includes imputed values. RAXOOPOSRG is available starting in wave 10, and so is assigned special missing .q in AHEAD wave 2 and HRS waves 2 through 9. RAXOOPDEN is the out-of-pocket costs for dental care and includes imputed values. RAXOOPDEN is available starting in HRS wave 10, and so is assigned special missing .q in AHEAD wave 2 and HRS waves 2 through 9.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for each out-of-pocket expenditure, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an exact amount for each out-of-pocket expenditure, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value. The threshold values are different based on each component. The threshold values for hospital/nursing home stays and for hospice are $500, $5,000, $10,000, $20,000, $50,000. In AHEAD wave 2 and HRS waves 3 through 5, the threshold values for doctor visits are $200, $500, $1,000, $5,000, $20,000. Starting in wave 6, the threshold values for doctor visits are $500, $2,000, $5,000, $10,000, $20,000. In AHEAD wave 2 and HRS waves 3 through 5, the threshold values for drug expenses are $5, $10, $20, $100, $500, and are asked per month. Starting in wave 8, the threshold values for drug expenses are $20, $40, $100, $200, $500, and are asked per month. The values for drug expenses are multiplied by 24 to obtain the cost over the last 2 years. In AHEAD wave 2 and HRS waves 3 through 5, the threshold values for in-home medical care, special facilities or services, and other medical expenses not covered by insurance are $500, $1,000, $5,000, $10,000, $20,000. Starting in wave 6, the threshold values for in-home medical care, special facilities or services, and other medical expenses not covered by insurance are $500, $2,000, $5,000, $10,000, $20,000. The threshold values for outpatient surgery are $500, $2,000, $5,000, $10,000, $20,000. The threshold values for dental expenses are $100, $200, $400, $1,000, $3,000. This information is used in the imputation of RAXOOPHONH, RAXOOPHOS, RAXOOPNH, RAXOOPHPC, RAXOOPDOC, RAXOOPDRUG, RAXOOPSPHM, RAXOOPSPEC, RAXOOPHMCR, RAXOOPME, RAXOOPOSRG, and RAXOOPDEN to address item-level missingness in these variables.

RAXOOPHONHF, RAXOOPHOSF, RAXOOPNHF, RAXOOPHPCF, RAXOOPDOCF, RAXOOPDRUGF, RAXOOPSPHMF, RAXOOPSPECF, RAXOOPHMCRF, RAXOOPOMEF, RAXOOPOSRGF, and RAXOOPDENF are flag variables indicating the level of imputation for the specified out-of-pocket expense. A code of 1 indicates the proxy reported a continuous value and no imputation was necessary. A code of 2 indicates that the component was imputed based on a closed bracket. A code of 3 indicates that the component was imputed based on an open bracket. A code of 5 indicates that the component was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not having the expense and the value is 0. A code of 7 indicates that the proxy was not sure whether the respondent had the expense. These variables are not available in HRS wave 2, and are assigned special missing .q in this wave. RAXOOPSPHM are not available in waves 6 through 12, RAXOOPHOSF, RAXOOPNHF, RAXOOPSPEC, and RAXOOPHMCRF are not available in AHEAD wave 2 and HRS waves 3 through 5, and RAXOOPOSRGF and RAXOOPDENF are not available in AHEAD wave 2 and HRS waves 3 through 9, in which case the variables are assigned special missing .q.
RAXOOPMD is the total out-of-pocket costs for major medical expenses and includes imputed values. The proxy is asked about how much the respondent paid out-of-pocket for each major medical expenditure since the previous interview or in the last 2 years before death. If the proxy answers don’t know or refuses to answer, a series of unfolding bracket questions is asked to obtain a minimum and maximum bracket value of the out-of-pocket expenses. RAXOOPMD is the sum of reported or imputed out-of-pocket expenses for hospital stays, nursing home stays, hospice, doctor visits, drug expenses, special facilities or services, in-home medical care, and other medical expenses not covered by insurance (RAXOOPMD = [RAXOOPHONH or (RAXOOPHOS + RAXOOPNH)] + RAXOOPHPC + RAXOOPDOC + RAXOOPDRUG + [RAXOOPSHPH or (RAXOOPSPEC + RAXOOPHMCR)] + RAXOOPOME). In AHEAD wave 2 and HRS waves 3 through 11, this includes the cost of hospice stays, whereas starting in wave 12, this includes the use of hospice services. If the respondent did not use one of the specified services, then the out-of-pocket cost for that item is assumed to be 0. RAXOOPMD has been adjusted to 2010 dollars based on the consumer price index for the year of death. Please note that in AHEAD wave 2 and HRS waves 3 through 5, the cost of hospital stays and nursing home stays are asked together, but starting in wave 6, the cost of hospital stays and nursing home stays are asked separately. Also in AHEAD wave 2 and HRS waves 3 through 5, the cost of special facilities and services and in-home medical care are asked together, but starting in wave 6, the cost of special facilities and services and in-home medical care are asked separately. RAXOOPMD is not available in HRS wave 2, and is assigned special missing .q in this wave.

RAXOOPMDF is a flag variable indicating the highest level of imputation of the components of RAXOOPMD. A code of 1 indicates the proxy reported continuous values for all components and no imputation was necessary. A code of 2 indicates that at least one component was imputed based on a closed bracket. A code of 3 indicates that at least one component was imputed based on an open bracket. A code of 5 indicates that at least one component was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not having any of the expenses and the value is 0. A code of 7 indicates that the proxy was unsure whether the respondent had at least one of the expenses. RAXOOPMDF is not available in HRS wave 2, and is assigned special missing .q in this wave.

RAXOOPMDP is the total out-of-pocket costs for major medical expenses plus other items and includes imputed values. The proxy is asked about how much the respondent paid out-of-pocket for each major medical expenditure since the previous interview or in the last 2 years before death. If the proxy answers don’t know or refuses to answer, a series of unfolding bracket questions is asked to obtain a minimum and maximum bracket value of the out-of-pocket expenses. RAXOOPMDP is the sum of reported or imputed out-of-pocket expenses for major medical expenses, as reported in RAXOOPMD, plus outpatient surgery and dental expenses. Therefore, RAXOOPMDP includes reported or imputed out-of-pocket expenses for hospital stays, nursing home stays, hospice, doctor visit, drug expenses, in-home medical care, special facilities or services, other medical expenses not covered by insurance, outpatient surgery, and dental expenses (RAXOOPMDP = [RAXOOPHONH or (RAXOOPHOS + RAXOOPNH)] + RAXOOPHPC + RAXOOPDOC + RAXOOPDRUG + [RAXOOPSHPH or (RAXOOPSPEC + RAXOOPHMCR)] + RAXOOPOME + RAXOOPSRG + RAXOOPDEN). If the respondent did not use one of the specified services, then the out-of-pocket cost for that item is assumed to be 0. RAXOOPMDP has been adjusted to 2010 dollars based on the consumer price index for the year of death. RAXOOPMDP is available starting in wave 10, and so is assigned special missing .q in AHEAD wave 2, and HRS waves 2 through 9.

RAXOOPMDPF is a flag variable indicating the highest level of imputation of the components of RAXOOPMDP. A code of 1 indicates the proxy reported continuous values for all components and no imputation was necessary. A code of 2 indicates that at least one component was imputed based on a closed bracket. A code of 3 indicates that at least one component was imputed based on an open bracket. A code of 5 indicates that at least one component was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not having any of the expenses and the value is 0. A code of 7 indicates that the proxy was unsure whether the respondent had at least one of the expenses.

Cross Wave Differences in HRS

Questions about the cost of hospital stays, nursing home stays, hospice, doctor visits, drug expenses, special facilities or services, in-home medical care, and other medical expenses not covered by insurance are available starting in AHEAD wave 2 and HRS wave 3 and onward.
Questions about the cost of outpatient surgery and dental expenses are available starting in wave 10 and onward.

In HRS waves 2 and 3 and AHEAD wave 2, bracket questions are asked if the true value is more than the threshold value. Starting in wave 4, bracket questions are asked if the true value is less than, about equal to, or more than the threshold value.

In AHEAD wave 2 and HRS waves 3 through 5, the cost of hospital stays and nursing home stays are asked together, but starting in wave 6, the cost of hospital stays and nursing home stays are asked about separately. In AHEAD wave 2 and HRS waves 3 through 5, the cost of in-home medical care and special facilities or services are asked about together, but starting in wave 6, the cost of in-home medical care and special facilities or services are asked about separately. In AHEAD wave 2 and HRS waves 3 through 11, the proxy is asked about the cost of hospice stays, whereas starting in wave 12, the proxy is asked about the cost for the use of hospice services.

**HRS Variables Used:**

Wave 2A Exit:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
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<tbody>
<tr>
<td>N1664</td>
<td>e1.hospital-yr</td>
</tr>
<tr>
<td>N1672</td>
<td>e4.hosp $ not cov</td>
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<tr>
<td>N1681</td>
<td>e5.nursing home-yr</td>
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<tr>
<td>N1686</td>
<td>e8.nurhm not cov</td>
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<tr>
<td>N1688</td>
<td>e10.nurhm or hosp r pay $</td>
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<tr>
<td>N1689</td>
<td>e10a.nurhm or hosp dk-1</td>
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<td>e10b.nurhm or hosp dk-2</td>
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<td>e10c.nurhm or hosp dk-3</td>
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<td>e10d.nurhm or hosp dk-4</td>
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<td>e10e.nurhm or hosp dk-5</td>
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<td>ex10g.hospice-yr</td>
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<td>e11.dr times</td>
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<td>N1732</td>
<td>e18a.doctor/out/dental r pay $</td>
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<td>e18b.dk-1</td>
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<td>N1784</td>
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<td>N1786</td>
<td>e24f.special dk-5</td>
</tr>
<tr>
<td>N1791</td>
<td>e25x.other out-of-pocket</td>
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N1792  e25ax.other r pay $
N1793  e25bx.other dk-1
N1794  e25cx.other dk-2
N1795  e25dx.other dk-3
N1796  e25ex.other dk-4
N1797  e25fx.other dk-5
N249   cs11.r-where live

Wave 3 Exit:
P1245  e1. hospital-yr
P1253  e4. hosp $ not cov
P1262  e5. nursing home-yr
P1267  e8. nurhm not cov
P1269  e10. nurhm or hosp r pay $
P1270  e10a. nurhm or hosp dk-1
P1271  e10b. nurhm or hosp dk-2
P1272  e10c. nurhm or hosp dk-3
P1273  e10d. nurhm or hosp dk-4
P1274  e10e. nurhm or hosp dk-5
P1280  ex10g.hospice-yr
P1283  ex10k.hospice not cov
P1284  ex10m.hospice r pay $
P1285  ex10n.hospice dk-1
P1286  ex10p.hospice dk-2
P1287  ex10q.hospice dk-3
P1288  ex10r.hospice dk-4
P1289  ex10s.hospice dk-5
P1290  e11. dr times
P1293  e13. dr, not cov
P1312  e18a.doctor/out/dental r pay $
P1314  e18b. dk-1
P1315  e18c. dk-2
P1316  e18d. dk-3
P1317  e18e. dk-4
P1318  e18f. dk-5
P1325  e20. drugs-yr
P1329  e21. drugs, not cov
P1330  e21a.prescr r pay $
P1331  e21b.prescr dk-1
P1332  e21c.prescr dk-2
P1333  e21d.prescr dk-3
P1334  e21e.prescr dk-4
P1335  e21f.prescr dk-5
P1341  e22.in-home serv
P1343  e23. in-home r pay $
P1355  e24.r use service
P1362  e24a.special r pay $
P1363  e24b.special dk-1
P1364  e24c.special dk-2
P1365  e24d.special dk-3
P1366  e24e.special dk-4
P1367  e24f.special dk-5
P1372  e25x.other out-of-pocket
P1373  e25ax.other r pay $
P1374  e25bx.other dk-1
P1375  e25cx.other dk-2
P1376  e25dx.other dk-3
P1377  e25ex.other dk-4
P1378  e25fx.other dk-5
P249   cs11.r-where live

Wave 4 Exit:
Q1728  e1. hospital-yr
Q1735  e4. hosp $ not cov
Q1743  e5. nursing home-yr
Q1748  e8.nurhm not cov
Q1749  e10. nurhm or hosp r pay $
Q1750  e10a. nurhm or hosp dk-1
Q1751  e10b. nurhm or hosp dk-2
Q1752  e10c. nurhm or hosp dk-3
Q1753  e10bl. nurhm or hosp dk-4
Q1754  e10bl. nurhm or hosp dk-5
Q1755  e10d. nurhm or hosp dk-6
Q1756  e10e. nurhm or hosp dk-7
Q1764  ex10g. hospice stay - not final
Q1769  ex10h. hospice not cov
Q1770  ex10m. hospice r pay $
Q1771  ex10n. hospice dk-1
Q1772  ex10p. hospice dk-2
Q1773  ex10q. hospice dk-3
Q1774  ex10r. hospice dk-4
Q1775  ex10s. hospice dk-5
Q1776  ex10t. hospice dk-6
Q1777  ex10u. hospice dk-7
Q1778  e11. dr times
Q1779  e13.d, not cov
Q1784  e18a.doctor r pay $
Q1785  e18b.dr/out/dental dk-1
Q1786  e18c.dr/out/dental dk-2
Q1787  e18d.dr/out/dental dk-3
Q1788  e18e.dr/out/dental dk-4
Q1789  e18el. dr/out/dental dk-5
Q1790  e18f. dr/out/dental dk-6
Q1791  e18g. dr/out/dental dk-7
Q1792  e20. drugs-yr
Q1793  e21. drugs, not cov
Q1794  e21a.prescr r pay $
Q1795  e21b.prescr dk-1
Q1796  e21c.prescr dk-2
Q1797  e21d.prescr dk-3
Q1798  e21e.prescr dk-4
Q1799  e21bl. prescr dk-5
Q1800  e21e. prescr dk-6
Q1801  e21f. prescr dk-7
Q1804  e22.in-home serv
Q1806  e23. in-home r pay $
Q1808  e24. use service
Q1811  e24a.special r pay $
Q1812  e24b.special dk-1
Q1813  e24c.special dk-2
Q1814  e24d.special dk-3
Q1815  e24e.special dk-4
Q1816  e24f.special dk-5
Q1817  e25x.other medical expenses
Q1818  e25ax.other medical pay $
Q1819  e25bx.other medical dk-1
Q1820  e25cx.other medical dk-2
Q1821  e25dx.other medical dk-3
Q1822  e25ex.other medical dk-4
Q1823  e25fx.other medical dk-5
Q519  cs11.r in nursing home

Wave 5 Exit:
R1739  e1. hospital-yr
R1746  e4. hosp $ not cov
R1754  e5. nursing home-yr
R1759  e8.nurhm not cov
R1760  e10. nurhm or hosp r pay $
R1761  e10a. nurhm or hosp dk-1
Section C: Health Care Utilization and Insurance

R1762  e10b. nurhm or hosp dk-2
R1763  e10c. nurhm or hosp dk-3
R1764  e10b1. nurhm or hosp dk-2
R1765  e10y1bl. nurhm or hosp dk-2
R1766  e10d. nurhm or hosp dk-4
R1767  e10e. nurhm or hosp dk-5
R1775  ex10g. hospice-yr
R1780  ex10k. hospice not cov
R1781  ex10m. hospice r pay $
R1782  ex10n. hospice dk-1
R1783  ex10p. hospice dk-2
R1784  ex10q. hospice dk-3
R1785  ex10r. hospice dk-2
R1786  ex10s. hospice dk-2
R1787  ex10t. hospice dk-4
R1788  ex10u. hospice dk-5
R1789  e11. dr times
R1795  e13. dr-not covered
R1800  e18a. doctor/out r pay $
R1801  e18b. dr/out dk-1
R1802  e18c. dr/out dk-2
R1803  e18d. dr/out dk-3
R1804  e18e. dr/out dk-4
R1805  e18c1. dr/out dk-2
R1806  e18f. dr/out dk-4
R1807  e18g. dr/out dk-5
R1808  e20. drugs-yr
R1809  e21. drugs-not covered
R1810  e21a. prescr r pay $
R1811  e21b. prescr dk-1
R1812  e21c. prescr dk-2
R1813  e21d. prescr dk-3
R1814  e21e. prescr dk-4
R1815  e21b1. prescr dk-2
R1816  e21y1e. prescr dk-4
R1817  e21f. prescr dk-5
R1820  e22. in-home serv
R1822  e23. in-home r pay $
R1824  e24. r use service
R1827  e24a. special r pay $
R1828  e24b. special dk-1
R1829  e24c. special dk-2
R1830  e24d. special dk-3
R1831  e24e. special dk-4
R1832  e24f. special dk-5
R1834  e25x. other medical expenses
R1835  e25ax. other medical pay $
R1836  e25bx. other medical dk-1
R1837  e25cx. other medical dk-2
R1838  e25dx. other medical dk-3
R1839  e25ex. other medical dk-4
R1840  e25fx. other medical dk-5
R1840  e25fx. other medical dk-5
R558  cs11.r in nursing home

Wave 6 Exit:
SA124  location of death
SN099  overnight stay in hosp-since prev iw/2yr
SN102  hospital stays covered by ins
SN106  amt paid o-o-p hospital costs
SN107  amt paid o-o-p hospital costs - min
SN108  amt paid o-o-p hospital costs - max
SN114  ever patient overnight in nursing home
SN118  nh costs covered by insurance
SN119  amt paid o-o-p nursing home
SN120  amt paid o-o-p nursing home- min
SN121  amt paid o-o-p nursing home- max
SN147  # times seen dr- prev iw/2 yrs
SN150  has r sought doc advice in past 2 yrs
SN152  doctor visits covered by insurance
SN156  amt pay o-o-p for doc visits
SN157  amt pay o-o-p for doc visits - min
SN158  amt pay o-o-p for doc visits - max
SN175  take prescription drugs regularly
SN176  drug costs covered by insurance
SN180  amt pay o-o-p rx drugs per month
SN181  amt pay o-o-p rx drugs per month- min
SN182  amt pay o-o-p rx drugs per month- max
SN189  used home health svc- prev iw/2 yrs
SN190  home health service cost covered by ins
SN194  amt pay o-o-p home health svc
SN195  amt pay o-o-p home health svc - min
SN196  amt pay o-o-p home health svc - max
SN202  used other health svc- prev iw/2 yrs
SN203  other health svc paid by r/sp/p
SN239  amt pay o-o-p other health service
SN246  amt pay o-o-p other health service- min
SN247  amt pay o-o-p other health service- max
SN320  since last iw- hospice patient
SN324  hospice stay cov by insurance
SN328  oop costs- hospice- amt
SN329  oop costs- hospice- min
SN330  oop costs- hospice- max
SN332  other oop medical expenses
SN333  other oop costs- amt
SN334  other oop costs- min
SN335  other oop costs- max

Wave 7 Exit:
TA124  location of death
TN099  overnight stay in hosp-since prev iw/2yr
TN102  hospital stays covered by ins
TN106  amt paid o-o-p hospital costs
TN107  amt paid o-o-p hospital costs - min
TN108  amt paid o-o-p hospital costs - max
TN114  ever patient overnight in nursing home
TN118  nh costs covered by insurance
TN119  amt paid o-o-p nursing home
TN120  amt paid o-o-p nursing home- min
TN121  amt paid o-o-p nursing home- max
TN147  # times seen dr- prev iw/2 yrs
TN150  has r sought doc advice in past 2 yrs
TN152  doctor visits covered by insurance
TN156  amt pay o-o-p for doc visits
TN157  amt pay o-o-p for doc visits - min
TN158  amt pay o-o-p for doc visits - max
TN175  take prescription drugs regularly
TN176  drug costs covered by insurance
TN180  amt pay o-o-p rx drugs per month
TN181  amt pay o-o-p rx drugs per month- min
TN182  amt pay o-o-p rx drugs per month- max
TN189  used home health svc- prev iw/2 yrs
TN190  home health service cost covered by ins
TN194  amt pay o-o-p home health svc
TN195  amt pay o-o-p home health svc - min
TN196  amt pay o-o-p home health svc - max
TN202  used other health svc- prev iw/2 yrs
TN203  other health svc paid by r/sp/p
TN239  amt pay o-o-p other health service
TN246  amt pay o-o-p other health service- min
TN247  amt pay o-o-p other health service- max
TN320  since last iw- hospice patient
TN324  hospice stay cov by insurance
TN328  oop costs- hospice- amt
TN329  oop costs- hospice- min
TN330  oop costs- hospice- max
TN332  other oop medical expenses
TN333  other oop costs- amt
TN334  other oop costs- min
TN335  other oop costs- max

Wave 8 Exit:
UA124  location of death
UN099  overnight stay in hosp-since prev iw/2yr
UN102  hospital stays covered by ins
UN106  amt paid o-o-p hospital costs
UN107  amt paid o-o-p hospital costs - min
UN108  amt paid o-o-p hospital costs - max
UN114  ever patient overnight in nursing home
UN118  nh costs covered by insurance
UN119  amt paid o-o-p nursing home
UN120  amt paid o-o-p nursing home- min
UN121  amt paid o-o-p nursing home- max
UN147  # times seen dr- prev iw/2 yrs
UN150  has r sought doc advice in past 2 yrs
UN152  doctor visits covered by insurance
UN156  amt pay o-o-p for doc visits
UN157  amt pay o-o-p for doc visits - min
UN158  amt pay o-o-p for doc visits - max
UN175  take prescription drugs regularly
UN176  drug costs covered by insurance
UN180  amt pay o-o-p rx drugs per month
UN181  amt pay o-o-p rx drugs per month- min
UN182  amt pay o-o-p rx drugs per month- max
UN189  used home health svc- prev iw/2 yrs
UN190  home health service cost covered by ins
UN194  amt pay o-o-p home health svc
UN195  amt pay o-o-p home health svc - min
UN196  amt pay o-o-p home health svc - max
UN202  used other health svc- prev iw/2 yrs
UN203  other health svc paid by r/sp/p
UN239  amt pay o-o-p other health service
UN246  amt pay o-o-p other health service- min
UN247  amt pay o-o-p other health service- max
UN320  since last iw- hospice patient
UN324  hospice stay cov by insurance
UN328  oop costs- hospice- amt
UN329  oop costs- hospice- min
UN330  oop costs- hospice- max
UN332  other oop medical expenses
UN333  other oop costs- amt
UN334  other oop costs- min
UN335  other oop costs- max

Wave 9 Exit:
VA124  location of death
VN099  overnight stay in hosp-since prev iw/2yr
VN102  hospital stays covered by ins
VN106  amt paid o-o-p hospital costs
VN107  amt paid o-o-p hospital costs - min
VN108  amt paid o-o-p hospital costs - max
VN114  ever patient overnight in nursing home
VN118  nh costs covered by insurance
VN119  amt paid o-o-p nursing home
VN120          amt paid o-o-p nursing home- min
VN121          amt paid o-o-p nursing home- max
VN147          # times seen dr- prev iw/2 yrs
VN150          has r sought doc advice in past 2 yrs
VN152          doctor visits covered by insurance
VN156          amt pay o-o-p for doc visits
VN157          amt pay o-o-p for doc visits - min
VN158          amt pay o-o-p for doc visits - max
VN175          take prescription drugs regularly
VN176          drug costs covered by insurance
VN180          amt pay o-o-p rx drugs per month
VN181          amt pay o-o-p rx drugs per month- min
VN182          amt pay o-o-p rx drugs per month- max
VN194          amt pay o-o-p home health svc
VN195          amt pay o-o-p home health svc - min
VN196          amt pay o-o-p home health svc - max
VN320          since last iw- hospice patient
VN324          hospice stay cov by insurance
VN329          oop cost- hospice- min
VN330          oop cost- hospice- max
VN332          other oop medical expenses
VN333          other oop costs- amt
VN334          other oop costs- min
VN335          other oop costs- max
Wave 10 Exit:
WA124          location of death
WN099          overnight stay in hosp-since prev iw/2yr
WN102          hospital stays covered by ins
WN106          amt paid o-o-p hospital costs
WN107          amt paid o-o-p hospital costs - min
WN108          amt paid o-o-p hospital costs - max
WN114          ever patient overnight in nursing home
WN118          nh costs covered by insurance
WN119          amt paid o-o-p nursing home
WN120          amt paid o-o-p nursing home- min
WN121          amt paid o-o-p nursing home- max
WN134          outpatient surgery- prev iw/2 yrs
WN135          outpatient surg costs covered by hi
WN139          amt paid o-o-p outpat surgery
WN140          amt paid o-o-p outpat surgery - min
WN141          amt paid o-o-p outpat surgery - max
WN147          # times seen dr- prev iw/2 yrs
WN150          has r sought doc advice in past 2 yrs
WN152          doctor visits covered by insurance
WN156          amt pay o-o-p for doc visits
WN157          amt pay o-o-p for doc visits - min
WN158          amt pay o-o-p for doc visits - max
WN164          seen dentist since prev iw/2yrs
WN165          dental costs covered by insurance
WN168          amt pay o-o-p dental
WN169          amt pay o-o-p dental - min
WN170          amt pay o-o-p dental - max
WN175          take prescription drugs regularly
WN176          drug costs covered by insurance
WN180          amt pay o-o-p rx drugs per month
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WN181</td>
<td>amount paid out-of-pocket for prescription drugs per month - minimum</td>
</tr>
<tr>
<td>WN182</td>
<td>amount paid out-of-pocket for prescription drugs per month - maximum</td>
</tr>
<tr>
<td>WN189</td>
<td>used home health service - previous 2 years</td>
</tr>
<tr>
<td>WN190</td>
<td>home health service cost covered by insurance</td>
</tr>
<tr>
<td>WN194</td>
<td>amount paid out-of-pocket for home health service - minimum</td>
</tr>
<tr>
<td>WN195</td>
<td>amount paid out-of-pocket for home health service - maximum</td>
</tr>
<tr>
<td>WN202</td>
<td>used other health service - previous 2 years</td>
</tr>
<tr>
<td>WN203</td>
<td>other health service paid by relative/spouse/other person</td>
</tr>
<tr>
<td>WN239</td>
<td>amount paid out-of-pocket for other health service</td>
</tr>
<tr>
<td>WN246</td>
<td>amount paid out-of-pocket for other health service - minimum</td>
</tr>
<tr>
<td>WN247</td>
<td>amount paid out-of-pocket for other health service - maximum</td>
</tr>
<tr>
<td>WN320</td>
<td>since last hospitalization - hospice patient</td>
</tr>
<tr>
<td>WN324</td>
<td>hospice stay covered by insurance</td>
</tr>
<tr>
<td>WN328</td>
<td>oop costs - hospice - amount</td>
</tr>
<tr>
<td>WN329</td>
<td>oop costs - hospice - minimum</td>
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<tr>
<td>WN330</td>
<td>oop costs - hospice - maximum</td>
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<td>WN332</td>
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<tr>
<td>WN333</td>
<td>other health service paid by relative/spouse/other person</td>
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<td>WN334</td>
<td>amount paid out-of-pocket for other health service</td>
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<tr>
<td>WN335</td>
<td>amount paid out-of-pocket for other health service - minimum</td>
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**Wave 11 Exit:**

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<tbody>
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<td>location of death</td>
</tr>
<tr>
<td>XN099</td>
<td>overnight stay in hospice - since previous 2 years</td>
</tr>
<tr>
<td>XN102</td>
<td>hospital stays covered by insurance</td>
</tr>
<tr>
<td>XN106</td>
<td>amount paid out-of-pocket for hospital costs</td>
</tr>
<tr>
<td>XN107</td>
<td>amount paid out-of-pocket for hospital costs - minimum</td>
</tr>
<tr>
<td>XN108</td>
<td>amount paid out-of-pocket for hospital costs - maximum</td>
</tr>
<tr>
<td>XN114</td>
<td>ever patient overnight in nursing home</td>
</tr>
<tr>
<td>XN118</td>
<td>nh costs covered by insurance</td>
</tr>
<tr>
<td>XN119</td>
<td>amount paid out-of-pocket for nursing home</td>
</tr>
<tr>
<td>XN120</td>
<td>amount paid out-of-pocket for nursing home - minimum</td>
</tr>
<tr>
<td>XN121</td>
<td>amount paid out-of-pocket for nursing home - maximum</td>
</tr>
<tr>
<td>XN134</td>
<td>outpatient surgery - previous 2 years</td>
</tr>
<tr>
<td>XN135</td>
<td>outpatient surgery costs covered by insurance</td>
</tr>
<tr>
<td>XN139</td>
<td>amount paid out-of-pocket for outpatient surgery</td>
</tr>
<tr>
<td>XN140</td>
<td>amount paid out-of-pocket for outpatient surgery - minimum</td>
</tr>
<tr>
<td>XN141</td>
<td>amount paid out-of-pocket for outpatient surgery - maximum</td>
</tr>
<tr>
<td>XN147</td>
<td>number of times seen doctor - previous 2 years</td>
</tr>
<tr>
<td>XN150</td>
<td>has sought doctor advice in past 2 years</td>
</tr>
<tr>
<td>XN152</td>
<td>doctor visits covered by insurance</td>
</tr>
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<td>XN156</td>
<td>amount paid out-of-pocket for doctor visits</td>
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<td>XN157</td>
<td>amount paid out-of-pocket for doctor visits - minimum</td>
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<td>XN158</td>
<td>amount paid out-of-pocket for doctor visits - maximum</td>
</tr>
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<td>XN164</td>
<td>seen dentist since previous 2 years</td>
</tr>
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<td>XN165</td>
<td>dental costs covered by insurance</td>
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<td>XN168</td>
<td>amount paid out-of-pocket for dental care</td>
</tr>
<tr>
<td>XN169</td>
<td>amount paid out-of-pocket for dental care - minimum</td>
</tr>
<tr>
<td>XN170</td>
<td>amount paid out-of-pocket for dental care - maximum</td>
</tr>
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<td>XN175</td>
<td>take prescription drugs regularly</td>
</tr>
<tr>
<td>XN176</td>
<td>drug costs covered by insurance</td>
</tr>
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<td>XN180</td>
<td>amount paid out-of-pocket for prescription drugs per month</td>
</tr>
<tr>
<td>XN181</td>
<td>amount paid out-of-pocket for prescription drugs per month - minimum</td>
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<tr>
<td>XN182</td>
<td>amount paid out-of-pocket for prescription drugs per month - maximum</td>
</tr>
<tr>
<td>XN189</td>
<td>used home health service - previous 2 years</td>
</tr>
<tr>
<td>XN190</td>
<td>home health service cost covered by insurance</td>
</tr>
<tr>
<td>XN194</td>
<td>amount paid out-of-pocket for home health service</td>
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<td>XN195</td>
<td>amount paid out-of-pocket for home health service - minimum</td>
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<td>XN196</td>
<td>amount paid out-of-pocket for home health service - maximum</td>
</tr>
<tr>
<td>XN202</td>
<td>used other health service - previous 2 years</td>
</tr>
<tr>
<td>XN203</td>
<td>other health service paid by relative/spouse/other person</td>
</tr>
<tr>
<td>XN239</td>
<td>amount paid out-of-pocket for other health service</td>
</tr>
<tr>
<td>XN246</td>
<td>amount paid out-of-pocket for other health service - minimum</td>
</tr>
</tbody>
</table>
XN247  amt pay o-o-p other health service- max
XN320  since last iw- hospice patient
XN324  hospice stay cov by insurance
XN328  oop costs- hospice- amt
XN329  oop costs- hospice- min
XN330  oop costs- hospice- max
XN332  other oop medical expenses
XN333  other oop costs- amt
XN334  other oop costs- min
XN335  other oop costs- max

Wave 12 Exit:
YA124  location of death
YN099  overnight stay in hosp-since prev iw/2yr
YN106  amt paid o-o-p hospital costs
YN107  amt paid o-o-p hospital costs - min
YN108  amt paid o-o-p hospital costs - max
YN114  ever patient overnight in nursing home
YN119  amt paid o-o-p nursing home
YN120  amt paid o-o-p nursing home- min
YN121  amt paid o-o-p nursing home- max
YN134  outpatient surgery- prev iw/2 yrs
YN139  amt paid o-o-p outpat surgery
YN140  amt paid o-o-p outpat surgery - min
YN141  amt paid o-o-p outpat surgery - max
YN147  # times seen dr- prev iw/2 yrs
YN150  has r sought doc advice in past 2 yrs
YN156  amt pay o-o-p for doc visits
YN157  amt pay o-o-p for doc visits - min
YN158  amt pay o-o-p for doc visits - max
YN164  seen dentist since prev iw/2yrs
YN168  amt pay o-o-p dental
YN169  amt pay o-o-p dental - min
YN170  amt pay o-o-p dental - max
YN175  take prescription drugs regularly
YN180  amt pay o-o-p rx drugs per month
YN181  amt pay o-o-p rx drugs per month- min
YN182  amt pay o-o-p rx drugs per month- max
YN189  used home health svc- prev iw/2 yrs
YN194  amt pay o-o-p home health svc
YN195  amt pay o-o-p home health svc - min
YN196  amt pay o-o-p home health svc - max
YN202  other health svc paid by r/sp/p
YN239  amt pay o-o-p other health service
YN246  amt pay o-o-p other health service- min
YN247  amt pay o-o-p other health service- max
YN328  oop costs- hospice- amt
YN329  oop costs- hospice- min
YN330  oop costs- hospice- max
YN332  other oop medical expenses
YN333  other oop costs- amt
YN334  other oop costs- min
YN335  other oop costs- max
YN433_1  insurance pay any - 1
YN433_2  insurance pay any - 2
YN433_3  insurance pay any - 3
YN433_4  insurance pay any - 4
YN433_5  insurance pay any - 5
YN433_6  insurance pay any - 6
YN433_7  insurance pay any - 7
YN434_1  insurance pay all - 1
YN434_2  insurance pay all - 2
YN434_3  insurance pay all - 3
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<td>YN434_4</td>
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<td>YN434_5</td>
<td>insurance pay all - 5</td>
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<td>YN434_6</td>
<td>insurance pay all - 6</td>
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<td>insurance pay all - 7</td>
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<td>YN436</td>
<td>hospice service</td>
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Out-Of-Pocket Medical Costs: Help with OOP Costs from Others

Wave Variable | Label | Type
--- | --- | ---
OA RAXOOPHELP | raxoophelp: r whether anyone helped pay oop costs | Categ
OA RAXOOPWHO | raxoopwho: r who helped pay oop costs | Categ
OA RAXOOPAMT | raxoopamt: r oop cost: help from others | Cont
OA RAXOOPAMTF | raxoopamtf: r oop cost flag: help from others | Categ

Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
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<td>10528</td>
<td>0.07</td>
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<td>RAXOOPWHO</td>
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<td>1.32</td>
<td>0.65</td>
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<td>RAXOOPAMT</td>
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<td>400.81</td>
<td>3669.60</td>
<td>0.00</td>
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<td>RAXOOPAMTF</td>
<td>12036</td>
<td>5.94</td>
<td>1.15</td>
<td>1.00</td>
<td>7.00</td>
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</tbody>
</table>

Categorical Variable Codes

Value----------------------| RAXOOPHELP
.d:dk                      | 132
.m:missing                 | 30
.q: not asked this wave    | 174
.r: refuse                 | 16
.x: not applicable         | 2072
0. no                      | 9797
1. yes                     | 731

Value----------------------| RAXOOPWHO
.d:dk                      | 132
.h: no help                 | 9795
.m: missing                 | 30
.q: not asked this wave     | 174
.r: refuse                  | 16
.x: not asked, less than 10k | 2072
1. child                    | 568
2. relative                 | 98
3. other                    | 64
4. child and relative       | 2
5. child and other          | 1

Value----------------------| RAXOOPAMTF
.q: not asked this wave     | 916
1. continuous value         | 426
2. closed bracket           | 181
5. no bracket info          | 62
6. no expense               | 9135
7. dk had expense           | 2232

How Constructed:

RAXOOPHELP indicates whether anyone helped the respondent pay for health care costs, or for health or long-term care insurance since the previous interview or in the last 2 years before death, besides any costs covered by insurance. RAXOOPHELP is coded as 0 if nobody helped the respondent pay for health care or insurance costs. RAXOOPHELP is coded as 1 if somebody helped the respondent pay for health care or insurance costs. This question is not asked in HRS wave 2, and so RAXOOPHELP is assigned special missing .q in this wave. In wave 4, this question is not asked if the total major medical expenditure as calculated by the HRS (not
the values in RAXOOPMD or RAXOOPMDP) was $0, in which case RAXOOPHELP is assigned a 0. Starting in wave 11, this question is not asked if the total major medical expenditure as calculated by the HRS (not the values in RAXOOPMD or RAXOOPMDP) was $10,000 or less, in which case special missing .x is assigned. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXOOPWHO indicates the relationship of the person who helped the respondent pay for health care or insurance costs. RAXOOPWHO is coded as follows: 1.child, 2.relative, 3.other, 4.child and relative, 5.child and other. RAXOOPWHO is coded as 1 if the proxy reports that a child, child-in-law, or grandchild of the respondent helped the respondent pay for these costs. RAXOOPWHO is coded as 2 if the proxy reports that another relative helped the respondent pay for these costs. RAXOOPWHO is coded as 3 if the proxy reports that someone else helped the respondent pay for these costs. RAXOOPWHO is coded as 4 if the proxy reports that a child, child-in-law, or grandchild and another relative helped the respondent pay for these costs. RAXOOPWHO is coded as 5 if the proxy reports that a child, child-in-law or grandchild and someone else helped the respondent pay for these costs. RAXOOPWHO is coded as special missing .h if nobody helped the respondent pay for these costs. In wave 4, this question is not asked if the total major medical expenditure as calculated by the HRS (not the values in RAXOOPMD or RAXOOPMDP) was $0, in which case RAXOOPWHO is also assigned a special missing .h. This question is not asked in HRS wave 2, and so RAXOOPWHO is assigned special missing .q in this wave. Starting in wave 11, if the proxy was not asked whether anyone helped pay for these costs because the total expenditure was $10,000 or less, then RAXOOPWHO is assigned special missing .x. In wave 4, the proxy is able to respond with up to 2 relationships who helped the respondent pay costs, though none of the proxies reported a second relationship. In wave 5, the proxy is able to respond with up to 3 relationships who helped the respondent pay costs, so options 4 and 5 are only relevant to this wave. In all other waves, the proxy is only able to respond with one relationship who helped the respondent pay costs. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXOOPAMT is the amount the respondent received as help from someone to cover the costs of health care or insurance and includes imputed values. Starting in wave 6, if, when asked for a value, the proxy responds don't know or refused, a series of unfolding bracket questions is asked to obtain a minimum and maximum value of the amount received from someone. RAXOOPAMT has been adjusted to 2010 dollars based on the consumer price index for the year of death. RAXOOPAMT is assigned a value of 0 if nobody helped the respondent pay for these costs. Starting in wave 11, if the proxy was not asked whether anyone helped pay for these costs because the total expenditure was $10,000 or less, then RAXOOPAMT is assigned special missing .x. RAXOOPAMT is not available in HRS wave 2 or AHEAD wave 2 and are assigned special missing .q in these waves.

