

ICPSR 34241

**Research on Early Life and Aging  
Trends and Effects (RELATE): A  
Cross-National Study**

Mary McEniry

*University of Michigan. Inter-university  
Consortium for Political and Social Research*

Methods Report

Inter-university Consortium for  
Political and Social Research  
P.O. Box 1248  
Ann Arbor, Michigan 48106  
[www.icpsr.umich.edu](http://www.icpsr.umich.edu)

# Terms of Use

The terms of use for this study can be found at:  
<http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/34241/terms>

## Information about Copyrighted Content

Some instruments administered as part of this study may contain in whole or substantially in part contents from copyrighted instruments. Reproductions of the instruments are provided as documentation for the analysis of the data associated with this collection. Restrictions on "fair use" apply to all copyrighted content. More information about the reproduction of copyrighted works by educators and librarians is available from the United States Copyright Office.

### NOTICE

#### WARNING CONCERNING COPYRIGHT RESTRICTIONS

The copyright law of the United States (Title 17, United States Code) governs the making of photocopies or other reproductions of copyrighted material. Under certain conditions specified in the law, libraries and archives are authorized to furnish a photocopy or other reproduction. One of these specified conditions is that the photocopy or reproduction is not to be "used for any purpose other than private study, scholarship, or research." If a user makes a request for, or later uses, a photocopy or reproduction for purposes in excess of "fair use," that user may be liable for copyright infringement.

**Methods report on the compilation of the RELATE cross national  
data set on older adults from 20 low, middle and high income  
countries**

Version 1.0

Written and prepared by:

Mary McEniry, Sarah Moen, Jacob McDermott

June 2013

Inter-university Consortium for Political and Social Research  
Population Studies Center  
Institute for Social Research  
University of Michigan  
Ann Arbor, Michigan

## Table of Contents

### 1. Overview

- 1.1 Background
- 1.2 Country-specific surveys selected for cross national data set
  - 1.2.1 Sample designs, sample weights and response rates
  - 1.2.2 Missing values

### 2. Creation of the cross national data set

- 2.1 Creating country-specific data files
- 2.2 Creating a preliminary cross national data set
  - 2.2.1 Harmonization of measures
- 2.3 Creating a finalized version of the cross national data set

### 3. Constructed variables for cross national data

- 3.1 Respondent, household IDs, status and where interviewed
- 3.2 Demographics
  - 3.2.1 Gender, age and marital status
  - 3.2.2 Ethnicity, race and language spoken
  - 3.2.3 Education, income and wealth
  - 3.2.4 Family and household
- 3.3 System
  - 3.3.1 WHO rating of health care systems
- 3.4 Early life conditions
  - 3.4.1 Birthplace
  - 3.4.2 Childhood health
  - 3.4.3 Childhood nutrition
  - 3.4.4 Childhood socioeconomic status
- 3.5 Adult lifestyle
  - 3.5.1 Adult smoking
  - 3.5.2 Adult exercise
  - 3.5.3 Adult alcohol consumption
  - 3.4.4 Adult diet
- 3.6 Adult health outcomes
  - 3.6.1 Self-reported health
  - 3.6.2 Functionality/disability
  - 3.6.3 Chronic conditions
  - 3/6.4 Anthropometric and performance measures
  - 3.6.5 Mortality

### 4. References

**Appendix A:** Original Funding Sources for Studies Included in the First Public Release of the RELATE Data

**Appendix B:** Archiving and preservation  
**Appendix C:** Harmonization of key variables  
**Appendix D:** Overview of country-specific data files  
**Appendix E:** Bangladesh-MHSS original variables  
**Appendix F:** China-CHNS original variables  
**Appendix G:** China-CLHLS original variables  
**Appendix H:** Costa Rica-CRELES original variables  
**Appendix I:** England-ELSA original variables  
**Appendix J:** Indonesia-IFLS original variables  
**Appendix K:** Latin American and Caribbean cities-SABE original variables  
**Appendix L:** Mexico-MHAS original variables  
**Appendix M:** Netherlands-SHARE original variables  
**Appendix N:** Puerto Rico-PREHCO original variables  
**Appendix O:** SAGE countries original variables  
**Appendix P:** Taiwan-SEBAS original variables  
**Appendix Q:** US-HRS original variables  
**Appendix R:** US-WLS original variables

## List of tables

Table 1.1: Description of cross national data on aging populations  
 Table 1.2: Description of country specific samples  
 Table 2.1: Country-specific data files  
 Table 3.1: Relationship between constructed variables and original variables for respondent, household IDs, status and where interviewed  
 Table 3.2: Relationship between constructed and original variables for gender, age and marital status  
 Table 3.3: Relationship between constructed and original variables for ethnicity, race and language  
 Table 3.4: Relationship between constructed and original variables for education, income and wealth  
 Table 3.5: Relationship between constructed and original variables for family and household  
 Table 3.6: WHO rating of health care systems  
 Table 3.7: Relationship between constructed and original variables for birthplace  
 Table 3.8: Relationship between constructed and original variables for childhood health  
 Table 3.9: Relationship between constructed and original variables for childhood nutrition  
 Table 3.10: Relationship between constructed and original variables for childhood SES  
 Table 3.11: Relationship between constructed and original variables for adult smoking  
 Table 3.12: Relationship between constructed and original variables for adult exercise  
 Table 3.13: Relationship between constructed and original variables for adult alcohol consumption  
 Table 3.14: Relationship between constructed and original variables for self-reported

health

Table 3.15: Relationship between constructed and original variables for functionality/disability

Table 3.16: Relationship between constructed and original variables for chronic conditions

Table 3.17: Relationship between constructed and original variables for anthropometric measures

Table 3.18: Relationship between constructed and original variables for adult mortality

### **List of figures**

Figure 1: Steps in creating cross national data set

## **Acknowledgements**

The award received by the National Institute of Aging for a five-year grant to study early life conditions and older adult health in the developing world (grant number K25 AG027239) made the research described in this report possible. The rich scholarly environment found at the Center for Demography & Ecology (grant number R24 HD47873) and the Center for Demography of Aging (grant number P30 AG017266) at University of Wisconsin-Madison and the Institute for Social Research, ICPSR, Population Studies Center (grant number R24 HD041028) at the University of Michigan also played an important part. The Social Science Computing Cooperative at the University of Wisconsin-Madison provided excellent computing resources by which to carry out research activities. Finally, we are grateful for the very detailed and careful work of the data processors within the Data Sharing for Demographic Research archive within the Inter-university Consortium for Political and Social Research (ICPSR) at the University of Michigan (grant number U24HDO48404-09).