In HRS waves 3 through 5, no bracket questions are asked if the proxy did not provide an exact amount for the amount of help received from someone. For these waves, all imputations are computed without any bracket information. In waves 6 and onward, if the proxy does not give an exact amount for the amount of help received from someone, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value. The threshold values for the amount someone helped the respondent with health care costs are $500, $1,000, $3,000, $10,000. This information is used in the imputation of RAXOOPAMT.

RAXOOPAMTF is a flag variable indicating the highest level of imputation of the components of RAXOOPAMT. A code of 1 indicates the proxy reported a continuous value and no imputation was necessary. A code of 2 indicates that the value was imputed based on a closed bracket. A code of 3 indicates that the value was imputed based on an open bracket. A code of 5 indicates that the value was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not receiving any help with health costs and the value is 0. A code of 7 indicates that the proxy was unsure whether anyone helped the respondent with the cost of health care or insurance. RAXOOPAMTF is not available in HRS wave 2 or AHEAD wave 2 and are assigned special missing .q in these waves.

Cross Wave Differences in HRS

Questions regarding whether the respondent received help with out-of-pocket expenses, who helped and how much was received are not asked in HRS wave 2. The proxy is not asked how much
the respondent received if someone helped the respondent with out-of-pocket expenses in AHEAD wave 2.

In wave 4, if the respondent's out-of-pocket medical expenditures totaled $0 (as calculated by the HRS, not the values in RAXOOPMD), the proxy was not asked these questions. Please note that because the total was $0, we assumed that the respondent received no help from other people.

Starting in wave 11, if the respondent's out-of-pocket medical expenditures totaled to $10,000 or less (as calculated by the HRS, not the values in RAXOOPMD or RAXOOPMDP), the proxy was not asked these questions.

In wave 4, the proxy is able to report up to 2 relationships who helped the respondent pay costs, though none of the proxies reported a second relationship. In wave 5, the proxy is able to report up to 3 relationships who helped the respondent pay costs, so options 4 and 5 in RAXOOPWHO are only relevant to this wave. In all other waves, the proxy is only able to report one relationship who helped the respondent pay costs.

No bracket questions were asked if the proxy does not report a value for the amount that someone helped the respondent with out-of-pocket costs in HRS waves 3 through 5. Unfolding bracket questions were asked to determine and minimum and maximum value for the amount that someone helped the respondent with out-of-pocket costs starting in HRS wave 6.

**HRS Variables Used:**

Wave 2A Exit:
- N1812          e27.others help $
- N1813          e28.who help

Wave 3 Exit:
- P1393          e27. others help $
- P1394          e28. who help
- P1397          e30.amount of oth help

Wave 4 Exit:
- Q1829          sum-major medical expenses
- Q1831          e27. others help $
- Q1832M1        e28. who help-1
- Q1835          e30.amount of oth help

Wave 5 Exit:
- R1848          e27. others help $
- R1849M1        e28. who help-1
- R1849M2        e28. who help-2
- R1852          e30.amount of oth help

Wave 6 Exit:
- SN212          help pay health care costs
- SN213          who help pay health care costs
- SN215          amt of other help
- SN216          amt of other help - min
- SN217          amt of other help - max

Wave 7 Exit:
- TN212          help pay health care costs
- TN213          who help pay health care costs
- TN215          amt of other help
- TN216          amt of other help - min
- TN217          amt of other help - max

Wave 8 Exit:
- UN212          help pay health care costs
- UN213          who help pay health care costs
- UN215          amt of other help
- UN216          amt of other help - min
- UN217          amt of other help - max

Wave 9 Exit:
- VN212          help pay health care costs
- VN213          who help pay health care costs
VN215        amt of other help
VN216        amt of other help - min
VN217        amt of other help - max

Wave 10 Exit:
WN212        help pay health care costs
WN213        who help pay health care costs
WN215        amt of other help
WN216        amt of other help - min
WN217        amt of other help - max

Wave 11 Exit:
XN211        total o-o-p for major medical costs
XN212        help pay health care costs
XN213        who help pay health care costs
XN215        amt of other help
XN216        amt of other help - min
XN217        amt of other help - max

Wave 12 Exit:
YN211        total o-o-p for major medical costs
YN212        help pay health care costs
YN213        who help pay health care costs
YN215        amt of other help
YN216        amt of other help - min
YN217        amt of other help - max
## Out-Of-Pocket Medical Costs: How Medical Expenses were Financed by Respondent

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### How Constructed:

RAXOOPSAVE, RAXOOPLOAN, RAXOOPNYET, RAXOOPPYMT, RAXOOPNTR, and RAXOOPOTHR indicate how the respondent financed his/her out-of-pocket medical expenditures. If the total out-of-pocket medical expenditures amount to more than $10,000 in wave 6 ($10,001+) or to $10,000 or more in waves 4, 5, 7 and onward ($10,000+) (as calculated by the HRS, not the values in RAXOOPMD or RAXOOPMDP), the proxy is asked how the respondent financed these costs, and is able to choose all of the responses that apply. RAXOOPSAVE indicates that the proxy reported that the respondent paid these costs using savings or earnings. RAXOOPLOAN indicates that the proxy reported that the respondent financed these costs by taking out a loan. RAXOOPNYET indicates that the proxy reported that the respondent has not yet paid these costs. RAXOOPPYMT indicates that the proxy reported that the respondent was making payments for the costs. RAXOOPNTR indicates that the proxy reported that the respondent did not pay these costs because they filed for bankruptcy, someone else paid the costs, the doctor let the bills drop, etc. RAXOOPOTHR indicates that the proxy reported that the respondent financed these costs in another way. These variables are coded as 0 if the respondent did not finance the costs in the specified way, and coded as 1 if the respondent did finance the costs in the specified way. If the proxy was not asked this question because the total out-of-pocket expenditures (as calculated by the HRS, not the values in RAXOOPMD or RAXOOPMDP) were below the threshold, then these variables are assigned special missing .x. Starting in wave 7, the proxy is able to indicate that the records are inaccurate and that the respondent did not have a large out-of-pocket expenditure, in which case these variables are assigned special missing .i. In AHEAD wave 2 and HRS waves 2 and 3 and starting again in wave 11, this question is not asked and these variables are assigned special missing .q. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

### Cross Wave Differences in HRS

In wave 6, the proxy is not asked how the respondent’s out-of-pocket medical costs were financed if the HRS-calculated total out-of-pocket expenditures are $10,000 or less (costs must be $10,001+ to be asked). In waves 4 and 5, and starting again in wave 7, the proxy is not asked this question if the HRS-calculated total out-of-pocket expenditures are less than $10,000 (costs must be $10,000+ to be asked).

Starting in wave 7, the proxy is able to indicate that the records are inaccurate and that the respondent did not have a large out-of-pocket expenditure.
In AHEAD wave 2 and HRS waves 2 and 3 and starting again in wave 11, the proxy is not asked how the respondent financed his/her out-of-pocket medical costs.

**HRS Variables Used:**

**Wave 4 Exit:**
- Q1829: sum-major medical expenses
- Q1836M1: e31.how finance large medical expenses-1
- Q1836M2: e31.how finance large medical expenses-2
- Q1836M3: e31.how finance large medical expenses-3
- Q1836M4: e31.how finance large medical expenses-4

**Wave 5 Exit:**
- R1846: e24y5.sum-major medical expenses
- R1853M1: e31.how finance large medical expenses-1
- R1853M2: e31.how finance large medical expenses-2
- R1853M3: e31.how finance large medical expenses-3

**Wave 6 Exit:**
- SN211: total o-o-p for major medical costs
- SN217: amt of other help - max
- SN219M1: how finance large medical expenses - 1
- SN219M2: how finance large medical expenses - 2
- SN219M3: how finance large medical expenses - 3

**Wave 7 Exit:**
- TN211: total o-o-p for major medical costs
- TN217: amt of other help - max
- TN219M1: how finance large medical expenses - 1
- TN219M2: how finance large medical expenses - 2
- TN219M3: how finance large medical expenses - 3

**Wave 8 Exit:**
- UN211: total o-o-p for major medical costs
- UN217: amt of other help - max
- UN219M1: how finance large medical expenses - 1
- UN219M2: how finance large medical expenses - 2
- UN219M3: how finance large medical expenses - 3
- UN219M4: how finance large medical expenses-4

**Wave 9 Exit:**
- VN211: total o-o-p for major medical costs
- VN217: amt of other help - max
- VN219M1: how finance large medical expenses - 1
- VN219M2: how finance large medical expenses - 2
- VN219M3: how finance large medical expenses - 3
- VN219M4: how finance large medical expenses-4

**Wave 10 Exit:**
- WN211: total o-o-p for major medical costs
- WN217: amt of other help - max
- WN219M1: how finance large medical expenses - 1
- WN219M2: how finance large medical expenses - 2
- WN219M3: how finance large medical expenses - 3
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Section E: Financial and Housing Wealth
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How Constructed:

CyyyyCPINDEX is the annual consumer price index for the year of the respondent's death. CyyyyCPINDEX uses 2010 as its base year so the consumer price index for a respondent who died in 2010 would be 100. This consumer price index is used as an inflation multiplier for the comparison of financial values between different years for all financial variables in the Harmonized HRS Exit dataset. The consumer price index of the year of death has already been used to adjust the monetary values provided in the HRS Exit survey.

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 HRS

Consumer price index values are not based on any HRS Exit survey question.
Main House: Ownership and Disposition

Wave Variable | Label | Type
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RAXHOMEDIS | raxhomedis: disposition of r's home since last ivw | Categ

Descriptive Statistics

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</table>

Categorical Variable Codes

Value----------------------| RAXAHOWN
.d:dk | 19
.e:skip pattern error | 218
.h:no housing info prv wv | 718
.i:records incorrect | 218
.m:missing | 106
.n:in nursing home | 863
.q:not asked this wave | 174
.r:refuse | 8
0.no | 4449
1.yes | 6179

Value----------------------| RAXHOMEDIS
.d:dk | 68
.e:skip pattern error | 218
.h:no housing info prv wv | 724
.i:records incorrect | 169
.m:missing | 202
.n:in nursing home | 863
.q:not asked this wave | 174
.r:refuse | 29
.x:didn't own home | 3621
1.surviving spouse still ow | 2959
2.gave away before death | 285
3.became inheritance after | 1587
4.sold before death | 373
5.sold after death | 1153
6.not yet disposed after de | 256
7.other before death | 97
8.other after death | 123
9.foreclosed | 71

How Constructed:

Whether the deceased respondent owned his/her main residence at the time of death and what happened to the main residence are asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. Once the questions are answered, the proxy is not asked these questions again if any further exit interviews are conducted. As such, RAXAHOWN and RAXHOMEDIS can contain responses from the exit interview, post exit interview, or post post exit interview.

RAXAHOWN indicates whether the deceased respondent owned the main residence when he/she died, according to the proxy. Starting in AHEAD wave 2 and HRS wave 3, the proxy is asked whether the respondent and his/her spouse/partner owned their home at death, regardless of the type of home, based on a preload indicating home ownership. Starting in AHEAD wave 2 and HRS wave 3, RAXAHOWN is coded as 0 if the preload indicates that the respondent owned a home at the
previous interview but it was no longer owned at death, or if the preload indicates that the respondent rented or neither owned nor rented at the previous interview. RAXAHOWN is coded as 1 if the preload indicates that the respondent owned a home at the previous interview that was still owned at death. RAXAHOWN is assigned special missing .h if the preload contains no housing information from the previous wave, and the proxy was not asked this question. In AHEAD wave 2, RAXAHOWN is assigned special missing .e if the preload indicates that the respondent owned a home at the last interview, but the proxy was not asked whether the respondent continued to own his/her home at the time of death because there was error in the skip pattern. Starting in HRS wave 3, RAXAHOWN is assigned special missing .i if the proxy states that the records in the preload were incorrect. Starting in wave 7, RAXAHOWN is assigned special missing .n if the preload indicates that the respondent was living in a nursing home at the previous interview and the proxy was not asked about home ownership. This question is not asked in HRS wave 2, and RAXAHOWN is assigned special missing .q in this wave. Don't know, refused, and other missing responses are assigned special missing .d, .r, .m, respectively.

RAXHOMEDIS indicates what happened to the main residence that the respondent owned at the previous interview, according to the proxy. The proxy is asked what happened to the home separately for those who still owned the home at the time of death and for those who owned the home at the previous interview but no longer owned it at the time of death, both reports are incorporated into RAXHOMEDIS. RAXHOMEDIS is coded as follows: 1.surviving spouse still owns, 2.gave away before death, 3.became inheritance after death, 4.sold before death, 5.sold after death, 6.not yet disposed after death, 7.other before death, 8.other after death, 9.foreclosed. RAXHOMEDIS is coded as 1 if the respondent owned his/her main residence until death and his/her surviving spouse still owns it. RAXHOMEDIS is coded as 2 if the respondent gave the main residence to someone between the previous interview and death. RAXHOMEDIS is coded as 3 if the respondent owned his/her main residence until death and someone inherited it after the respondent's death. RAXHOMEDIS is coded as 4 if the respondent sold his/her main residence between the previous interview and death. RAXHOMEDIS is coded as 5 if the respondent owned his/her main residence until death and it was sold after the respondent's death. RAXHOMEDIS is coded as 6 if the respondent owned his/her main residence until death and it has not yet been disposed. RAXHOMEDIS is coded as 7 if something other happened to the main residence between the respondent's previous interview and death. RAXHOMEDIS is coded as 8 if the respondent owned the main residence until death and something other happened to it after death. RAXHOMEDIS is coded as 9 if the proxy reports that the home was foreclosed or repossessed between the previous interview and death or after death. This answer choice is present in all waves except exit and post (post) exit interviews in waves 4 and 6. As such, if the first exit interview took place in wave 4 or 6, but the disposition of the home is ascertained in a post or post post exit interview in another wave, then RAXHOMEDIS can be coded as 9.

RAXHOMEDIS is assigned special missing .x if the housing preload indicates that the respondent rented or neither owned nor rented their home at the time of the last core interview. RAXHOMEDIS is assigned special missing .h if the preload contains no housing information from the previous wave, and the proxy was not asked these questions. In AHEAD wave 2, RAXHOMEDIS is assigned special missing .e if the preload indicates that the respondent owned a home at the last interview, but the proxy was not asked whether the respondent continued to own his/her home at the time of death because there was error in the skip pattern. Starting in HRS wave 3, RAXHOMEDIS is assigned special missing .i if the proxy states that the records recorded in the preload were incorrect when asked if the respondent still owned his/her home at death. Starting in wave 7, RAXHOMEDIS is assigned special missing .n if the preload indicates that the respondent was living in a nursing home at the previous interview and the proxy was not asked about home ownership. In waves 4, 7, 8 and 12, RAXHOMEDIS is also assigned special missing .x if the proxy reports that the home was owned by the respondent's spouse/partner and not by the respondent. These questions are not asked in HRS wave 2, and RAXHOMEDIS is assigned special missing .q in this wave. Don't know, refused, and other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not directly asked whether the respondent owned his/her home at the time of death. Rather, the proxy is first asked whether the respondent and his/her spouse moved since the previous wave, and if they had moved, the proxy was then asked whether the
respondent and his/her spouse/partner owned their home, farm, or mobile home where they were now living. In this wave, the proxy is not asked what happened to the home after the respondent’s death. Starting in AHEAD wave 2 and HRS wave 3, the proxy is asked whether the respondent and his/her spouse/partner owned their home at death, regardless of the type of home, based on a preload indicating home ownership. Also starting in AHEAD wave 2 and HRS wave 3, the proxy is asked what happened to the home after the respondent's death if the respondent still owned the home at the time of death and if the respondent no longer owned the home at the time of death.

Please note that there are higher percentages of .m special missing values in RAXAHOWN and RAXHOMEDIS from AHEAD wave 2.

While the preload can indicate missing housing information from the previous wave in all waves, there are significantly higher percentages of missing housing information in HRS waves 5 and 6.

Starting in wave 3, the proxy can indicate that the records in the preload were incorrect when asked if the respondent still owned his/her home at the time of death. Starting in AHEAD wave 2 and HRS wave 3, foreclosed is an option for the disposition of the home both before and after death in all waves except for waves 4 and 6. Starting in wave 7, the preload also indicates whether the respondent was living in a nursing home at the previous interview, in which case the proxy was not asked about home ownership. In waves 4, 7, 8 and 12, the proxy can report that the home was owned by the respondent's spouse/partner and not by the respondent.

**HRS Variables Used:**

**Wave 2A Exit:**
- N179 - w1 own rent
- N4821 - nlx.owned home
- N4822 - nlax.happened to home
- N4841 - n3x.home disposal

**Wave 3 Exit:**
- P179 - prev wave own rent
- P1903 - nlx.owned home
- P1904 - nlax.happened to home
- P1923 - n3x.home disposal

**Wave 4 Exit:**
- Q2315 - nlx.owned home
- Q2316 - nlax.happened to home
- Q2335 - n3x.home disposal
- Q2335M1 - n3x home disposal -1
- Q284 - prev wave own rent

**Wave 5 Exit:**
- R2323 - nlx.owned home
- R2324 - nlax.happened to home
- R2343 - n3x.home disposal
- R284 - pr284.prev wave own rent

**Wave 6 Exit:**
- ST101 - still owned main residence
- ST102 - disposition of home
- ST111 - dispo main res ii
- SZ132 - prev wave r owns or rents

**Wave 7 Exit:**
- TT101 - still owned main residence
- TT102 - disposition of home
- TT111 - dispo main res ii
- TZ079 - prev wave r owns or rents

**Wave 8 Exit:**
- UT101 - still owned main residence
- UT102 - disposition of home
- UT111 - dispo main res ii
- UZ079 - prev wave r owns or rents
Wave 9 Exit:
  VT101          still owned main residence
  VT102          disposition of home
  VT111          dispo main res ii
  VZ079          prev wave r owns or rents
Wave 10 Exit:
  WT101          still owned main residence
  WT102          disposition of home
  WT111          dispo main res ii
  WZ079          prev wave r owns or rents
Wave 11 Exit:
  XT101          still owned main residence
  XT102          disposition of home
  XT111          dispo main res ii
  XZ079          prev wave r owns or rents
Wave 12 Exit:
  YT101          still owned main residence
  YT102          disposition of home
  YT111          dispo main res ii
  YZ079          prev wave r owns or rents
Main House: Who Received or Inherited

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<td>Categ</td>
</tr>
<tr>
<td>RAXHOMECH</td>
<td>raxhomech: child/grandchild received or inherited r's home</td>
<td>Categ</td>
</tr>
<tr>
<td>RAXHOMERL</td>
<td>raxhomerl: relative received or inherited r's home</td>
<td>Categ</td>
</tr>
<tr>
<td>RAXHOMEOT</td>
<td>raxhomeot: other person received or inherited r's home</td>
<td>Categ</td>
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Descriptive Statistics

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Categorical Variable Codes

```
Value----------------------| RAXHOMESP
.d:dk                      | 93
.e:skip pattern error      | 218
.f:home foreclosed         | 65
.h:home housing info prv wv| 726
.i:records incorrect       | 172
.m:missing                 | 278
.n:in nursing home         | 863
.q:not asked this wave     | 174
.r:refuse                  | 37
.s:sold home or other      | 2014
.x:didn't own home         | 3621
0.no                       | 1669
1.yes                      | 3022
```

```
Value----------------------| RAXHOMECH
.d:dk                      | 93
.e:skip pattern error      | 218
.f:home foreclosed         | 65
.h:home housing info prv wv| 726
.i:records incorrect       | 172
.m:missing                 | 278
.n:in nursing home         | 863
.q:not asked this wave     | 174
.r:refuse                  | 37
.s:sold home or other      | 2036
.x:didn't own home         | 3621
0.no                       | 3236
1.yes                      | 1433
```

```
Value----------------------| RAXHOMERL
.d:dk                      | 93
.e:skip pattern error      | 218
.f:home foreclosed         | 65
.h:home housing info prv wv| 726
.i:records incorrect       | 172
.m:missing                 | 278
.n:in nursing home         | 863
.q:not asked this wave     | 174
.r:refuse                  | 37
.s:sold home or other      | 2036
```
Section E: Financial and Housing Wealth

| x:didn't own home | 3621 |
| 0:no              | 4482 |
| 1:yes             | 187  |

Value----------------------| RAXHOMEOT
| .d:dk                | 93   |
| .e:skip pattern error| 218  |
| .f:home foreclosed   | 65   |
| .h:no housing info prv wv | 726 |
| .i:records incorrect | 172  |
| .m:missing           | 278  |
| .n:nin nursing home  | 863  |
| .q:not asked this wave| 174 |
| .r:refuse            | 37   |
| .s:sold home or other| 2036 |
| x:didn't own home    | 3621 |
| 0:no                 | 4611 |
| 1:yes                | 58   |

How Constructed:

Whether a spouse, child or grandchild, relative, or other person was given or inherited the respondent’s main residence is asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. Once the question is answered, the proxy is not asked these questions again if any further exit interviews are conducted. As such, RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT can contain responses from the exit interview, post exit interview, or post post exit interview.

RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT indicate whether a person of the specified relationship was given the main residence by the respondent between the previous interview and death or inherited a house from the respondent after death, as reported by the proxy. The proxy is asked who received the home separately for respondents who still owned the home at death and for respondents who owned the home at the previous interview but no longer owned it at death, both reports are incorporated into these variables. RAXHOMESP indicates whether the respondent's spouse or partner was given or inherited the home. RAXHOMECH indicates whether the respondent's child, child-in-law, or grandchild was given or inherited the home. RAXHOMERL indicates if another relative was given or inherited the home. RAXHOMEOT indicates if a friend, charity, or someone else was given or inherited the home. RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are coded as 0 if a person of the specified relationship did not receive the home, and are coded as 1 if a person of the specified relationship did receive the home.

RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .x if the housing preload indicates that the respondent rented or neither owned nor rented their home at the time of the last core interview. RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .s if the main residence was sold between the previous interview and death or after death, if something other happened to the main residence between the previous interview and death or after death, or if the main residence has not yet been disposed. RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .h if the preload contains no housing information from the previous wave, and the proxy was not asked these questions. In AHEAD wave 2, RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .e if the preload indicates that the respondent owned a home at the last interview, but the proxy was not asked whether the respondent continued to own his/her home at the time of death because there was error in the skip pattern. Starting in HRS wave 3, RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .i if the proxy states that the records recorded in the preload were incorrect when asked if the respondent still owned his/her home at death. In all waves except exit and post (post) exit interviews in waves 4 and 6, RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .f if the proxy reports that the home was foreclosed or repossessed between the previous interview and death or after death. Starting in wave 7, RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .n if the preload indicates that the respondent was living in a nursing home at the previous interview and the proxy was not asked about home ownership. In waves 4, 7, 8 and 12, RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are also assigned special missing .x if the proxy reports that the home was owned by the respondent’s spouse/partner and not by the respondent. These questions are not asked in HRS wave 2, and
RAXHOMESP, RAXHOMECH, RAXHOMERL, and RAXHOMEOT are assigned special missing .q in these waves. Don't know, refused, and other missing responses are assigned special missing .d, .r, .m, respectively.

**Cross Wave Differences in HRS**

Questions about who was given or inherited the respondent's home either before or after death are not asked in HRS wave 2.

Please note that there is a significantly higher percentage of .m special missing values in these variables from AHEAD wave 2.

While the preload can indicate missing housing information from the previous wave in all waves, there are significantly higher percentages of missing housing information in HRS waves 5 and 6.

Starting in wave 3, the proxy can indicate that the records in the preload were incorrect when asked if the respondent still owned his/her home at the time of death. Starting in AHEAD wave 2 and HRS wave 3, foreclosed is an option for the disposition of the home both before and after death in all waves except for waves 4 and 6. Starting in wave 7, the preload also indicates whether the respondent was living in a nursing home at the previous interview, in which case the proxy was not asked about home ownership. In waves 4, 7, 8 and 12, the proxy can report that the home was owned by the respondent's spouse/partner and not by the respondent.

In AHEAD wave 2 and HRS waves 3 and 4, if the respondent gave his/her home to someone prior to death or the respondent owned his/her home until death and someone inherited it after the respondent's death, then the proxy can choose from the following recipients: child/child-in-law/grandchild, other relative, friend, charity, someone else. Starting in wave 5, spouse is added as an option in both of these cases. As such, in AHEAD wave 2 and HRS waves 3 and 4, the proxy can indicate that the spouse continues to own the home only if the respondent owned the home until the time of death and the proxy reports that the surviving spouse still owns it when asked what happened to the home after the respondent's death. Whereas in wave 5 and onward, the proxy can report that the surviving spouse still owns it, or report that the house was given to the spouse prior to death or that the house was inherited by the spouse after the respondent's death.

In AHEAD wave 2 and HRS waves 3 and 4, if the respondent gave his/her home to someone prior to death or the respondent owned his/her home until death and someone inherited it after the respondent's death, then the proxy cannot distinguish between child/child-in-law/grandchild. In wave 6, the proxy cannot distinguish between child/child-in-law/grandchild in the exit interview, however in the post (post) exit interviews, the proxy can choose child/child-in-law or grandchild separately when asked who inherited the home after the respondent’s death. In wave 5 and in wave 7 and onward, the proxy can choose either child/child-in-law or grandchild in the exit and post (post) exit interviews.

**HRS Variables Used:**

### Wave 2A Exit:

- N179  \( w1 \) own rent
- N4821  nlx.owned home
- N4822  nlax.happened to home
- N4823M1  nlbx.relative give house
- N4841  n3x.home disposal
- N4842M1  n3ax.relative give house
- N4842M2  n3ax.relative give house

### Wave 3 Exit:

- P179  prev wave own rent
- P1903  nlx.owned home
- P1904  nlax.happened to home
- P1905M1  nlbx.relative give house
- P1923  n3x.home disposal
Wave 4 Exit:

P1924M1  n3ax.relative give house

Wave 5 Exit:

R2323  nlx.owned home
R2324  nlax.happened to home
R2325M1  nlbx.relative give house-1
R2343  n3x.home disposal
R2344M1  n3ax.relative give house-1
R2344M2  n3ax.relative give house-2
R284  pr284.prev wave own rent

Wave 6 Exit:

ST101  still owned main residence
ST102  disposition of home
ST104M1  give home- who- 1
ST104M2  give home- who- 2
ST111  dispo main res ii
ST113M1  who inherit house - 1
ST113M2  who inherit house - 2
SZ132  prev wave r owns or rents

Wave 7 Exit:

TT101  still owned main residence
TT102  disposition of home
TT104M1  give home- who- 1
TT104M2  give home- who- 2
TT111  dispo main res ii
TT113M1  who inherit house - 1
TT113M2  who inherit house - 2
TZ079  prev wave r owns or rents

Wave 8 Exit:

UT101  still owned main residence
UT102  disposition of home
UT104M1  give home- who- 1
UT104M2  give home- who- 2
UT111  dispo main res ii
UT113M1  who inherit house - 1
UT113M2  who inherit house - 2
UZ079  prev wave r owns or rents

Wave 9 Exit:

VT101  still owned main residence
VT102  disposition of home
VT104M1  give home- who- 1
VT104M2  give home- who- 2
VT111  dispo main res ii
VT113M1  who inherit house - 1
VT113M2  who inherit house - 2
VZ079  prev wave r owns or rents

Wave 10 Exit:

WT101  still owned main residence
WT102  disposition of home
WT104M1  give home- who- 1
WT104M2  give home- who- 2
WT111  dispo main res ii
WT113M1  who inherit house - 1
WT113M2  who inherit house - 2
WZ079  prev wave r owns or rents

Wave 11 Exit:

XT101  still owned main residence
XT102 disposition of home
XT104M1 give home- who- 1
XT104M2 give home- who- 2
XT111 dispo main res ii
XT113M1 who inherit house - 1
XT113M2 who inherit house - 2
XZ079 prev wave r owns or rents

Wave 12 Exit:
YT101 still owned main residence
YT102 disposition of home
YT104M1 give home- who- 1
YT104M2 give home- who- 2
YT111 dispo main res ii
YT113M1 who inherit house - 1
YT113M2 who inherit house - 2
Y2079 prev wave r owns or rents
**Main House: Value**

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**Descriptive Statistics**

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<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
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**Categorical Variable Codes**

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**How Constructed:**

The value of the respondent's main residence is asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. Once the question is answered, the proxy is not asked this question again if any further exit interviews are conducted. As such, RAXAHOUS can contain responses from the exit interview, post exit interview, or post post exit interview.

In AHEAD wave 2 and HRS waves 3 and 4, RAXAHOUS is the value of the respondent's main residence if it was sold between the previous interview and death or if it was sold after death. Starting in wave 5, RAXAHOUS is the value of the respondent's main residence if it was given to someone or sold between the previous interview and death, or if it was sold or inherited by someone after death. At all waves, RAXAHOUS includes imputed values to address item-level missingness. The proxy is asked the selling price of the home or what it would have brought if it had been sold separately for those who still owned the home at death and for those who owned the home at the previous interview but no longer owned it at death. If the proxy answers don't know or refuses to answer, a series of unfolding bracket questions is asked to obtain a minimum and maximum bracket value for the value of the main residence. RAXAHOUS reported or imputed values have been adjusted to 2010 dollars based on the consumer price index for the year of death.

RAXAHOUS is assigned special missing .x if the housing preload indicates that the respondent rented or neither owned nor rented their home at the time of their last core interview. RAXAHOUS is assigned special missing .h if the preload contains no housing information from the previous wave, and the proxy was not asked these questions. In AHEAD wave 2, RAXAHOUS is assigned special missing .e if the preload indicates that the respondent owned a home at the last interview, but the proxy was not asked whether the respondent continued to own his/her home at the time of death because there was error in the skip pattern. Starting in HRS wave 3, RAXAHOUS is assigned special missing .i if the proxy states that the records recorded in the preload were incorrect when asked if the respondent still owned his/her home at death. In all waves except exit and post (post) exit interviews in waves 4 and 6, RAXAHOUS is assigned special missing .f if the proxy reports that the home was foreclosed or repossessed between the previous interview and death or after death. Starting in wave 7, RAXAHOUS is assigned special missing .n if the preload indicates that the respondent was living in a nursing home.
at the previous interview and the proxy was not asked about home ownership. In waves 4, 7, 8 and 12, RAXAHOUS is also assigned special missing .x if the proxy reports that the home was owned by the respondent's spouse/partner and not by the respondent. In AHEAD wave 2 and HRS waves 3 and 4, RAXAHOUS is assigned special missing .o if the main residence was given to someone before death, if it was inherited by someone after death, if something other happened to the main residence between the previous interview and death or after death, if the surviving spouse still owns the main residence, or if the main residence has not yet been disposed. Starting in wave 5, RAXAHOUS is assigned special missing .o if something other happened to the main residence between the previous interview and death or after death, if the surviving spouse still owns the main residence, or if the main residence has not yet been disposed. These questions are not asked in HRS wave 2, and RAXAHOUS is assigned special missing .q in this wave.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for the value of the respondent's residence, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an exact amount for the value of the respondent's residence, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value. The threshold values are $15,000, $50,000, $200,000 in all waves. This information is used in the imputation of RAXAHOUS.

RAXAHOUSF is a flag variable indicating the level of imputation used for RAXAHOUS. A code of 1 indicates the proxy reported a continuous value and no imputation was necessary. A code of 2 indicates that the value was imputed based on a closed bracket. A code of 3 indicates that the value was imputed based on an open bracket. A code of 5 indicates that the value was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not owning a residence and the value is 0. A code of 7 indicates that the ownership of the residence is unknown.

Cross Wave Differences in HRS

The value of the respondent's main residence is not asked in HRS wave 2.

While the preload can indicate missing housing information from the previous wave in all waves, there are significantly higher percentages of missing housing information in AHEAD wave 2, and HRS waves 3, 5, and 6.

In AHEAD wave 2 and HRS waves 3 and 4, the proxy is asked the value of the respondent's main residence only if it was sold to someone prior to or after the respondent's death, not if the main residence was given to someone prior to death or inherited by someone after death. However, starting in wave 5, the proxy is asked the value or what the value would have been of the respondent's main residence if it was sold or given to someone prior to the respondent's death or if it was sold to or inherited by someone after the respondent's death.

Starting in wave 3, the proxy can indicate that the records in the preload were incorrect when asked if the respondent still owned his/her home at the time of death. Starting in AHEAD wave 2 and HRS wave 3, foreclosed is an option for the disposition of the home both before and after death in all waves except for waves 4 and 6. Starting in wave 7, the preload also indicates whether the respondent was living in a nursing home at the previous interview, in which case the proxy was not asked about home ownership. In waves 4, 7, 8, and 12, the proxy can report that the home was owned by the respondent's spouse/partner and not by the respondent.

HRS Variables Used:

Wave 2A Exit:

N179         w1 own rent
N4821        n1x.owned home
N4822        n1ax.happened to home
N4833        n2.sellng price
N4834        n2a.dk-1
N4835        n2b.dk-2
Wave 3 Exit:

P179 prev wave own rent
P1903 n1x.owned home
P1904 n1ax.happened to home
P1915 n2. selling price
P1916 n2a.dk-1
P1917 n2b.dk-2
P1918 n2c.dk-3
P1923 n3x.home disposal
P1927 n4x.selling price
P1928 n4a.dk-1
P1929 n4b.dk-2
P1930 n4c.dk-3

Wave 4 Exit:

Q2315 n1x.owned home
Q2316 n1ax.happened to home
Q2327 n2. selling price (main home disposed of prior to death)
Q2328 n2a.dk-1
Q2329 n2b.dk-2
Q2330 n2c.dk-3
Q2335 n3x.home disposal
Q2339 n4x.selling price (main home disposed of after death)
Q2340 n4a.dk-1
Q2341 n4b.dk-2
Q2342 n4c.dk-3
Q2344 prev wave own rent

Wave 5 Exit:

R2323 n1x.owned home
R2324 n1ax.happened to home
R2335 n2. selling price
R2336 n2a.dk-1
R2337 n2b.dk-2
R2338 n2c.dk-3
R2343 n3x.home disposal
R2347 n4x.selling price
R2348 n4a.dk-1
R2349 n4b.dk-2
R2350 n4c.dk-3
R2344 prev wave own rent

Wave 6 Exit:

ST101 still owned main residence
ST102 disposition of home
ST107 exit sold home amt
ST108 exit sold home amt - min
ST109 exit sold home amt - max
ST111 dispo main res ii
ST116 value main res ii
ST117 value main res ii - min
ST118 value main res ii - max
SZ132 prev wave r owns or rents

Wave 7 Exit:

TT101 still owned main residence
TT102 disposition of home
TT107 exit sold home amt
TT108 exit sold home amt - min
TT109 exit sold home amt - max
TT111 dispo main res ii
Wave 8 Exit:

UT101 still owned main residence
UT102 disposition of home
UT107 exit sold home amt
UT108 exit sold home amt - min
UT109 exit sold home amt - max
UT111 dispo main res ii
UT116 value main res ii
UT117 value main res ii - min
UT118 value main res ii - max
UTZ079 prev wave r owns or rents

Wave 9 Exit:

VT101 still owned main residence
VT102 disposition of home
VT107 exit sold home amt
VT108 exit sold home amt - min
VT109 exit sold home amt - max
VT111 dispo main res ii
VT116 value main res ii
VT117 value main res ii - min
VT118 value main res ii - max
VTZ079 prev wave r owns or rents

Wave 10 Exit:

WT101 still owned main residence
WT102 disposition of home
WT107 exit sold home amt
WT108 exit sold home amt - min
WT109 exit sold home amt - max
WT111 dispo main res ii
WT116 value main res ii
WT117 value main res ii - min
WT118 value main res ii - max
WTZ079 prev wave r owns or rents

Wave 11 Exit:

XT101 still owned main residence
XT102 disposition of home
XT107 exit sold home amt
XT108 exit sold home amt - min
XT109 exit sold home amt - max
XT111 dispo main res ii
XT116 value main res ii
XT117 value main res ii - min
XT118 value main res ii - max
XTZ079 prev wave r owns or rents

Wave 12 Exit:

YT101 still owned main residence
YT102 disposition of home
YT107 exit sold home amt
YT108 exit sold home amt - min
YT109 exit sold home amt - max
YT111 dispo main res ii
YT116 value main res ii
YT117 value main res ii - min
YT118 value main res ii - max
YTZ079 prev wave r owns or rents
Value of Estate

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Descriptive Statistics

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Categorical Variable Codes

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<td>5.no bracket info</td>
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<td>6.no asset</td>
<td>3177</td>
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<tr>
<td>7.ownership unknown</td>
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</table>

How Constructed:

The value of the respondent's estate is asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. Once the question is answered, the proxy is not asked this question again if any further exit interviews are conducted. As such, RAXESTATEV can contain responses from the exit interview, post exit interview, or post post exit interview.