This is the first publicly released version of the data documentation. Please send all comments to [mmceniry@umich.edu](mailto:mmceniry@umich.edu).

# 1. Overview

## 1.1 Background

This technical report describes the compilation of the cross national data set on older adults resulting from a 5-year NIA funded project which examined early life conditions and older adult health (50+ years) across developing and developed countries (K25 AG027239). The research project was also supported by a NICHD center grant to the Population Studies Center at the University of Michigan (R24 HD041028) and core grants to the Center for Demography and Ecology, University of Wisconsin (R24 HD47873) and to the Center for Demography of Health and Aging, University of Wisconsin (P30 AG017266). As part of the project, data were compiled on over 147,000 individuals from major surveys of older adults in 20 low, middle and high income countries. This report describes the methods used to compile the data.

## 1.2 Country-specific surveys selected for cross national data set

The selection of countries for the cross national data set was based on their diversity but also availability of comprehensive cross sectional/panel survey data for older adults born in low, middle and high income countries. At the time of the initial data compilation, these included several comprehensive surveys that have individual-level data on health.

Table 1.1 provides a general description of the cross national data set, including classification of countries according to early 20<sup>th</sup> century mortality regimes, current income categories, selected wave, sample size, age of respondents, and the wave used for health transition data. A description of the rationale for the classification into mortality regimes appears elsewhere (McEniry, 2009). Income categories are according to those used by the World Bank (2011).

From Latin America there are the Mexican Health and Aging Study (**MHAS**), Puerto Rican Elderly: Health Conditions (**PREHCO**), Study of Aging Survey on Health and Well Being of Elders (**SABE**), Costa Rican Study of Longevity and Healthy Aging (**CRELES**), and WHO Study on Global Ageing and Adult Health in Mexico (**WHO-SAGE**). From Asia there are the China Health and Nutrition Study (**CHNS**), Chinese Longitudinal Healthy Longevity Survey (**CLHLS**), Indonesia Family Life Survey (**IFLS**), Matlab Health and Socio-Economic Survey (**MHSS**), WHO Study on Global Ageing and Adult Health in India (**WHO-SAGE**) and China (**WHO-SAGE**), and Social Environment and Biomarkers of Aging Study (**SEBAS**). From Africa there are the WHO Study on Global Ageing and Adult Health in Ghana (**WHO-SAGE**) and South Africa (**WHO-SAGE**). From the developed world there are the Health and Retirement Study (**HRS**), Wisconsin Longitudinal Study (**WLS**), English Longitudinal Study of Ageing (**ELSA**), and Survey of Health, Ageing and Retirement-Netherlands (**SHARE-Netherlands**). A survey of older adults from the WHO Study on Global Ageing and Adult Health in the Russian Federation (**WHO-SAGE**) was also recently included in the cross national data.



Of the selected surveys, there are several “sister” surveys conducted in other countries with the Health and Retirement Study (HRS). These include: **ELSA**, **MHAS**, **SHARE**, and **CRELES**. Future plans are to continue adding other sister surveys<sup>1</sup> to the cross national data set as well as new or existing surveys on older adults as they become publicly accessible.

Most of the selected surveys were conducted between 2000-2005 with the exception of Bangladesh (1996) and WHO-SAGE (2007-09) (see Table 1.1). Differences in timing of surveys are relevant when comparing age groups and birth cohorts. When comparing across age groups, Bangladesh respondents are older than most of those surveyed in 2000-2005 (a 60-year old respondent interviewed in 1996 was born in 1936) while WHO-SAGE respondents are younger (a 60-year old interviewed in 2007 was born in 1947). When comparing across birth cohorts, the reverse is true. Differences in timing also appear for mortality as second wave data may reflect shorter or longer periods of time.

The first publicly release version of the cross national data contain a subset of the complete data sets. Appendix A describes the original funding sources for the studies that are included in this first version.

---

<sup>1</sup> Other countries with surveys similar to that of HRS include Ireland, China, Japan, South Korea, and India. Planning for HRS similar studies are now in progress for Scotland and Brazil and possibly in Argentina and Chile. See <https://mmicdata.rand.org/megametadatal/> for more information.

**Table 1.1: Description of cross national data on aging populations**

<u>Country</u>	<u>Income level</u>	<u>Selected wave for baseline</u>	<u>Sample</u>	<u>Ages</u>	<u>Wave used for health transition</u>
<b>Very Early Regime</b>					
Netherlands SHARE	High	2004-05 (wave 1)	2,979	50+	2006-07 (wave 2)
England ELSA	High	2004-05 (wave 2)	8,780	50+	2006-07 (wave 3)
US HRS	High	2000	12,527	60+	2006
US WLS	High	2004-05	10,317	60+	(mortality data up to 2011)
<b>Early Regime</b>					
Argentina SABE	Upper Middle	2000 (wave 1)	1,043	60+	None available
Cuba SABE	Upper Middle	2000 (wave 1)	1,905	60+	None available
Uruguay SABE	Upper Middle	2000 (wave 1)	1,450	60+	None available
<b>Mid-paced Regime</b>					
Chile SABE	Upper Middle	2000 (wave 1)	1,301	60+	2005 (wave 2; not yet publicly accessible)
Costa Rica CRELES	Upper Middle	2003 (wave 1)	2,827	60+	Up to 2008 (wave 2; 3 <sup>rd</sup> wave pending access)
Puerto Rico PREHCO	High	2002-03 (wave 1)	4,291	60+	2006-07 (wave 2)
South Africa	Upper Middle	2007-08 (wave 1)	3,830	50+	Planned for future (wave 2)
WHO/SAGE					
Taiwan SEBAS	High	2000 (wave 1)	1,023	50+	2006 (wave 2)
<b>Late Regime</b>					
Barbados SABE	High	2000 (wave 1)	1,508	60+	None available
Brazil SABE	Upper Middle	2000 (wave 1)	2,143	60+	(waves 2 and 3; not yet publicly accessible)
Mexico MHAS	Upper Middle	2001 (wave 1)	13,463	50+	2003 (wave 2)
Mexico SABE	Upper Middle	2000 (wave 1)	1,247	60+	None available
Mexico WHO/SAGE	Upper Middle	2007-08 (wave 1)	4,142	50+	Planned for future (wave 2)
Russian Federation	Upper Middle	2007-08 (wave 1)	4,511	50+	Planned for future (wave 2)
<b>Very Late Regime</b>					
Bangladesh MHSS	Low	1996 (wave 1)	6,973	36+	Mortality through Dec 2007 for 50+ in 1996
China CHNS	Lower Middle	2000 (wave 5)	6,452	40+	2006 (wave 7)
China CLHLS	Lower Middle	2002 (wave 3)	16,064	60+	2005 (wave 4)
China WHO/SAGE	Lower Middle	2007-08 (wave 1)	13,368	50+	Planned for future (wave 2)
Ghana WHO/SAGE	Low	2007-08 (wave 1)	4,724	50+	Planned for future (wave 2)
India WHO/SAGE	Lower Middle	2007-08 (wave 1)	7,150	50+	Planned for future (wave 2)
Indonesia IFLS	Lower Middle	2000 (wave 3)	13,260	40+	2007-08 (wave 4)
<b>Total</b>			<b>147,278</b>		