In AHEAD wave 2 and HRS waves 3 and 4, RAXESTATEV is the value of the respondent's estate altogether. In waves 5 and 6, RAXESTATEV is the value of the respondent's estate excluding his/her home and any life insurance. Starting in wave 7, RAXESTATEV is the value of the respondent's estate excluding any life insurance. In all waves, the value is reported by the proxy and RAXESTATEV includes imputations to address item-missingness. If the proxy answers don't know or refuses to answer, a series of unfolding bracket questions is asked to obtain a minimum and maximum bracket value for the value of the estate. RAXESTATEV reported and imputed values have been adjusted to 2010 dollars based on the consumer price index for the year of death. RAXESTATEV takes a value of 0 if the respondent had a will but the proxy reported that no assets remained to be probated, or, when asked about the division of assets, the proxy reported that there was nothing much of value to distribute. RAXESTATEV is assigned special missing .n if the proxy reports that the respondent's estate has not yet been distributed and is not asked the value of the estate. This question is not asked in HRS wave 2, and RAXESTATEV is assigned special missing .q in this wave.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for the value of the respondent's estate, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an exact amount for the value of the respondent's estate, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value. The threshold values are $10,000, $25,000, $100,000, $500,000, $2,000,000 in all waves. This information is used in the imputation of RAXESTATEV.

RAXESTATEVF is a flag variable indicating the level of imputation used for RAXESTATEV. A code of 1 indicates the proxy reported a continuous value and no imputation was necessary. A code
of 2 indicates that the value was imputed based on a closed bracket. A code of 3 indicates that the value was imputed based on an open bracket. A code of 5 indicates that the value was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not having any assets of value or estate and the value is 0. A code of 7 indicates that whether the respondent left any assets is unknown.

Please note that there are several extremely high values for RAXESTATEV in AHEAD wave 2 and HRS waves 3 through 7, which greatly impact the mean value. We have included these values as reported, adjusted by the appropriate consumer price index, and leave their inclusion in any analysis to the discretion of the user.

**Cross Wave Differences in HRS**

The value of the respondent's estate is not asked in HRS wave 2.

Please note that the question wording changes across waves. In AHEAD wave 2 and HRS waves 3 and 4, the proxy is asked "Altogether, what was the value of his/her total estate?" In waves 5 and 6, the proxy is asked "Excluding his/her home and any life insurance, altogether, what was the value of his/her estate?" Starting in wave 7, the proxy is asked "Excluding any life insurance, altogether what was the value of his/her total estate?"

In AHEAD wave 2 and HRS waves 3 through 5, the proxy can report the value of the estate as "other", or report "other" when asked what happened to the respondent's estate. Starting in wave 6, if the respondent had not put any assets into a trust then the proxy is not asked this question. Starting in wave 6, if the respondent had a will but all assets were held in joint tenancy or in a trust then the proxy is not asked this question. In each of these cases, the value of the respondent's estate is imputed.

**HRS Variables Used:**

Wave 2A Exit:

N5111 n71x.assets into trust
N5116 n72x.will
N5120 n73x.happened to estate
N5204 n82x.$ value estate
N5205 n82bx.dk-1
N5206 n82cx.dk-2
N5207 n82dx.dk-3
N5208 n82ex.dk-4
N5209 n82fx.dk-5

Wave 3 Exit:

P2002 n71x.assets into trust
P2007 n72x.will
P2011 n73x.happened to estate
P2095 n82x.$ value estate
P2096 n82bx.dk-1
P2097 n82cx.dk-2
P2098 n82dx.dk-3
P2099 n82ex.dk-4
P2100 n82fx.dk-5

Wave 4 Exit:

Q2414 n71x.assets into trust
Q2419 n72x.will
Q2423 n73x.happened to estate
Q2507 n82x.$ value estate
Q2508 n82bx.dk-1
Q2509 n82cx.dk-2
Q2510 n82dx.dk-3
Q2511 n82ex.dk-4
Q2512 n82fx.dk-5

Wave 5 Exit:

R2421 n71x.assets into trust
R2426: n72x.will
R2430: n73x.happened to estate
R2514: n82x.$ value estate
R2515: n82bx.dk-1
R2516: n82cx.dk-2
R2517: n82dx.dk-3
R2518: n82ex.dk-4
R2519: n82fx.dk-5

Wave 6 Exit:
ST155: r have assets in trust
ST156: r have will
ST157: r have will probated
ST161: division of assets
ST173: value of estate
ST174: value of estate - min
ST175: value of estate - max

Wave 7 Exit:
TT155: r have assets in trust
TT156: r have will
TT157: r have will probated
TT161: division of assets
TT173: value of estate
TT174: value of estate - min
TT175: value of estate - max

Wave 8 Exit:
UT155: r have assets in trust
UT156: r have will
UT157: r have will probated
UT161: division of assets
UT173: value of estate
UT174: value of estate - min
UT175: value of estate - max

Wave 9 Exit:
VT155: r have assets in trust
VT156: r have will
VT157: r have will probated
VT161: division of assets
VT173: value of estate
VT174: value of estate - min
VT175: value of estate - max

Wave 10 Exit:
WT155: r have assets in trust
WT156: r have will
WT157: r have will probated
WT161: division of assets
WT173: value of estate
WT174: value of estate - min
WT175: value of estate - max

Wave 11 Exit:
XT155: r have assets in trust
XT156: r have will
XT157: r have will probated
XT161: division of assets
XT173: value of estate
XT174: value of estate - min
XT175: value of estate - max

Wave 12 Exit:
YT155: r have assets in trust
YT156: r have will
YT157: r have will probated
YT161: division of assets
YT173: value of estate
YT174: value of estate - min
YT175 value of estate - max
Section H: Employment History
Whether Working Prior to Death

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<th>Label</th>
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<td>raxwork: r working up until time of death</td>
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Descriptive Statistics

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Categorical Variable Codes

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How Constructed:

RAXWORK indicates whether the deceased respondent was working up until the time of death, according to the proxy. If the preload indicated that the respondent was self-employed as of the previous interview, then the proxy is asked the month and year the respondent stopped working for himself/herself. If the preload indicated that the respondent worked for someone else as of the previous interview, then the proxy is asked the month and year the respondent stopped working for that employer. In all waves except AHEAD wave 2 and HRS waves 3 through 5, the proxy can answer that the respondent was still working prior to the time of his/her death. RAXWORK is coded as 0 if the preload indicated that the respondent was not working as of the previous interview, or if the proxy reported a month or year that the deceased respondent stopped working, either for himself/herself or for an employer, which was not the same month and year of death (KNOWNDECEASEDMO and KNOWNDECEASEDYR from the HRS Tracker File). RAXWORK is coded as 1 if the proxy indicates that the respondent was working, either for himself/herself or for an employer, up until the time of death, or if the month and year the proxy reports the respondent stopped working was the same month and year of death (KNOWNDECEASEDMO and KNOWNDECEASEDYR from the HRS Tracker File). RAXWORK is assigned special missing .e if the preload indicated that the respondent was self-employed and the proxy denies that the respondent was working at the previous interview, or if the preload indicated that the respondent worked for someone else and the proxy denies that the respondent was working for someone else or for the named employer at the previous interview. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2 and starting in HRS wave 6 and onward, the proxy is given the option to report that the respondent was still working for himself/herself or for an employer when he/she died. In AHEAD wave 2, and HRS waves 3 through 5, the proxy is not given the option to report that the respondent was still working for himself/herself or for an employer when he/she died, so the coding of RAXWORK is only based on the month and year the respondent stopped working compared to the month and year of death.

In HRS wave 3, if the preload indicates that the respondent was working for an employer at the last interview, then the proxy has the option of denying that the respondent was working at the previous interview, whereas in other waves, the proxy has the option of denying that the respondent was working for someone else or for the named employer at the previous interview.
In wave 6, unlike all other waves, the month and year the respondent stopped working for himself/herself or for an employer is asked even if the preload indicates that the respondent was not working at the previous wave. Because of this, many proxies responded that there was an error in the preload, resulting in a slightly higher level of .e special missings in RAXWORK in this wave.

Please note that there is no preload in HRS wave 2. The preloads for working status in AHEAD wave 2 and HRS waves 3 through 6 come from the Preload (Respondent) section of the interview, and one preload indicates whether the deceased respondent was working at the previous interview or not, while the other preload indicates whether the respondent was employed by someone else or self-employed at the previous interview. Starting in wave 7, the single preload for working status comes from the Employment (Respondent) section of the interview and indicates whether the deceased respondent was not working, employed by someone else, or self-employed at the previous interview.

**HRS Variables Used:**

**Tracker:**
- KNOWNDECEASEDMO known deceased - month
- KNOWNDECEASEDYR known deceased - year

**Wave 2 Exit:**
- W3316 fa2.working for pay
- W4800 fc2.month stopped self-e
- W4801 fc2a.year stopped self-e
- W4897 fc16.month stopped work
- W4898 fc16a.year stopped work

**Wave 2A Exit:**
- N150 w1 cur working
- N185 self/else employed
- N3545 gc2.month stopped self-empl
- N3546 gc2a.year stopped self-empl
- N3639 gc16.month stopped working wave i emplo

**Wave 3 Exit:**
- P150 prev wave cur working
- P1745 gc2. month stopped self-empl
- P1746 gc2a. year stopped self-empl
- P1814 gc16. month stopped working wave i employer
- P1815 gc16a. year stopped working wave i employer
- P185 self/else employed

**Wave 4 Exit:**
- Q2185 gc2. month stopped self-empl
- Q2186 gc2a. year stopped self-empl
- Q2254 gc16. month stopped working wave i emplo
- Q2255 gc16a. year stopped working wave i emplo
- Q270 prev wave cur working
- Q289 prev wave self/else employed

**Wave 5 Exit:**
- R2202 gc2. month stopped self-empl
- R2203 gc2a. year stopped self-empl
- R2271 gc16. month stop work wave i employment
- R2272 gc16a. year stop work wave i employment
- R270 pr270.prev wave cur working
- R289 pr289.prev wave self/else employed

**Wave 6 Exit:**
- SJ023 stopped working for slf-mo
- SJ024 stopped working for slf- yr
- SJ063 stop/retire work prev wave employer-mo
- SJ064 stop/retire work prev wave employer-yr
- S2123 prev wave r currently working

**Wave 7 Exit:**
- TJ023 stopped working for slf-mo
- TJ024 stopped working for slf- yr
- TJ063 stop/retire work prev wave employer-mo
TJ064          stop/retire work prev wave employer-yr
TJ677          branchpoint for j677y

Wave 8 Exit:
  UJ023          stopped working for slf-mo
  UJ024          stopped working for slf- yr
  UJ063          stop/retire work prev wave employer-mo
  UJ064          stop/retire work prev wave employer-yr
  UJ677          branchpoint for j677y

Wave 9 Exit:
  VJ023          stopped working for slf-mo
  VJ024          stopped working for slf- yr
  VJ063          stop/retire work prev wave employer-mo
  VJ064          stop/retire work prev wave employer-yr
  VJ677          branchpoint for j677y

Wave 10 Exit:
  WJ023          stopped working for slf-mo
  WJ024          stopped working for slf- yr
  WJ063          stop/retire work prev wave employer-mo
  WJ064          stop/retire work prev wave employer-yr
  WJ677          branchpoint for j677y

Wave 11 Exit:
  XJ023          stopped working for slf-mo
  XJ024          stopped working for slf- yr
  XJ063          stop/retire work prev wave employer-mo
  XJ064          stop/retire work prev wave employer-yr
  XJ677          branchpoint for j677y

Wave 12 Exit:
  YJ023          stopped working for slf-mo
  YJ024          stopped working for slf- yr
  YJ063          stop/retire work prev wave employer-mo
  YJ064          stop/retire work prev wave employer-yr
  YJ677          branchpoint for j677y
Section H: Employment History

Whether Self-Employed at Death

Wave Variable | Label | Type
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OA RAXSLFEMP | raxslfemp: r self-employed up until time of death | Categ

Descriptive Statistics

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1.yes | 128 |

How Constructed:

RAXSLFEMP indicates whether the deceased respondent was self-employed up until the time of death, according to the proxy. If the preload indicated that the respondent was self-employed as of the previous interview, then the proxy is asked the month and year the respondent stopped working for himself/herself. In all waves except AHEAD wave 2 and HRS waves 3 through 5, the proxy can answer that the respondent was still working prior to the time of his/her death. RAXSLFEMP is coded as 0 if the respondent was not working prior to the time of death, or if the month and year the proxy reports the respondent stopped working for someone else up until the time of death, or if the proxy denies that the respondent was self-employed at the previous interview and the preload indicated that the respondent was working for someone else up until the time of death, or if the month and year the proxy reports the respondent stopped working for someone else was not the same month and year of death (KNOWNDECEASEDMO and KNOWNDECEASEDNY from the HRS Tracker File). RAXSLFEMP is coded as 1 if the proxy reports that the respondent was self-employed up until the time of death, or if the month and year the proxy reports the respondent stopped working for someone else up until the time of death, or if the proxy denies that the respondent was self-employed at the previous interview and the preload indicated that the respondent was working for someone else up until the time of death, or if the proxy denies that the respondent was working for someone else or for the named employer at the previous interview and the preload indicated that the respondent worked for someone else. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 3, if the preload indicates that the respondent was working for an employer at the last interview, then the proxy has the option of denying that the respondent was working at the previous interview, whereas in other waves, the proxy has the option of denying that the respondent was working for someone else or for the named employer at the previous interview.

In wave 6, unlike all other waves, the month and year the respondent stopped working for himself/herself or for an employer is asked even if the preload indicates that the respondent was not working at the previous wave. Because of this, many proxies responded that there was an error in the preload, resulting in a slightly higher level of .e special missings in RAXSLFEMP in this wave.

Please note that there is no preload in HRS wave 2. The preloads for working status in AHEAD wave 2 and HRS waves 3 through 6 come from the Preload (Respondent) section of the interview, and one preload indicates whether the deceased respondent was working at the previous
interview or not, while the other preload indicates whether the respondent was employed by someone else or self-employed at the previous interview. Starting in wave 7, the single preload for working status comes from the Employment (Respondent) section of the interview and indicates whether the deceased respondent was not working, employed by someone else, or self-employed at the previous interview.

**HRS Variables Used:**

**Tracker:**
- KNOWNDECEASED known deceased - month
- KNOWNDECEASEDYR known deceased - year

**Wave 2 Exit:**
- W3016 fa2.working for pay
- W4800 fc2.month stopped self-e
- W4801 fc2a.year stopped self-e
- W4897 fc16.month stopped work
- W4898 fc16a.year stopped work

**Wave 2A Exit:**
- N150 w1 cur working
- N185 self/else employed
- N3545 gc2.month stopped self-empl
- N3546 gc2a.year stopped self-empl
- N3639 gc16.month stopped working wave i emplo

**Wave 3 Exit:**
- P150 prev wave cur working
- P1745 gc2.month stopped self-empl
- P1746 gc2a.year stopped self-empl
- P1814 gc16.month stopped working wave i employer
- P1815 gc16a.year stopped working wave i employer
- P185 self/else employed

**Wave 4 Exit:**
- Q2185 gc2.month stopped self-empl
- Q2186 gc2a.year stopped self-empl
- Q2254 gc16.month stopped working wave i emplo
- Q2255 gc16a.month stopped working wave i emplo
- Q270 prev wave cur working
- Q289 prev wave self/else employed

**Wave 5 Exit:**
- R2202 gc2.month stopped self-empl
- R2203 gc2a.year stopped self-empl
- R2271 gc16.month stop work wave i employment
- R2272 gc16a.year stop work wave i employment
- R270 pr270.prev wave cur working
- R289 pr289.prev wave self/else employed

**Wave 6 Exit:**
- SJ023 stopped working for slf-mo
- SJ024 stopped working for slf- yr
- SJ063 stop/retire work prev wave employer-mo
- SJ064 stop/retire work prev wave employer-yr
- SZ123 prev wave r currently working

**Wave 7 Exit:**
- TJ023 stopped working for slf-mo
- TJ024 stopped working for slf- yr
- TJ063 stop/retire work prev wave employer-mo
- TJ064 stop/retire work prev wave employer-yr
- TJ677 branchpoint for j677y

**Wave 8 Exit:**
- UJ023 stopped working for slf-mo
- UJ024 stopped working for slf- yr
- UJ063 stop/retire work prev wave employer-mo
- UJ064 stop/retire work prev wave employer-yr
- UJ677 branchpoint for j677y

**Wave 9 Exit:**
VJ023          stopped working for slf-mo
VJ024          stopped working for slf- yr
VJ063          stop/retire work prev wave employer-mo
VJ064          stop/retire work prev wave employer-yr
VJ677          branchpoint for j677y
Wave 10 Exit:
  WJ023          stopped working for slf-mo
  WJ024          stopped working for slf- yr
  WJ063          stop/retire work prev wave employer-mo
  WJ064          stop/retire work prev wave employer-yr
  WJ677          branchpoint for j677y
Wave 11 Exit:
  XJ023          stopped working for slf-mo
  XJ024          stopped working for slf- yr
  XJ063          stop/retire work prev wave employer-mo
  XJ064          stop/retire work prev wave employer-yr
  XJ677          branchpoint for j677y
Wave 12 Exit:
  YJ023          stopped working for slf-mo
  YJ024          stopped working for slf- yr
  YJ063          stop/retire work prev wave employer-mo
  YJ064          stop/retire work prev wave employer-yr
  YJ677          branchpoint for j677y
Month and Year Last Worked

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Descriptive Statistics

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How Constructed:

RAXJLASTM and RAXJLASTY indicate the month and year, respectively, that the respondent stopped working, either for himself/herself or for someone else, according to the proxy or as a result of death. If the preload indicated that the respondent was self-employed as of the previous interview, then the proxy is asked the month and year the respondent stopped working for himself/herself. If the preload indicated that the respondent worked for someone else as of the previous interview, then the proxy is asked the month and year the respondent stopped working for that employer, or if the respondent was still working there when he/she died. RAXJLASTM takes the value of the month that the respondent stopped working or the month of the respondent’s death (KNOWNDECEASEDMO from the HRS Tracker File) if the respondent worked up until the time of death. RAXJLASTY takes the value of the year that the respondent stopped working or the year of the respondent's death (KNOWNDECEASEDYM from the HRS Tracker File) if the respondent worked up until the time of death. If the respondent had stopped working before the previous interview, then the value of RwJLASTM and RwJLASTY in the RAND HRS from the previous interview year are carried forward to RAXJLASTM and RAXJLASTY, respectively. If the respondent had reported never working in a previous interview, then a special missing value of .n has been carried forward from RwJLASTM and RwJLASTY in the RAND HRS and RAXJLASTM and RAXJLASTY are assigned special missing .e if the proxy denies that the respondent was self-employed at the previous interview and the preload indicated that the respondent was self-employed, or if the proxy denies that the respondent was working for someone else or for the named employer at the previous interview and the preload indicated that the respondent worked for someone else. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 3, if the preload indicates that the respondent was working for an employer at the last interview, then the proxy has the option of denying that the respondent was working at the previous interview, whereas in other waves, the proxy has the option of denying that the respondent was working for someone else or for the named employer at the previous interview.

Please note that respondents in the wave 3 exit interview whose last core interview was AHEAD wave 2 were not asked about past jobs in that interview, leaving a larger percentage of .m missings in R2JLASTM and R2JLASTY in the RAND HRS which are being carried forward to RAXJLASTM and RAXJLASTY for this wave.

In wave 6, unlike all other waves, the month and year the respondent stopped working for himself/herself or for an employer is asked even if the preload indicates that the respondent was not working at the previous wave. Because of this, many proxies responded that there was an error in the preload, resulting in a slightly higher level of .e special missings after the preload was accounted for in RAXJLASTM and RAXJLASTY in this wave compared to other waves.
Please note that there is no preload in HRS wave 2. The preloads for working status in AHEAD wave 2 and HRS waves 3 through 6 come from the Preload (Respondent) section of the interview, and one preload indicates whether the deceased respondent was working at the previous interview or not, while the other preload indicates whether the respondent was employed by someone else or self-employed at the previous interview. Starting in wave 7, the single preload for working status comes from the Employment (Respondent) section of the interview and indicates whether the deceased respondent was not working, employed by someone else, or self-employed at the previous interview.

HRS Variables Used:

RAND HRS:
- R10JLASTM  r10jlastm:w10 month last worked/not working
- R10JLASTY  r10jlasty:w10 year last worked/not working
- R11JLASTM  r11jlastm:w11 month last worked/not working
- R11JLASTY  r11jlasty:w11 year last worked/not working
- R1JLASTM   r1jlastm:w1 month last worked/not working
- R1JLASTY   r1jlasty:w1 year last worked/not working
- R2JLASTM   r2jlastm:w2 month last worked/not working
- R2JLASTY   r2jlasty:w2 year last worked/not working
- R3JLASTM   r3jlastm:w3 month last worked/not working
- R3JLASTY   r3jlasty:w3 year last worked/not working
- R4JLASTM   r4jlastm:w4 month last worked/not working
- R4JLASTY   r4jlasty:w4 year last worked/not working
- R5JLASTM   r5jlastm:w5 month last worked/not working
- R5JLASTY   r5jlasty:w5 year last worked/not working
- R6JLASTM   r6jlastm:w6 month last worked/not working
- R6JLASTY   r6jlasty:w6 year last worked/not working
- R7JLASTM   r7jlastm:w7 month last worked/not working
- R7JLASTY   r7jlasty:w7 year last worked/not working
- R8JLASTM   r8jlastm:w8 month last worked/not working
- R8JLASTY   r8jlasty:w8 year last worked/not working
- R9JLASTM   r9jlastm:w9 month last worked/not working
- R9JLASTY   r9jlasty:w9 year last worked/not working

Tracker:
- KNOWNDECEASEDMO known deceased - month
- KNOWNDECEASEDYP known deceased - year

Wave 2 Exit:
- W3316   fa2.working for pay
- W4800   fc2.month stopped self-e
- W4801   fc2a.year stopped self-e
- W4897   fc16.month stopped work
- W4898   fc16a.year stopped work

Wave 2A Exit:
- N150    w1 cur working
- N185    self/else employed
- N3545   gc2.month stopped self-empl
- N3546   gc2a.year stopped self-empl
- N3639   gc16.month stopped working wave i emplo

Wave 3 Exit:
- P150    prev wave cur working
- P1745   gc2. month stopped self-empl
- P1746   gc2a. year stopped self-empl
- P1814   gc16. month stopped working wave i employer
- P1815   gc16a. year stopped working wave i employer
- P185    self/else employed

Wave 4 Exit:
- Q2185   gc2. month stopped self-empl
- Q2186   gc2a. year stopped self-empl
- Q2254   gc16. month stopped working wave i emplo
- Q2255   gc16a. year stopped working wave i emplo
- Q270    prev wave cur working
Q289 prev wave self/else employed

Wave 5 Exit:
R2202 gc2. month stopped self-empl
R2203 gc2a. year stopped self-empl
R2271 gc16. month stop work wave i employment
R2272 gc16a. year stop work wave i employment
R270 pr270.prev wave cur working
R289 pr289.prev wave self/else employed

Wave 6 Exit:
SJ023 stopped working for slf-mo
SJ024 stopped working for slf- yr
SJ063 stop/retire work prev wave employer-mo
SJ064 stop/retire work prev wave employer-yr
SJ123 prev wave r currently working

Wave 7 Exit:
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TJ024 stopped working for slf- yr
TJ063 stop/retire work prev wave employer-mo
TJ064 stop/retire work prev wave employer-yr
TJ677 branchpoint for j677y

Wave 8 Exit:
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UJ024 stopped working for slf- yr
UJ063 stop/retire work prev wave employer-mo
UJ064 stop/retire work prev wave employer-yr
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VJ064 stop/retire work prev wave employer-yr
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XJ024 stopped working for slf- yr
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XJ064 stop/retire work prev wave employer-yr
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Wave 12 Exit:
YJ023 stopped working for slf-mo
YJ024 stopped working for slf- yr
YJ063 stop/retire work prev wave employer-mo
YJ064 stop/retire work prev wave employer-yr
YJ677 branchpoint for j677y
Section L: Assistance and Caregiving
Whether Bedridden

Wave Variable Label Type
DA RABEDRDDN rabedrddn: whether r bedridden before death Categ

Descriptive Statistics

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<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
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Categorical Variable Codes

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<td>.r:refuse</td>
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How Constructed:

RABEDRDDN indicates whether the respondent was bedridden in the last three months before death. The proxy is asked about how many days the respondent stayed in bed more than half the day because of illness or injury during the last three months before death. RABEDRDDN is coded as 0 if the respondent spent 0 to 85 days in bed more than half the day during the last three months before death. RABEDRDDN is coded as 1 if the respondent spent more than 85 days in bed more than half the day during the last three months before death. This variable is not available for HRS wave 2, and is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

The proxy is asked how many days the respondent spent in bed more than half the day because of illness or injury during the last three months before death starting in AHEAD wave 2 and HRS wave 3. This question is not asked in HRS wave 2.

HRS Variables Used:

Wave 2A Exit:
- N1819 e31x.days in bed
Wave 3 Exit:
- P1400 e31x.days in bed
Wave 4 Exit:
- Q1842 e32.(old e31) days in bed
Wave 5 Exit:
- R1862 e32.(old e31) days in bed
Wave 6 Exit:
- SG129 number days in bed
Wave 7 Exit:
- TG129 number days in bed
Wave 8 Exit:
- UG129 number days in bed
Wave 9 Exit:
- VG129 number days in bed
Wave 10 Exit:
- WG129 number days in bed
Wave 11 Exit:
XG129  number days in bed
Wave 12 Exit:
YG129  number days in bed
### Activities of Daily Living: Whether Anyone Helped with ADLs

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<th>Label</th>
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<td>raxdresshlp: someone helped r dress final 3 months</td>
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<tr>
<td>0A RAXWALKHLP</td>
<td>raxwalkhlp: someone helped r walk across a room final 3 mont</td>
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<tr>
<td>0A RAXBATHEHLP</td>
<td>raxbathehlp: someone helped r bathe final 3 months</td>
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<tr>
<td>0A RAXEATHLP</td>
<td>raxeathlp: someone helped r eat final 3 months</td>
<td>Categ</td>
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<td>0A RAXBEDHLP</td>
<td>raxbedhlp: someone helped r get in and out of bed final 3 mo</td>
<td>Categ</td>
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<tr>
<td>0A RAXTOILETHLP</td>
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<td>0A RAXADLH</td>
<td>raxadlh: someone helped r with adls final 3 months</td>
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### Descriptive Statistics

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### Categorical Variable Codes

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How Constructed:

RAXDRESSHL, RAXWALKHL, RAXBATHEHL, RAXEATHL, RAXBEDHL, and RAXTOILETHL indicate whether anyone helped the deceased respondent with the specific activity of daily living in the last three months of life because of a physical, mental, emotional or memory problem, as reported by the proxy. RAXDRESSHL indicates whether anyone helped the respondent with dressing, including putting on shoes and socks in the last three months of life. RAXWALKHL indicates whether anyone helped the respondent get across a room in the last three months of life. RAXBATHEHL indicates whether anyone helped the respondent with bathing or showering in the last three months of life. RAXEATHL indicates whether anyone helped the respondent with eating, such as cutting up food in the last three months of life. RAXBEDHL indicates whether anyone helped the respondent with eating, such as cutting up food in the last three months of life. RAXBEDHL indicates whether anyone helped the respondent get across a room in the last three months of life. RAXTOILETHL indicates whether anyone helped the respondent with using the toilet, including getting up and down, in the last three months of life. RAXDRESSHL, RAXWALKHL, RAXBATHEHL, RAXEATHL, RAXBEDHL, and RAXTOILETHL are coded as 0 if nobody helped the respondent with the specific activity in the last three months of life. RAXDRESSHL, RAXWALKHL, RAXBATHEHL, RAXEATHL, RAXBEDHL, and RAXTOILETHL are coded as 1 if somebody helped the respondent with the specific activity in the last three months of life. If the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and the variables are assigned special missing .b. If the proxy responds that the respondent could not do the activity of daily living, then
the variables are assigned special missing .t. If the proxy responds that the respondent did not do the activity of daily living, then the variables are assigned special missing .j. These questions are not asked in HRS wave 2, and so these variables are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXADLH indicates whether anyone helped the deceased respondent with any activity of daily living in the last three months of life because of a physical, mental, emotional or memory problem, as reported by the proxy. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. RAXADLH is coded as 0 if nobody helped the respondent with any activity of daily living. RAXADLH is coded as 1 if somebody helped the respondent with at least one activity of daily living. RAXADLH is assigned a 0 or 1 as long as at least one of the comprising ADL measures is not missing. If the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and RAXADLH is assigned special missing .b. This variable is not available in HRS wave 2 and is assigned special missing .q in this wave. Don't know, refused, did not do, could not do, or other missing responses are assigned special missing .d, .r, .j, .t, .m, respectively.

Cross Wave Differences in HRS

Questions about whether the respondent was helped with an ADL are not asked in HRS wave 2, but are asked starting in AHEAD wave 2 and HRS wave 3.

HRS Variables Used:

Wave 2A Exit:

- N1819  e31x.days in bed
- N1877  e72fx.adl walk help
- N1887  e73fx.adl dress help
- N1897  e74fx.adl bathe help
- N1907  e75fx.adl eat help
- N1920  e76fx.adl bed help
- N1930  e77fx.adl toilet help

Wave 3 Exit:

- P1400  e31x.days in bed
- P1415  e72fx.adl walk help
- P1425  e73fx.adl dress help
- P1435  e74fx.adl bathe help
- P1445  e75fx.adl eat help
- P1458  e76fx.adl bed help
- P1468  e77fx.adl toilet help

Wave 4 Exit:

- Q1842  e32.(old e31) days in bed
- Q1852  e73fx.dress diff
- Q1859  e72x.walk diff
- Q1881  e74x.bathing diff
- Q1896  e75x.eat diff
- Q1911  e76x.bed diff
- Q1929  e77x.toilet diff

Wave 5 Exit:

- R1862  e32.(old e31) days in bed
- R1872  e73fx.dress diff
- R1879  e72x.walk diff
- R1894  e74x.bathing diff
- R1909  e75x.eat diff
- R1924  e76x.bed diff
- R1942  e77x.toilet diff

Wave 6 Exit:

- SG015  help w/dress
- SG020  adl walk help
- SG022  adl bathe help
Section L: Assistance and Caregiving

SG024  adl eat help
SG029  adl bed help
SG031  adl toilet help
SG129  number days in bed

Wave 7 Exit:
TG015  help w/dress
TG020  adl walk help
TG022  adl bathe help
TG024  adl eat help
TG029  adl bed help
TG031  adl toilet help
TG129  number days in bed

Wave 8 Exit:
UG015  help w/dress
UG020  adl walk help
UG022  adl bathe help
UG024  adl eat help
UG029  adl bed help
UG031  adl toilet help
UG129  number days in bed

Wave 9 Exit:
VG015  help w/dress
VG020  adl walk help
VG022  adl bathe help
VG024  adl eat help
VG029  adl bed help
VG031  adl toilet help
VG129  number days in bed

Wave 10 Exit:
WG015  help w/dress
WG020  adl walk help
WG022  adl bathe help
WG024  adl eat help
WG029  adl bed help
WG031  adl toilet help
WG129  number days in bed

Wave 11 Exit:
XG015  help w/dress
XG020  adl walk help
XG022  adl bathe help
XG024  adl eat help
XG029  adl bed help
XG031  adl toilet help
XG129  number days in bed

Wave 12 Exit:
YG015  help w/dress
YG020  adl walk help
YG022  adl bathe help
YG024  adl eat help
YG029  adl bed help
YG031  adl toilet help
YG129  number days in bed
Activities of Daily Living: Age Began Needing Help with ADLs

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<tr>
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<tr>
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<tr>
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<td>raxbatheage: age r began to need help bathing</td>
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<tr>
<td>0A RAXEATAGE</td>
<td>raxeatage: age r began to need help eating</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXBEDAGE</td>
<td>raxbedage: age r began to need help getting in/out of bed</td>
<td>Cont</td>
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<tr>
<td>0A RAXTOILETAGE</td>
<td>raxtoiletage: age r began to need help using the toilet</td>
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Descriptive Statistics

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<tr>
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<th>Std Dev</th>
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How Constructed:

RAXDRESSAGE, RAXWALKAGE, RAXBATHEAGE, RAXEATAGE, RAXBEDAGE, and RAXTOILETAGE indicate the age the deceased respondent began needing help with the specific activity of daily living because of a physical, mental, emotional or memory problem, as reported by the proxy. RAXDRESSAGE indicates the age the respondent began needing help with dressing, including putting on shoes and socks. RAXWALKAGE indicates the age the respondent began needing help with getting across a room. RAXBATHEAGE indicates the age the respondent began needing help with bathing or showering. RAXEATAGE indicates the age the respondent began needing help with eating, such as cutting up food. RAXBEDAGE indicates the age the respondent began needing help with getting in or out of bed. RAXTOILETAGE indicates the age the respondent began needing help with using the toilet, including getting up and down. The proxy can report the number of months or years that the respondent needed help with the activity, since what age the respondent needed help, or since what year the respondent needed help. If the proxy reports the number of months the respondent needed help, then this value and the respondent's age at death in months (taken from KNOWNDECEASEDYR and KNOWNDECEASEDMO in the HRS Tracker File) are used to obtain the age the respondent began needing help. If the proxy reports the number of years the respondent needed help, this value and the respondent's age at death are used to obtain the age the respondent began needing help. If the proxy reports the age the respondent began needing help, then that value is reported. If the proxy reports the year the respondent began needing help, then this value, the respondent's death year (KNOWNDECEASEDYR from the HRS Tracker File), and the respondent's death age are used to obtain the age the respondent began needing help. If the reported or calculated age is greater than the age at death or takes on a negative value, then these variables are coded with special missing .i. RAXDRESSAGE, RAXWALKAGE, RAXBATHEAGE, RAXEATAGE, RAXBEDAGE, and RAXTOILETAGE are coded as special missing .h if nobody helped the respondent with the specific activity in the last three months of life. If the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and the variables are assigned special missing .b. In AHEAD wave 2 and HRS wave 3, if the proxy
responds that the respondent could not do or did not do the activity of daily living, then these questions are not asked and the variables are assigned special missing .t or .j, respectively. These questions are not asked in HRS wave 2, and so these variables are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note the presence of several low values (below age 18) for RAXDRESSAGE, RAXWALKAGE, RAXBATHEAGE, RAXBEDAGE, and RAXTOILETAGE. These extreme values were ages reported by the proxies to denote since what age the respondent needed help with the particular ADL. We have left the use of these values to the discretion of the user.

Cross Wave Differences in HRS

Questions about when the respondent began needing help with ADLs are not asked in HRS wave 2, but are asked beginning in AHEAD wave 2 and HRS wave 3.

Proxies were first asked whether anyone helped with the ADL activity in the last three months before death, and if so, then asked to report the number of months, number of years, since what age, or since what year the respondent needed help. In AHEAD wave 2 and HRS wave 3, if the proxy responds that the respondent "could not do" or "did not do" the ADL activity when asked whether anyone helped with the activity, then the proxy was not asked the second question. Starting in wave 4, the proxy is asked the second question if the proxy responds that the respondent "could not do" or "did not do" the ADL activity.

HRS Variables Used:

RAND HRS:
- RABMONTH rabmonth: r birth month
- RABYEAR rabyear: r birth year

Tracker:
- KNOWNDECEASEDMO known deceased - month
- KNOWNDECEASEDYR known deceased - year

Wave 2A Exit:
- N1819 e31x.days in bed
- N1877 e72fx.adl walk help
- N1878 e72gx.walk help when
- N1879 e72hx.walk years
- N1880 e72hx.walk since age
- N1881 e72hx.walk since year
- N1887 e73fx.adl dress help
- N1888 e73gx.dress help when
- N1889 e72hx.dress years
- N1890 e72hx.dress since age
- N1891 e72hx.dress since year
- N1897 e74fx.adl bathe help
- N1898 e74gx.walk help when
- N1899 e74hx.bathe years
- N1900 e74hx.bathe since age
- N1901 e74hx.bathe since year
- N1907 e75fx.adl eat help
- N1908 e75gx.eat help when
- N1909 e75hx.eat years
- N1910 e75hx.eat since age
- N1911 e75hx.eat since year
- N1920 e76fx.adl bed help
- N1921 e76gx.bed help when
- N1922 e76hx.bed years
- N1923 e76hx.bed since age
- N1924 e76hx.bed since year
- N1930 e77fx.adl toilet help
- N1931 e77gx.toilet help when
- N1932 e77hx.toilet years
N1933  e77hx.toilet since age
N1934  e77hx.toilet since year

Wave 3 Exit:
P1400  e31x.days in bed
P1415  e72fx.adl walk help
P1416  e72gx.walk help when
P1417  e72hx.walk years
P1418  e72hx.walk since age
P1419  e72hx.walk since year
P1425  e73fx.adl dress help
P1426  e73gx.dress help when
P1427  e72hx.dress years
P1428  e72hx.dress since age
P1429  e72hx.dress since year
P1435  e74fx.adl bathe help
P1436  e74gx.how long help bath
P1437  e74hx.bathe years
P1438  e74hx.bathe since age
P1439  e74hx.bathe since year
P1445  e75fx.adl eat help
P1446  e75gx.eat help when
P1447  e75hx.eat years
P1448  e75hx.eat since age
P1449  e75hx.eat since year
P1458  e76fx.adl bed help
P1459  e76gx.bed help when
P1460  e76hx.bed years
P1461  e76hx.bed since age
P1462  e76hx.bed since year
P1468  e77fx.adl toilet help
P1469  e77gx.toilet help when
P1470  e77hx.toilet years
P1471  e77hx.toilet since age
P1472  e77hx.toilet since year

Wave 4 Exit:
Q1842  e32.(old e31) days in bed
Q1852  e73fx.dress diff
Q1853  e73gx.dress help when
Q1854  e73gx.dress years
Q1855  e73gx.dress since age
Q1856  e73gx.dress since year
Q1859  e72x.walk diff
Q1863  e72fx.walking help when
Q1864  e72fx.walking years
Q1865  e72fx.walking since age
Q1866  e72fx.walking since year
Q1881  e74x.bathe diff
Q1882  e74fx.bathe help when
Q1883  e74fx.bathe years
Q1884  e74fx.bathe since age
Q1885  e74fx.bathe since year
Q1896  e75x.eat diff
Q1897  e75fx.eat help when
Q1898  e75fx.eat years
Q1899  e75fx.eat since age
Q1900  e75fx.eat since year
Q1911  e76x.bed diff
Q1917  e76fx.bed help when
Q1918  e76fx.bed years
Q1919  e76fx.bed since age
Q1920  e76fx.bed since year
Q1929  e77x.toilet diff
Q1930  e77fx.toilet help when
Q1931  e77fx.toilet years
Q1932  e77fx.toilet since age
Q1933  e77fx.toilet since year

Wave 5 Exit:
R1862  e32.(old e31) days in bed
R1872  e73fx.dress diff
R1873  e73gx.dress help when
R1874  e73gax.dress years
R1875  e73gbx.dress since age
R1876  e73gcx.dress since year
R1879  e72x.walk diff
R1883  e72fx.walking help when
R1884  e72fax.walking years
R1885  e72fbx.walking since age
R1886  e72fcx.walking since year
R1894  e74x.bathing diff
R1895  e74fx.bathing help when
R1896  e74fax.bathing years
R1897  e74fbx.bathing since age
R1898  e74fcx.bathing since year
R1909  e75x.eat diff
R1910  e75fx.eat help when
R1911  e75fax.eat years
R1912  e75fbx.eat since age
R1913  e75fcx.eat since year
R1924  e76x.bed diff
R1930  e76fx.bed help when
R1931  e76fbx.bed since age
R1932  e76fcx.bed since year
R1942  e77x.toilet diff
R1943  e77fx.toilet help when
R1944  e77fax.toilet years
R1945  e77fbx.toilet since age
R1946  e77fcx.toilet since year

Wave 6 Exit:
SG015  help w/dress
SG020  adl walk help
SG022  adl bathe help
SG024  adl eat help
SG029  adl bed help
SG031  adl toilet help
SG129  number days in bed
SG130  help dressing- months
SG131  help dressing- years
SG132  help dressing- since age
SG133  help dressing- since year
SG134  help walking- months
SG135  help walking- years
SG136  help walking- since age
SG137  help walking- since year
SG138  help bathing- months
SG139  help bathing- years
SG140  help bathing- since age
SG141  help bathing- since year
SG142  help eating- months
SG143  help eating- years
SG144  help eating- since age
SG145  help in/out bed- months
SG146  help in/out bed- years
SG147  help in/out bed- since age
SG148  help in/out bed- since year
SG149  help using toilet- months
SG150  help using toilet- years
SG151  help using toilet- since age
SG152  help using toilet- since year
SG170  help eating- since year

Wave 7 Exit:
  TG015  help w/dress
  TG020  adl walk help
  TG022  adl bathe help
  TG024  adl eat help
  TG029  adl bed help
  TG031  adl toilet help
  TG129  number days in bed
  TG130  help dressing- months
  TG131  help dressing- years
  TG132  help dressing- since age
  TG133  help dressing- since year
  TG134  help walking- months
  TG135  help walking- years
  TG136  help walking- since age
  TG137  help walking- since year
  TG138  help bathing- months
  TG139  help bathing- years
  TG140  help bathing- since age
  TG141  help bathing- since year
  TG142  help eating- months
  TG143  help eating- years
  TG144  help eating- since age
  TG145  help in/out bed- months
  TG146  help in/out bed- years
  TG147  help in/out bed- since age
  TG148  help in/out bed- since year
  TG149  help using toilet- months
  TG150  help using toilet- years
  TG151  help using toilet- since age
  TG152  help using toilet- since year
  TG170  help eating- since year

Wave 8 Exit:
  UG015  help w/dress
  UG020  adl walk help
  UG022  adl bathe help
  UG024  adl eat help
  UG029  adl bed help
  UG031  adl toilet help
  UG129  number days in bed
  UG130  help dressing- months
  UG131  help dressing- years
  UG132  help dressing- since age
  UG133  help dressing- since year
  UG134  help walking- months
  UG135  help walking- years
  UG136  help walking- since age
  UG137  help walking- since year
  UG138  help bathing- months
  UG139  help bathing- years
  UG140  help bathing- since age
  UG141  help bathing- since year
  UG142  help eating- months
  UG143  help eating- years
  UG144  help eating- since age
  UG145  help in/out bed- months
  UG146  help in/out bed- years
  UG147  help in/out bed- since age
  UG148  help in/out bed- since year
UG149  help using toilet- months
UG150  help using toilet- years
UG151  help using toilet- since age
UG152  help using toilet- since year
UG170  help eating- since year

Wave 9 Exit:
VG015  help w/dress
VG020  adl walk help
VG022  adl bathe help
VG024  adl eat help
VG029  adl bed help
VG031  adl toilet help
VG129  number days in bed
VG130  help dressing- months
VG131  help dressing- years
VG132  help dressing- since age
VG133  help dressing- since year
VG134  help walking- months
VG135  help walking- years
VG136  help walking- since age
VG137  help walking- since year
VG138  help bathing- months
VG139  help bathing- years
VG140  help bathing- since age
VG141  help bathing- since year
VG142  help eating- months
VG143  help eating- years
VG144  help eating- since age
VG145  help in/out bed- months
VG146  help in/out bed- years
VG147  help in/out bed- since age
VG148  help in/out bed- since year
VG149  help using toilet- months
VG150  help using toilet- years
VG151  help using toilet- since age
VG152  help using toilet- since year
VG170  help eating- since year

Wave 10 Exit:
WG015  help w/dress
WG020  adl walk help
WG022  adl bathe help
WG024  adl eat help
WG029  adl bed help
WG031  adl toilet help
WG129  number days in bed
WG130  help dressing- months
WG131  help dressing- years
WG132  help dressing- since age
WG133  help dressing- since year
WG134  help walking- months
WG135  help walking- years
WG136  help walking- since age
WG137  help walking- since year
WG138  help bathing- months
WG139  help bathing- years
WG140  help bathing- since age
WG141  help bathing- since year
WG142  help eating- months
WG143  help eating- years
WG144  help eating- since age
WG145  help in/out bed- months
WG146  help in/out bed- years
WG147  help in/out bed- since age
Section L: Assistance and Caregiving

WG148          help in/out bed- since year
WG149          help using toilet- months
WG150          help using toilet- years
WG151          help using toilet- since age
WG152          help using toilet- since year
WG170          help eating- since year
Wave 11 Exit:
   XG015          help w/dress
   XG020          adl walk help
   XG022          adl bathe help
   XG024          adl eat help
   XG029          adl bed help
   XG031          adl toilet help
   XG129          number days in bed
   XG130          help dressing- months
   XG131          help dressing- years
   XG132          help dressing- since age
   XG133          help dressing- since year
   XG134          help walking- months
   XG135          help walking- years
   XG136          help walking- since age
   XG137          help walking- since year
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   XG139          help bathing- years
   XG140          help bathing- since age
   XG141          help bathing- since year
   XG142          help eating- months
   XG143          help eating- years
   XG144          help eating- since age
   XG145          help in/out bed- months
   XG146          help in/out bed- years
   XG147          help in/out bed- since age
   XG148          help in/out bed- since year
   XG149          help using toilet- months
   XG149          help using toilet- years
   XG150          help using toilet- since age
   XG151          help using toilet- since year
   XG170          help eating- since year
Wave 12 Exit:
   YG015          help w/dress
   YG020          adl walk help
   YG022          adl bathe help
   YG024          adl eat help
   YG029          adl bed help
   YG031          adl toilet help
   YG129          number days in bed
   YG130          help dressing- months
   YG131          help dressing- years
   YG132          help dressing- since age
   YG133          help dressing- since year
   YG134          help walking- months
   YG135          help walking- years
   YG136          help walking- since age
   YG137          help walking- since year
   YG138          help bathing- months
   YG139          help bathing- years
   YG140          help bathing- since age
   YG141          help bathing- since year
   YG142          help eating- months
   YG143          help eating- years
   YG144          help eating- since age
   YG145          help in/out bed- months
   YG146          help in/out bed- years
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<td>YG170</td>
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Activities of Daily Living: Help Received Started to be Needed within Final Year

Wave Variable | Label | Type
---|---|---
0A RAXDRESSB1Y | raxdressb1y: r final help with dressing started within year | Categ
0A RAXWALKB1Y | raxwalkb1y: r final help with walking across room started wi | Categ
0A RAXBATHEB1Y | rxbatheb1y: r final help with bathing started within year | Categ
0A RAXEATB1Y | raxeatb1y: r final help with eating started within year | Categ
0A RAXBEDB1Y | raxbedb1y: r final help with getting in/out bed started with | Categ
0A RAXTOILETB1Y | raxtoiletb1y: r final help with toileting started within yea | Categ
0A RAXADLBH1Y | raxadlbh1y: r final help with any adl started within year | Categ

Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
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Categorical Variable Codes

Value----------------------| RAXDRESSB1Y
.b:bed-ridden              | 3588
.d:dk                      | 244
.h:no help received        | 4267
.i:invalid response        | 2
.j:did not do              | 4
.m:missing                 | 16
.q:not asked this wave     | 174
.r:refuse                  | 7
.t:cannot do               | 9
0.no                       | 918
1.yes                      | 3723

Value----------------------| RAXWALKB1Y
.b:bed-ridden              | 3588
.d:dk                      | 222
.h:no help received        | 5386
.i:invalid response        | 4
.j:did not do              | 2
.m:missing                 | 17
.q:not asked this wave     | 174
.r:refuse                  | 9
.t:cannot do               | 21
0.no                       | 671
1.yes                      | 3058

Value----------------------| RAXBATHEB1Y
## How Constructed:

RAXDRESSB1Y, RAXWALKB1Y, RAXBATHEB1Y, RAXEATB1Y, RAXBEDB1Y, and RAXTOILETB1Y indicate whether the help the deceased respondent received in the last three months of life with the specific activity of daily living because of a physical, mental, emotional or memory problem, started to be needed within the last year of life. RAXDRESSB1Y indicates whether the help the respondent received with dressing, including putting on shoes and socks, in the last three months of life started to be needed within the last year of life. RAXWALKB1Y indicates whether the help the respondent received with getting across a room in the last three months of life started to be needed within the last year of life. RAXBATHEB1Y indicates whether the
help the respondent received with bathing or showering in the last three months of life started to be needed within the last year of life. RAXEATB1Y indicates whether the help the respondent received with eating, such as cutting up food, in the last three months of life started to be needed within the last year of life. RAXBEDB1Y indicates whether the help the respondent received with getting in or out of bed in the last three months of life started to be needed within the last year of life. RAXTOILETB1Y indicates whether the help the respondent received with using the toilet, including getting up and down, in the last three months of life started to be needed within the last year of life. The proxy is asked when the respondent began needing help with the activity, and the proxy can report the number of months or years that the respondent needed help with the activity, since what age the respondent needed help, or since what year the respondent needed help. If the proxy reports the age the respondent began needing help, then that value is subtracted from the respondent’s age at death to determine how long the respondent needed help. If the proxy reports the year the respondent began needing help, then this value is subtracted from the respondent’s death year (KNOWNDECEASEDYR from the HRS Tracker File) to determine how long the respondent needed help. RAXDRESSB1Y, RAXWALKB1Y, RAXBATHEB1Y, RAXEATB1Y, RAXBEDB1Y, and RAXTOILETB1Y are assigned a value of 0 if the proxy reported that the respondent received help in the last three months of life and the need for this help started more than 12 months or more than 1 year before death, or if the proxyreported an age or year when the respondent began needing help and this value was greater than a year before death. These variables are assigned a value of 1 if the proxy reported that the respondent received help in the last three months of life and the need for this help started 12 or fewer months or 0 or 1 years before death, or if the proxy reported an age or year when the respondent began needing help and this value was a year or less before death.

If the reported or calculated time is greater than the age at death or takes on a negative value, then these variables are coded with special missing .i. RAXDRESSB1Y, RAXWALKB1Y, RAXBATHEB1Y, RAXEATB1Y, RAXBEDB1Y, and RAXTOILETB1Y are coded as special missing .h if nobody helped the respondent with the specific activity in the last three months of life. If the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and the variables are assigned special missing .b. In AHEAD wave 2 and HRS wave 3, if the proxy responds that the respondent could not do or did not do the activity of daily living, then these questions are not asked and the variables are assigned special missing .t or .j, respectively. These questions are not asked in HRS wave 2, and so these variables are assigned special missing .q in this wave. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXADLBH1Y indicates whether the help the deceased respondent received with any activity of daily living because of a physical, mental, emotional or memory problem in the last three months of life started to be needed within the last year of life. The activities of daily living include dressing, walking across a room, bathing, eating, getting in and out of bed, and using the toilet. RAXADLBH1Y is coded as 0 if the respondent received help with at least one ADL activity in the last three months of life but the respondent began needing help more than 1 year before death. RAXADLBH1Y is coded as 1 if somebody helped the respondent with at least one activity of daily living in the last three months of life and the respondent began needing help with at least one activity in the last year of life. RAXADLBH1Y is coded as 0 or 1 as long as at least one of the comprising measures is not missing. If the reported or calculated time is greater than the age at death or takes on a negative value, then this variable is coded with special missing .i. RAXADLBH1Y is coded as special missing .h if nobody helped the respondent with any ADL activity in the last three months of life. If the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and the variables are assigned special missing .b. These questions are not asked in HRS wave 2, and so these variables are assigned special missing .q in this wave. Don’t know, refused, did not do, could not do, or other missing responses are assigned special missing .d, .r, .j, .t, .m, respectively.

**Cross Wave Differences in HRS**

Questions about when the respondent began needing help with ADLs are not asked in HRS wave 2, but are asked beginning in AHEAD wave 2 and HRS wave 3. The proxy is not specifically asked whether the respondent began needing help with the ADL activity in the last year before
death, rather this is calculated based on the proxy’s responses to when the respondent began needing help with ADL activities.

Proxies were first asked whether anyone helped with the ADL activity in the last three months before death, and if so, then asked to report the number of months, number of years, since what age, or since what year the respondent needed help. In AHEAD wave 2 and HRS wave 3, if the proxy responds that the respondent "could not do" or "did not do" the ADL activity when asked whether anyone helped with the activity, then the proxy was not asked the second question. Starting in wave 4, the proxy is asked the second question if the proxy responds that the respondent "could not do" or "did not do" the ADL activity.

**HRS Variables Used:**

**HRS:**
- **RABMONTH**
  - rabmonth: r birth month
- **RABYEAR**
  - rabyear: r birth year

**Tracker:**
- **KNOWNDECEASED**  
  - known deceased - month
- **KNOWNDECEASEDYR**  
  - known deceased - year

**Wave 2A Exit:**
- **N1819**
  - e31x.days in bed
- **N1877**
  - e72fx.adl walk help
- **N1878**
  - e72gx.walk help when
- **N1879**
  - e72hx.walk years
- **N1880**
  - e72hx.walk since age
- **N1881**
  - e72hx.walk since year
- **N1887**
  - e73fx.adl dress help
- **N1888**
  - e73gx.dress help when
- **N1889**
  - e72hx.dress years
- **N1890**
  - e72hx.dress since age
- **N1891**
  - e72hx.dress since year
- **N1897**
  - e74fx.adl bathe help
- **N1898**
  - e74gx.walk help when
- **N1899**
  - e74hx.bathe years
- **N1900**
  - e74hx.bathe since age
- **N1901**
  - e74hx.bathe since year
- **N1907**
  - e75fx.adl eat help
- **N1908**
  - e75gx.eat help when
- **N1909**
  - e75hx.eat years
- **N1910**
  - e75hx.eat since age
- **N1911**
  - e75hx.eat since year
- **N1920**
  - e76fx.adl bed help
- **N1921**
  - e76gx.bed help when
- **N1922**
  - e76hx.bed years
- **N1923**
  - e76hx.bed since age
- **N1924**
  - e76hx.bed since year
- **N1930**
  - e77fx.adl toilet help
- **N1931**
  - e77gx.toilet help when
- **N1932**
  - e77hx.toilet years
- **N1933**
  - e77hx.toilet since age
- **N1934**
  - e77hx.toilet since year

**Wave 3 Exit:**
- **P1400**
  - e31x.days in bed
- **P1415**
  - e72fx.adl walk help
- **P1416**
  - e72gx.walk help when
- **P1417**
  - e72hx.walk years
- **P1418**
  - e72hx.walk since age
- **P1419**
  - e72hx.walk since year
- **P1425**
  - e73fx.adl dress help
- **P1426**
  - e73gx.dress help when
- **P1427**
  - e72hx.dress years
- **P1428**
  - e72hx.dress since age
- **P1429**
  - e72hx.dress since year
Wave 4 Exit:
Q1842          e32.(old e31) days in bed
Q1852          e73fx.dress diff
Q1853          e73gx.dress help when
Q1854          e73gx.dress years
Q1855          e73gx.dress since age
Q1856          e73gx.dress since year
Q1859          e72x.walk diff
Q1863          e72fx.walking help when
Q1864          e72fx.walking years
Q1865          e72fx.walking since age
Q1866          e72fx.walking since year
Q1881          e74x.bathing diff
Q1882          e74fx.bathing help when
Q1883          e74fx.bathing years
Q1884          e74fx.bathing since age
Q1885          e74fx.bathing since year
Q1896          e75x.eat diff
Q1897          e75fx.eat help when
Q1898          e75fx.eat years
Q1899          e75fx.eat since age
Q1900          e75fx.eat since year
Q1911          e76x.bed diff
Q1917          e76fx.bed help when
Q1918          e76fx.bed years
Q1919          e76fx.bed since age
Q1920          e76fx.bed since year
Q1929          e77x.toilet diff
Q1930          e77fx.toilet help when
Q1931          e77fx.toilet years
Q1932          e77fx.toilet since age
Q1933          e77fx.toilet since year

Wave 5 Exit:
R1862          e32.(old e31) days in bed
R1872          e73fx.dress diff
R1873          e73gx.dress help when
R1874          e73gx.dress years
R1875          e73gx.dress since age
R1876          e73gx.dress since year
R1879          e72x.walk diff
R1883          e72fx.walking help when
R1884          e72fax.walking years
R1885          e72fbx.walking since age
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Section L: Assistance and Caregiving

R1886  e72fcx.walking since year
R1894  e74x.bathing diff
R1895  e74fx.bathing help when
R1896  e74fax.bathing years
R1897  e74fbx.bathing since age
R1898  e74fcx.bathing since year
R1909  e75x.eat diff
R1910  e75fx.eat help when
R1911  e75fax.eat years
R1912  e75fbx.eat since age
R1913  e75fcx.eat since year
R1924  e76x.bed diff
R1930  e76fx.bed help when
R1931  e76fax.bed years
R1932  e76fbx.bed since age
R1933  e76fcx.bed since year
R1942  e77x.toilet diff
R1943  e77fx.toilet help when
R1944  e77fax.toilet years
R1945  e77fbx.toilet since age
R1946  e77fcx.toilet since year

Wave 6 Exit:
SG015  help w/dress
SG020  adl walk help
SG022  adl bathe help
SG024  adl eat help
SG029  adl bed help
SG031  adl toilet help
SG129  number days in bed
SG130  help dressing- months
SG131  help dressing- years
SG132  help dressing- since age
SG133  help dressing- since year
SG134  help walking- months
SG135  help walking- years
SG136  help walking- since age
SG137  help walking- since year
SG138  help bathing- months
SG139  help bathing- years
SG140  help bathing- since age
SG141  help bathing- since year
SG142  help eating- months
SG143  help eating- years
SG144  help eating- since age
SG145  help in/out bed- months
SG146  help in/out bed- years
SG147  help in/out bed- since age
SG148  help in/out bed- since year
SG149  help using toilet- months
SG150  help using toilet- years
SG151  help using toilet- since age
SG152  help using toilet- since year
SG170  help eating- since year

Wave 7 Exit:
TG015  help w/dress
TG020  adl walk help
TG022  adl bathe help
TG024  adl eat help
TG029  adl bed help
TG031  adl toilet help
TG129  number days in bed
TG130  help dressing- months
TG131  help dressing- years
TG132  help dressing- since age
TG133  help dressing- since year
TG134  help walking- months
TG135  help walking- years
TG136  help walking- since age
TG137  help walking- since year
TG138  help bathing- months
TG139  help bathing- years
TG140  help bathing- since age
TG141  help bathing- since year
TG142  help eating- months
TG143  help eating- years
TG144  help eating- since age
TG145  help in/out bed- months
TG146  help in/out bed- years
TG147  help in/out bed- since age
TG148  help in/out bed- since year
TG149  help using toilet- months
TG150  help using toilet- years
TG151  help using toilet- since age
TG152  help using toilet- since year
TG170  help eating- since year
Wave 8 Exit:
UG015  help w/dress
UG020  adl walk help
UG022  adl bathe help
UG024  adl eat help
UG029  adl bed help
UG031  adl toilet help
UG129  number days in bed
UG130  help dressing- months
UG131  help dressing- years
UG132  help dressing- since age
UG133  help dressing- since year
UG134  help walking- months
UG135  help walking- years
UG136  help walking- since age
UG137  help walking- since year
UG138  help bathing- months
UG139  help bathing- years
UG140  help bathing- since age
UG141  help bathing- since year
UG142  help eating- months
UG143  help eating- years
UG144  help eating- since age
UG145  help in/out bed- months
UG146  help in/out bed- years
UG147  help in/out bed- since age
UG148  help in/out bed- since year
UG149  help using toilet- months
UG150  help using toilet- years
UG151  help using toilet- since age
UG152  help using toilet- since year
UG170  help eating- since year
Wave 9 Exit:
VG015  help w/dress
VG020  adl walk help
VG022  adl bathe help
VG024  adl eat help
VG029  adl bed help
VG031  adl toilet help
VG129  number days in bed
VG130  help dressing- months
VG131 help dressing - years
VG132 help dressing - since age
VG133 help dressing - since year
VG134 help walking - months
VG135 help walking - years
VG136 help walking - since age
VG137 help walking - since year
VG138 help bathing - months
VG139 help bathing - years
VG140 help bathing - since age
VG141 help bathing - since year
VG142 help eating - months
VG143 help eating - years
VG144 help eating - since age
VG145 help in/out bed - months
VG146 help in/out bed - years
VG147 help in/out bed - since age
VG148 help in/out bed - since year
VG149 help using toilet - months
VG150 help using toilet - years
VG151 help using toilet - since age
VG152 help using toilet - since year
VG170 help eating - since year

Wave 10 Exit:
WG015 help w/dress
WG020 adl walk help
WG022 adl bathe help
WG024 adl eat help
WG029 adl bed help
WG031 adl toilet help
WG129 number days in bed
WG130 help dressing - months
WG131 help dressing - years
WG132 help dressing - since age
WG133 help dressing - since year
WG134 help walking - months
WG135 help walking - years
WG136 help walking - since age
WG137 help walking - since year
WG138 help bathing - months
WG139 help bathing - years
WG140 help bathing - since age
WG141 help bathing - since year
WG142 help eating - months
WG143 help eating - years
WG144 help eating - since age
WG145 help in/out bed - months
WG146 help in/out bed - years
WG147 help in/out bed - since age
WG148 help in/out bed - since year
WG149 help using toilet - months
WG150 help using toilet - years
WG151 help using toilet - since age
WG152 help using toilet - since year
WG170 help eating - since year

Wave 11 Exit:
XG015 help w/dress
XG020 adl walk help
XG022 adl bathe help
XG024 adl eat help
XG029 adl bed help
XG031 adl toilet help
XG129 number days in bed
XG130 help dressing- months
XG131 help dressing- years
XG132 help dressing- since age
XG133 help dressing- since year
XG134 help walking- months
XG135 help walking- years
XG136 help walking- since age
XG137 help walking- since year
XG138 help bathing- months
XG139 help bathing- years
XG140 help bathing- since age
XG141 help bathing- since year
XG142 help eating- months
XG143 help eating- years
XG144 help eating- since age
XG145 help in/out bed- months
XG146 help in/out bed- years
XG147 help in/out bed- since age
XG148 help in/out bed- since year
XG149 help using toilet- months
XG150 help using toilet- years
XG151 help using toilet- since age
XG152 help using toilet- since year
XG170 help eating- since year

Wave 12 Exit:
YG015 help w/dress
YG020 adl walk help
YG022 adl bathe help
YG024 adl eat help
YG029 adl bed help
YG031 adl toilet help
YG129 number days in bed
YG130 help dressing- months
YG131 help dressing- years
YG132 help dressing- since age
YG133 help dressing- since year
YG134 help walking- months
YG135 help walking- years
YG136 help walking- since age
YG137 help walking- since year
YG138 help bathing- months
YG139 help bathing- years
YG140 help bathing- since age
YG141 help bathing- since year
YG142 help eating- months
YG143 help eating- years
YG144 help eating- since age
YG145 help in/out bed- months
YG146 help in/out bed- years
YG147 help in/out bed- since age
YG148 help in/out bed- since year
YG149 help using toilet- months
YG150 help using toilet- years
YG151 help using toilet- since age
YG152 help using toilet- since year
YG170 help eating- since year
### Activities of Daily Living: Who Helped with ADLs

<table>
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<tr>
<th>Wave Variable</th>
<th>Label</th>
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<tbody>
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<td>0A RAXAHSP</td>
<td>raxahsp: spouse helped r with adls final 3 months</td>
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<tr>
<td>0A RAXAHKID</td>
<td>raxahkid: child/grandchild helped r with adls final 3 months</td>
</tr>
<tr>
<td>0A RAXAHRL</td>
<td>raxahrl: relative helped r with adls final 3 months</td>
</tr>
<tr>
<td>0A RAXAHOT</td>
<td>raxahot: other individual helped r with adls final 3 months</td>
</tr>
<tr>
<td>0A RAXAHPRO</td>
<td>raxahpro: professional helped r with adls final 3 months</td>
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#### Descriptive Statistics

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<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
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#### Categorical Variable Codes

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<tr>
<td>.d:dk</td>
<td>3</td>
</tr>
<tr>
<td>.h:no help received</td>
<td>3108</td>
</tr>
<tr>
<td>.m:missing</td>
<td>44</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>174</td>
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<tr>
<td>.r:refuse</td>
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<td>0.no</td>
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<td>.q:not asked this wave</td>
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<td>.m:missing</td>
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Section L: Assistance and Caregiving

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**How Constructed:**

RAXAHSP, RAXAHKID, RAXAHR, RAXAHOT, and RAXAHPRO indicate whether a specific person helped the deceased respondent with any activity of daily living, as reported by the proxy. The proxy is first asked whether anyone helped the respondent with each ADL activity, and if the proxy reports that someone helped the respondent with the activity of daily living, then the proxy is asked for the relationship of the people who helped the respondent with each activity in AHEAD wave 2 and HRS wave 3, or with any ADL activity starting in wave 4. Starting in wave 4, the proxy is also asked for the relationship of the people who helped the respondent if the proxy reported that the respondent was bedridden. The proxy is able to report the relationships of multiple people who helped the respondent. RAXAHSP indicates whether the respondent’s spouse or partner helped the respondent with ADLs. RAXAHKID indicates whether the respondent’s child, son, stepson, son-in-law, daughter, stepdaughter, daughter-in-law, grandchild, an unlisted child or child-in-law, former step-child, former child-in-law, grandchild-in-law, unknown child/ambiguous child relationship, or ambiguous child-in-law relationship helped the respondent with ADLs. RAXAHR indicates whether the respondent’s father, father-in-law, mother, mother-in-law, parents, brother, brother-in-law, sister, sister-in-law, or other relative helped the respondent with ADLs. RAXAHOT indicates whether another individual, late spouse/partner, ex-spouse/partner, not proxy interview, organization, or person of unknown relationship helped the respondent with ADLs. RAXAHPRO indicates whether an employee of institution, paid helper, professional, or specified professional helped the respondent with ADLs. RAXAHSP, RAXAHKID, RAXAHR, RAXAHOT, and RAXAHPRO are coded as 0 if no one of the specified relationship helped the respondent with ADLs. RAXAHSP, RAXAHKID, RAXAHR, RAXAHOT, and RAXAHPRO are coded as 1 if somebody of the specified relationship helped the respondent with ADLs. RAXAHSP, RAXAHKID, RAXAHR, RAXAHOT, and RAXAHPRO are coded as special missing .h if nobody helped the respondent with the specific activity in the last three months of life. In AHEAD wave 2 and HRS wave 3, RAXAHSP, RAXAHKID, RAXAHR, RAXAHOT, and RAXAHPRO are coded as special missing .b if the proxy was not asked who helped the respondent because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. These variables are not available in HRS wave 2 and are assigned special missing .q in this wave. Don’t know, refused, and other missing responses are assigned special missing .d, .r, .m, respectively.

In AHEAD wave 2 and HRS waves 3 through 5, the Preload HH Member Child (PR_MC) file is used to supplement the information obtained in the main exit interview file and assign relationships to the respondent’s helpers. In HRS wave 3, the Helper file is also used to assign relationships to the respondent’s helpers.

**Cross Wave Differences in HRS**

Questions regarding who helped the respondent with any ADL activity are not asked in HRS wave 2, but are asked beginning in AHEAD wave 2 and HRS wave 3.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked who helped the respondent if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. Starting in wave 4, the proxy is asked who helped the respondent with ADL activities if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury.

In AHEAD wave 2 and HRS wave 3, the proxy is asked who helped the respondent after each ADL that the proxy reported the respondent having help with. Starting in wave 4, the proxy is
asked who helped the respondent with any ADL that the proxy reported the respondent having difficulty with once all the ADL activities have been inquired about.

In AHEAD wave 2 and HRS waves 3 through 5, the Preload HH Member Child (PR_MC) file is used to supplement the information obtained in the main exit interview file and assign relationships to the respondent's helpers. In HRS wave 3, the Helper file is also used to assign relationships to the respondent's helpers. In waves 6 and onward, the information to assign relationships to the respondent's helpers is only taken from the main exit interview file.

The categories for helper relationships are different across waves. In AHEAD wave 2 and HRS waves 3 through 5, the categories are more general, and across the files used to obtain relationships to the respondent in these waves, categories include the respondent's spouse, child, step/partner child, child-in-law, unlisted child or child-in-law, grandchild, employee of institution, other relative, other individual, organization, professional, and other. Only in HRS wave 3, deceased child and all children are also categories used to assign relationships of the respondent's helper. Starting in wave 6, the relationship list is much more specific, specifying sons, daughters, additional relative relationships, and paid helpers. Wave 6 includes categories for "not proxy interview" and "relationship unknown", which are not included in the following waves. The wave 6 category of "unknown child" is changed to "ambiguous child relationship" in the following waves. Starting in wave 7, the additional category of "ambiguous child-in-law relationship" is included.