*Notes:* Countries arranged by mortality regime and by World Bank definition of income (2011). Ages shown are the ages at the time of the first survey selected. Not shown in the table are surveys used as pre-tests for the SAGE study. These include: India WHO/SAGE's pilot study of 492 individuals, Ghana WHO/SAGE's pilot study of 507 individuals, and Tanzania WHO/SAGE's pilot study of 525 individuals. While the total sample size in the table is 147,278, the subsample of respondents born before 1960 and whose age could be ascertained for analyses was 143,968. The difference in sample size reflects exclusion of (1) 100 cases born in the 1960s; (2) 2,616 cases where age was missing (Mexico-SAGE (n=4142) had 2,030 missing cases); and (3) 594 cases from the WLS cohort where the high school graduate was either dead or did not respond to the 2004 survey.

### **1.2.1 Sample design, sample weights and response rates**

Most studies included in the cross national data set are representative of the older adult population either nationally, in major urban centers or in major provinces. Some studies are representative samples of households from which older adults were selected. Surveys which are nationally representative of the older population include: Mexico-MHAS, Puerto Rico-PREHCO, Costa Rica-CRELES, Taiwan-SEBAS, US-HRS, England-ELSA, and the Netherlands-SHARE. Some of these surveys included oversamples of special populations. Costa Rica-CRELES oversampled the oldest old (respondents over the age of 95). US-HRS oversampled African Americans, Hispanics, and Florida residents. The WHO-SAGE, China-CHNS, China-CLHLS, and Indonesia-IFLS surveys are all representative of only select provinces within the individual countries. The SABE study surveyed seven capital cities in the Latin American and Caribbean region and does not represent the entire population of the seven countries. The general sampling design to which each of the countries adhered allows for the surveys to be comparable cross nationally. Bangladesh-MHSS was a random sample of *baris*, or neighborhoods, in Matlab, a rural region of Bangladesh. US-WLS was a random sample of 1957 Wisconsin high school graduates and their randomly selected siblings. The survey was broadly representative of white, non-Hispanic Americans.

All selected surveys used sample weights with the exception of CHNS and WLS. In some instances there were several sample weights according to individual or community. Individual sample weights were used in the cross national data set.

Table 1.2 provides a description of the cross national sample, including the number of respondents and response rates in the survey year and follow-up survey year. Surveys are grouped by representation (i.e. nationally representative surveys, surveys representative of urban areas, surveys representative of national or rural households and communities, and surveys representative of 1957 Wisconsin high school graduates). Most studies obtained high response rates in the first wave under consideration and in subsequent waves. In some cases, all survey questions were asked only of a subset of respondents (e.g. in Indonesia with so-called main respondents and in Bangladesh with older adults from communities some of which received maternal/child interventions in the 1970s).

More complete information about each survey along with a relevant website for sample design and response rates is found in the reference section of this report.

**Table 1.2: Description of country specific samples**

Survey (Survey Year)	Number of selected respondents	Response Rates (%)	
		Survey Year	Follow-up Survey
<b>National Survey of Older Adults</b>			
China CLHLS (2002)	16,064	96	96
Costa Rica CRELES (2003)	2,827	95	93
England ELSA (2004-05)	8,780	82	75
Mexico MHAS (2001)	13,463	90	93
Multiple-SAGE (2007-08) <sup>a</sup>	37,725	85 and above <sup>b</sup>	N.A.
Netherlands SHARE (2004-05)	2,955	88	89
Puerto Rico PREHCO (2002-03)	4,291	94	94
Taiwan SEBAS (2000)	1,023	68	N.A.
US HRS (2000)	12,527	85	89
<b>Urban Survey of Older Adults</b>			
Multiple-SABE (2000) <sup>a</sup>	10,597	62-95	N.A.
<b>National Household &amp; Community</b>			
China CHNS (2000)	6,452	83	88
Indonesia IFLS (2000)	13,191	95	91
<b>Rural Household &amp; Community</b>			
Bangladesh MHSS (1996)	6,973	95	N.A.
<b>1957 Wisconsin High School Graduates</b>			
US WLS (2004-05)	10,317	92	N.A.
<b>Total</b>	<b>143,968</b>		

*Sources:* Numbers of respondents are from McEniry (forthcoming). Shown are individual response rates for the survey years selected. The numbers of respondents born before 1960 and for whom there were data on age or birth year are presented in the table.

*Notes:*

<sup>a</sup> “Multiple” means that there were multiple countries involved in the survey. SAGE countries include China, Ghana, India, Indonesia, Mexico, Russia, and South Africa. SABE cities include Buenos Aires, Argentina, Bridgetown, Barbados, Sao Paulo, Brazil, Santiago, Chile, Havana, Cuba, Mexico City, Mexico, and Montevideo, Uruguay.

<sup>b</sup> For the most part, all SAGE surveys had a high response rate with the exception of Mexico.

### 1.2.2 Missing values

The reason for and the number of missing responses varies across countries and variables and is an important restriction to meaningful model estimation. Needed is a more careful analysis of missing values to first determine the degree to which the data are missing completely at random (Little, 1988) and then use imputation procedures to impute the data. A preliminary analysis of missing values is described below.