**HRS Variables Used:**

**Wave 2A Exit:**
- N1819 e31x.days in bed
- N1877 e72fx.adl walk help
- N1887 e73fx.adl dress help
- N1897 e74fx.adl bathe help
- N1907 e75fx.adl eat help
- N1920 e76fx.adl bed help
- N1930 e77fx.adl toilet help
- N1961 e83.who help-11
- N1967 e83a.type helper-1
- N1975 e84.who help-2
- N1976 e84a.type helper-2
- N1984 e85.who help-3
- N1985 e85a.type helper-3
- N1988 e86.who help-4
- N1989 e86a.type helper-4
- N1992 e87.who help-5
- N1993 e87a.type helper-5
- N1996 e88.who help-6
- N1997 e88a.type helper-6
- N2000 e89.who help-7
- N2001 e89a.type helper-7

**Wave 2A Exit PRMC:**
- N10 FAMILY/HH MEM REL TO IDFM
- OPN FAMILY/HH MEMBER PERSON NUMBER

**Wave 3 Exit:**
- P1400 e31x.days in bed
- P1415 e72fx.adl walk help
- P1425 e73fx.adl dress help
- P1435 e74fx.adl bathe help
- P1445 e75fx.adl eat help
- P1458 e76fx.adl bed help
- P1468 e77fx.adl toilet help
- P1499 e83.who help-11
- P1505 e83a.type helper-1
- P1513 e84.who help-2
- P1514 e84a.type helper-2
- P1522 e85.who help-3
Section L: Assistance and Caregiving

P1523  e85a.type helper-3
P1526  e86.who help-4
P1527  e86a.type helper-4
P1530  e87.who help-5
P1531  e87a.type helper-5
P1534  e88.who help-6
P1535  e88a.type helper-6
P1538  e89.who help-7
P1539  e89a.type helper-7

Wave 3 Exit PRMC:
- OPN HH1 FAM LINE NO
- P10 HH1 REL TO PREV WAVE FAMILY R

Wave 3 Exit Helper:
- OPN Other Person Number
- P1673A HELPER RELATIONSHIP - COMBINED

Wave 4 Exit:
- Q1842 e32.(old e31) days in bed
- Q1852 e73fx.dress diff
- Q1859 e72x.walk diff
- Q1881 e74x.bathing diff
- Q1896 e75x.eat diff
- Q1911 e76x.bed diff
- Q1929 e77x.toilet diff
- Q1956 e83.who help-1
- Q1962 e83a.type helper-1
- Q1970 e84.who help-2
- Q1971 e84a.type helper-2
- Q1979 e85.who help-3
- Q1980 e85a.type helper-3
- Q1983 e86.who help-4
- Q1984 e86a.type helper-4
- Q1987 e87.who help-5
- Q1988 e87a.type helper-5
- Q1991 e88.who help-6
- Q1992 e88a.type helper-6
- Q1995 e89.who help-7
- Q1996 e89a.type helper-7

Wave 4 Exit PRMC:
- OPN OTHER PERSON NUMBER
- Q11 REL TO IDFM

Wave 5 Exit:
- R1862 e32.(old e31) days in bed
- R1872 e73fx.dress diff
- R1879 e72x.walk diff
- R1894 e74x.bathing diff
- R1909 e75x.eat diff
- R1924 e76x.bed diff
- R1942 e77x.toilet diff
- R1950 e83.who help-1
- R1956 e83a.type helper-1
- R1964 e84.who help-2
- R1965 e84a.type helper-2
- R1973 e85.who help-3
- R1974 e85a.type helper-3
- R1977 e86.who help-4
- R1978 e86a.type helper-4
- R1981 e87.who help-5
- R1982 e87a.type helper-5
- R1985 e88.who help-6
- R1986 e88a.type helper-6
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**Wave 11 Exit:**
- XG015: help w/dress
- XG020: adl walk help
- XG022: adl bathe help
- XG024: adl eat help
- XG029: adl bed help
- XG031: adl toilet help
- XG033_1: adl helper relationship to r- 1
- XG033_2: adl helper relationship to r- 2
- XG033_3: adl helper relationship to r- 3
- XG033_4: adl helper relationship to r- 4
- XG033_5: adl helper relationship to r- 5
- XG033_6: adl helper relationship to r- 6
- XG033_7: adl helper relationship to r- 7
- XG129: number days in bed

**Wave 12 Exit:**
- YG015: help w/dress
- YG020: adl walk help
- YG022: adl bathe help
- YG024: adl eat help
- YG029: adl bed help
- YG031: adl toilet help
- YG033_1: adl helper relationship to r- 1
- YG033_2: adl helper relationship to r- 2
- YG033_3: adl helper relationship to r- 3
- YG033_4: adl helper relationship to r- 4
- YG033_5: adl helper relationship to r- 5
- YG033_6: adl helper relationship to r- 6
- YG033_7: adl helper relationship to r- 7
- YG129: number days in bed
# Instrumental Activities of Daily Living: Whether Anyone Helped with IADLs

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<tr>
<td>OA RAXSHOPHLP</td>
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<td>OA RAXPHONEHLP</td>
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## Descriptive Statistics

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## Categorical Variable Codes

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  .j: did not do         | 124
  .m: missing            | 15
  .n: in nursing home    | 4136
  .q: not asked this wave| 174
  .r: refuse             | 4
  .t: cannot do          | 70
  0: no                  | 3983
  1: yes                 | 4131

Value----------------------| RAXIADLH
  .b: bed-ridden         | 267
  .d: dk                 | 55
  .j: did not do         | 789
  .m: missing            | 12
  .q: not asked this wave| 174
  .r: refuse             | 3
  .t: cannot do          | 411
  0: no                  | 4548
  1: yes                 | 6693

How Constructed:

RAXMEALHLP, RAXSHOPHLP, RAXPHONEHLP, and RAXMEDHLP indicate whether anyone helped the deceased respondent with the specific instrumental activity of daily living in the last three months of life because of a physical, mental, emotional or memory problem, as reported by the proxy. RAXMEALHLP indicates whether anyone helped the respondent prepare hot meals in the last three months of life. RAXSHOPHLP indicates whether anyone helped the respondent shop for groceries in the last three months of life. RAXPHONEHLP indicates whether anyone helped the respondent make phone calls in the last three months of life. RAXMEDHLP indicates whether anyone helped the respondent with taking medication in the last three months of life. RAXMEALHLP, RAXSHOPHLP, RAXPHONEHLP, and RAXMEDHLP are coded as 0 if nobody helped the respondent with the specific activity in the last three months of life. RAXMEALHLP, RAXSHOPHLP, RAXPHONEHLP, and RAXMEDHLP are coded as 1 if somebody helped the respondent with the specific activity in the last three months of life. If the proxy responds that the respondent could not do the instrumental activity of daily living, then the variables are assigned special missing .t. If the proxy responds that the respondent did not do the instrumental activity of daily living, then the variables are assigned special missing .j. In AHEAD wave 2 and HRS wave 3, these variables are coded as special missing .b if the proxy is not asked these questions because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, RAXMEALHLP and RAXSHOPHLP are coded as special missing .b if the proxy is not asked whether someone helped the respondent with meals or shopping for groceries because the respondent spent more than 85 days in the last 3 months in bed. Starting in wave 4, RAXMEALHLP, RAXSHOPHLP, and RAXMEDHLP are assigned special missing .n if the proxy is not asked whether someone helped the respondent with preparing hot meals, shopping for groceries, or taking medication because the respondent lived in a nursing home or other health facility at the time of death. In waves 4 and 5, RAXSHOPHLP is assigned special missing .c if the proxy is not asked whether someone helped the respondent with shopping for groceries because the respondent received help preparing hot meals but this help was reportedly not because of a physical, mental, emotional or memory problem. RAXMEALHLP, RAXSHOPHLP, RAXPHONEHLP, and RAXMEDHLP are not available in HRS wave 2 and are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXIADLH indicates whether anyone helped the deceased respondent with any instrumental activity of daily living in the last three months of life because of a physical, mental, emotional or memory problem, as reported by the proxy. The instrumental activities of daily living include preparing hot meals, shopping for groceries, using the telephone, and taking medication. RAXIADLH is coded as 0 if nobody helped the respondent with any instrumental activity of daily living. RAXIADLH is coded as 1 if somebody helped the respondent with at least one instrumental activity of daily living. RAXIADLH is assigned a 0 or 1 as long as at least one of the comprising IADL measures is not missing. In AHEAD wave 2 and HRS wave 3, RAXIADLH is coded as special missing .b if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury and the proxy is not
asked whether anyone helped the respondent with IADLs. Starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about meals, shopping, or medication, so RAXIADLH is equivalent to RAXPHONEHLP for these respondents in these waves. RAXIADLH is not available in HRS wave 2 and is assigned special missing .q in this wave. Don’t know, refused, did not do, could not do, or other missing responses are assigned special missing .d, .r, .j, .t, .m, respectively.

Cross Wave Differences in HRS

The proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medications in HRS wave 2.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medications if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with meals or shopping for groceries if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with shopping for groceries if the respondent received help with preparing hot meals but this help was reportedly not because of a health or memory problem. Starting in wave 6, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about meals, shopping, or medication.

HRS Variables Used:

Wave 2A Exit:
N1819 e31x.days in bed
N2011 e95x.iadl meals help
N2019 e96x.iadl groc help
N2027 e97x.iadl phone help
N2035 e98x.iadl med help
Wave 3 Exit:
P1400 e31x.days in bed
P1549 e95x.iadl meals help
P1557 e96x.iadl groc help
P1565 e97x.iadl phone help
P1573 e98x.iadl med help
Wave 4 Exit:
Q1842 e32.(old e31) days in bed
Q2010 e95x.iadl meals diff
Q2012 e95bx.meals -why dont
Q2020 e96x.iadl groc diff
Q2030 e97x.iadls phone diff
Q2040 e98x.iadls medication diff
Wave 5 Exit:
R1862 e32.(old e31) days in bed
R2002 e95x.iadl meals diff
R2004 e95bx.meals -why dont
R2012 e96x.iadl groc diff
R2022 e97x.iadls phone diff
R2032 e98x.iadls medication diff
Wave 6 Exit:
SA028 r in nursing home
SG043 iadl meal preparation help
SG046 iadl groc shop help
SG049 iadl making phone calls help
SG053 iadl taking medications help
Wave 7 Exit:
TA167 r in nursing home
TG043 iadl meal preparation help
TG046 iadl groc shop help
TG049  iadl making phone calls help
TG053  iadl taking medications help

Wave 8 Exit:
  UA167  r in nursing home
  UG043  iadl meal preparation help
  UG046  iadl groc shop help
  UG049  iadl making phone calls help
  UG053  iadl taking medications help

Wave 9 Exit:
  VA167  r in nursing home
  VG043  iadl meal preparation help
  VG046  iadl groc shop help
  VG049  iadl making phone calls help
  VG053  iadl taking medications help

Wave 10 Exit:
  WA028  r in nursing home
  WG043  iadl meal preparation help
  WG046  iadl groc shop help
  WG049  iadl making phone calls help
  WG053  iadl taking medications help

Wave 11 Exit:
  XA028  r in nursing home
  XG043  iadl meal preparation help
  XG046  iadl groc shop help
  XG049  iadl making phone calls help
  XG053  iadl taking medications help

Wave 12 Exit:
  YA028  r in nursing home
  YG043  iadl meal preparation help
  YG046  iadl groc shop help
  YG049  iadl making phone calls help
  YG053  iadl taking medications help
**Instrumental Activities of Daily Living: Age Began Needing Help with IADLs**

<table>
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<tr>
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<tr>
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<tr>
<td>0A RAXSHOPAGE</td>
<td>raxshopage: age r began to need help grocery shopping</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXPHONEAGE</td>
<td>raxphoneage: age r began to need help using the phone</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RAXMEDAGE</td>
<td>raxmedage: age r began to need help with medications</td>
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**Descriptive Statistics**

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<td>RAXPHONEAGE</td>
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<td>109.00</td>
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<td>RAXMEDAGE</td>
<td>4087</td>
<td>77.12</td>
<td>10.77</td>
<td>0.00</td>
<td>109.00</td>
</tr>
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</table>

**How Constructed:**

RAXMEALAGE, RAXSHOPAGE, RAXPHONEAGE, and RAXMEDAGE indicate the age the deceased respondent began needing help with the specific instrumental activity of daily living because of a physical, mental, emotional or memory problem, as reported by the proxy. RAXMEALAGE indicates the age the respondent began needing help with preparing hot meals. RAXSHOPAGE indicates the age the respondent began needing help with shopping for groceries. RAXPHONEAGE indicates the age the respondent began needing help with using the telephone. RAXMEDAGE indicates the age the respondent began needing help with taking medication. The proxy can report the number of months or years that the respondent needed help with the activity, since what age the respondent needed help, or since what year the respondent needed help. If the proxy reports the number of months the respondent needed help, this value and the respondent's age at death in months (taken from KNOWNDECEASEDYR and KNOWNDECEASEDMO in the HRS Tracker File) are used to obtain the age the respondent began needing help. If the proxy reports the number of years the respondent needed help, this value and the respondent's age at death are used to obtain the age the respondent began needing help. If the proxy reports the age the respondent began needing help, then that value is reported. If the proxy reports the year the respondent began needing help, then this value, the respondent's death year (KNOWNDECEASEDYR from the HRS Tracker File), and the respondent's death age are used to obtain the age the respondent began needing help. If the reported or calculated age is greater than the age at death or takes on a negative value, then these variables are coded with special missing .i. RAXMEALAGE, RAXSHOPAGE, RAXPHONEAGE, and RAXMEDAGE are coded as special missing .h if nobody helped the respondent with the specific activity in the last three months of life. In AHEAD wave 2, RAXMEALAGE is coded as special missing .o if the age was reported as other. In wave 4, RAXMEALAGE is coded as special missing .l if the answer was coded as "time not given in months". In AHEAD wave 2 and HRS wave 3, these variables are coded as special missing .b if the proxy is not asked these questions because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, RAXMEALAGE and RAXSHOPAGE are coded as special missing .b if the proxy is not asked whether someone helped the respondent with meals or shopping for groceries because the respondent spent more than 85 days in the last three months in bed. Starting in wave 4, if the respondent needed help with an activity, but it was not the result of a health or memory problem, then the proxy is not asked how long the respondent had needed help with the activity, and the variable is assigned special missing .l. Also starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about the age the
respondent began needing help with meals, shopping, or medication and RAXMEALAGE, RAXSHOPAGE, and RAXMEDAGE are assigned special missing .n. In waves 4 and 5, RAXSHOPAGE is assigned special missing .c if the proxy was not asked whether someone helped the respondent with shopping for groceries because the respondent received help with preparing hot meals but this help was reportedly not the result of a health or memory problem. RAXMEALAGE, RAXSHOPAGE, RAXPHONEAGE, and RAXMEDAGE are not available in HRS wave 2 and so are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Please note the presence of several low values (below age 14) for RAXMEALAGE, RAXSHOPAGE, RAXPHONEAGE, and RAXMEDAGE. These extreme values were either ages, the number of years, or since what year the respondent needed help with the particular ADL as reported by the proxies. We have left the use of these values to the discretion of the user.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medication.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medications if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with meals or shopping for groceries if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. Starting in wave 4, if the respondent needed help with an activity, but it was not the result of a health or memory problem, then the proxy is not asked how long the respondent had needed help with the activity. Starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked whether someone helped the respondent or what age the respondent began needing help with meals, shopping, or medication. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with shopping for groceries if the respondent received help preparing hot meals but this help was reported not the result of a health or memory problem.

In AHEAD wave 2, the proxy can respond that the age the respondent began needing help with preparing hot meals is "other". In wave 4, it was possible for the time to not be given in months for the age the respondent began needing help with preparing hot meals.

HRS Variables Used:

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<thead>
<tr>
<th>RAND HRS:</th>
<th>Tracker:</th>
</tr>
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<tr>
<td>RABMONTH</td>
<td>known deceased - month</td>
</tr>
<tr>
<td>RABYEAR</td>
<td>known deceased - year</td>
</tr>
</tbody>
</table>

Wave 2A Exit:

| N1819 | e3lx.days in bed |
| N2011 | e95x.iadl meals help |
| N2014 | e95gx.meal help when |
| N2015 | e95hx.meal years |
| N2016 | e95hx.meal since age |
| N2017 | e95hx.meal since year |
| N2019 | e96x.iadl groc help |
| N2022 | e96gx.shop help when |
| N2023 | e96hx.shop years |
| N2024 | e96hx.shop since age |
| N2025 | e96hx.shop since year |
| N2027 | e97x.iadl phone help |
| N2030 | e97gx.phone help when |
| N2031 | e97hx.phone years |
| N2032 | e97hx.phone since age |
N2033  e97hx.phone since year
N2035  e98x.iadl med help
N2038  e98gx.medication help when
N2039  e98hx.medication years
N2040  e98hx.medication since age
N2041  e98hx.medication since year

Wave 3 Exit:
P1400  e31x.days in bed
P1549  e95x.iadl meals help
P1552  e95gx.meal help when
P1553  e95hx.meal years
P1554  e95hx.meal since age
P1555  e95hx.meal since year
P1557  e96x.iadl groc help
P1560  e96gx.shop help when
P1561  e96hx.shop years
P1562  e96hx.shop since age
P1563  e96hx.shop since year
P1565  e97x.iadl phone help
P1568  e97gx.phone help when
P1569  e97hx.phone years
P1570  e97hx.phone since age
P1571  e97hx.phone since year
P1573  e98x.iadl med help
P1576  e98gx.medication help when
P1577  e98hx.medication years
P1578  e98hx.medication since age
P1579  e98hx.medication since year

Wave 4 Exit:
Q1842  e32.(old e31) days in bed
Q2010  e95x.iadl meals diff
Q2012  e95bx.meals -why dont
Q2013  e95gx.meals help when
Q2014  e95hx.meals years
Q2015  e95hx.meals since age
Q2016  e95hx.meals since year
Q2020  e96x.iadl groc diff
Q2023  e96gx.groc help when
Q2024  e96hx.groc years
Q2025  e96hx.groc since age
Q2026  e96hx.groc since year
Q2030  e97x.iadls phone diff
Q2033  e97gx.phone help when
Q2034  e97hx.phone years
Q2035  e97hx.phone since age
Q2036  e97hx.phone since year
Q2040  e98x.iadls medication diff
Q2042  e98gx.med help when
Q2043  e98hx.med years
Q2044  e98hx.med since age
Q2045  e98hx.med since year

Wave 5 Exit:
R1862  e32.(old e31) days in bed
R2002  e95x.iadl meals diff
R2004  e95bx.meals -why dont
R2005  e95gx.meals help when
R2006  e95hx.meals years
R2007  e95hax.meals since age
R2008  e95hbx.meals since year
R2012  e96x.iadl groc diff
R2015  e96gx.groc help when
R2016  e96hx.groc years
R2017  e96hax.groc since age
Section L: Assistance and Caregiving

R2018  e96hbx.groc since year
R2022  e97x.iadls phone diff
R2025  e97gx.phone help when
R2026  e97hx.phone years
R2027  e97hax.phone since age
R2028  e97hbx.phone since year
R2032  e98x.iadls medication diff
R2034  e98gx.med help when
R2035  e98hx.med years
R2036  e98hax.med since age
R2037  e98hbx.med since year

Wave 6 Exit:
SA028  r in nursing home
SG043  iadl meal preparation help
SG046  iadl groc shop help
SG049  iadl making phone calls help
SG053  iadl taking medications help
SG153  help hot meals- months
SG154  help hot meals- years
SG155  help hot meals- since age
SG156  help hot meals- since year
SG157  help groc shopping- months
SG158  help groc shopping- years
SG159  help groc shopping- since age
SG160  help groc shopping- since year
SG161  help w/ phone calls- mem prob
SG162  help phone calls- months
SG163  help phone calls- years
SG164  help phone calls- since age
SG165  help phone calls- since year
SG166  help w/ medication- months
SG167  help w/ medication- years
SG168  help w/ medication- since age
SG169  help w/ medication- since year
SG171  help hot meals- mem prob
SG173  grocery shopping- mem prob
SG174  help w/ medication- mem prob

Wave 7 Exit:
TA167  r in nursing home
TG043  iadl meal preparation help
TG046  iadl groc shop help
TG049  iadl making phone calls help
TG053  iadl taking medications help
TG153  help hot meals- months
TG154  help hot meals- years
TG155  help hot meals- since age
TG156  help hot meals- since year
TG157  help groc shopping- months
TG158  help groc shopping- years
TG159  help groc shopping- since age
TG160  help groc shopping- since year
TG161  help w/ phone calls- mem prob
TG162  help phone calls- months
TG163  help phone calls- years
TG164  help phone calls- since age
TG165  help phone calls- since year
TG166  help w/ medication- months
TG167  help w/ medication- years
TG168  help w/ medication- since age
TG169  help w/ medication- since year
TG171  help hot meals- mem prob
TG173  grocery shopping- mem prob
TG174  help w/ medication- mem prob
Wave 8 Exit:
UA167    r in nursing home
UG043    iadl meal preparation help
UG046    iadl groc shop help
UG049    iadl making phone calls help
UG053    iadl taking medications help
UG153    help hot meals- months
UG154    help hot meals- years
UG155    help hot meals- since age
UG156    help hot meals- since year
UG157    help groc shopping- months
UG158    help groc shopping- years
UG159    help groc shopping- since age
UG160    help groc shopping- since year
UG161    help w/ phone calls- mem prob
UG162    help phone calls- months
UG163    help phone calls- years
UG164    help phone calls- since age
UG165    help phone calls- since year
UG166    help w/ medication- months
UG167    help w/ medication- years
UG168    help w/ medication- since age
UG169    help w/ medication- since year
UG171    help hot meals- mem prob
UG173    grocery shopping- mem prob
UG174    help w/ medication- mem prob

Wave 9 Exit:
VA167    r in nursing home
VG043    iadl meal preparation help
VG046    iadl groc shop help
VG049    iadl making phone calls help
VG053    iadl taking medications help
VG153    help hot meals- months
VG154    help hot meals- years
VG155    help hot meals- since age
VG156    help hot meals- since year
VG157    help groc shopping- months
VG158    help groc shopping- years
VG159    help groc shopping- since age
VG160    help groc shopping- since year
VG161    help w/ phone calls- mem prob
VG162    help phone calls- months
VG163    help phone calls- years
VG164    help phone calls- since age
VG165    help phone calls- since year
VG166    help w/ medication- months
VG167    help w/ medication- years
VG168    help w/ medication- since age
VG169    help w/ medication- since year
VG171    help hot meals- mem prob
VG173    grocery shopping- mem prob
VG174    help w/ medication- mem prob

Wave 10 Exit:
WA028    r in nursing home
WG043    iadl meal preparation help
WG046    iadl groc shop help
WG049    iadl making phone calls help
WG053    iadl taking medications help
WG153    help hot meals- months
WG154    help hot meals- years
WG155    help hot meals- since age
WG156    help hot meals- since year
WG157    help groc shopping- months
WG158 help groc shopping- years
WG159 help groc shopping- since age
WG160 help groc shopping- since year
WG161 help w/ phone calls- mem prob
WG162 help phone calls- months
WG163 help phone calls- years
WG164 help phone calls- since age
WG165 help phone calls- since year
WG166 help w/ medication- months
WG167 help w/ medication- since age
WG168 help w/ medication- since year
WG169 help w/ medication- since age
WG171 help hot meals- mem prob
WG173 grocery shopping- mem prob
WG174 help w/ medication- mem prob

Wave 11 Exit:
XA028 r in nursing home
XG043 iadl meal preparation help
XG046 iadl groc shop help
XG049 iadl making phone calls help
XG053 iadl taking medications help
XG153 help hot meals- months
XG154 help hot meals- years
XG155 help hot meals- since age
XG156 help hot meals- since year
XG157 help groc shopping- months
XG158 help groc shopping- years
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XG161 help w/ phone calls- mem prob
XG162 help phone calls- months
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XG164 help phone calls- since age
XG165 help phone calls- since year
XG166 help w/ medication- months
XG167 help w/ medication- years
XG168 help w/ medication- since age
XG169 help w/ medication- since year
XG171 help hot meals- mem prob
XG173 grocery shopping- mem prob
XG174 help w/ medication- mem prob

Wave 12 Exit:
YA028 r in nursing home
YG043 iadl meal preparation help
YG046 iadl groc shop help
YG049 iadl making phone calls help
YG053 iadl taking medications help
YG153 help hot meals- months
YG154 help hot meals- years
YG155 help hot meals- since age
YG156 help hot meals- since year
YG157 help groc shopping- months
YG158 help groc shopping- years
YG159 help groc shopping- since age
YG160 help groc shopping- since year
YG161 help w/ phone calls- mem prob
YG162 help phone calls- months
YG163 help phone calls- years
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<tr>
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<td>help hot meals- mem prob</td>
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<td>YG173</td>
<td>grocery shopping- mem prob</td>
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### Instrumental Activities of Daily Living: Help Received Started to be Needed within Final Year

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<tr>
<td>OA RAXSHOPB1Y</td>
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<td>OA RAXPHONEB1Y</td>
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<tr>
<td>OA RAXMEDB1Y</td>
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<td>Categ</td>
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**Descriptive Statistics**

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**Categorical Variable Codes**

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### How Constructed:

RAXMEALB1Y, RAXSHOPB1Y, RAXPHONEB1Y, and RAXMEDB1Y indicate whether the help the deceased respondent received in the last three months of life with the specific instrumental activity of daily living because of a physical, mental, emotional or memory problem, started to be needed within the last year of life. RAXMEALB1Y indicates whether the help the respondent received with preparing hot meals in the last three months of life started to be needed within the last year of life. RAXSHOPB1Y indicates whether the help the respondent received with shopping for groceries in the last three months of life started to be needed within the last year of life. RAXPHONEB1Y indicates whether the help the respondent received with using the telephone in the last three months of life started to be needed within the last year of life. RAXMEDB1Y indicates whether the help the respondent received with taking medication in the last three months of life started to be needed within the last year of life. The proxy is asked when the respondent began needing help with the activity, and the proxy can report the number of months or years that the respondent needed help with the activity, since what age the respondent needed help, or since what year the respondent needed help. If the proxy reports the age the respondent began needing help, then that value is subtracted from the respondent's age at death to determine how long the respondent needed help. If the proxy reports the year the respondent began needing help, then this value is subtracted from the respondent's death year (KNOWndeceasedyr from the HRS Tracker File) to determine how long the respondent needed help. RAXMEALB1Y, RAXSHOPB1Y, RAXPHONEB1Y, and RAXMEDB1Y are assigned a value of 0 if the proxy reported that the respondent received help in the last three months of life and the need for this help started more than 12 months or more than 1 year before death, or if the proxy reported an age or year when the respondent began needing help and this value was greater than a year before death. These variables are assigned a value of 1 if the proxy reported that the respondent received help in the last three months of life and the need for this help started 12 or fewer months or 0 or 1 years before death, or if the proxy reported an age or year when the respondent began needing help and this value was a year or less before death.

If the reported or calculated time is greater than the age at death or takes on a negative value, then these variables are coded with special missing .i. RAXMEALB1Y, RAXSHOPB1Y, RAXPHONEB1Y, and RAXMEDB1Y are coded as special missing .h if nobody helped the respondent with the specific activity in the last three months of life. In AHEAD wave 2 RAXMEALB1Y is coded as special missing .o if the age was reported as other. In wave 4, RAXMEALB1Y is coded as special missing .i if the answer was coded as "time not given in months". In AHEAD wave 2 and HRS wave 3, these variables are coded as special missing .b if the proxy is not asked these questions because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, RAXMEALB1Y and

**Table: Assistance and Caregiving**

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**Value----------------------| RAXMEALB1Y**

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| d:dk         | 174 |
| h:no help received | 3983 |
| i:invalid response | 4  |
| l:not due to health/memory | 105 |
| m:missing    | 19  |
| n:in nursing home | 4136 |
| q:not asked this wave | 174 |
| r:refuse     | 7   |
| 0.no         | 985 |
| 1.yes        | 3102 |

**Value----------------------| RAXIADLB1Y**

| b:bed-ridden | 359 |
| d:dk         | 142 |
| h:no help received | 1972 |
| i:invalid response | 4  |
| l:not due to health/memory | 810 |
| m:missing    | 17  |
| n:in nursing home | 1962 |
| q:not asked this wave | 174 |
| r:refuse     | 12  |
| 0.no         | 1641|
| 1.yes        | 5859|

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**Section L: Assistance and Caregiving**

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RAXSHOPB1Y are coded as special missing .b if the proxy is not asked whether someone helped the respondent with meals or shopping for groceries because the respondent spent more than 85 days in the last three months in bed. Starting in wave 4, if the respondent needed help with an activity, but it was not the result of a health or memory problem, then the proxy is not asked how long the respondent had needed help with the activity, and the variable is assigned special missing .l. Also starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about the age the respondent began needing help with meals, shopping, or medication and RAXMEALB1Y, RAXSHOPB1Y, and RAXMEDB1Y are assigned special missing .n. In waves 4 and 5, RAXSHOPB1Y is assigned special missing .c if the proxy was not asked whether someone helped the respondent with shopping for groceries because the respondent received help with preparing hot meals but this help was reportedly not the result of a health or memory problem. RAXMEALB1Y, RAXSHOPB1Y, RAXPHONEB1Y, and RAXMEDB1Y are not available in HRS wave 2 and so are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAXIADLBH1Y indicates whether the help the deceased respondent received with any instrumental activity of daily living because of a physical, mental, emotional or memory problem in the last three months of life started to be needed within the last year of life. The instrumental activities of daily living include preparing hot meals, shopping for groceries, using the phone, and taking medications. RAXIADLBH1Y is coded as 0 if the respondent received help for at least one IADL activity in the last three months of life but the respondent began needing help more than 1 year before death. RAXIADLBH1Y is coded as 1 if somebody helped the respondent with at least one instrumental activity of daily living in the last three months of life and the respondent began needing help with at least one activity in the last year of life. RAXIADLBH1Y is coded as 0 or 1 as long as at least one of the comprising measures is not missing. If the reported or calculated time is greater than the age at death or takes on a negative value, then this variable is coded with special missing .i. RAXIADLBH1Y is coded as special missing .h if nobody helped the respondent with any IADL activity in the last three months of life. In waves 4 and 5, if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and the variables are assigned special missing .b. Starting in wave 4, if the respondent needed help with an activity, but it was not the result of a health or memory problem, then the proxy is not asked how long the respondent had needed help with the activity, and RAXIADLBH1Y is assigned special missing .l. Also starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about the age the respondent began needing help with meals, shopping, or medication and RAXIADLBH1Y is assigned special missing .n. These questions are not asked in HRS wave 2, and so these variables are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medication, but are asked beginning in AHEAD wave 2 and HRS wave 3. The proxy is not specifically asked whether the respondent began needing help with the IADL activity in the last year before death, rather this is calculated based on the proxy's responses to when the respondent began needing help with IADL activities.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medications if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with meals or shopping for groceries if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. Starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked whether someone helped the respondent or what age the respondent began needing help with meals, shopping, or medication. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with shopping
for groceries if the respondent received help preparing hot meals but this help was reportedly not the result of a health or memory problem.

In AHEAD wave 2, the proxy can respond that the age the respondent began needing help with preparing hot meals is "other". In wave 4, it was possible for the time to not be given in months for the age the respondent began needing help with preparing hot meals.

**HRS Variables Used:**

**RAND HRS:**
- **RABMONTH** rabmonth: r birth month
- **RABYEAR** rabyear: r birth year

**Tracker:**
- **KNOWNDECEASEDMO** known deceased - month
- **KNOWNDECEASEDHY** known deceased - year

**Wave 2A Exit:**
- N1819 e31x.does in bed
- N2011 e95x.iadl meals help
- N2014 e95gx.meal help when
- N2015 e95hx.meal years
- N2016 e95hx.meal since age
- N2017 e95hx.meal since year
- N2019 e96x.iadl groc help
- N2022 e96gx.shop help when
- N2023 e96hx.shop years
- N2024 e96hx.shop since age
- N2025 e96hx.shop since year
- N2027 e97x.iadl phone help
- N2030 e97gx.phone help when
- N2031 e97hx.phone years
- N2032 e97hx.phone since age
- N2033 e97hx.phone since year
- N2035 e98x.iadl med help
- N2038 e98gx.medication help when
- N2039 e98hx.medication years
- N2040 e98hx.medication since age
- N2041 e98hx.medication since year

**Wave 3 Exit:**
- P1400 e31x.days in bed
- P1549 e95x.iadl meals help
- P1552 e95gx.meal help when
- P1553 e95hx.meal years
- P1554 e95hx.meal since age
- P1555 e95hx.meal since year
- P1557 e96x.iadl groc help
- P1560 e96gx.shop help when
- P1561 e96hx.shop years
- P1562 e96hx.shop since age
- P1563 e96hx.shop since year
- P1565 e97x.iadl phone help
- P1568 e97gx.phone help when
- P1569 e97hx.phone years
- P1570 e97hx.phone since age
- P1571 e97hx.phone since year
- P1573 e98x.iadl med help
- P1576 e98gx.medication help when
- P1577 e98hx.medication years
- P1578 e98hx.medication since age
- P1579 e98hx.medication since year

**Wave 4 Exit:**
- Q1842 e32.(old e31) days in bed
- Q2010 e95x.iadl meals diff
- Q2012 e95bx.meals -why dont
Q2013  e95gx.meals help when
Q2014  e95hx.meals years
Q2015  e95hx.meals since age
Q2016  e95hx.meals since year
Q2020  e96x.iadl groc diff
Q2023  e96gx.groc help when
Q2024  e96hx.groc years
Q2025  e96hx.groc since age
Q2026  e96hx.groc since year
Q2030  e97x.iadls phone diff
Q2033  e97gx.phone help when
Q2034  e97hx.phone years
Q2035  e97hx.phone since age
Q2036  e97hx.phone since year
Q2040  e98x.iadls medication diff
Q2043  e98hx.med help when
Q2044  e98hx.med years
Q2045  e98hx.med since age

Wave 5 Exit:
R1862  e32.(old e31) days in bed
R2002  e95x.iadl meals diff
R2004  e95bx.meals -why dont
R2005  e95gx.meals help when
R2006  e95hx.meals years
R2007  e95hax.meals since age
R2008  e95hbx.meals since year
R2012  e96x.iadl groc diff
R2015  e96gx.groc help when
R2016  e96hx.groc years
R2017  e96hax.groc since age
R2018  e96hbx.groc since year
R2022  e97x.iadls phone diff
R2025  e97gx.phone help when
R2026  e97hx.phone years
R2027  e97hax.phone since age
R2028  e97hbx.phone since year
R2032  e98x.iadls medication diff
R2034  e98gx.med help when
R2035  e98hx.med years
R2036  e98hax.med since age
R2037  e98hbx.med since year

Wave 6 Exit:
SA028  r in nursing home
SG043  iadl meal preparation help
SG046  iadl groc shop help
SG049  iadl making phone calls help
SG053  iadl taking medications help
SG153  help hot meals- months
SG154  help hot meals- years
SG155  help hot meals- since age
SG156  help hot meals- since year
SG157  help groc shopping- months
SG158  help groc shopping- years
SG159  help groc shopping- since age
SG160  help groc shopping- since year
SG161  help w/ phone calls- mem prob
SG162  help phone calls- months
SG163  help phone calls- years
SG164  help phone calls- since age
SG165  help phone calls- since year
SG166  help w/ medication- months
SG167  help w/ medication- years
SG168 help w/ medication- since age
SG169 help w/ medication- since year
SG171 help hot meals- mem prob
SG173 grocery shopping- mem prob
SG174 help w/ medication- mem prob

Wave 7 Exit:
TA167 r in nursing home
TG043 iadl meal preparation help
TG046 iadl groc shop help
TG049 iadl making phone calls help
TG053 iadl taking medications help
TG153 help hot meals- months
TG154 help hot meals- years
TG155 help hot meals- since age
TG156 help hot meals- since year
TG157 help groc shopping- months
TG158 help groc shopping- years
TG159 help groc shopping- since age
TG160 help groc shopping- since year
TG161 help w/ phone calls- mem prob
TG162 help phone calls- months
TG163 help phone calls- years
TG164 help phone calls- since age
TG165 help phone calls- since year
TG166 help w/ medication- months
TG167 help w/ medication- years
TG168 help w/ medication- since age
TG169 help w/ medication- since year
TG171 help hot meals- mem prob
TG173 grocery shopping- mem prob
TG174 help w/ medication- mem prob

Wave 8 Exit:
UA167 r in nursing home
UG043 iadl meal preparation help
UG046 iadl groc shop help
UG049 iadl making phone calls help
UG053 iadl taking medications help
UG153 help hot meals- months
UG154 help hot meals- years
UG155 help hot meals- since age
UG156 help hot meals- since year
UG157 help groc shopping- months
UG158 help groc shopping- years
UG159 help groc shopping- since age
UG160 help groc shopping- since year
UG161 help w/ phone calls- mem prob
UG162 help phone calls- months
UG163 help phone calls- years
UG164 help phone calls- since age
UG165 help phone calls- since year
UG166 help w/ medication- months
UG167 help w/ medication- years
UG168 help w/ medication- since age
UG169 help w/ medication- since year
UG171 help hot meals- mem prob
UG173 grocery shopping- mem prob
UG174 help w/ medication- mem prob

Wave 9 Exit:
VA167 r in nursing home
VG043 iadl meal preparation help
VG046 iadl groc shop help
VG049 iadl making phone calls help
VG053 iadl taking medications help
VG153          help hot meals- months
VG154          help hot meals- years
VG155          help hot meals- since age
VG156          help hot meals- since year
VG157          help groc shopping- months
VG158          help groc shopping- years
VG159          help groc shopping- since age
VG160          help groc shopping- since year
VG161          help w/ phone calls- mem prob
VG162          help phone calls- months
VG163          help phone calls- years
VG164          help phone calls- since age
VG165          help phone calls- since year
VG166          help w/ medication- months
VG167          help w/ medication- years
VG168          help w/ medication- since age
VG169          help w/ medication- since year
VG171          help hot meals- mem prob
VG173          grocery shopping- mem prob
VG174          help w/ medication- mem prob

Wave 10 Exit:
WA028          r in nursing home
WG043          iadl meal preparation help
WG046          iadl groc shop help
WG049          iadl making phone calls help
WG053          iadl taking medications help
WG153          help hot meals- months
WG154          help hot meals- years
WG155          help hot meals- since age
WG156          help hot meals- since year
WG157          help groc shopping- months
WG158          help groc shopping- years
WG159          help groc shopping- since age
WG160          help groc shopping- since year
WG161          help w/ phone calls- mem prob
WG162          help phone calls- months
WG163          help phone calls- years
WG164          help phone calls- since age
WG165          help phone calls- since year
WG166          help w/ medication- months
WG167          help w/ medication- years
WG168          help w/ medication- since age
WG169          help w/ medication- since year
WG171          help hot meals- mem prob
WG173          grocery shopping- mem prob
WG174          help w/ medication- mem prob

Wave 11 Exit:
XA028          r in nursing home
XG043          iadl meal preparation help
XG046          iadl groc shop help
XG049          iadl making phone calls help
XG053          iadl taking medications help
XG153          help hot meals- months
XG154          help hot meals- years
XG155          help hot meals- since age
XG156          help hot meals- since year
XG157          help groc shopping- months
XG158          help groc shopping- years
XG159          help groc shopping- since age
XG160          help groc shopping- since year
XG161          help w/ phone calls- mem prob
XG162          help phone calls- months
XG163          help phone calls- years
Section L: Assistance and Caregiving

XG164 help phone calls- since age
XG165 help phone calls- since year
XG166 help w/ medication- months
XG167 help w/ medication- years
XG168 help w/ medication- since age
XG169 help w/ medication- since year
XG171 help hot meals- mem prob
XG173 grocery shopping- mem prob
XG174 help w/ medication- mem prob

Wave 12 Exit:
YA028 r in nursing home
YG043 iadl meal preparation help
YG046 iadl groc shop help
YG049 iadl making phone calls help
YG053 iadl taking medications help
YG153 help hot meals- months
YG154 help hot meals- years
YG155 help hot meals- since age
YG156 help hot meals- since year
YG157 help groc shopping- months
YG158 help groc shopping- years
YG159 help groc shopping- since age
YG160 help groc shopping- since year
YG161 help w/ phone calls- mem prob
YG162 help phone calls- months
YG163 help phone calls- years
YG164 help phone calls- since age
YG165 help phone calls- since year
YG166 help w/ medication- months
YG167 help w/ medication- years
YG168 help w/ medication- since age
YG169 help w/ medication- since year
YG171 help hot meals- mem prob
YG173 grocery shopping- mem prob
YG174 help w/ medication- mem prob
## Instrumental Activities of Daily Living: Who Helped with IADLs

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<td>OA RAXIHRL</td>
<td>raxihrl: relative helped r with iadls final 3 months</td>
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<td>OA RAXIHOT</td>
<td>raxihot: other individual helped r with iadls final 3 months</td>
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<td>OA RAXIHPRO</td>
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### Descriptive Statistics

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### Categorical Variable Codes

- **RAXIHSP**
  - b: bed-ridden | 267
  - d: dk | 118
  - h: no help received | 4078
  - j: did not do | 188
  - m: missing | 81
  - q: not asked this wave | 174
  - r: refuse | 25
  - t: cannot do | 109
  - 0. no | 5251
  - 1. yes | 2661

- **RAXIHKID**
  - b: bed-ridden | 267
  - d: dk | 118
  - h: no help received | 4078
  - j: did not do | 188
  - m: missing | 81
  - q: not asked this wave | 174
  - r: refuse | 25
  - t: cannot do | 109
  - 0. no | 4071
  - 1. yes | 3841

- **RAXIHRL**
  - b: bed-ridden | 267
  - d: dk | 118
  - h: no help received | 4078
  - j: did not do | 188
  - m: missing | 81
  - q: not asked this wave | 174
  - r: refuse | 25
  - t: cannot do | 109
  - 0. no | 7216
  - 1. yes | 696
### How Constructed:

RAXIHPSP, RAXIHKID, RAXIHR, RAXIHO, and RAXIHPRO indicate whether a specific person helped the deceased respondent with any instrumental activity of daily living, as reported by the proxy. The proxy is first asked whether anyone helped the respondent with each IADL activity, and if the proxy reports that someone helped the respondent with the instrumental activity of daily living, then the proxy is asked for the relationship of the people who helped the respondent with each activity in AHEAD wave 2 and HRS wave 3, or with any IADL activity starting in wave 4. The proxy is able to report the relationships of multiple people who helped the respondent. RAXIHPSP indicates whether the respondent's spouse or partner helped the respondent with IADLs. RAXIHKID indicates whether the respondent's child, son, stepson, son-in-law, daughter, stepdaughter, daughter-in-law, grandchild, an unlisted child or child-in-law, former step-child, former child-in-law, grandchild-in-law, unknown child/ambiguous child relationship, or ambiguous child-in-law relationship helped the respondent with IADLs. RAXIHR indicates whether the respondent's father, mother, mother-in-law, sister, sister-in-law, or other relative helped the respondent with IADLs. RAXIHO indicates whether another individual, late spouse/partner, ex-spouse/partner, not proxy interview, organization, or person of unknown relationship helped the respondent with IADLs. RAXIHPRO indicates whether an employee of institution, paid helper, professional, or specified professional helped the respondent with IADLs. RAXIHPSP, RAXIHKID, RAXIHR, RAXIHO, and RAXIHPRO are coded as 0 if no one with the specified relationship helped the respondent with IADLs. RAXIHPSP, RAXIHKID, RAXIHR, RAXIHO, and RAXIHPRO are coded as 1 if somebody with the specified relationship helped the respondent with IADLs. RAXIHPSP, RAXIHKID, RAXIHR, RAXIHO, and RAXIHPRO are coded as special missing .h if nobody helped the respondent with the specific activity in the last three months of life. In AHEAD wave 2 and HRS wave 3, RAXIHPSP, RAXIHKID, RAXIHR, RAXIHO, and RAXIHPRO are coded as special missing .b if the proxy was not asked these questions because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, if the proxy responds that the respondent could not do or did not do the instrumental activity of daily living, then the proxy is not asked who helped the respondent and these variables are assigned special missing .t and .j, respectively. These variables are not available in HRS wave 2 and are assigned special missing .q in this wave. Don't know, refused, and other missing responses are assigned special missing .d, .r, .m, respectively.

In AHEAD wave 2 and HRS waves 3 through 5, the Preload HH Member Child (PR_MC) file is used to supplement the information obtained in the main exit interview file and assign relationships to the respondent's helpers. In HRS wave 3, the Helper file is also used to assign relationships to the respondent's helpers.

### Cross Wave Differences in HRS

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<thead>
<tr>
<th>Value</th>
<th>RAXIHPSP</th>
<th>RAXIHKID</th>
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<td>r:refuse</td>
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<tr>
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**In AHEAD wave 2 and HRS waves 3 through 5, the Preload HH Member Child (PR_MC) file is used to supplement the information obtained in the main exit interview file and assign relationships to the respondent's helpers. In HRS wave 3, the Helper file is also used to assign relationships to the respondent's helpers.**
Questions regarding who helped the respondent with any IADL activity are not asked in HRS wave 2, but are asked beginning in AHEAD wave 2 and HRS wave 3.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked who helped with IADL activities if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, if the proxy responds that the respondent could not do or did not do the instrumental activity of daily living, then the proxy is not asked who helped the respondent.

In AHEAD wave 2 and HRS wave 3, the proxy is asked who helped the respondent after each IADL that the proxy reported the respondent having help with. Starting in wave 4, the proxy is asked who helped the respondent with any IADL that the proxy reported the respondent having difficulty with once all the IADL activities have been inquired about.

In AHEAD wave 2 and HRS waves 3 through 5, the Preload HH Member Child (PR_MC) file is used to supplement the information obtained in the main exit interview file and assign relationships to the respondent's helpers. In HRS wave 3, the Helper file is also used to assign relationships to the respondent's helpers. In waves 6 and onward, the information to assign relationships to the respondent's helpers is only taken from the main exit interview file.

The categories for helper relationships are different across waves. In AHEAD wave 2 and HRS waves 3 through 5, the categories are more general, and across the files used to obtain relationships to the respondent in these waves, categories include the respondent's spouse, child, step/partner child, child-in-law, unlisted child or child-in-law, grandchild, employee of institution, other relative, other individual, organization, professional, and other. Only in HRS wave 3, deceased child and all children are also categories used to assign relationships of the respondent's helper. Starting in wave 6, the relationship list is much more specific, specifying sons, daughters, additional relative relationships, and paid helpers. Wave 6 includes categories for "not proxy interview" and "relationship unknown", which are not included in the following waves. The wave 6 category of "unknown child" is changed to "ambiguous child relationship" in the following waves. Starting in wave 7, the additional category of "ambiguous child-in-law relationship" is included.

**HRS Variables Used:**

**Wave 2A Exit:**
- N1819: e31x.days in bed
- N2011: e95x.iadl meals help
- N2019: e96x.iadl groc help
- N2027: e97x.iadl phone help
- N2035: e98x.iadl med help
- N2043: e99.iadls-who help,1
- N2044: e99a.type iadl helper-1
- N2050: e100.iadls-who help,2
- N2051: e100a.type iadl helper-2
- N2055: e101.iadls-who help,3
- N2056: e101a.type iadl helper-3
- N2061: e102.iadls-who help,4
- N2062: e102a.type iadl helper-4
- N2067: e103.iadls-who help,5
- N2068: e103a.type iadl helper-5
- N2073: e104.iadls-who help,6
- N2074: e104a.type iadl helper-6

**Wave 2A Exit PRMC:**
- N10: FAMILY/HH MEM REL TO IDFM
- OPN: FAMILY/HH MEMBER PERSON NUMBER

**Wave 3 Exit:**
- P1400: e31x.days in bed
- P1549: e95x.iadl meals help
- P1557: e96x.iadl groc help
- P1565: e97x.iadl phone help
- P1573: e98x.iadl med help
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<td>e100.iadls-who help,2</td>
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**Wave 3 Exit PRMC:**
- OPN HH1 FAM LINE NO
- P10 HH1 REL TO PREV WAVE FAMILY R

**Wave 3 Exit Helper:**
- OPN Other Person Number
- P1673A HELPER RELATIONSHIP - COMBINED

**Wave 4 Exit:**
- Q1842 e32.(old e31) days in bed
- Q2010 e95x.iadl meals diff
- Q2020 e96x.iadl groc diff
- Q2030 e97x.iadls phone diff
- Q2040 e98x.iadls medication diff
- Q2049 e99.iadls-who help,1
- Q2050 e99a.type iadl helper-1
- Q2058 e100.iadls-who help,2
- Q2059 e100a.type iadl helper-2
- Q2063 e101.iadls-who help,3
- Q2064 e101a.type iadl helper-3
- Q2069 e102.iadls-who help,4
- Q2070 e102a.type iadl helper-4
- Q2075 e103.iadls-who help,5
- Q2076 e103a.type iadl helper-5
- Q2081 e104.iadls-who help,6
- Q2082 e104a.type iadl helper-6

**Wave 4 Exit PRMC:**
- OPN OTHER PERSON NUMBER
- Q11 REL TO IDFM

**Wave 5 Exit:**
- R1862 e32.(old e31) days in bed
- R2002 e95x.iadl meals diff
- R2012 e96x.iadl groc diff
- R2022 e97x.iadls phone diff
- R2032 e98x.iadls medication diff
- R2041 e99.iadls-who help-1
- R2042 e99a.type iadl helper-1
- R2050 e100.iadls-who help-2
- R2051 e100a.type iadl helper-2
- R2055 e101.iadls-who help-3
- R2056 e101a.type iadl helper-3
- R2061 e102.iadls-who help-4
- R2062 e102a.type iadl helper-4
- R2066 e103.iadls-who help-5
- R2068 e103a.type iadl helper-5
- R2073 e104.iadls-who help-6
- R2074 e104a.type iadl helper-6

**Wave 5 Exit PRMC:**
- OPN OTHER PERSON NUMBER
- R11 PR11. REL TO IDFM

**Wave 6 Exit:**
- SA028 r in nursing home
- SG043 iadl meal preparation help
Section L: Assistance and Caregiving

SG046  iadl groc shop help
SG049  iadl making phone calls help
SG053  iadl taking medications help
SG054  iadis- who helps most-1
SG055  iadl helper relationship to r- 1
SG056  iadl helper relationship to r- 2
SG057  iadl helper relationship to r- 3
SG058  iadl helper relationship to r- 4
SG059  iadl helper relationship to r- 5
SG060  iadl helper relationship to r- 6

Wave 7 Exit:
TA167  r in nursing home
TG043  iadl meal preparation help
TG046  iadl groc shop help
TG049  iadl making phone calls help
TG053  iadl taking medications help
TG054  iadis- who helps most-1
TG055  iadl helper relationship to r-1
TG056  iadl helper relationship to r-2
TG057  iadl helper relationship to r-3
TG058  iadl helper relationship to r-4
TG059  iadl helper relationship to r-5
TG060  iadl helper relationship to r-6

Wave 8 Exit:
UA167  r in nursing home
UG043  iadl meal preparation help
UG046  iadl groc shop help
UG049  iadl making phone calls help
UG053  iadl taking medications help
UG054  iadis- who helps most-1
UG055  iadl helper relationship to r-1
UG056  iadl helper relationship to r-2
UG057  iadl helper relationship to r-3
UG058  iadl helper relationship to r-4
UG059  iadl helper relationship to r-5
UG060  iadl helper relationship to r-6

Wave 9 Exit:
VA167  r in nursing home
VG043  iadl meal preparation help
VG046  iadl groc shop help
VG049  iadl making phone calls help
VG053  iadl taking medications help
VG054  iadis- who helps most-1
VG055  iadl helper relationship to r-1
VG056  iadl helper relationship to r-2
VG057  iadl helper relationship to r-3
VG058  iadl helper relationship to r-4
VG059  iadl helper relationship to r-5
VG060  iadl helper relationship to r-6

Wave 10 Exit:
WA028  r in nursing home
WG043  iadl meal preparation help
WG046  iadl groc shop help
WG049  iadl making phone calls help
WG053  iadl taking medications help
WG054  iadis- who helps most-1
WG055  iadl helper relationship to r-1
WG056  iadl helper relationship to r-2
WG057  iadl helper relationship to r-3
WG058  iadl helper relationship to r-4
WG059  iadl helper relationship to r-5
WG060  iadl helper relationship to r-6

Wave 11 Exit:
XA028  r in nursing home
XG043  iadl meal preparation help
XG046  iadl groc shop help
XG049  iadl making phone calls help
XG053  iadl taking medications help
XG054_1 iadls- who helps most-1
XG055_1 iadl helper relationship to r-1
XG055_2 iadl helper relationship to r-2
XG055_3 iadl helper relationship to r-3
XG055_4 iadl helper relationship to r-4
XG055_5 iadl helper relationship to r-5
XG055_6 iadl helper relationship to r-6

Wave 12 Exit:
YA028  r in nursing home
YG043  iadl meal preparation help
YG046  iadl groc shop help
YG049  iadl making phone calls help
YG053  iadl taking medications help
YG054_1 iadls- who helps most-1
YG055_1 iadl helper relationship to r-1
YG055_2 iadl helper relationship to r-2
YG055_3 iadl helper relationship to r-3
YG055_4 iadl helper relationship to r-4
YG055_5 iadl helper relationship to r-5
YG055_6 iadl helper relationship to r-6
ADLs or IADLs: Whether Anyone Helped with ADLs or IADLs

Wave Variable | Label | Type
--- | --- | ---
DA RAXDLH | raxdlh: someone helped r with adls/iadls final 3 months | Categ

Descriptive Statistics

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Categorical Variable Codes

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<td>.d:dk</td>
<td>23</td>
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<tr>
<td>.j:did not do</td>
<td>343</td>
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<td>.m:missing</td>
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<tr>
<td>.q:not asked this wave</td>
<td>174</td>
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<tr>
<td>.r:refuse</td>
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<tr>
<td>.t:cannot do</td>
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<tr>
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<td>8696</td>
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</table>

How Constructed:

RAXDLH indicates whether anyone helped the deceased respondent with any ADLs or IADLs in the last three months of life because of a physical, mental, emotional or memory problem, as reported by the proxy. 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 hot meals, shopping for groceries, using the telephone, and taking medication. RAXDLH summarizes the information for the receipt of help in "Activities of Daily Living: Whether Anyone Helped with ADLs" and "Instrumental Activities of Daily Living: Whether Anyone Helped with IADLs". Please see these sections for additional information on how the variables were created. RAXDLH is coded as 0 if nobody helped the respondent with any ADLs or IADLs. RAXDLH is coded as 1 if somebody helped the respondent with at least one ADL or IADL. RAXDLH is assigned a 0 or 1 as long as at least one of the comprising ADL or IADL measures is not missing. In AHEAD wave 2 and HRS wave 3 RAXDLH is coded as special missing .b if the proxy is not asked these questions because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. The questions comprising this variable are not asked in HRS wave 2 and so RAXDLH is assigned special missing .q in this wave. Don't know, refused, did not do, could not do, or other missing responses are assigned special missing .d, .r, .j, .t, .m, respectively.

Cross Wave Differences in HRS

Questions about whether the respondent was helped with an ADL or IADL are not asked in HRS wave 2, but are asked starting in AHEAD wave 2 and HRS wave 3.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked whether the respondent received help with IADLs if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. Starting in wave 4, the proxy is asked whether the respondent received help with IADLs regardless of the number of days the respondent spent in bed. Starting in AHEAD wave 2 and HRS wave 3 the proxy is not asked whether the respondent received help with ADLs if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury.

In wave 3, the proxy is not asked whether someone helped the respondent with meals, shopping for groceries, using the phone, or taking medications if the respondent spent more than 85
days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with meals or shopping for groceries if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. In waves 4 and 5, the proxy is not asked whether someone helped the respondent with shopping for groceries if the respondent received help with preparing hot meals but this help was reportedly not because of a health or memory problem. Starting in wave 6, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about meals, shopping, or medication.

**HRS Variables Used:**

**Wave 2A Exit:**

- N1819  e31x.days in bed
- N1877  e72fx.adl walk help
- N1887  e73fx.adl dress help
- N1897  e74fx.adl bathe help
- N1907  e75fx.adl eat help
- N1920  e76fx.adl bed help
- N1930  e77fx.adl toilet help
- N2011  e95x.iadl meals help
- N2019  e96x.iadl groc help
- N2027  e97x.iadl phone help
- N2035  e98x.iadl med help

**Wave 3 Exit:**

- P1400  e31x.days in bed
- P1415  e72fx.adl walk help
- P1425  e73fx.adl dress help
- P1435  e74fx.adl bathe help
- P1445  e75fx.adl eat help
- P1458  e76fx.adl bed help
- P1468  e77fx.adl toilet help
- P1549  e95x.iadl meals help
- P1557  e96x.iadl groc help
- P1565  e97x.iadl phone help
- P1573  e98x.iadl med help

**Wave 4 Exit:**

- Q1842  e32.(old e31) days in bed
- Q1852  e73fx.dress diff
- Q1859  e72x.walk diff
- Q1881  e74x.bathing diff
- Q1896  e75x.eat diff
- Q1911  e76x.bed diff
- Q1929  e77x.toilet diff
- Q2010  e95x.iadl meals diff
- Q2012  e95bx.meals -why dont
- Q2020  e96x.iadl groc diff
- Q2030  e97x.iadls phone diff
- Q2040  e98x.iadls medication diff

**Wave 5 Exit:**

- R1862  e32.(old e31) days in bed
- R1872  e73fx.dress diff
- R1879  e72x.walk diff
- R1894  e74x.bathing diff
- R1909  e75x.eat diff
- R1924  e76x.bed diff
- R1942  e77x.toilet diff
- R2002  e95x.iadl meals diff
- R2004  e95bx.meals -why dont
- R2012  e96x.iadl groc diff
- R2022  e97x.iadls phone diff
- R2032  e98x.iadls medication diff

**Wave 6 Exit:**
SA028          r in nursing home
SG015          help w/dress
SG020          adl walk help
SG022          adl bathe help
SG024          adl eat help
SG029          adl bed help
SG031          adl toilet help
SG043          iadl meal preparation help
SG046          iadl groc shop help
SG049          iadl making phone calls help
SG053          iadl taking medications help
SG129          number days in bed

Wave 7 Exit:
TA167          r in nursing home
TG015          help w/dress
TG020          adl walk help
TG022          adl bathe help
TG024          adl eat help
TG029          adl bed help
TG031          adl toilet help
TG043          iadl meal preparation help
TG046          iadl groc shop help
TG049          iadl making phone calls help
TG053          iadl taking medications help
TG129          number days in bed

Wave 8 Exit:
UA167          r in nursing home
UG015          help w/dress
UG020          adl walk help
UG022          adl bathe help
UG024          adl eat help
UG029          adl bed help
UG031          adl toilet help
UG043          iadl meal preparation help
UG046          iadl groc shop help
UG049          iadl making phone calls help
UG053          iadl taking medications help
UG129          number days in bed

Wave 9 Exit:
VA167          r in nursing home
VG015          help w/dress
VG020          adl walk help
VG022          adl bathe help
VG024          adl eat help
VG029          adl bed help
VG031          adl toilet help
VG043          iadl meal preparation help
VG046          iadl groc shop help
VG049          iadl making phone calls help
VG053          iadl taking medications help
VG129          number days in bed

Wave 10 Exit:
WA028          r in nursing home
WG015          help w/dress
WG020          adl walk help
WG022          adl bathe help
WG024          adl eat help
WG029          adl bed help
WG031          adl toilet help
WG043          iadl meal preparation help
WG046          iadl groc shop help
WG049          iadl making phone calls help
WG053          iadl taking medications help
WG129 number days in bed

Wave 11 Exit:
XA028 r in nursing home
XG015 help w/dress
XG020 adl walk help
XG022 adl bathe help
XG024 adl eat help
XG029 adl bed help
XG031 adl toilet help
XG043 iadl meal preparation help
XG046 iadl groc shop help
XG049 iadl making phone calls help
XG053 iadl taking medications help
XG129 number days in bed

Wave 12 Exit:
YA028 r in nursing home
YG015 help w/dress
YG020 adl walk help
YG022 adl bathe help
YG024 adl eat help
YG029 adl bed help
YG031 adl toilet help
YG043 iadl meal preparation help
YG046 iadl groc shop help
YG049 iadl making phone calls help
YG053 iadl taking medications help
YG129 number days in bed
Section L: Assistance and Caregiving

ADLs or IADLs: Help Received Started to be Needed within Final Year

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
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<tbody>
<tr>
<td>RAXDLBH1Y</td>
<td>raxdlbh1y: r final help with any adl/iadl started within yea</td>
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Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
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<tr>
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<td>0.00</td>
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</table>

Categorical Variable Codes

Value----------------------| RAXDLBH1Y
.|b:bed-ridden            | 413
.|d:dk                    | 122
.|h:no help received      | 1724
.|j:did not do            | 1
.|l:not due to health/memory| 525
.|m:missing               | 10
.|n:nin nursing home      | 291
.|q:not asked this wave   | 174
.|r:refuse                | 11
.|t:cannot do             | 1
.|x:bed-ridden in nursing home| 694
.0:no                    | 1300
.1:yes                   | 7686

How Constructed:

RAXDLBH1Y indicates whether the help the deceased respondent received with any ADLs or IADLs because of a physical, mental, emotional or memory problem in the last three months of life started to be needed within the last year of life. 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 hot meals, shopping for groceries, using the telephone, and taking medication. RAXDLBH1Y summarizes the information for when the deceased respondent began needing help in "Activities of Daily Living: Whether Help Received in Last Three Months Started to be Needed within Final Year" and "Instrumental Activities of Daily Living: Whether Help Received in Last Three Months Started to be Needed within Final Year". Please see these sections for additional information on how the variables were created. RAXDLBH1Y is coded as 0 if the respondent received help for at least one ADL or IADL activity in the last three months of life but the respondent began needing help more than 1 year before death. RAXDLBH1Y is coded as 1 if somebody helped the respondent with at least one ADL or IADL in the last three months of life and the respondent began needing help with at least one activity in the last year of life. RAXDLBH1Y is coded as 0 or 1 as long as at least one of the comprising measures is not missing. RAXDLBH1Y is coded as special missing .h if nobody helped the respondent with any ADL or IADL activity in the last three months of life. If the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury, then the proxy is not asked these questions and RAXDLBH1Y is assigned special missing .b. Starting in wave 4, if the respondent lived in a nursing home or other health facility at the time of death, then the proxy is not asked about the age the respondent began needing help with most IADL activities and RAXDLBH1Y is assigned special missing .n. Also starting in wave 4, if the respondent lived in a nursing home and the respondent was bedridden, then RAXDLBH1Y is assigned special missing .x. Starting in wave 4, if the respondent needed help with an IADL, but it was not the result of a health or memory problem, then the proxy is not asked how long the respondent had needed help with the activity, and RAXDLBH1Y is assigned special missing .l. The questions comprising this variable are not asked in HRS wave 2 and so RAXDLBH1Y is assigned special missing .q in this wave. Don't know, refused, did not do, could not do, or other missing responses are assigned special missing .d, .r, .j, .t, .m, respectively.
Cross Wave Differences in HRS

Questions about whether the respondent was helped with an ADL or IADL are not asked in HRS wave 2, but are asked starting in AHEAD wave 2 and HRS wave 3. The proxy is not specifically asked whether the respondent began needing help with the ADL or IADL activity in the last year before death, rather this is calculated based on the proxy’s responses to when the respondent began needing help with ADL or IADL activities.

Please see the following sections for additional information on cross wave differences for ADL and IADL activities: “Activities of Daily Living: Whether Help Received in Last Three Months Started to be Needed within Final Year” and “Instrumental Activities of Daily Living: Whether Help Received in Last Three Months Started to be Needed within Final Year”.

HRS Variables Used:

**RAND HRS:**
- RABMONTH: rabmonth: r birth month
- RABYEAR: rabyear: r birth year

**Tracker:**
- KNOWNDECEASEDMO: known deceased - month
- KNOWNDECEASEDHYR: known deceased - year

**Wave 2A Exit:**
- N1819: e31x.days in bed
- N1877: e72fx.adl walk help
- N1878: e72gx.walk help when
- N1879: e72hx.walk years
- N1880: e72hx.walk since age
- N1881: e72hx.walk since year
- N1887: e73fx.adl dress help
- N1888: e73gx.dress help when
- N1889: e72hx.dress years
- N1890: e72hx.dress since age
- N1891: e72hx.dress since year
- N1897: e74fx.adl bathe help
- N1898: e74gx.walk help when
- N1899: e74hx.bathe years
- N1900: e74hx.bathe since age
- N1901: e74hx.bathe since year
- N1907: e75fx.adl eat help
- N1908: e75gx.eat help when
- N1909: e75hx.eat years
- N1910: e75hx.eat since age
- N1911: e75hx.eat since year
- N1920: e76fx.adl bed help
- N1921: e76gx.bed help when
- N1922: e76hx.bed years
- N1923: e76hx.bed since age
- N1924: e76hx.bed since year
- N1930: e77fx.adl toilet help
- N1931: e77gx.toilet help when
- N1932: e77hx.toilet years
- N1933: e77hx.toilet since age
- N1934: e77hx.toilet since year
- N2011: e95x.iadl meals help
- N2014: e95gx.meal help when
- N2015: e95hx.meal years
- N2016: e95hx.meal since age
- N2017: e95hx.meal since year
- N2019: e96x.iadl groc help
- N2022: e96gx.shop help when
- N2023: e96hx.shop years
- N2024: e96hx.shop since age
N2025  e96hx.shop since year
N2027  e97x.iadl phone help
N2030  e97gx.phone help when
N2031  e97hx.phone years
N2032  e97hx.phone since age
N2033  e97hx.phone since year
N2035  e98x.iadl med help
N2038  e98gx.medication help when
N2039  e98hx.medication years
N2040  e98hx.medication since age
N2041  e98hx.medication since year

Wave 3 Exit:
P1400  e31x.days in bed
P1415  e72fx.adl walk help
P1416  e72gx.walk help when
P1417  e72hx.walk years
P1418  e72hx.walk since age
P1419  e72hx.walk since year
P1425  e73fx.adl dress help
P1426  e73gx.dress help when
P1427  e72hx.dress years
P1428  e72hx.dress since age
P1429  e72hx.dress since year
P1435  e74fx.adl bathe help
P1436  e74gx.how long help bath
P1437  e74hx.bathe years
P1438  e74hx.bathe since age
P1439  e74hx.bathe since year
P1445  e75fx.adl eat help
P1446  e75gx.eat help when
P1447  e75hx.eat years
P1448  e75hx.eat since age
P1449  e75hx.eat since year
P1458  e76fx.adl bed help
P1459  e76gx.bed help when
P1460  e76hx.bed years
P1461  e76hx.bed since age
P1462  e76hx.bed since year
P1468  e77fx.adl toilet help
P1469  e77gx.toilet help when
P1470  e77hx.toilet years
P1471  e77hx.toilet since age
P1472  e77hx.toilet since year
P1549  e95x.iadl meals help
P1552  e95gx.meal help when
P1553  e95hx.meal years
P1554  e95hx.meal since age
P1555  e95hx.meal since year
P1557  e96x.iadl groc help
P1560  e96gx.shop help when
P1561  e96hx.shop years
P1562  e96hx.shop since age
P1563  e96hx.shop since year
P1565  e97x.iadl phone help
P1568  e97gx.phone help when
P1569  e97hx.phone years
P1570  e97hx.phone since age
P1571  e97hx.phone since year
P1573  e98x.iadl med help
P1576  e98gx.medication help when
P1577  e98hx.medication years
P1578  e98hx.medication since age
P1579  e98hx.medication since year
Wave 4 Exit:
  Q1842  e32.(old e31) days in bed
  Q1852  e73fx.dress diff
  Q1853  e73gx.dress help when
  Q1854  e73gx.dress years
  Q1855  e73gx.dress since age
  Q1856  e73gx.dress since year
  Q1859  e72x.walk diff
  Q1863  e72fx.walking help when
  Q1864  e72fx.walking years
  Q1865  e72fx.walking since age
  Q1866  e72fx.walking since year
  Q1881  e74x.bathing diff
  Q1882  e74fx.bathing help when
  Q1883  e74fx.bathing years
  Q1884  e74fx.bathing since age
  Q1885  e74fx.bathing since year
  Q1896  e75x.eat diff
  Q1897  e75fx.eat help when
  Q1898  e75fx.eat years
  Q1899  e75fx.eat since age
  Q1900  e75fx.eat since year
  Q1911  e76x.bed diff
  Q1917  e76fx.bed help when
  Q1918  e76fx.bed years
  Q1919  e76fx.bed since age
  Q1920  e76fx.bed since year
  Q1929  e77x.toilet diff
  Q1930  e77fx.toilet help when
  Q1931  e77fx.toilet years
  Q1932  e77fx.toilet since age
  Q1933  e77fx.toilet since year
  Q2010  e95x.iadl meals diff
  Q2012  e95bx.meals -why dont
  Q2013  e95gx.meals help when
  Q2014  e95hx.meals years
  Q2015  e95hx.meals since age
  Q2016  e95hx.meals since year
  Q2020  e96x.iadl groc diff
  Q2023  e96gx.groc help when
  Q2024  e96hx.groc years
  Q2025  e96hx.groc since age
  Q2026  e96hx.groc since year
  Q2030  e97x.iadls phone diff
  Q2033  e97gx.phone help when
  Q2034  e97hx.phone years
  Q2035  e97hx.phone since age
  Q2036  e97hx.phone since year
  Q2040  e98x.iadls medication diff
  Q2042  e98gx.med help when
  Q2043  e98hx.med years
  Q2044  e98hx.med since age
  Q2045  e98hx.med since year

Wave 5 Exit:
  R1862  e32.(old e31) days in bed
  R1872  e73fx.dress diff
  R1873  e73gx.dress help when
  R1874  e73gax.dress years
  R1875  e73gbx.dress since age
  R1876  e73gcx.dress since year
  R1879  e72x.walk diff
  R1883  e72fx.walking help when
  R1884  e72fax.walking years
Wave 6 Exit:

SA028  r in nursing home
SG015  help w/dress
SG020  adl walk help
SG022  adl bathe help
SG024  adl eat help
SG029  adl bed help
SG031  adl toilet help
SG043  iadl meal preparation help
SG046  iadl groc shop help
SG049  iadl making phone calls help
SG053  iadl taking medications help
SG129  number days in bed
SG130  help dressing- months
SG131  help dressing- years
SG132  help dressing- since age
SG133  help dressing- since year
SG134  help walking- months
SG135  help walking- years
SG136  help walking- since age
SG137  help walking- since year
SG138  help bathing- months
SG139  help bathing- years
SG140  help bathing- since age
SG141  help bathing- since year
SG142  help eating- months
SG143  help eating- years
SG144  help eating- since age
SG145  help in/out bed- months
SG146  help in/out bed- years
SG147  help in/out bed- since age
SG148  help in/out bed- since year
SG149  help using toilet- months
SG150  help using toilet- years
SG151  help using toilet- since age
SG152  help using toilet- since year
SG153  help hot meals- months
SG154  help hot meals- years
SG155  help hot meals- since age
SG156  help hot meals- since year
SG157  help groc shopping- months
SG158  help groc shopping- years
SG159  help groc shopping- since age
SG160  help groc shopping- since year
SG161  help w/ phone calls- mem prob
SG162  help phone calls- months
SG163  help phone calls- years
SG164  help phone calls- since age
SG165  help phone calls- since year
SG166  help w/ medication- months
SG167  help w/ medication- years
SG168  help w/ medication- since age
SG169  help w/ medication- since year
SG170  help eating- since year
SG171  help hot meals- mem prob
SG173  grocery shopping- mem prob
SG174  help w/ medication- mem prob

Wave 7 Exit:
TA167  r in nursing home
TG015  help w/dress
TG020  adl walk help
TG022  adl bathe help
TG024  adl eat help
TG029  adl bed help
TG031  adl toilet help
TG043  iadl meal preparation help
TG046  iadl groc shop help
TG049  iadl making phone calls help
TG053  iadl taking medications help
TG129  number days in bed
TG130  help dressing- months
TG131  help dressing- years
TG132  help dressing- since age
TG133  help dressing- since year
TG134  help walking- months
TG135  help walking- years
TG136  help walking- since age
TG137  help walking- since year
TG138  help bathing- months
TG139  help bathing- years
TG140  help bathing- since age
TG141  help bathing- since year
TG142  help eating- months
TG143 help eating- years
TG144 help eating- since age
TG145 help in/out bed- months
TG146 help in/out bed- years
TG147 help in/out bed- since age
TG148 help in/out bed- since year
TG149 help using toilet- months
TG150 help using toilet- years
TG151 help using toilet- since age
TG152 help using toilet- since year
TG153 help hot meals- months
TG154 help hot meals- years
TG155 help hot meals- since age
TG156 help hot meals- since year
TG157 help groc shopping- months
TG158 help groc shopping- years
TG159 help groc shopping- since age
TG160 help groc shopping- since year
TG161 help w/ phone calls- mem prob
TG162 help phone calls- months
TG163 help phone calls- years
TG164 help phone calls- since age
TG165 help phone calls- since year
TG166 help w/ medication- months
TG167 help w/ medication- years
TG168 help w/ medication- since age
TG169 help w/ medication- since year
TG170 help eating- since year
TG171 help hot meals- mem prob
TG173 grocery shopping- mem prob
TG174 help w/ medication- mem prob

Wave 8 Exit:
UA167 r in nursing home
UG015 help w/dress
UG020 adl walk help
UG022 adl bathe help
UG024 adl eat help
UG029 adl bed help
UG031 adl toilet help
UG043 iadl meal preparation help
UG046 iadl groc shop help
UG049 iadl making phone calls help
UG053 iadl taking medications help
UG129 number days in bed
UG130 help dressing- months
UG131 help dressing- years
UG132 help dressing- since age
UG133 help dressing- since year
UG134 help walking- months
UG135 help walking- years
UG136 help walking- since age
UG137 help walking- since year
UG138 help bathing- months
UG139 help bathing- years
UG140 help bathing- since age
UG141 help bathing- since year
UG142 help eating- months
UG143 help eating- years
UG144 help eating- since age
UG145 help in/out bed- months
UG146 help in/out bed- years
UG147 help in/out bed- since age
UG148 help in/out bed- since year
UG149  help using toilet- months
UG150  help using toilet- years
UG151  help using toilet- since age
UG152  help using toilet- since year
UG153  help hot meals- months
UG154  help hot meals- years
UG155  help hot meals- since age
UG156  help hot meals- since year
UG157  help groc shopping- months
UG158  help groc shopping- years
UG159  help groc shopping- since age
UG160  help groc shopping- since year
UG161  help w/ phone calls- mem prob
UG162  help phone calls- months
UG163  help phone calls- years
UG164  help phone calls- since age
UG165  help phone calls- since year
UG166  help w/ medication- months
UG167  help w/ medication- years
UG168  help w/ medication- since age
UG169  help w/ medication- since year
UG170  help eating- since year
UG171  help hot meals- mem prob
UG172  grocery shopping- mem prob
UG173  help eating- since year
UG174  help w/ medication- mem prob

Wave 9 Exit:
VA167  r in nursing home
VG015  help w/dress
VG020  adl walk help
VG022  adl bathe help
VG024  adl eat help
VG029  adl bed help
VG031  adl toilet help
VG043  iadl meal preparation help
VG046  iadl groc shop help
VG049  iadl making phone calls help
VG053  iadl taking medications help
VG129  number days in bed
VG130  help dressing- months
VG131  help dressing- years
VG132  help dressing- since age
VG133  help dressing- since year
VG134  help walking- months
VG135  help walking- years
VG136  help walking- since age
VG137  help walking- since year
VG138  help bathing- months
VG139  help bathing- years
VG140  help bathing- since age
VG141  help bathing- since year
VG142  help eating- months
VG143  help eating- years
VG144  help eating- since age
VG145  help in/out bed- months
VG146  help in/out bed- years
VG147  help in/out bed- since age
VG148  help in/out bed- since year
VG149  help using toilet- months
VG150  help using toilet- years
VG151  help using toilet- since age
VG152  help using toilet- since year
VG153  help hot meals- months
VG154  help hot meals- years
Section L: Assistance and Caregiving

VG155 help hot meals - since age
VG156 help hot meals - since year
VG157 help groc shopping - months
VG158 help groc shopping - years
VG159 help groc shopping - since age
VG160 help groc shopping - since year
VG161 help w/ phone calls - mem prob
VG162 help phone calls - months
VG163 help phone calls - years
VG164 help phone calls - since age
VG165 help phone calls - since year
VG166 help w/ medication - months
VG167 help w/ medication - years
VG168 help w/ medication - since age
VG169 help w/ medication - since year
VG170 help eating - since year
VG171 help hot meals - mem prob
VG173 grocery shopping - mem prob
VG174 help w/ medication - mem prob

Wave 10 Exit:
WA028 r in nursing home
WG015 help w/dress
WG020 adl walk help
WG022 adl bathe help
WG024 adl eat help
WG029 adl bed help
WG031 adl toilet help
WG043 iadl meal preparation help
WG046 iadl groc shop help
WG049 iadl making phone calls help
WG053 iadl taking medications help
WG129 number days in bed
WG130 help dressing - months
WG131 help dressing - years
WG132 help dressing - since age
WG133 help dressing - since year
WG134 help walking - months
WG135 help walking - years
WG136 help walking - since age
WG137 help walking - since year
WG138 help bathing - months
WG139 help bathing - years
WG140 help bathing - since age
WG141 help bathing - since year
WG142 help eating - months
WG143 help eating - years
WG144 help eating - since age
WG145 help in/out bed - months
WG146 help in/out bed - years
WG147 help in/out bed - since age
WG148 help in/out bed - since year
WG149 help using toilet - months
WG150 help using toilet - years
WG151 help using toilet - since age
WG152 help using toilet - since year
WG153 help hot meals - months
WG154 help hot meals - years
WG155 help hot meals - since age
WG156 help hot meals - since year
WG157 help groc shopping - months
WG158 help groc shopping - years
WG159 help groc shopping - since age
WG160 help groc shopping - since year
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WG161 help w/ phone calls- mem prob
WG162 help phone calls- months
WG163 help phone calls- years
WG164 help phone calls- since age
WG165 help phone calls- since year
WG166 help w/ medication- months
WG167 help w/ medication- years
WG168 help w/ medication- since age
WG169 help w/ medication- since year
WG170 help eating- since year
WG171 help hot meals- mem prob
WG173 grocery shopping- mem prob
WG174 help w/ medication- mem prob