Of the demographic variables included in the surveys, education and income are two variables with a larger degree of missing values (values that made up more than 5% of the data for those born prior to 1945). Older respondents tended to have missing values

for education in China, Indonesia, Costa Rica, Puerto Rico, Mexico, Taiwan, Argentina, Cuba, Bangladesh, and South Africa. In Indonesia, Costa Rica, and South Africa, men tended to have more missing values for education while in England and Ghana women had more missing values. Missing values for education that were above 5% ranged from 6% in Mexico-SAGE and Taiwan to 17% in South Africa. Missing values for household income ranged from 6% in China-SAGE to 33% in the Russian Federation.

That being said, the degree of missing values for early childhood conditions tends to be much more variable across countries as compared with demographic variables. Those who were more likely to produce missing values for birthplace included respondents who were older and from China, Indonesia, Costa Rica, Puerto Rico, the US, Barbados, Brazil, Cuba and Uruguay; respondents who had less education and were from Puerto Rico, Argentina and China; respondents who had more education and were from Indonesia, Mexico, Barbados, Bangladesh and India; respondents who were women and from the US and Mexico; and respondents who were men and from Costa Rica and China. Those who were more likely to produce missing values for height included respondents who were older and from Indonesia, Costa Rica, Puerto Rico, the US, Mexico, England, China, Barbados, Brazil, Cuba, Uruguay, Bangladesh, Netherlands, India, Ghana, South Africa and Russia; respondents who had less education and were from Puerto Rico, the US, Mexico, England, Bangladesh, Netherlands and China; respondents who had more education and were from Indonesia, Brazil, Mexico, Uruguay and Ghana; respondents who were female and from Indonesia, the US, Mexico, Barbados, Uruguay, Bangladesh and Ghana; and respondents who were male and from China.

The childhood conditions variables that had missing values above 5% in many of the countries include: birthplace, parental education, height, and knee height. Missing values for birthplace that were above 5% ranged from 6% in Costa Rica and Mexico-SAGE to 62% in Mexico-MHAS; father's education ranged from 7% in US-WLS to 43% in US-HRS; mother's education ranged from 8% in the Russian Federation and China-SAGE to 36% in Puerto Rico; height ranged from 6% in Chile to 19% in Mexico-MHAS; and knee height ranged from 6% in Chile to 83% in Mexico-MHAS. Mexico-MHAS has high missing values for birthplace because only respondents who had always lived in the community could be identified with a rural/urban birthplace; height and knee height because physical measurements were taken on a subset of the MHAS sample. US-HRS has a high number of missing values for father's education because only a subset of respondents was asked about early life conditions.

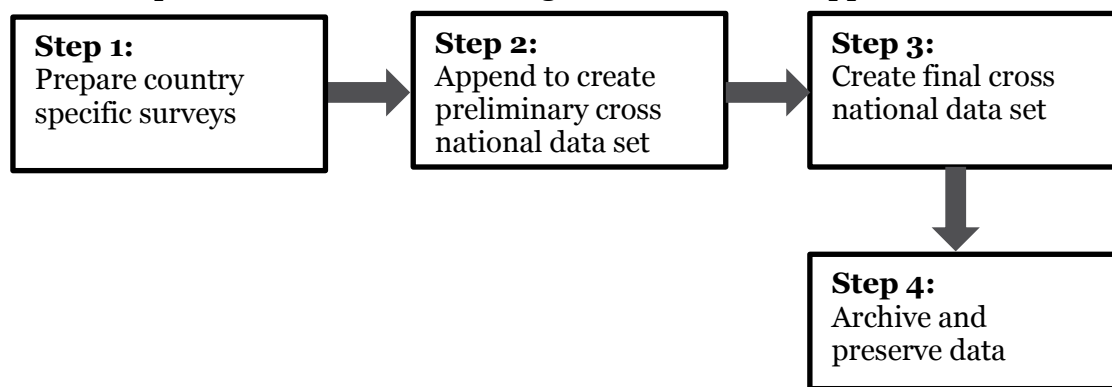
Missing values for smoking tended to occur in older respondents from China, Costa Rica and Mexico; male respondents from the US, Bangladesh, Ghana and China; respondents with more education in the US and South Africa; and respondents with less education in China and Russia. Missing values for smoking that were above 5% ranged from 6% in Mexico-SAGE and US-WLS to 13% in China-CHNS; exercising ranged from 6% in Mexico-SAGE to 38% in China-CHNS; drinking ranged from 6% in Mexico-SAGE to 15% in England; body mass index (BMI) category ranged from 6% in Barbados to 22% in Mexico-MHAS; and yearly visits to a doctor or medical professional ranged from 8% in Bangladesh to 20% in China-SAGE.

Adult heart disease and diabetes show a higher percent of missing values in low income countries. Missing values for heart disease tended to be reported in older respondents from China, Mexico, Bangladesh, Indonesia, the US and Barbados; male respondents from Mexico and Costa Rica; and respondents with less education in Indonesia, Costa Rica, Puerto Rico, Mexico, Brazil and China. For diabetes, a similar pattern emerged: older respondents from China; those with less education from Costa Rica, Puerto Rico, Mexico and China; and male respondents from Mexico and China tended to report more missing values.

Missing values for heart disease/angina that were above 5% ranged from 10% in South Africa to 43% in Indonesia and for diabetes ranged from 6% in Mexico-SAGE to 43% in Indonesia. For other variables closely associated with chronic conditions, the pattern of missing values that were above 5% was: obesity ranged from 6% in Barbados to 22% in Mexico-MHAS; poor health ranged from 6% in Mexico-SAGE to 14% in Puerto Rico; and functionality ranged from 7% in Mexico-SAGE to 21% in China-CHNS. Missing values were high for Indonesia for heart disease and diabetes because questions for heart disease were asked in 2007-08 but not in the baseline used here (2000) and thus there were respondents who were either no longer alive or were lost to follow-up.

## 2. Creation of the cross national data set

Figure 1 below shows the broad steps in the creation of the cross national data set. First, a series of Stata do files was created for each selected data set. Second, country-specific data files were appended together to produce a cross national data set creating additional measures and harmonizing where possible. The third step was to create a finalized version of the cross national data set that contained only relevant variables for cross national analyses. These variables were mostly constructed and harmonized. A final version of country-specific data files was also created which included only original variables. The resulting cross national data set has 147,278 total observations and over 200 variables. Country-specific data files have a different number of variables (Table 2.1). A final step was to deposit the data files with ICPSR at the University of Michigan for archiving and preservation. This process entailed a careful quality review of all data sets for completion of labels and missing information (see Appendix B).



**Figure 1: Steps in creating cross national data set**

## 2.1 Creating country-specific data files

Country-specific Stata do files were created for each of the country surveys. These pulled together all of the applicable data from the country-specific surveys. Table 2.1 shows the resulting country-specific data including sample size, number of variables used from original survey and a brief description of additional variables that may be of interest to researchers. Variables were harmonized where possible. The appendices describe the variables from country-specific surveys that were captured as part of the compilation of the cross national data set. Some original variables were used to construct variables for the cross national data set. Others appear only in the country-specific data files.

**Table 2.1: Country-specific data files**

<b>Country</b>	<b>N</b>	<b># original variables</b>	<b>Additional Variables</b>
China-CLHLS	16,064	141	
Indonesia	13,260	195	Vignettes
Costa Rica	2,827	170	Biomarkers
Puerto Rico	4,291	442	Vignettes
WLS	10,317	268	
HRS	12,527	174	Vignettes
MHAS	13,463	125	
Taiwan	1,023	95	Biomarkers
ELSA	8,780	281	
China-CHNS	6,452	103	
SABE	10,597	169 - 194	
Bangladesh	6,973	172	
Netherlands	2,979	548	Vignettes + section on early life
India	7,150	352	Vignettes
Ghana	4,724	350	Vignettes
China	13,368	336	Vignettes
S. Africa	3,830	348	Vignettes
Mexico	4,142	343	Vignettes
Russia	4,511	351	Vignettes
<b>TOTAL</b>	<b>147,278</b>		

*Notes:* Biomarkers not yet available for public release for SAGE countries and for WLS.

## 2.2 Creating a preliminary cross national data set

Each of the country-specific Stata do files were then appended together to create the preliminary cross national data set. Some country-specific variables were saved that were not used to construct variables and appear only in the country-specific data files. Additional cross national variables were created at this stage: PPP household or individual income; rating of health system according to the World Health Organization (WHO) (2000); and position within the household. Some harmonization of measures occurred during this stage.

### 2.2.1 Harmonization of measures

Survey questions and scaling differed across countries for some selected variables such as self-reported health, childhood health, childhood socioeconomic status (SES), adult functionality, being born and raised in a rural area, residence and education. Appendix C describes the harmonization of selected variables.

## 2.3 Creating a finalized version of the cross national data set

To create the finalized version of the cross national data set, several modifications of the preliminary cross national data set were required. **First**, variable names not already in English were translated into English. **Second**, all variable labels, value labels, and codes for missing values were checked for completion. Variable labels were relabeled where necessary. Consistent value labels were also added to all categorical variables. **Third**, country-specific variables were created to account for differences in scaling of questions. In some instances (e.g. self-reported health, childhood health and childhood SES), questions varied across countries in wording and scaling which created inconsistencies between similar variables' values and value labels. To address this problem, merged variables with inconsistent scaling and/or wording were split into country-specific variables of the form *variable\_country*. **Fourth**, in some instances scales were reversed to make them comparable across countries (e.g. wealth indicator). **Fifth**, selected variables were included in the final version of the cross national data set. Remaining variables were saved in each relevant country-specific data file. The data set was then compressed which changed variable storage types to the least memory-consuming type that did not result in any loss of accuracy.

## 3. Constructed variables for cross national data

Most constructed variables for the cross national data are described in the main text of this report. A few not explicitly mentioned in the main part of this report (e.g. Nagi item push, heavy, IADLs shopping, meals) are described in Appendix C.

### 3.1 Respondent and household IDs, status and where interviewed

Table 3.1 describes the relationship between the constructed and original variables from country-specific surveys for the respondent. A description of relevant original variables can be found in appendices according to country. An **id** variable was created for most countries based on the unique identifier for each country. This was accomplished by first sorting on the unique identifier and then creating *id* with the number sorted using Stata:

```
sort unique identifier  
replace id= _n
```

For sample weights, a general variable call **samplewgt** was created using the variable identified in the survey. **Country** is a variable identifying the country-specific surveys. **Proxy** indicates if a proxy was used to complete the questionnaire. **Province\_** is a constructed variable showing the province or state in which the respondent was



interviewed. **Residence** indicates current residence (urban/rural) of the respondent. Some surveys had a filtering variable to identify the respondents. These variables are identified as constructed variables with **status\_**. Other filtering variables kept the same original name in the final cross national data set. **Wave** shows the baseline survey year selected as part of the cross national data set.

Several variables were constructed to identify birth cohort (**birthcohort**, **birthcohortFIN**, **cohort**). These variables were defined primarily using birth year after eliminating or recoding in some cases strange values for birth year. Birth year did not always exactly match with the respondent's stated age at the time of the survey and so there may be some very minor discrepancies when comparing these variables with age at the time of the survey. In addition, in some instances (PREHCO, SAGE, SABE, ELSA, IFLS, CRELES, CHNS, SEBAS, WLS) missing birth year was estimated using respondents stated age at the time of the survey. This estimation of birth year may also lead to a slight misclassification into birth cohorts. Instances where there were large discrepancies between birth year and age appeared to be minor and thus these discrepancies should not affect analyses.