Wave 11 Exit:
XA028 r in nursing home
XG015 help w/dress
XG020 adl walk help
XG022 adl bathe help
XG024 adl eat help
XG029 adl bed help
XG031 adl toilet help
XG043 iadl meal preparation help
XG046 iadl groc shop help
XG049 iadl making phone calls help
XG053 iadl taking medications help
XG129 number days in bed
XG130 help dressing- months
XG131 help dressing- years
XG132 help dressing- since age
XG133 help dressing- since year
XG134 help walking- months
XG135 help walking- years
XG136 help walking- since age
XG137 help walking- since year
XG138 help bathing- months
XG139 help bathing- years
XG140 help bathing- since age
XG141 help bathing- since year
XG142 help eating- months
XG143 help eating- years
XG144 help eating- since age
XG145 help in/out bed- months
XG146 help in/out bed- years
XG147 help in/out bed- since age
XG148 help in/out bed- since year
XG149 help using toilet- months
XG150 help using toilet- years
XG151 help using toilet- since age
XG152 help using toilet- since year
XG153 help hot meals- months
XG154 help hot meals- years
XG155 help hot meals- since age
XG156 help hot meals- since year
XG157 help groc shopping- months
XG158 help groc shopping- years
XG159 help groc shopping- since age
XG160 help groc shopping- since year
XG161 help w/ phone calls- mem prob
XG162 help phone calls- months
XG163 help phone calls- years
XG164 help phone calls- since age
XG165 help phone calls- since year
XG166 help w/ medication- months
XG167          help w/ medication- years
XG168          help w/ medication- since age
XG169          help w/ medication- since year
XG170          help eating- since year
XG171          help hot meals- mem prob
XG173          grocery shopping- mem prob
XG174          help w/ medication- mem prob

Wave 12 Exit:
YA028          r in nursing home
YG015          help w/dress
YG020          adl walk help
YG022          adl bathe help
YG024          adl eat help
YG029          adl bed help
YG031          adl toilet help
YG043          iadl meal preparation help
YG046          iadl groc shop help
YG049          iadl making phone calls help
YG053          iadl taking medications help
YG129          number days in bed
YG130          help dressing- months
YG131          help dressing- years
YG132          help dressing- since age
YG133          help dressing- since year
YG134          help walking- months
YG135          help walking- years
YG136          help walking- since age
YG137          help walking- since year
YG138          help bathing- months
YG139          help bathing- years
YG140          help bathing- since age
YG141          help bathing- since year
YG142          help eating- months
YG143          help eating- years
YG144          help eating- since age
YG145          help in/out bed- months
YG146          help in/out bed- years
YG147          help in/out bed- since age
YG148          help in/out bed- since year
YG149          help using toilet- months
YG150          help using toilet- years
YG151          help using toilet- since age
YG152          help using toilet- since year
YG153          help hot meals- months
YG154          help hot meals- years
YG155          help hot meals- since age
YG156          help hot meals- since year
YG157          help groc shopping- months
YG158          help groc shopping- years
YG159          help groc shopping- since age
YG160          help groc shopping- since year
YG161          help w/ phone calls- mem prob
YG162          help phone calls- months
YG163          help phone calls- years
YG164          help phone calls- since age
YG165          help phone calls- since year
YG166          help w/ medication- months
YG167          help w/ medication- years
YG168          help w/ medication- since age
YG169          help w/ medication- since year
YG170          help eating- since year
YG171          help hot meals- mem prob
YG173          grocery shopping- mem prob
YG174 help w/ medication- mem prob
### ADLs or IADLs: Who Helped with ADLs or IADLs

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAXHLPSP</td>
<td>raxhlpsp: spouse helped r with adls/iadls final 3 months</td>
<td>Categ</td>
</tr>
<tr>
<td>RAXHLPKID</td>
<td>raxhlpkid: child/grandchild helped r with adls/iadls final 3</td>
<td>Categ</td>
</tr>
<tr>
<td>RAXHLPRL</td>
<td>raxhlprl: relative helped r with adls/iadls final 3 months</td>
<td>Categ</td>
</tr>
<tr>
<td>RAXHLPOT</td>
<td>raxhlpot: other individual helped r with adls/iadls final 3</td>
<td>Categ</td>
</tr>
<tr>
<td>RAXHLPPRO</td>
<td>raxhlppro: professional helped r with adls/iadls final 3 mon</td>
<td>Categ</td>
</tr>
</tbody>
</table>

#### Descriptive Statistics

<table>
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<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
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#### Categorical Variable Codes

<table>
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<tr>
<th>Value</th>
<th>RAXHLPSP</th>
<th>RAXHLPKID</th>
<th>RAXHLPRL</th>
<th>RAXHLPOT</th>
<th>RAXHLPPRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>.b:bed-ridden</td>
<td>267</td>
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<td>267</td>
<td>267</td>
<td>267</td>
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<tr>
<td>.d:dk</td>
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<tr>
<td>.h:no help received</td>
<td>2200</td>
<td>2200</td>
<td>2200</td>
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<tr>
<td>.m:missing</td>
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<td>26</td>
<td>26</td>
<td>26</td>
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<tr>
<td>.q:not asked this wave</td>
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<td>5156</td>
<td>9172</td>
<td>7224</td>
<td>3058</td>
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<td>5126</td>
<td>1110</td>
<td>174</td>
<td>3058</td>
</tr>
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</table>
Value---------------------- | RAXHLPPRO
.b:bed-ridden            | 267
.d:dk                    | 3
.h:no help received      | 2200
.m:missing                | 26
.q:not asked this wave  | 174
.0.no                    | 6361
.1.yes                   | 3921

How Constructed:

RAXHLPPSP, RAXHLPKID, RAXHLPLRL, RAXHLPOT, and RAXHLPPRO indicate whether a specific person helped the deceased respondent with any ADLs or IADLs, as reported by the proxy. If the proxy reports that someone helped the respondent with any ADLs or with any IADLs, then the proxy is asked for the relationship of the people who helped the respondent. These variables summarize the information for the relationship of the respondent's helpers in "Activities of Daily Living: Who Helped with ADLs" and "Instrumental Activities of Daily Living: Who Helped with IADLs". Please see these sections for additional information on how the variables were created. RAXHLPPSP indicates whether the respondent's spouse or partner helped the respondent with ADLs or IADLs. RAXHLPKID indicates whether the respondent's child, son, stepson, son-in-law, daughter, stepdaughter, daughter-in-law, grandchild, an unlisted child or child-in-law, former step-child, former child-in-law, grandchild-in-law, unknown child/ambiguous child relationship, or ambiguous child-in-law relationship helped the respondent with ADLs or IADLs. RAXHLPLRL indicates whether the respondent's father, father-in-law, mother, mother-in-law, parents, brother, brother-in-law, sister, sister-in-law, or other relative helped the respondent with ADLs or IADLs. RAXHLPOT indicates whether another individual, late spouse/partner, ex-spouse/partner, not proxy interview, organization, or person of unknown relationship helped the respondent with ADLs or IADLs. RAXHLPPRO indicates whether an employee of institution, paid helper, professional, or specified professional helped the respondent with ADLs or IADLs. RAXHLPPSP, RAXHLPKID, RAXHLPLRL, RAXHLPOT, and RAXHLPPRO are coded as 0 if no one with the specified relationship helped the respondent with ADLs or IADLs. RAXHLPPSP, RAXHLPKID, RAXHLPLRL, RAXHLPOT, and RAXHLPPRO are coded as 1 if somebody with the specified relationship helped the respondent with ADLs or IADLs. RAXHLPPSP, RAXHLPKID, RAXHLPLRL, RAXHLPOT, and RAXHLPPRO are coded as special missing .h if nobody helped the respondent with any ADL or IADL activity in the last three months of life. In AHEAD wave 2 and HRS wave 3, these variables are coded as special missing .b if the proxy is not asked these questions because the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury. The questions comprising this variable are not asked in HRS wave 2 and so these variables are assigned special missing .q in this wave. Don't know, refused, and other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

Questions regarding who helped the respondent with any ADL or IADL activities are not asked in HRS wave 2, but are asked beginning in AHEAD wave 2 and HRS wave 3.

In AHEAD wave 2 and HRS wave 3, the proxy is not asked who helped the respondent with ADLs or IADLs if the respondent spent more than 85 days in the last three months in bed more than half the day because of illness or injury.

In AHEAD wave 2 and HRS wave 3, the proxy is asked who helped the respondent after each ADL and IADL that the proxy reported the respondent having help with. Starting in wave 4, the proxy is asked who helped the respondent with any ADL that the proxy reported the respondent having difficulty with once all the ADL activities had been inquired about, and is asked who helped the respondent with any IADL that the proxy reported the respondent having difficulty with once all the IADL activities had been inquired about.

In AHEAD wave 2 and HRS waves 3 through 5, the Preload HH Member Child (PR_MC) file is used to supplement the information obtained in the main exit interview file and assign relationships to the respondent's helpers. In HRS wave 3, the Helper file is also used to assign relationships to the respondent's helpers. In waves 6 and onward, the information to assign relationships to the respondent's helpers is only taken from the main exit interview file.
The categories for helper relationships are different across waves. In AHEAD wave 2 and HRS waves 3 through 5, the categories are more general, and across the files used to obtain relationships to the respondent in these waves, categories include the respondent's spouse, child, step/partner child, child-in-law, unlisted child or child-in-law, grandchild, employee of institution, other relative, other individual, organization, professional, and other. Only in HRS wave 3, deceased child and all children are also categories used to assign values to RAXAHKID. Starting in wave 6, the relationship list is much more specific, specifying sons, daughters, additional relative relationships, and paid helpers. Wave 6 includes categories for "not proxy interview" and "relationship unknown", which are not included in the following waves. The wave 6 category of "unknown child" is changed to "ambiguous child relationship" in the following waves. Starting in wave 7, the additional category of "ambiguous child-in-law relationship" is included.

**HRS Variables Used:**

**Wave 2A Exit:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>N1819</td>
<td>e31x.days in bed</td>
</tr>
<tr>
<td>N1877</td>
<td>e72fx.adl walk help</td>
</tr>
<tr>
<td>N1887</td>
<td>e73fx.adl dress help</td>
</tr>
<tr>
<td>N1897</td>
<td>e74fx.adl bathe help</td>
</tr>
<tr>
<td>N1907</td>
<td>e75fx.adl eat help</td>
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<tr>
<td>N1920</td>
<td>e76fx.adl bed help</td>
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<tr>
<td>N1930</td>
<td>e77fx.adl toilet help</td>
</tr>
<tr>
<td>N1961</td>
<td>e83.who help-11</td>
</tr>
<tr>
<td>N1967</td>
<td>e83a.type helper-1</td>
</tr>
<tr>
<td>N1975</td>
<td>e84.who help-2</td>
</tr>
<tr>
<td>N1976</td>
<td>e84a.type helper-2</td>
</tr>
<tr>
<td>N1984</td>
<td>e85.who help-3</td>
</tr>
<tr>
<td>N1985</td>
<td>e85a.type helper-3</td>
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<tr>
<td>N1988</td>
<td>e86.who help-4</td>
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<td>N1989</td>
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<tr>
<td>N1992</td>
<td>e87.who help-5</td>
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<td>N1993</td>
<td>e87a.type helper-5</td>
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<td>N1996</td>
<td>e88.who help-6</td>
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<tr>
<td>N1997</td>
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<td>N2043</td>
<td>e99.iadls-who help,1</td>
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<td>N2044</td>
<td>e99a.type iadl helper-1</td>
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<td>N2050</td>
<td>e100.iadls-who help,2</td>
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<td>N2051</td>
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<td>N2055</td>
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<td>N2056</td>
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<td>N2061</td>
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<td>N2067</td>
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<tr>
<td>N2068</td>
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<tr>
<td>N2073</td>
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<tr>
<td>N2074</td>
<td>e104a.type iadl helper-6</td>
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**Wave 2A Exit PRMC:**

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<th>Code</th>
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<tr>
<td>N110</td>
<td>FAMILY/HH MEM REL TO IDFM</td>
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<tr>
<td>OPN</td>
<td>FAMILY/HH MEMBER PERSON NUMBER</td>
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</table>

**Wave 3 Exit:**

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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
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<td>e31x.days in bed</td>
</tr>
<tr>
<td>P1415</td>
<td>e72fx.adl walk help</td>
</tr>
<tr>
<td>P1425</td>
<td>e73fx.adl dress help</td>
</tr>
<tr>
<td>P1435</td>
<td>e74fx.adl bathe help</td>
</tr>
<tr>
<td>P1445</td>
<td>e75fx.adl eat help</td>
</tr>
</tbody>
</table>
Section L: Assistance and Caregiving

P1458 e76fx.adl bed help
P1468 e77fx.adl toilet help
P1499 e83.who help-11
P1505 e83a.type helper-1
P1513 e84.who help-2
P1514 e84a.type helper-2
P1522 e85.who help-3
P1523 e85a.type helper-3
P1526 e86.who help-4
P1527 e86a.type helper-4
P1530 e87.who help-5
P1531 e87a.type helper-5
P1534 e88.who help-6
P1535 e88a.type helper-6
P1538 e89.who help-7
P1539 e89a.type helper-7
P1549 e95x.iadl meals help
P1557 e96x.iadl groc help
P1565 e97x.iadl phone help
P1573 e98x.iadl med help
P1581 e99x.iadls-who help,1
P1582 e99a.type iadl helper-1
P1588 e100x.iadls-who help,2
P1589 e100a.type iadl helper-2
P1593 e101x.iadls-who help,3
P1594 e101a.type iadl helper-3
P1599 e102x.iadls-who help,4
P1600 e102a.type iadl helper-4
P1605 e103x.iadls-who help,5
P1606 e103a.type iadl helper-5
P1611 e104x.iadls-who help,6
P1612 e104a.type iadl helper-6

Wave 3 Exit PRMC:
OPN HH1 FAM LINE NO
P10 HH1 REL TO PREV WAVE FAMILY R

Wave 3 Exit Helper:
OPN Other Person Number
P1673A HELPER RELATIONSHIP - COMBINED

Wave 4 Exit:
Q1842 e32.(old e31) days in bed
Q1852 e73fx.dress diff
Q1859 e72x.walk diff
Q1881 e74x.bathing diff
Q1896 e75x.eat diff
Q1911 e76x.bed diff
Q1929 e77x.toilet diff
Q1956 e83.who help-1
Q1962 e83a.type helper-1
Q1970 e84.who help-2
Q1971 e84a.type helper-2
Q1979 e85.who help-3
Q1980 e85a.type helper-3
Q1983 e86.who help-4
Q1984 e86a.type helper-4
Q1987 e87.who help-5
Q1988 e87a.type helper-5
Q1991 e88.who help-6
Q1992 e88a.type helper-6
Q1995 e89.who help-7
Q1996 e89a.type helper-7
Q2010 e95x.iadl meals diff
Q2020 e96x.iadl groc diff
Q2030 e97x.iadl phone diff
Q2040          e98x.iadls medication diff
Q2049          e99.iadls-who help,1
Q2050          e99a.type iadl helper-1
Q2058          e100.iadls-who help,2
Q2059          e100a.type iadl helper-2
Q2063          e101.iadls-who help,3
Q2064          e101a.type iadl helper-3
Q2069          e102.iadls-who help,4
Q2070          e102a.type iadl helper-4
Q2075          e103.iadls-who help,5
Q2076          e103a.type iadl helper-5
Q2081          e104.iadls-who help,6
Q2082          e104a.type iadl helper-6
Wave 4 Exit PRMC:
OPN            OTHER PERSON NUMBER
Q11            REL TO IDFM
Wave 5 Exit:
R1862          e32.(old e31) days in bed
R1872          e73fx.dress diff
R1879          e72x.walk diff
R1894          e74x.bathing diff
R1909          e75x.eat diff
R1924          e76x.bed diff
R1942          e77x.toilet diff
R1950          e83.who help-1
R1956          e83a.type helper-1
R1964          e84.who help-2
R1965          e84a.type helper-2
R1973          e85.who help-3
R1974          e85a.type helper-3
R1977          e86.who help-4
R1978          e86a.type helper-4
R1981          e87.who help-5
R1982          e87a.type helper-5
R1985          e88.who help-6
R1986          e88a.type helper-6
R1989          e89.who help-7
R1990          e89a.type helper-7
R2002          e95x.iadl meals diff
R2012          e96x.iadl groc diff
R2022          e97x.iadls phone diff
R2032          e98x.iadls medication diff
R2041          e99.iadls-who help-1
R2042          e99a.type iadl helper-1
R2050          e100.iadls-who help-2
R2051          e100a.type iadl helper-2
R2055          e101.iadls-who help-3
R2056          e101a.type iadl helper-3
R2061          e102.iadls-who help-4
R2062          e102a.type iadl helper-4
R2067          e103.iadls-who help-5
R2068          e103a.type iadl helper-5
R2073          e104.iadls-who help-6
R2074          e104a.type iadl helper-6
Wave 5 Exit PRMC:
OPN            OTHER PERSON NUMBER
R11            PR11. REL TO IDFM
Wave 6 Exit:
SA028          r in nursing home
SG015          help w/dress
SG020          adl walk help
SG022          adl bathe help
SG024          adl eat help
Section L: Assistance and Caregiving

SG029  adl bed help
SG031  adl toilet help
SG033_1 adl helper relationship to r- 1
SG033_2 adl helper relationship to r- 2
SG033_3 adl helper relationship to r- 3
SG033_4 adl helper relationship to r- 4
SG033_5 adl helper relationship to r- 5
SG033_6 adl helper relationship to r- 6
SG033_7 adl helper relationship to r- 7
SG043  iadl meal preparation help
SG046  iadl groc shop help
SG049  iadl making phone calls help
SG053  iadl taking medications help
SG054_1 iadls- who helps most-1
SG055_1 iadl helper relationship to r- 1
SG055_2 iadl helper relationship to r- 2
SG055_3 iadl helper relationship to r- 3
SG055_4 iadl helper relationship to r- 4
SG055_5 iadl helper relationship to r- 5
SG055_6 iadl helper relationship to r- 6
SG129  number days in bed

Wave 7 Exit:
TA167  r in nursing home
TG015  help w/dress
TG020  adl walk help
TG022  adl bathe help
TG024  adl eat help
TG029  adl bed help
TG031  adl toilet help
TG033_1 adl helper relationship to r- 1
TG033_2 adl helper relationship to r- 2
TG033_3 adl helper relationship to r- 3
TG033_4 adl helper relationship to r- 4
TG033_5 adl helper relationship to r- 5
TG033_6 adl helper relationship to r- 6
TG033_7 adl helper relationship to r- 7
TG043  iadl meal preparation help
TG046  iadl groc shop help
TG049  iadl making phone calls help
TG053  iadl taking medications help
TG054_1 iadls- who helps most-1
TG055_1 iadl helper relationship to r-1
TG055_2 iadl helper relationship to r-2
TG055_3 iadl helper relationship to r-3
TG055_4 iadl helper relationship to r-4
TG055_5 iadl helper relationship to r-5
TG055_6 iadl helper relationship to r-6
TG129  number days in bed

Wave 8 Exit:
UA167  r in nursing home
UG015  help w/dress
UG020  adl walk help
UG022  adl bathe help
UG024  adl eat help
UG029  adl bed help
UG031  adl toilet help
UG033_1 adl helper relationship to r- 1
UG033_2 adl helper relationship to r- 2
UG033_3 adl helper relationship to r- 3
UG033_4 adl helper relationship to r- 4
UG033_5 adl helper relationship to r- 5
UG033_6 adl helper relationship to r- 6
UG033_7 adl helper relationship to r- 7
UG043  iadl meal preparation help
UG046  iadl groc shop help
UG049  iadl making phone calls help
UG053  iadl taking medications help
UG054_1  iadls who helps most-1
UG055_1  iadl helper relationship to r-1
UG055_2  iadl helper relationship to r-2
UG055_3  iadl helper relationship to r-3
UG055_4  iadl helper relationship to r-4
UG055_5  iadl helper relationship to r-5
UG055_6  iadl helper relationship to r-6
UG129  number days in bed

Wave 9 Exit:
VA167  r in nursing home
VG015  help w/dress
VG020  adl walk help
VG022  adl bathe help
VG024  adl eat help
VG029  adl bed help
VG031  adl toilet help
VG033_1  adl helper relationship to r- 1
VG033_2  adl helper relationship to r- 2
VG033_3  adl helper relationship to r- 3
VG033_4  adl helper relationship to r- 4
VG033_5  adl helper relationship to r- 5
VG033_6  adl helper relationship to r- 6
VG033_7  adl helper relationship to r- 7
VG043  iadl meal preparation help
VG046  iadl groc shop help
VG049  iadl making phone calls help
VG053  iadl taking medications help
VG054_1  iadls who helps most-1
VG055_1  iadl helper relationship to r-1
VG055_2  iadl helper relationship to r-2
VG055_3  iadl helper relationship to r-3
VG055_4  iadl helper relationship to r-4
VG055_5  iadl helper relationship to r-5
VG055_6  iadl helper relationship to r-6
VG129  number days in bed

Wave 10 Exit:
WA028  r in nursing home
WG015  help w/dress
WG020  adl walk help
WG022  adl bathe help
WG024  adl eat help
WG029  adl bed help
WG031  adl toilet help
WG033_1  adl helper relationship to r- 1
WG033_2  adl helper relationship to r- 2
WG033_3  adl helper relationship to r- 3
WG033_4  adl helper relationship to r- 4
WG033_5  adl helper relationship to r- 5
WG033_6  adl helper relationship to r- 6
WG033_7  adl helper relationship to r- 7
WG043  iadl meal preparation help
WG046  iadl groc shop help
WG049  iadl making phone calls help
WG053  iadl taking medications help
WG054_1  iadls who helps most-1
WG055_1  iadl helper relationship to r-1
WG055_2  iadl helper relationship to r-2
WG055_3  iadl helper relationship to r-3
WG055_4  iadl helper relationship to r-4
Wave 11 Exit:
XA028  r in nursing home
XG015  help w/dress
XG020  adl walk help
XG022  adl bathe help
XG024  adl eat help
XG029  adl bed help
XG031  adl toilet help
XG033_1  adl helper relationship to r-1
XG033_2  adl helper relationship to r-2
XG033_3  adl helper relationship to r-3
XG033_4  adl helper relationship to r-4
XG033_5  adl helper relationship to r-5
XG033_6  adl helper relationship to r-6
XG033_7  adl helper relationship to r-7
XG043  iadl meal preparation help
XG046  iadl groc shop help
XG049  iadl making phone calls help
XG053  iadl taking medications help
XG054_1  iadls- who helps most-1
XG055_1  iadl helper relationship to r-1
XG055_2  iadl helper relationship to r-2
XG055_3  iadl helper relationship to r-3
XG055_4  iadl helper relationship to r-4
XG055_5  iadl helper relationship to r-5
XG055_6  iadl helper relationship to r-6
XG129  number days in bed

Wave 12 Exit:
YA028  r in nursing home
YG015  help w/dress
YG020  adl walk help
YG022  adl bathe help
YG024  adl eat help
YG029  adl bed help
YG031  adl toilet help
YG033_1  adl helper relationship to r-1
YG033_2  adl helper relationship to r-2
YG033_3  adl helper relationship to r-3
YG033_4  adl helper relationship to r-4
YG033_5  adl helper relationship to r-5
YG033_6  adl helper relationship to r-6
YG033_7  adl helper relationship to r-7
YG043  iadl meal preparation help
YG046  iadl groc shop help
YG049  iadl making phone calls help
YG053  iadl taking medications help
YG054_1  iadls- who helps most-1
YG055_1  iadl helper relationship to r-1
YG055_2  iadl helper relationship to r-2
YG055_3  iadl helper relationship to r-3
YG055_4  iadl helper relationship to r-4
YG055_5  iadl helper relationship to r-5
YG055_6  iadl helper relationship to r-6
YG129  number days in bed
Section O: End of Life Planning
### Wills and Trusts: Whether Had Will or Trust

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
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<tbody>
<tr>
<td>0A RAWTRUST</td>
<td>rawtrust: r had a trust</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RAWITWILL</td>
<td>rawitwill: r had a witnessed will</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RAPROBATE</td>
<td>raprobate: r's will went through probate</td>
<td>Categ</td>
</tr>
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</table>

#### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<td>1.00</td>
</tr>
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</table>

#### Categorical Variable Codes

- RAWTRUST
  - .d:dk | 245
  - .m:missing | 25
  - .q:not asked this wave | 174
  - .r:refuse | 81
  - 0.no | 10711
  - 1.yes | 1716

- RAWITWILL
  - .d:dk | 220
  - .m:missing | 25
  - .q:not asked this wave | 174
  - .r:refuse | 40
  - 0.no | 5433
  - 1.yes | 7060

- RAPROBATE
  - .d:dk | 211
  - .m:missing | 297
  - .o:other | 3
  - .q:not asked this wave | 174
  - .r:refuse | 15
  - .t:disputes record | 1
  - .w:no will | 5223
  - 0.no | 3335
  - 1.yes | 3693

#### How Constructed:

Whether the respondent had a trust, had a will, and whether the will has been through probate is asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. Once the questions are answered, the proxy is not asked these questions again if any further exit interviews are conducted. As such, RAWTRUST, RAWITWILL, and RAPROBATE can contain responses from the exit interview, post exit interview, or post post exit interview.

RAWTRUST indicates whether the deceased respondent put any of his/her assets into a trust. RAWTRUST is coded as 0 if the respondent did not put any assets into a trust. RAWTRUST is coded as 1 if the respondent did put assets into a trust. This question is not asked in HRS wave 2, and so RAWTRUST is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.
RAWITWILL indicates whether the deceased respondent had a will that was written and witnessed. RAWITWILL is coded as 0 if the respondent did not have a will that was written and witnessed. RAWITWILL is coded as 1 if the respondent did have a will that was written and witnessed. This question is not asked in HRS wave 2, and so RAWITWILL is assigned special missing .q in this wave. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAPROBATE indicates whether the deceased respondent's will has been through probate. RAPROBATE is coded as 0 if the will has not been through probate, if the will does not need to go through probate, if the proxy voluntarily states that the will has not been through probate because no assets remained to go through probate, or because all assets were held in joint tenancy or in a trust. RAPROBATE is coded as 1 if the will has been through probate. RAPROBATE is assigned special missing .w if the deceased respondent did not have a will and this question was not asked. RAPROBATE is assigned special missing .t if the proxy voluntarily disputes the record. In AHEAD wave 2, RAPROBATE is assigned special missing .o if the proxy reports "other". This question is not asked in HRS wave 2, and so RAPROBATE is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not asked whether the respondent had a trust, had a witnessed will, or if the will has been through probate.

Only in AHEAD wave 2, the proxy is given the option of responding with "other" when asked if the respondent’s will has been through probate.

HRS Variables Used:

Wave 2A Exit:
- N5111 n71x.assets into trust
- N5116 n72x.will
- N5117 n72ax.will probated

Wave 3 Exit:
- P2002 n71x.assets into trust
- P2007 n72x.will
- P2008 n72ax.will probated

Wave 4 Exit:
- Q2414 n71x.assets into trust
- Q2419 n72x.will
- Q2420 n72ax.will probated

Wave 5 Exit:
- R2421 n71x.assets into trust
- R2426 n72x.will
- R2427 n72ax.will probated

Wave 6 Exit:
- ST155 r have assets in trust
- ST156 r have will
- ST157 r have will probated

Wave 7 Exit:
- TT155 r have assets in trust
- TT156 r have will
- TT157 r have will probated

Wave 8 Exit:
- UT155 r have assets in trust
- UT156 r have will
- UT157 r have will probated

Wave 9 Exit:
- VT155 r have assets in trust
- VT156 r have will
- VT157 r have will probated

Wave 10 Exit:
WT155  r have assets in trust
WT156  r have will
WT157  r have will probated

Wave 11 Exit:
XT155  r have assets in trust
XT156  r have will
XT157  r have will probated

Wave 12 Exit:
YT155  r have assets in trust
YT156  r have will
YT157  r have will probated
### Wills and Trusts: Beneficiaries

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA RAWILLSP</td>
<td>rawillsp: r's will had provisions for spouse</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RAWILLCG</td>
<td>rawillcg: r's will had provisions for child/grandchild</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RAWILLRL</td>
<td>rawillrl: r's will had provisions for relative</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RAWILLOT</td>
<td>rawillot: r's will had provisions for other</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RAWILLIN</td>
<td>rawillin: r's will had provisions for charity</td>
<td>Categ</td>
</tr>
</tbody>
</table>

### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
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<th>Maximum</th>
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<tr>
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<td>RAWILLRL</td>
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<td>RAWILLIN</td>
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<td>0.09</td>
<td>0.28</td>
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<td>1.00</td>
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### Categorical Variable Codes

#### RAWILLSP
- .d:dk | 55
- .m:missing | 25
- .n:not yet distributed | 113
- .p:will not thru probate | 9
- .q:not asked this wave | 174
- .r:refuse | 40
- .u:unmarried | 4308
- .w:no will/trust | 4252
- .x:nothing of value left | 344
- 0.no | 359
- 1.yes | 3273

#### RAWILLCG
- .d:dk | 133
- .k:no kids or grandkids | 699
- .m:missing | 35
- .n:not yet distributed | 205
- .o:other | 1
- .p:will not thru probate | 9
- .q:not asked this wave | 174
- .r:refuse | 86
- .w:no will/trust | 3721
- .x:nothing of value left | 851
- 0.no | 2893
- 1.yes | 4145

#### RAWILLRL
- .d:dk | 136
- .m:missing | 34
- .n:not yet distributed | 209
- .o:other | 1
- .p:will not thru probate | 9
- .q:not asked this wave | 174
- .r:refuse | 89
- .w:no will/trust | 3607
Section O: End of Life Planning

How Constructed:

The relationship of the people who the respondent's will or trust made provisions for is asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. Once the questions are answered, the proxy is not asked these questions again if any further exit interviews are conducted. As such, RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN can contain responses from the exit interview, post exit interview, or post post exit interview.

RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN indicate whether the deceased respondent made provisions for a person of the specified relationship in their will or trust, as reported by the proxy. The proxy is asked separately whether the respondent made provisions in the will or trust for his/her husband/wife/partner, children/grandchildren/great-grandchildren, siblings, other relatives, friends, others, and charities, so there can be multiple recipients. RAWILLSP indicates whether the respondent made provisions for their husband/wife/partner in their will or trust. RAWILLCG indicates whether the respondent made provisions for their children, grandchildren, or great-grandchildren in their will or trust. RAWILLRL indicates whether the respondent made provisions for their brothers, sisters, or other relatives in their will or trust. RAWILLLOT indicates whether the respondent made provisions for friends, or anyone or anything else in their will or trust. RAWILLIN indicates whether the respondent made provisions for charities in their will or trust. These variables are assigned a 0 if the respondent did not make provisions for a person of the specified relationship in their will or trust, and are assigned a 1 if the respondent did make provisions for a person of the specified relationship in their will or trust. RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN are assigned special missing .w if the deceased respondent did not have a will or trust and these questions were not asked. RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN are assigned special missing .n if the estate had not yet been distributed and these questions were not asked. RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN are assigned special missing .x if there was nothing much of value in the respondent's estate and these questions were not asked. RAWILLSP is assigned special missing .u if the deceased respondent had no spouse or partner at the time of death. RAWILLCG is assigned special missing .k if the deceased respondent had no children or no grandchildren at the time of death. Only in HRS wave 3, if the will has not been through probate, then the proxy is not asked these questions and RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN are assigned special missing .p. In AHEAD wave 2 and HRS wave 3, when asked whether the estate had been divided, if the proxy replies with "other", then these questions are not asked and RAWILLSP, RAWILLCG, RAWILLRL, RAWILLLOT, and RAWILLIN are assigned special missing .o. Starting in HRS wave 4, if the proxy replies with "other", then these questions are
asked. These questions are not asked in HRS wave 2, and so RA威LLSP, RA威LLCG, RA威LLRL, RA威LLOT, and RA威LLIN are assigned special missing .q in this wave. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not asked whether the respondent had a trust, had a witnessed will, or who the will or trust contained provisions for.

Only in HRS wave 3, if the will has not been through probate, then the proxy is not asked who the will or trust contained provisions for.

In AHEAD wave 2 and HRS wave 3, when asked whether the estate had been divided, if the proxy replies with "other", then the proxy is not asked who the will or trust contained provisions for. Starting in HRS wave 4, if the proxy replies with "other", then the proxy is asked who the will or trust contained provisions for.