**Table 3.1: Relationship between constructed variables and original variables for respondent, household IDs, status and where interviewed**

Countries	Constructed Variables/Original Variables			
	<i>Id</i>	<i>samplewt</i>	<i>Residence</i>	<i>proxy</i>
Bangladesh-MHSS	case, person	wt_ind	(see note a)	
China-CHNS	hhid00, line00 (see note b)		t2	
China-CLHLS	id (see note c)	w_2002	Residenc	ra2
Costa Rica-CRELES	idsujeto	ponderador	URBAN	proxy
England-ELSA	idauniq	w2wgt		askpx1
Indonesia-IFLS	hhid00, pid00	pwt00xa (see note d)	sc05	(see note d)
Latin American cities-SABE	var00001 (Argentina), folio (all other SABE)	ponder, ponder1	(see note e)	
Mexico-MHAS	unhhid, ps3	fac_p	Murb	ent_tip
Netherlands-SHARE	Mergeid	w1mci	(see note f)	(see note f)
Puerto Rico-PREHCO	Caseid	fac_t	(see note g)	qjefe
SAGE	id (see note h)	pweight	q0104	q1000b
Taiwan-SEBAS	resp_id	wgt_exam	Rural	i1
US-HRS	HHID, PN	GWGTR		G514
US-WLS	Idpriv			

*Notes:* Most country-specific surveys had a single sample weight variable. These surveys included: Bangladesh, China-CLHLS, Costa Rica, Mexico-MHAS, Puerto Rico, SABE cities, and SAGE countries. The sampling weight used for England-ELSA was specific to the core members of the second wave. For the Netherlands, cross sectional weights (not longitudinal weights) were calibrated for individuals in both the individual and main sample. Imputed sampling weights were not used. The sampling weight used for Taiwan was weighted by age and strata. For US-HRS, a respondent level sampling weight was used. No

sample weights were used for China-CHNS or US-WLS. The original variables for proxy in the Costa Rican and Puerto Rican surveys were redefined in the cross national data as a dichotomous variable.

There were a few instances where there was a variable used for identifying a subset of respondents. This occurred in Bangladesh and the Netherlands with the variable *status*, China-CLHLS with the variable *type* and Indonesia with the variable *main*.

<sup>a</sup> Bangladesh respondents were all living in a rural area at the time of the survey.

<sup>b</sup> The original variable for China-CHNS was *hhid* but it was renamed to *hhidoo\_china* in the cross national data file.

<sup>c</sup> China-CLHLS has a variable *id* but it was renamed *id\_china* to be able to construct a new variable called *id* that would be consistent across countries.

<sup>d</sup> The Indonesian survey has a complex sample design. It has several sample weights depending on longitudinal, cross sectional, household or individuals. The one selected and shown in the table above is the cross sectional person weight for survey year 2000. An alternative weight *pwtooxb* was highly correlated with this weight. Proxies were identified using the proxy file in the Indonesian data file.

<sup>e</sup> All SABE older adults were living in major cities of the Latin American and Caribbean region at the time of the interview.

<sup>f</sup> In the case of the Netherlands data, the Netherlands has the variable *HO037* but response to this question was very low and it was not used to identify current residence. It appears that there is no one variable which indicates whether a proxy was used. Each individual module has an introductory question (1=respondent, 2=respondent& proxy 3=proxy only). In order to figure out whether the person had a proxy, all of these variables would need to be examined.

<sup>g</sup> With Puerto Rican data it is possible to determine the municipality in which they were interviewed but not possible to determine rural/urban residence.

<sup>h</sup> SAGE surveys contain a variable called *id* which uniquely identifies respondents. These variables were recoded in the cross national data set to be *idindia*, *idchina*, *idsafrica*, *idghan*, and *idRussia*. The variables *q0002* and *q1007* also can be used to identify households and individuals although there are missing values for some SAGE countries using these variables.

## 3.2 Demographics

### 3.2.1 Gender, age, marital status and position within the household

Table 3.2 describes the relationship between the constructed and original variables from country-specific surveys for gender, age and marital status. A description of relevant original variables can be found in appendices according to country.

The constructed variable **gender** indicates the sex of the respondent. The constructed variable **age** indicates the respondents' age at the time of the survey. Age was then grouped into the following: **agegroupALL** or **agegroupVer2**. **Civil** indicates marital status and was defined using respondents' self-reported relationship status as currently married, separated, divorced, widowed, or never married. **PositionFIN** indicates the position of the respondent within the household.

**Table 3.2: Relationship between constructed and original variables for gender, age, marital status and position within the household**

Countries	Constructed Variables/Original Variables			
	<i>gender</i>	<i>age</i>	<i>civil</i>	<i>postionFIN</i>
Bangladesh-MHSS	lh09	lh12m, lh12y	lh15	lh03
China-CHNS	gender	west_dob	a8	a5
China-CLHLS	a1	trueage	f41	
Costa Rica-CRELES	id4	age	a3	am5
England-ELSA	indsex	indager	dimar	
Indonesia-IFLS	sex	age_00	marstat	rspndnt
Latin American cities-SABE	c18	a01b	marital	g0401
Mexico-MHAS	sexo	edad	a10	
Netherlands-SHARE	gender	yrbirth, mobirth, int_year, int_month	dn014_	cvid, relrpers, mstat
Puerto Rico-PREHCO	sexo	a1	mari_r1	
SAGE	q1009	q1011	q1012	q1007, q0405_02 – q0405_25 (see note a)
Taiwan-SEBAS	sex	age2000	a1	
US-HRS	G757	G1101	G1158	
US-WLS	sexrsp	ga003re	gc001re	

*Note:* Netherlands age was computed using respondent's birthdate and date of interview.

<sup>a</sup> The variable *q1007* is the respondent number and the #1 position is the household head. Variable *q1007* combined with the series of variables *q0405\_02* through *q0405\_25* was used to compute the household position of respondent (not the household head) in the household (e.g. spouse of head, other).

### 3.2.2 Ethnicity, race and language spoken

Table 3.3 describes the relationship between the constructed and original variables from country-specific surveys for variables relating to ethnicity, race and language. A

description of relevant original variables can be found in appendices according to country.

**Ethnic** indicates different country-specific ethnic categories. **Race** and **Hispanic** are original variables within the HRS study. The constructed variable **langcat** indicates the main language the respondent speaks in his or her home. There were several original variables from country-specific data files that also pertain to ethnicity and language. For example, **Ethniccat** indicates ethnicity category for Indonesia. The variable **langmain** indicates in which language the interview was conducted. **Langothr** indicates any other language used.

**Table 3.3: Relationship between constructed and original variables for ethnicity, race and language**

Countries	Constructed Variables/Original Variables		
	<i>ethnic</i>	<i>hispanic</i>	<i>language</i>
Bangladesh-MHSS			
China-CHNS	a19		
China-CLHLS	a2		
Costa Rica-CRELES			
England-ELSA	fqethnr		
Indonesia-IFLS	dlo1e		dlo1a
Latin American cities-SABE	a12		
Mexico-MHAS			
Netherlands-SHARE			
Puerto Rico-PREHCO	r2		
SAGE	q1018		
Taiwan-SEBAS	ethnicity		
US-HRS	RACE	HISPANIC	
US-WLS			

*Note:* The ethnicity variable *q1018* exists for all SAGE countries. However, value labels only exist for Ghana, India, Mexico and South Africa. Because value labels could not be found for China or Russia, country-specific ethnic variables have not been included for these two countries. See the SAGE Appendix for more detail.

In defining ethnicity, many of the country-specific surveys asked that respondents answer a question which included a list of several different ethnicities from which the respondent was meant to choose. The following are the countries which asked such a question and the ethnic categories available to respondents:

China-CLHLS: Han, Hui, Zhuan, Yao, Korean, Man, Mongolian.

England: white, mixed ethnic group, black, black British, Asian, Asian British, any other group.

Ghana-SAGE: Akan, Ewe, Ga-Adangbe, Gruma, Grusi, Guan, Mande-Busanga, Mole-Dagbon, other.

India-SAGE: Scheduled tribe, Scheduled caste, No caste or tribe

Indonesia: Jawa, Sunda, Bali, Batak, Bugis, Tionghoa, Madura, Sasak, Minang, Banjar, Bima-Dompu, Makassar, Nias, Palembang, Sumbawa, Toraja, Betawi, Dayak, Melayu-Deli, Komering, Ambon, Manado, Aceh, other South Sumatera, other.

Mexico-SAGE: Mixteco, Nahuatl, Zapoteco, other.  
Puerto Rico: black, mulatto/a, mixed or wheat-colored (black or white), white, mestizo/a (Indian or white), other.  
Taiwan: Fukienes, Hakka, mainland, Aborigin.  
SABE cities: white, mestizo (combination of white and indigenous), mulatto (combination of black and white), black, indigenous, Asian, other.  
South Africa-SAGE: white, non-white.  
US-HRS: white/Caucasian, black/African American, Indian, Asian.

In China-CHNS, ethnicity was defined slightly differently. Respondents were asked whether or not they were considered a national minority.

In defining language, the Indonesian survey asked respondents to answer a closed-ended question which included a list of several different languages from which the respondent was meant to choose. The following are the language categories available to Indonesian respondents: Indonesian, Javanese, Sudanese, Balinese, Batak, Bugis, Chinese, Madurancese, Sasak, Minang, Banjar, Bima, Makassar, Nias, Palembang, Sumbawa, Toraja, Lahat, other South Sumatra, Betawi, Lampung, other (specify).

### 3.2.3 Education, income and wealth

Table 3.4 describes the relationship between the constructed and original variables from country-specific surveys for variables relating to education. A description of relevant original variables can be found in appendices according to country.

The constructed variable **yeduca** indicates the (harmonized) number of years of education the respondent has had. **Education** is the harmonized categorized version according to ISCED (2011). Using this variable, dummy variables were constructed. The variable **noschool** indicates whether the respondent has had any formal education. **Primary** indicates whether the respondent attended through primary school or 6<sup>th</sup> grade. **Secondary** indicates whether the respondent attended through secondary school or from 7<sup>th</sup> to 12<sup>th</sup> grade. **Higher** indicates whether the respondent attended higher than 12<sup>th</sup> grade. **Income** was defined as the respondents' yearly per capita household income (household income divided by household size) where possible. Annual per capita income was obtained in the following manner. In the case of household surveys, we used either the household income that was calculated for the user (WLS, HRS, ELSA), used target and spouse income calculated for the user (Mexico-MHAS), used a set of questions to calculate yearly household income (Bangladesh, China-CHNS) or used a calculation of wages provided for Indonesia. For surveys of older adults, we either used one question for target and spouse (Costa Rica), or calculated income based on several questions regarding income for target and spouse (Puerto Rico) or calculated income based on several questions regarding individual income for a randomly selected older adult in the household (SABE). Per capita income was calculated by dividing by household size or in the case of SABE by the number of dependents. We then created a variable called **PPP** in order to make international comparisons. Taking 2000 to be the year of interest, we first converted each country to local 2000 currency using the GDP deflator from the World Bank World Development

Indicators and then converted to PPP (international dollars) using the PPP conversation table published by WHO (2012). From there, the variable *income* was divided into quintiles resulting in the variable **quint**.

**Table 3.4: Relationship between constructed and original variables for education, income and wealth**

Countries	Constructed Variables/Original Variables		
	<i>yeduca, education</i>	<i>income</i>	<i>wealth</i>
Bangladesh-MHSS	edo3, edo6, edo8a	Book II: Sections AI, LI, OFI, FB, NFB, AE, NAE, HRT (see note a)	Book I: Section HC, Book II: Section HA (see note a)
China-CHNS	a11	hhinc_pc	l1, l5, l8, l14of, l115, l110, l105
China-CLHLS	f1	f35 (see note b)	
Costa Rica-CRELES	a2a, a2b	h20, h21, h23, h24, h25, h27	j18, j19, j20, j21, j23, j26, j27-j32
England-ELSA	Edqual	totinc_bu, eqtotinc_bu	sclddr
Indonesia-IFLS	dlo4, dlo6, dlo7	(see note c)	kr13, kr20, kr23, kr24, kr24a
Latin American cities-SABE	Yeduca	Section H (see note d)	j04, j08, j09, j10, j13a-j13d, j121-j123
Mexico-MHAS	a3_3	income_i	j8, j5, j6, j10b – j10f
Netherlands-SHARE	edu, iscedy_r	hgtincv	
Puerto Rico-PREHCO	c10r1	n51* (series of variables)	p13, p19, p20, p21b-p21d, p21g, p21j
SAGE	q1015, q1016, q1017	q0724	q0506, q0508, q0710, q0510, q0711, q0712, q0708, q0511, q0713
Taiwan-SEBAS	educ00	d1, d2	d1, d2
US-HRS	G1074A	GHHINC	
US-WLS	gb103red, gb104red, gb005rec	gp260hec	

*Notes:* The UN definition of education was used to classify educational level: no school, primary (up to 6<sup>th</sup> grade), secondary (7<sup>th</sup>-12<sup>th</sup> grades, lower and upper secondary), and superior (anything over 12 years of education including university) (ISCED, 2011).

In the case of the Netherlands survey, education was imputed (*edu*) and this imputed variable was used to define years of education.

The original variables noted in the income column are for the calculation of household income and not per capita income. Per capita income was obtained by dividing household income by household size.