HRS Variables Used:

Wave 2A Exit:

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>N1442</td>
<td>d4x.grandchildren</td>
</tr>
<tr>
<td>N5111</td>
<td>n71x.assets into trust</td>
</tr>
<tr>
<td>N5116</td>
<td>n72x.will</td>
</tr>
<tr>
<td>N5120</td>
<td>n73x.happened to estate</td>
</tr>
<tr>
<td>N5122</td>
<td>n74x.will spouse</td>
</tr>
<tr>
<td>N513</td>
<td>cs # children</td>
</tr>
<tr>
<td>N5131</td>
<td>n75x.will family</td>
</tr>
<tr>
<td>N5155</td>
<td>n77x.will charities</td>
</tr>
<tr>
<td>N5165</td>
<td>n78x.will siblings</td>
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<tr>
<td>N5175</td>
<td>n79x.will relatives</td>
</tr>
<tr>
<td>N5185</td>
<td>n80x.will friends</td>
</tr>
<tr>
<td>N5195</td>
<td>n81x.will others</td>
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<tr>
<td>N674</td>
<td>a21.r marital status</td>
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</table>

Wave 3 Exit:

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<tr>
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<tbody>
<tr>
<td>P1055</td>
<td>d4x.grandchildren</td>
</tr>
<tr>
<td>P2002</td>
<td>n71x.assets into trust</td>
</tr>
<tr>
<td>P2007</td>
<td>n72x.will</td>
</tr>
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<td>P2008</td>
<td>n72ax.will probated</td>
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<td>n79x.will relatives</td>
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<td>P2076</td>
<td>n80x.will friends</td>
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Wave 4 Exit:

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<tbody>
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<td>Q1542</td>
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<tr>
<td>Q2414</td>
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<tr>
<td>Q2419</td>
<td>n72x.will</td>
</tr>
<tr>
<td>Q2423</td>
<td>n73x.happened to estate</td>
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<tr>
<td>Q2425</td>
<td>n74x.will spouse</td>
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<tr>
<td>Q2434</td>
<td>n75x.will family</td>
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<td>Q2458</td>
<td>n77x.will charities</td>
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<td>Q2468</td>
<td>n78x.will siblings</td>
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<td>Q2478</td>
<td>n79x.will relatives</td>
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<td>Q2488</td>
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<td>Q548</td>
<td>cs15d.current coupleness</td>
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<td>Q819</td>
<td>cs # children</td>
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</tbody>
</table>
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Wave 5 Exit:
R1619  d4x. any grandchildren  
R2421  n71x.assets into trust  
R2426  n72x.will  
R2430  n73x.happened to estate  
R2432  n74x.will spouse  
R2441  n75x.will family  
R2465  n77x.will charities  
R2475  n78x.will siblings  
R2485  n79x.will relatives  
R2495  n80x.will friends  
R2505  n81x.will others  
R597  cs15d.current coupleness  
R893  cs49y16.cs # children

Wave 6 Exit:
SE100  grandchildren  
ST155  r have assets in trust  
ST156  r have will  
ST161  division of assets  
ST163  possessions left to p/sp  
ST164  r leave assets to children  
ST168  r leave assets to charity  
ST169  r leave assets to sibs  
ST170  r leave assets to other rel  
ST171  r leave assets to friends  
ST172  r leave assets to anyone else  
SX065_R  coupleness status r - updated

Wave 7 Exit:
TE046  # grandchildren total  
TT155  r have assets in trust  
TT156  r have will  
TT161  division of assets  
TT163  possessions left to p/sp  
TT164  r leave assets to children  
TT168  r leave assets to charity  
TT169  r leave assets to sibs  
TT170  r leave assets to other rel  
TT171  r leave assets to friends  
TT172  r leave assets to anyone else  
TX065_R  coupleness status r - updated

Wave 8 Exit:
UE046  # grandchildren total  
UT155  r have assets in trust  
UT156  r have will  
UT161  division of assets  
UT163  possessions left to p/sp  
UT164  r leave assets to children  
UT168  r leave assets to charity  
UT169  r leave assets to sibs  
UT170  r leave assets to other rel  
UT171  r leave assets to friends  
UT172  r leave assets to anyone else  
UX065_R  coupleness status r - updated  
UZ114  prev wave number of grandchildren

Wave 9 Exit:
VE046  # grandchildren total  
VT155  r have assets in trust  
VT156  r have will  
VT161  division of assets  
VT163  possessions left to p/sp  
VT164  r leave assets to children  
VT168  r leave assets to charity  
VT169  r leave assets to sibs
VT170  r leave assets to other rel
VT171  r leave assets to friends
VT172  r leave assets to anyone else
VX065_R coupleness status r - updated
VZ114  prev wave number of grandchildren
Wave 10 Exit:
WE046  # grandchildren total
WT155  r have assets in trust
WT156  r have will
WT161  division of assets
WT163  possessions left to p/sp
WT164  r leave assets to children
WT168  r leave assets to charity
WT169  r leave assets to sibs
WT170  r leave assets to other rel
WT171  r leave assets to friends
WT172  r leave assets to anyone else
WX065_R coupleness status r - updated
WZ114  prev wave number of grandchildren
Wave 11 Exit:
XE046  # grandchildren total
XT155  r have assets in trust
XT156  r have will
XT161  division of assets
XT163  possessions left to p/sp
XT164  r leave assets to children
XT168  r leave assets to charity
XT169  r leave assets to sibs
XT170  r leave assets to other rel
XT171  r leave assets to friends
XT172  r leave assets to anyone else
XX065_R coupleness status r - updated
XZ114  prev wave number of grandchildren
Wave 12 Exit:
YE046  # grandchildren total
YT155  r have assets in trust
YT156  r have will
YT161  division of assets
YT163  possessions left to p/sp
YT164  r leave assets to children
YT168  r leave assets to charity
YT169  r leave assets to sibs
YT170  r leave assets to other rel
YT171  r leave assets to friends
YT172  r leave assets to anyone else
YX065_R coupleness status r - updated
YZ114  prev wave number of grandchildren
Death Expenses

Wave Variable | Label | Type
---|---|---
0A RADEXPENSE | radexpense: r death expense: total | Cont
0A RADEXPENSEF | radexpensef: r death expense flag: total | Categ
0A RAINSCOVR | rainscovr: r death expenses covered by insurance | Categ
0A RAINSPAID | rainspaid: r death expense: insurance paid out | Cont
0A RAINSPAIDF | rainspaidf: r death expense flag: how insurance paid out | Categ

Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
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</table>

Categorical Variable Codes

Value---------------------------------| RADEXPENSEF
.n:not settled yet | 204
.q:not asked this wave | 174
1.continuous value | 9884
2.closed bracket | 2334
3.open bracket | 10
5.no bracket info | 343
7.dk whether has expense | 3

Value---------------------------------| RAINSCOVR
.d:dk | 648
.m:missing | 37
.n:no death expenses | 189
.q:not asked this wave | 174
.r:refuse | 55
0.no | 9491
1.yes | 2358

Value---------------------------------| RAINSPAIDF
.q:not asked this wave | 174
.x:no insurance payout | 10769
1.reported monetary value | 1562
2.reported percentage | 447

How Constructed:

The total expenses associated with the respondent's death, whether any of the death expenses were covered by insurance, and the value of the death expenses covered by the insurance are asked first in the exit interview, and then in the post and post post exit interviews if the answers from the previous exit interview or previous post exit interview are missing. These questions are included in the post and post post exit interviews starting in wave 5. Once the questions are answered, the proxy is not asked this question again if any further exit interviews are conducted. As such, RADEXPENSE, RAINSCOVR, and RAINSPAID can contain responses from the exit interview, post exit interview, or post post exit interview.
RADEXPENSE indicates the total expenses (in dollars) associated with the respondent's death for funeral expenses, legal fees, and so on and includes imputed values to address item-missingness. Proxies are first asked, “What were the total expenses associated with the death for things of that type?” If the proxy responds don't know or refused, then an unfolding bracket sequence is asked to obtain a minimum and maximum value for the respondent's death expenses. RADEXPENSE has reported and imputed values that have been adjusted to 2010 dollars based on the consumer price index for the year of death. RADEXPENSE is assigned special missing .n if the proxy responds that the total expenses have not been settled yet. This question is not asked in HRS wave 2, and so RADEXPENSE is assigned special missing .q in this wave.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for the respondent's death expenses, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an exact amount for the respondent's death expenses, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value. The threshold values are $1,000, $5,000, $25,000, $100,000 in all waves. This information is used in the imputation of RADEXPENSE.

RADEXPENSEF is a flag variable indicating the level of imputation used for RADEXPENSE. A code of 1 indicates the proxy reported a continuous value and no imputation was necessary. A code of 2 indicates that the value was imputed based on a closed bracket. A code of 3 indicates that the value was imputed based on an open bracket. A code of 5 indicates that the value was imputed without any bracket information. A code of 6 indicates the proxy reported that the respondent did not have any death expenses and the value is 0. A code of 7 indicates whether the proxy did not know if the respondent had any death expenses. RADEXPENSEF is assigned special missing .n if the proxy responds that the total expenses have not been settled yet. Since this question was not asked in HRS wave 2, RADEXPENSEF is assigned special missing .q in this wave.

RAINSCOVR indicates whether, excluding life insurance, any of the death expenses were covered by insurance. RAINSCOVR is coded as 0 if none of the death expenses were covered by insurance, excluding life insurance. RAINSCOVR is coded as 1 if at least some of the death expenses were covered by insurance, excluding life insurance. RAINSCOVR is assigned special missing .n if the death expenses were reported to be 0. This question is not asked in HRS wave 2 and RAINSCOVR is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAINSPAID indicates the monetary value of the death expenses (in dollars) covered by insurance as reported by the proxy. Proxies can report a monetary value or a percentage of the total death expenses. If a percentage was given, then the percentage was multiplied by the total imputed death expenses in order to obtain the monetary value covered by insurance. RAINSPAID has been adjusted to 2010 dollars based on the consumer price index for the year of death. RAINSPAID is assigned special missing .n if the death expenses were reported to be 0. This question is not asked in HRS wave 2 and RAINSPAID is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RAINSPAIDF is a flag variable indicating whether the monetary value of the death expenses covered by insurance was reported as a monetary value or as a percentage. RAINSPAIDF is coded as 1 if the proxy reported a monetary value for the insurance payout to cover death expenses. RAINSPAIDF is coded as 2 if the proxy reported a percentage for the insurance payout to cover death expenses. RAINSPAIDF is assigned special missing .x if there was no insurance payout to cover death expenses or no death expenses. Since this question was not asked in HRS wave 2, RAINSPAIDF is assigned special missing .q in this wave.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is not asked about the total expenses associated with the respondent's death for funeral expenses, legal fees, and so on, or whether, excluding life insurance, any of the death expenses were covered by insurance and the value of the expenses covered by insurance.
Only in AHEAD wave 2, the proxy is given the option to respond with "other" when asked about final expenses. In this case, values were imputed.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for the respondent's death expenses, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an exact amount for the respondent's death expenses, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value.

Please note that in AHEAD wave 2 and HRS waves 3 through 5, whether insurance helped cover the cost of death expenses is asked of all proxies, but starting in wave 6, this question is not asked if total death expenses were reported to be 0.

**HRS Variables Used:**

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<th>Wave 4 Exit:</th>
<th>Wave 5 Exit:</th>
<th>Wave 6 Exit:</th>
<th>Wave 7 Exit:</th>
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Wave 7 Exit:

| TT148        | death expenses |
| TT149        | death expenses - min |
| TT152        | death exp cover by ins |
Section O: End of Life Planning

TT153  amt paid death exp by ins
TT154  pct paid death exp by ins

Wave 8 Exit:
    UT148  death expenses
    UT149  death expenses - min
    UT152  death exp cover by ins
    UT153  amt paid death exp by ins
    UT154  pct paid death exp by ins

Wave 9 Exit:
    VT148  death expenses
    VT149  death expenses - min
    VT152  death exp cover by ins
    VT153  amt paid death exp by ins
    VT154  pct paid death exp by ins

Wave 10 Exit:
    WT148  death expenses
    WT149  death expenses - min
    WT152  death exp cover by ins
    WT153  amt paid death exp by ins
    WT154  pct paid death exp by ins

Wave 11 Exit:
    XT148  death expenses
    XT149  death expenses - min
    XT152  death exp cover by ins
    XT153  amt paid death exp by ins
    XT154  pct paid death exp by ins

Wave 12 Exit:
    YT148  death expenses
    YT149  death expenses - min
    YT152  death exp cover by ins
    YT153  amt paid death exp by ins
    YT154  pct paid death exp by ins
Living Will: Whether Had EOL Instructions and R's Desires

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<th>Label</th>
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<td>ralvwill: r whether had living will</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RALMTCARE</td>
<td>ralmtcare: r had desire to limit care</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RAHOLDTRT</td>
<td>raholdtrt: r had desire to withhold treatment</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RACOMFORT</td>
<td>racomfort: r had desire to be kept comfortable</td>
<td>Categ</td>
</tr>
<tr>
<td>OA RAPROLONG</td>
<td>raprolong: r had desire to prolong life</td>
<td>Categ</td>
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Descriptive Statistics

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Categorical Variable Codes

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<tr>
<td>.n: not asked this wave</td>
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<td>.r: refuse</td>
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<tr>
<td>.n: no living will</td>
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<tr>
<td>.q: not asked this wave</td>
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<td>.r: refuse</td>
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<td>.r: refuse</td>
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| Value ---------------------- | RAPROLONG      |


Section O: End of Life Planning

How Constructed:

RALVWILL indicates whether the deceased respondent ever provided written instructions about the treatment or care he/she wanted to receive during the final days of his/her life, also called a living will. RALVWILL is coded as 0 if the respondent did not provide a living will. RALVWILL is coded as 1 if the respondent did provide a living will. This question is not asked in AHEAD wave 2 or HRS waves 2 through 4 and RALVWILL is assigned special missing .q in these waves. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RALMTCARE indicates whether the deceased respondent's living will expressed a desire to limit care in certain situations. RAHOLDTRT indicates whether the deceased respondent's living will expressed a desire to have any treatment withheld. RACOMFORT indicates whether the deceased respondent's living will expressed a desire to keep him/her comfortable and pain free but to forego extensive measures to prolong life. RAPROLONG indicates whether the deceased respondent's living will expressed a desire to receive all care possible under any circumstances in order to prolong life. RALMTCARE, RAHOLDTRT, RACOMFORT, and RAPROLONG are coded as 0 if negative responses were given, and coded as 1 if affirmative responses were given. RALMTCARE, RAHOLDTRT, RACOMFORT, and RAPROLONG are assigned special missing .n if the deceased respondent did not provide a living will. These questions are not asked in AHEAD wave 2 or HRS waves 2 through 4 and RALMTCARE, RAHOLDTRT, RACOMFORT, and RAPROLONG are assigned special missing .q in these waves. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In AHEAD wave 2 and HRS waves 2 through 4, the proxy is not asked whether the respondent provided written instructions about the treatment or care he/she wanted to receive during the final days of his/her life, also called a living will. In these waves, the proxy is also not asked any questions regarding the respondent's desires expressed in the living will.

HRS Variables Used:

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<td>R2750</td>
<td>sx-1c.limit care</td>
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<td>R2751</td>
<td>sx-1d.treatment withheld</td>
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<td>R2752</td>
<td>sx-1e.keep comfortable</td>
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Wave 6 Exit:

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<td>ST193</td>
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</tr>
<tr>
<td>ST194</td>
<td>eol limit care</td>
</tr>
<tr>
<td>ST195</td>
<td>eol withhold treatment</td>
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Wave 7 Exit:

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<tbody>
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Wave 8 Exit:

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<td>UT194</td>
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<td>VT193</td>
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<td>eol withhold treatment</td>
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<tr>
<td>VT196</td>
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<td>WT196</td>
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Living Will: Month and Year Created

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### Descriptive Statistics

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### How Constructed:

RALVWILLM and RALVWILLY indicate the month and year, respectively, the respondent’s living will was dated. RALVWILLM and RALVWILLY are assigned special missing .n if the deceased respondent did not provide a living will. RALVWILLM and RALVWILLY are assigned special missing .i if the proxy reports a date prior to the respondent’s birth or after the respondent’s death (KNOWNDECEASEDYM and KNOWNDECEASEDYM from the HRS Tracker File). These questions are not asked in AHEAD wave 2 and HRS waves 2 through 4 and RALVWILLM and RALVWILLY are assigned special missing .q in these waves. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

### Cross Wave Differences in HRS

In AHEAD wave 2 and HRS waves 2 through 4, the proxy is not asked whether the respondent had a living will, and so is not asked when the living will was created.

### HRS Variables Used:

**RAND HRS:**
- RABYEAR rabyear: r birth year

**Tracker:**
- KNOWNDECEASEDYM known deceased - month
- KNOWNDECEASEDYM known deceased - year

**Wave 5 Exit:**
- R2742 sx-1.r provide written instructions
- R2743 sx-1a.month written
- R2744 sx-1a2.year written

**Wave 6 Exit:**
- ST190 r have written eol inst
- ST191 month eol inst written
- ST192 year eol inst written

**Wave 7 Exit:**
- TT190 r have written eol inst
- TT191 month eol inst written
- TT192 year eol inst written

**Wave 8 Exit:**
- UT190 r have written eol inst
- UT191 month eol inst written
- UT192 year eol inst written

**Wave 9 Exit:**
- VT190 r have written eol inst
- VT191 month eol inst written
- VT192 year eol inst written

**Wave 10 Exit:**
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<td>r have written eol inst</td>
<td></td>
</tr>
<tr>
<td>YT191</td>
<td>month eol inst written</td>
<td></td>
</tr>
<tr>
<td>YT192</td>
<td>year eol inst written</td>
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</tbody>
</table>
Section O: End of Life Planning

Living Will: Time from Living Will Creation until Death

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
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<tbody>
<tr>
<td>0A RALWTODTHM</td>
<td>ralwtodthm: months from r's living will to death</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RALWTODTHY</td>
<td>ralwtodthy: years from r's living will to death</td>
<td>Cont</td>
</tr>
<tr>
<td>0A RALWTODTHF</td>
<td>ralwtodthf: flag time from r's living will to death</td>
<td>Categ</td>
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</tbody>
</table>

Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<tr>
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<td>3947</td>
<td>68.10</td>
<td>78.11</td>
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<td>RALWTODTHY</td>
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<tr>
<td>RALWTODTHF</td>
<td>3957</td>
<td>1.35</td>
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Categorical Variable Codes

<table>
<thead>
<tr>
<th>Value</th>
<th>RALWTODTHF</th>
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<tbody>
<tr>
<td>.i:invalid date given</td>
<td>458</td>
</tr>
<tr>
<td>.m:missing</td>
<td>270</td>
</tr>
<tr>
<td>.n:no living will</td>
<td>5885</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>2382</td>
</tr>
<tr>
<td>1.month and year used</td>
<td>2578</td>
</tr>
<tr>
<td>2.only year used</td>
<td>1379</td>
</tr>
</tbody>
</table>

How Constructed:

RALWTODTHM and RALWTODTHY indicate the number of months and years, respectively, between the dated living will and the respondent's death. RALWTODTHM is calculated using the year and month the living will was created and the death year and month (RADYEAR and RADMONTH in the RAND HRS). If month of the creation of the living will or death month is missing, then the calculation only considers the year values of living will creation and death. RALWTODTHY is calculated by dividing RALWTODTHM by 12. If the date of living will creation is reported to be prior to the respondent's birth or after the respondent's death (KNOWndeceasedyr and KNOWndeceasedmo from the HRS Tracker File), then RALWTODTHM and RALWTODTHY are assigned special missing .i. RALWTODTHM and RALWTODTHY are assigned special missing .n if the deceased respondent did not provide a living will. The month and year the respondent created a living will is not asked in AHEAD wave 2 and HRS waves 2 through 4, and so RALWTODTHM and RALWTODTHY are assigned special missing .q in these waves. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RALWTODTHF is a flag variable indicating whether year and month or only years are used in the calculation of RALWTODTHM and RALWTODTHY. RALWTODTHF is coded as follows: 1.month and year used, 2.only year used. If the date of living will creation is reported to be prior to the respondent's birth or after the respondent's death (KNOWndeceasedyr and KNOWndeceasedmo from the HRS Tracker File), then RALWTODTHF is assigned special missing .i. RALWTODTHF is assigned special missing .n if the deceased respondent did not provide a living will. The month and year the respondent created a living will is not asked in AHEAD wave 2 and HRS waves 2 through 4, and so RALWTODTHF is assigned special missing .q in these waves.

Cross Wave Differences in HRS

In AHEAD wave 2 and HRS waves 2 through 4, the proxy is not asked whether the respondent had a living will, and so is not asked when the living will was created.
HRS Variables Used:

RAND HRS:
  RABYEAR     rabyear: r birth year

Tracker:
  KNOWNDECEASEDMO  known deceased - month
  KNOWNDECEASEDYR known deceased - year

Wave 5 Exit:
  R2742     sx-1.r provide written instructions
  R2743     sx-1a.month written
  R2744     sx-1a2.year written

Wave 6 Exit:
  SA121     date of death- month
  SA123     date of death- year
  ST190     r have written eol inst
  ST191     month eol inst written
  ST192     year eol inst written

Wave 7 Exit:
  TA121     date of death- month
  TA123     date of death- year
  TT190     r have written eol inst
  TT191     month eol inst written
  TT192     year eol inst written

Wave 8 Exit:
  UA121     date of death- month
  UA123     date of death- year
  UT190     r have written eol inst
  UT191     month eol inst written
  UT192     year eol inst written

Wave 9 Exit:
  VA121     date of death- month
  VA123     date of death- year
  VT190     r have written eol inst
  VT191     month eol inst written
  VT192     year eol inst written

Wave 10 Exit:
  WA121     date of death- month
  WA123     date of death- year
  WT190     r have written eol inst
  WT191     month eol inst written
  WT192     year eol inst written

Wave 11 Exit:
 XA121     date of death- month
  XA123     date of death- year
  XT190     r have written eol inst
  XT191     month eol inst written
  XT192     year eol inst written

Wave 12 Exit:
  YA121     date of death- month
  YA123     date of death- year
  YT190     r have written eol inst
  YT191     month eol inst written
  YT192     year eol inst written
### Durable Power of Attorney for Healthcare

<table>
<thead>
<tr>
<th>Wave Variable</th>
<th>Label</th>
<th>Type</th>
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<tbody>
<tr>
<td>0A RADPOAFH</td>
<td>radpoafh: r durable power of attorney for healthcare</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOASP</td>
<td>radpoasp: r spouse was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOACH</td>
<td>radpoach: r child/grandchild was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOARL</td>
<td>radpoarl: r relative was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOAFR</td>
<td>radpoafr: r friend was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOANR</td>
<td>radpoanr: r non-relative proxy was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOADR</td>
<td>radpoadr: r doctor was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOARA</td>
<td>radpoara: r religious advisor was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOAFL</td>
<td>radpolafl: r legal professional was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOAOT</td>
<td>radpoaot: r other person was durable power of attorney</td>
<td>Categ</td>
</tr>
<tr>
<td>0A RADPOANF</td>
<td>radpoanf: r non-family member was durable power of attorney</td>
<td>Categ</td>
</tr>
</tbody>
</table>

### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
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<td>RADPOASP</td>
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<td>RADPOACH</td>
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<tr>
<td>RADPOAFR</td>
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<td>0.00</td>
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<td>RADPOANR</td>
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<td>1.00</td>
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<tr>
<td>RADPOADR</td>
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<td>1.00</td>
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<tr>
<td>RADPOARA</td>
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<td>0.00</td>
<td>0.03</td>
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<tr>
<td>RADPOALP</td>
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<td>0.06</td>
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<td>1.00</td>
</tr>
<tr>
<td>RADPOASW</td>
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<td>0.00</td>
<td>1.00</td>
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<tr>
<td>RADPOAOT</td>
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<tr>
<td>RADPOANF</td>
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### Categorical Variable Codes

<table>
<thead>
<tr>
<th>Value</th>
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<tbody>
<tr>
<td>.d:dk</td>
<td>285</td>
</tr>
<tr>
<td>.m:missing</td>
<td>24</td>
</tr>
<tr>
<td>.q: not asked this wave</td>
<td>2382</td>
</tr>
<tr>
<td>.r: refuse</td>
<td>21</td>
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<tr>
<td>0. no</td>
<td>4613</td>
</tr>
<tr>
<td>1. yes</td>
<td>5627</td>
</tr>
</tbody>
</table>

| Value---------------------- | RADPOASP |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 4104 |
| 1. yes | 1507 |

| Value---------------------- | RADPOACH |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 1972 |
| 1. yes | 3639 |

| Value---------------------- | RADPOARL |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 5034 |
| 1. yes | 577 |

| Value---------------------- | RADPOAFR |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 5596 |
| 1. yes | 115 |

| Value---------------------- | RADPOANR |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 5583 |
| 1. yes | 28 |

| Value---------------------- | RADPOAPR |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 5597 |
| 1. yes | 14 |

| Value---------------------- | RADPOLA |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 5605 |
| 1. yes | 6 |

| Value---------------------- | RADPOALP |
| .d: dk | 299 |
| .m: missing | 24 |
| .n: no durable power of avto | 4613 |
| .q: not asked this wave | 2382 |
| .r: refuse | 23 |
| 0. no | 5592 |
| 1. yes | 19 |
### RADPOAFH

**How Constructed:**

RADPOAFH indicates whether the deceased respondent had a Durable Power of Attorney for Health Care, someone who can legally make decisions about his/her care or medical treatment if he/she could not make those decisions himself/herself. RADPOAFH is coded as 0 if the deceased respondent had no Durable Power of Attorney for Health Care. RADPOAFH is coded as 1 if the deceased respondent did have a Durable Power of Attorney for Health Care. This question is not asked in AHEAD wave 2 and HRS waves 2 through 4, and so RADPOAFH is assigned special missing .q in these waves. Don’t know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RADPOASP, RADPOACH, RADPOARL, RADPOAFR, RADPOANR, RADPOADR, RADPOARA, RADPOALP, RADPOASW, RADPOAOT, and RADPOANF indicate whether a person with the specified relationship was mentioned being a Durable Power of Attorney for the deceased respondent. The proxy can select multiple people who served as the respondent's Durable Power of Attorney with specific relationships or by answering it was the non-spouse proxy respondent, in which case the proxy’s relationship to the respondent, as recorded in RAXWHOIVW, is used to assign the correct relationship. RADPOASP indicates if the respondent’s spouse or partner was mentioned being a Durable Power of Attorney. RADPOACH indicates if the respondent’s child, child-in-law, or grandchild was mentioned being a Durable Power of Attorney. RADPOARL indicates if another relative of the respondent was mentioned being a Durable Power of Attorney. RADPOAFR indicates if the respondent's friend was mentioned being a Durable Power of Attorney. RADPOANR indicates if a non-relative proxy is mentioned being the respondent's Durable Power of Attorney. RADPOADR indicates if the respondent's GP, doctor, or healthcare professional is mentioned being a Durable Power of Attorney. RADPOARA indicates if the respondent’s minister, rabbi, imam, priest, or religious advisor is mentioned being a Durable Power of Attorney. RADPOALP indicates if the respondent's solicitor or legal professional is mentioned being a Durable Power of Attorney. RADPOASW indicates if a social worker is mentioned being the respondent's Durable Power of Attorney. RADPOAOT indicates if some other person is mentioned being the respondent's Durable Power of Attorney. RADPOANF indicates if a non-family member, meaning a friend, non-relative proxy, the respondent's GP, doctor, or healthcare professional, the respondent's minister, rabbi, imam, priest or religious advisor, the respondent's solicitor or legal professional, a social worker, or some other person is mentioned being the respondent's Durable Power of Attorney. These variables are coded as 0 if the relationship is not mentioned as being a Durable Power of Attorney, and are coded as 1 if the relationship is mentioned as being a Durable Power of Attorney.
RADPOASP, RADPOACH, RADPOARL, RADPOAFR, RADPOANR, RADPOADR, RADPOALP, RADPOASF, RADPOAOAT, and RADPOANF are assigned special missing .q in these waves. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

**Cross Wave Differences in HRS**

In AHEAD wave 2 and HRS waves 2 through 4, the proxy is not asked whether the respondent had a Durable Power of Attorney for Healthcare, or the relationship of the person/people who were named as the respondent's Durable Power of Attorney.

In waves 5 and 6, the proxy can choose relationships of up to 3 people who were named as the respondent's Durable Power of Attorney. Starting in wave 7, the proxy can choose relationships of up to 4 people who were named as the respondent's Durable Power of Attorney, however no proxy respondents reported a fourth relationship in any wave.

**HRS Variables Used:**

**Wave 5 Exit:**
- R2764 sx-2.make legal arrangements
- R2765M1 sx-2a.who authority - 1
- R2765M2 sx-2a.who authority - 2

**Wave 6 Exit:**
- ST206 eol legal care arrangmt
- ST207M1 eol who authority - 1
- ST207M2 eol who authority - 2
- ST207M3 eol who authority - 3

**Wave 7 Exit:**
- TT206 eol legal care arrangmt
- TT207M1 eol who authority - 1
- TT207M2 eol who authority - 2
- TT207M3 eol who authority - 3

**Wave 8 Exit:**
- UT206 eol legal care arrangmt
- UT207M1 eol who authority - 1
- UT207M2 eol who authority - 2
- UT207M3 eol who authority - 3

**Wave 9 Exit:**
- VT206 eol legal care arrangmt
- VT207M1 eol who authority - 1
- VT207M2 eol who authority - 2
- VT207M3 eol who authority - 3

**Wave 10 Exit:**
- WT206 eol legal care arrangmt
- WT207M1 eol who authority - 1
- WT207M2 eol who authority - 2
- WT207M3 eol who authority - 3

**Wave 11 Exit:**
- XT206 eol legal care arrangmt
- XT207M1 eol who authority - 1
- XT207M2 eol who authority - 2
- XT207M3 eol who authority - 3

**Wave 12 Exit:**
- YT206 eol legal care arrangmt
- YT207M1 eol who authority - 1
- YT207M2 eol who authority - 2
- YT207M3 eol who authority - 3
Life Insurance Policies: Whether Had Life Insurance Settlement and Settlement Value

### Wave Variable | Label | Type
---|---|---
O A RAXLIFEINS | raxlifeins: r any life insurance settlement | Categ
O A RALFINSV | ralfinsv: r life insurance: total settlement | Cont
O A RALFINSVF | ralfinsvf: r life insurance flag: total settlement | Categ

#### Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
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<tbody>
<tr>
<td>RAXLIFEINS</td>
<td>12135</td>
<td>0.39</td>
<td>0.49</td>
<td>0.00</td>
<td>1.00</td>
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<tr>
<td>RALFINSV</td>
<td>12778</td>
<td>13540.41</td>
<td>64575.12</td>
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<td>2103049.50</td>
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<td>12778</td>
<td>4.38</td>
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#### Categorical Variable Codes

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<td>470</td>
</tr>
<tr>
<td>.m:missing</td>
<td>28</td>
</tr>
<tr>
<td>.q:not asked this wave</td>
<td>174</td>
</tr>
<tr>
<td>.r:refuse</td>
<td>145</td>
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<td>0.no</td>
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<tr>
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<td>174</td>
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<tr>
<td>1.continuous value</td>
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<td>2.closed bracket</td>
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<td>3.open bracket</td>
<td>12</td>
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<td>5.no bracket info</td>
<td>336</td>
</tr>
<tr>
<td>6.no settlement</td>
<td>7450</td>
</tr>
<tr>
<td>7.dk whether settlement</td>
<td>645</td>
</tr>
</tbody>
</table>

#### How Constructed:

RAXLIFEINS indicates whether anyone received a settlement from the deceased respondent's life insurance. RAXLIFEINS is coded as 0 if nobody received a settlement from life insurance. RAXLIFEINS is coded as 1 if someone received a settlement from life insurance. This question is not asked in HRS wave 2, and so is assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

RALFINSV indicates the total monetary value of the life insurance settlement and includes imputed values to address item-missingness. Proxies are first asked whether anyone received a settlement from life insurance, if so, they are then asked to name the relationship of the person(s) who received the life insurance. If a child received a settlement, the proxy is asked to name the amount or percentage that the child(ren) received altogether, if a spouse received a settlement, the proxy is asked to name the amount or percentage that the spouse received, if a grandchild or other relative received a settlement, the proxy is asked to name the amount or percentage that the other relatives received altogether, and if a non-relative received a settlement, the proxy is asked to name the amount or percentage that the non-relatives received altogether. Then, varying by wave, the proxy may be asked, "Altogether, what was the value of the life insurance settlement?" In AHEAD wave 2 and HRS wave 3, the proxy is asked about the value of the settlement for the respondent's life insurance policies regardless of the recipients reported. In waves 4, 5, 7 and onward, the proxy is asked about the value of the total life insurance settlement for the respondent's life insurance policies if a child, grandchild, relative, or non-relative is a recipient of a settlement, and if the spouse is the only recipient but an amount is not provided. If the spouse is the only
recipient and an amount is provided, then this value is used as the value of the total life insurance settlement. In wave 6, the proxy is asked about the value of the total settlement for the respondent's life insurance policies only if the spouse is the only recipient of the settlement. If a child, grandchild, relative, or non-relative is the only recipient of a settlement and an amount is provided, then this value is used as the value of the total life insurance settlement. If the proxy selects more than one recipient of a life insurance settlement, then the sum of the amounts provided for each relationship is used as a minimum value for imputation.

If the proxy responds don't know or refused for the total value of the life insurance settlement, then an unfolding bracket sequence begins to determine a minimum and maximum value for the settlement. RALFINSV has reported and imputed values that have been adjusted to 2010 dollars based on the consumer price index for the year of death. RALFINSV is assigned a value of 0 if nobody received a settlement from life insurance. This question was not asked in HRS wave 2, and so RALFINSV is assigned special missing .q in this wave.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for the life insurance settlement, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an exact amount for the life insurance settlement, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value. The threshold values are $10,000, $25,000, $100,000, $500,000, $2,000,000 in all waves. This information is used in the imputation of RALFINSV.

RALFINSVF is a flag variable indicating the level of imputation used for RALFINSV. A code of 1 indicates the proxy reported a continuous value and no imputation was necessary. A code of 2 indicates that the value was imputed based on a closed bracket. A code of 3 indicates that the value was imputed without any bracket information. A code of 6 indicates the proxy reported the respondent not having any life insurance settlement and the value of RALFINSV is 0. A code of 7 indicates that whether the respondent had a life insurance settlement is unknown. Since this question was not asked in HRS wave 2, RALFINSVF is assigned special missing .q in this wave.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is asked whether the respondent had any life insurance policies and the value of the policies. Starting in AHEAD wave 2 and HRS wave 3, the proxy is asked whether anyone has received a settlement from life insurance and the value of the settlement for the respondent's life insurance policies. Because of the difference in the wording of these questions, we have not provided any values for HRS wave 2 in the Harmonized HRS Exit datafile.

In AHEAD wave 2 and HRS wave 3, the proxy is asked about the value of the settlement for the respondent's life insurance policies regardless of the recipients reported.

In waves 4, 5, 7 and onward, the proxy is asked about the value of the total life insurance settlement for the respondent's life insurance policies if a child, grandchild, relative, or non-relative is a recipient of a settlement, and if the spouse is the only recipient but an amount is not provided. If the spouse is the only recipient and an amount is provided, then this value is used as the value of the total life insurance settlement.

In wave 6, the proxy is asked about the value of the total settlement for the respondent's life insurance policies only if the spouse is the only recipient of the settlement. If a child, grandchild, relative, or non-relative is the only recipient of a settlement and an amount is provided, then this value is used as the value of the total life insurance settlement. If the proxy selects more than one recipient of a life insurance settlement, then the sum of the amounts provided for each relationship is used as a minimum value for imputation.

In AHEAD wave 2 and HRS wave 3, if the proxy does not give an exact amount for the life insurance settlement, the proxy is asked a set of bracket questions and answers if the true value was more than the threshold value. In waves 4 and onward, if the proxy does not give an
exact amount for the life insurance settlement, the proxy is asked a set of bracket questions and answers if the true value was less than, about equal to, or more than the threshold value.

**HRS Variables Used:**

Wave 2A Exit:
- N5214          n83x.life insurance
- N5215M1        n83ax.insurance beneficiaries
- N5215M2        n83ax.insurance beneficiaries
- N5236          n85gx.amount to spouse/partner
- N5246          n86x.$ value estate
- N5247          n86bx.dk-1
- N5248          n86cx.dk-2
- N5249          n83dx.dk-3
- N5250          n83ex.dk-4
- N5251          n83fx.dk-5

Wave 3 Exit:
- P2105          n83x.life insurance
- P2106M1        n83ax.insurance beneficiaries
- P2106M2        n83ax.insurance beneficiaries
- P2106M3        n83ax.insurance beneficiaries
- P2127          n85gx.amount to spouse/partner
- P2137          n86x.$ value estate
- P2138          n86bx.dk-1
- P2139          n86cx.dk-2
- P2140          n83dx.dk-3
- P2141          n83ex.dk-4
- P2142          n83fx.dk-5

Wave 4 Exit:
- Q2517          n83x.life insurance
- Q2518M1        n83ax.insurance beneficiaries-1
- Q2518M2        n83ax.insurance beneficiaries-2
- Q2518M3        n83ax.insurance beneficiaries-1
- Q2518M4        n83ax.insurance beneficiaries-2
- Q2539          n85gx.amount to spouse/partner
- Q2549          n86ax.$ value estate
- Q2550          n86bx.dk-1
- Q2551          n86cx.dk-2
- Q2552          n86dx.dk-3
- Q2553          n86ex.dk-4
- Q2554          n86fx.dk-5

Wave 5 Exit:
- R2524          n83x.life insurance
- R2525M1        n83ax.insurance beneficiaries-1
- R2525M2        n83ax.insurance beneficiaries-2
- R2525M3        n83ax.insurance beneficiaries-3
- R2546          n85gx.amount to spouse/partner
- R2556          n86ax.$ value estate
- R2557          n86bx.dk-1
- R2558          n86cx.dk-2
- R2559          n86dx.dk-3
- R2560          n86ex.dk-4
- R2561          n86fx.dk-5

Wave 6 Exit:
- ST181          life insurance settlement
- ST182M1        who recv life ins - 1
- ST182M2        who recv life ins - 2
- ST182M3        who recv life ins - 3
- ST186          total value ins settlement
- ST187          value ins settlement - min
- ST9082         life insurance amt transfer - children
- ST9112         life insurance amt transfer - sp/p
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Life Insurance Policies: Beneficiaries

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<tr>
<td>0A RALFINSRL</td>
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<td>0A RALFINSOT</td>
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Descriptive Statistics

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Categorical Variable Codes

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<tr>
<td>.m:missing</td>
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<tr>
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Section O: End of Life Planning

How Constructed:

RALFINSSP, RALFINSCH, RALFINSGK, RALFINSRL, and RALFINSOT indicate whether someone with the specified relationship received a settlement from life insurance. The proxy is first asked whether anyone received a settlement from life insurance, and if so, the proxy can report the relationship of multiple people who received a life insurance settlement. RALFINSSP indicates whether the deceased respondent's spouse/partner received a settlement from life insurance. In HRS wave 3, RALFINSSP also indicates whether the deceased respondent's ex-spouse received a settlement from life insurance. RALFINSCH indicates whether the deceased respondent's children received a settlement from life insurance. RALFINSGK indicates whether the deceased respondent's grandchildren or great-grandchildren received a settlement from life insurance. RALFINSRL indicates whether other relatives of the deceased respondent received a settlement from life insurance. RALFINSOT indicates whether other non-relatives of the deceased respondent received a settlement from life insurance. RALFINSSP, RALFINSCH, RALFINSGK, RALFINSRL, and RALFINSOT are assigned special missing .n if nobody received a life insurance settlement on behalf of the deceased respondent. In waves 4 and 5, RALFINSSP, RALFINSCH, RALFINSGK, RALFINSRL, and RALFINSOT are assigned special missing .f if the settlement from life insurance was used for funeral expenses or if the beneficiary was unknown, and are assigned special missing .e if the estate or trust was the recipient of the life insurance settlement. RALFINSSP, RALFINSCH, RALFINSGK, RALFINSRL, and RALFINSOT are not available in HRS wave 2, and are assigned special missing .q in this wave. Don't know, refused, or other missing responses are assigned special missing .d, .r, .m, respectively.

Cross Wave Differences in HRS

In HRS wave 2, the proxy is asked whether the respondent had any life insurance policies. Starting in AHEAD wave 2 and HRS wave 3, the proxy is asked whether anyone has received a settlement from life insurance and who received a settlement from the respondent's life insurance policies.

In AHEAD wave 2, the proxy can only specify the relationship of 2 life insurance beneficiaries. In HRS waves 3, 5, 6, and 8-10, the relationship of up to 3 life insurance beneficiaries are specified. In waves 4, 7, 11, and 12, the relationship of up to 4 life insurance beneficiaries are specified.

Only in wave 3, the proxy can respond that the respondent's ex-spouse received a life insurance settlement. Only in waves 4 and 5, the proxy can respond that the settlement from life insurance was used for funeral expenses, that the beneficiary was unknown, or that the estate or trust was the recipient of the life insurance settlement.

HRS Variables Used:

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