<sup>a</sup> See Appendix D: Bangladesh for a selection of variables from these sections.

<sup>b</sup> There was only one question that asked about income in the China-CHLHS survey.

<sup>c</sup> Income in the case of Indonesia was estimated by a researcher working with the IFLS project using labor income only. See notes in Appendix I: Indonesia.

<sup>d</sup> See Appendix J: SABE for a selection of variables from this section.

**Wealth\_index** is a wealth indicator based on household characteristics and assets. It varies slightly from country to country as country-specific surveys had different questions for household assets. **Assets** reflects number of possessions and assets and was used to create the wealth index. **Ladder** is a variable reflecting the use of the SES ladder instrument to estimate wealth. In England-ELSA and Taiwan-SEBAS, respondents were asked to imagine the socioeconomic situation of their country as a ladder, with those who are the best off at the top and those who are the worst off at the bottom. The variable *ladder* was then defined as low, the bottom 10%, middle, and high, the top 10% of respondents.

### 3.2.4 Family and household

Table 3.5 describes the relationship between the constructed and original variables from country-specific surveys for variables relating to ethnicity, race and language. A description of relevant original variables can be found in appendices according to country.

**Table 3.5: Relationship between constructed and original variables for family and household**

Countries	Constructed Variables/Original Variables			
	<i>siblings</i>	<i>children</i>	<i>grandchild</i>	<i>hhsiz</i>
Bangladesh-MHSS	sib01a	ch01a		(see note a)
China-CHNS		s122		t6
China-CLHLS	f9	f10		a52
Costa Rica-CRELES		am6		am4
England-ELSA	disib	dhnch	dignmy, dignmyW2, digran, digranW2	hhtot
Indonesia-IFLS		br15		hhsiz
Latin American cities-SABE		a18		g02
Mexico-MHAS		a19		(see note a)
Netherlands-SHARE	dn036_ dn037_	ch001_	ch021_	hhsiz
Puerto Rico-PREHCO SAGE	l20a	d11		c1num q0401
Taiwan-SEBAS				a3a
US-HRS		G1093		G562
US-WLS	gk067ss	gd001kd		ge001he

*Notes:* **Children**, **grandchild**, and **siblings** indicate the number of children, grandchildren, and siblings the respondent has, respectively. The variable **children** was defined slightly differently depending on the question asked in the country-specific survey. There are four variations present in the surveys, all of which were used to define the number of children: (1) the number of children the respondent had given birth to or fathered (which could include stillbirths) (China-CHNS, China-CLHLS, SABE); (2) the number of children living in the respondents' home (England); (3) the respondents' number of live births (Costa Rica, Indonesia, Mexico-MHAS, Puerto Rico, US-HRS); or (4) the number of

living children respondents have, including those that are natural, adopted, fostered, or stepchildren (Bangladesh, Netherlands, US-WLS).

**Grandchildren** was defined as the number of grand- or great-grandchildren the respondent had at the time of the interview.

The variable **siblings** was defined slightly differently depending on the question asked in the country-specific survey. There are two variations present in the surveys: (1) the number of siblings, living or dead (China-CLHLS, Puerto Rico, US-WLS); (2) the number of living siblings only (Bangladesh, England, Netherlands).

<sup>a</sup> **Hhsize** indicates the number of people living in the household. Household size was computed in some cases. For example, in Bangladesh, researchers claim that they identified everyone in the home through the roster. Therefore, household size was taken to be the sum of the individuals listed in the roster for each household identified by the variable **case**. A similar procedure was used in the following surveys: MHAS, CHNS and HRS.

### 3.3 System

#### 3.3.1 WHO rating of health care systems

The constructed variable **hscore** is based on the numerical rating given by the World Health Organization (2000). Higher numbers indicate a worse rating of a country's health care system.

**Table 3.6: WHO rating of health care systems**

<b>Countries</b>	<b>Rating</b>
Bangladesh	88
China	144
Costa Rica	36
England	18
Indonesia	92
Latin American cities-SABE	33-125
Mexico	61
Netherlands	17
Puerto Rico	37
SAGE countries	112-175
Taiwan	--
US	37

*Notes:* Individually, SABE countries are rated as follows: Argentina (75), Barbados (46), Brazil (125), Chile (33), Cuba (39), Mexico (61), Uruguay (65). SAGE countries are rated as follows: India (112), Ghana (135), China (144), South Africa (175), Russian Federation (130). WHO did not provide a rating for Taiwan.

### 3.4 Early life conditions

#### 3.4.1 Birthplace and timing of birth

Table 3.7 describes the relationship between the constructed and original variables from country-specific surveys for early life conditions. A description of relevant original variables can be found in appendices according to country.



The constructed variable **born** indicates whether the respondent was born in the country where the survey was administered. The variable **bplace\_** describes the municipality, province or state in which the respondent was born. Not all surveys had a question on born within the country or birthplace. **RuralFIN** is a harmonized variable and indicates if the respondent spent their childhood in a rural area. **Region** indicates the agricultural region of birth for Puerto Rico. **Birthmonth** and **birthyear** were constructed from survey variables. In some instances when birth year was missing it was later estimated from the age and interview date (SAGE, SABE, Indonesia, CR, Taiwan, ELSA, CHNS, and WLS).

Thereafter the variable **quarter** was constructed which indicated the birth quarter of the year. Dummy variables were also created indicating birth quarter (**quarter1**, **quarter2**, **quarter3** and **quarter4**). **IMRbirth** is a country-specific variable for Puerto Rico (PREHCO) indicating municipality-specific IMR at birth in the late 1920s - early 1940s.

**Table 3.7: Relationship between constructed and original variables for birthplace**

Countries	Constructed Variables/Original Variables			
	<i>born</i>	<i>bplace_</i>	<i>ruralFIN</i>	<i>birthmonth, birthyear</i>
Bangladesh-MHSS	mg02		mg02, mg04	lh11m, lh11y
China-CHNS	a20, a21 (see note a)	a20, a21 (see note a)	t2 (see note a)	west_dob (see note b), u1
China-CLHLS	a41	a41	a41, a43	v_bthyr, v_bthmon, a41
Costa Rica-CRELES	a22a, pc	pc	pc	id2b, id2c
England-ELSA	pobr, countr, fqbthr (see note c)			indobyr
Indonesia-IFLS	mg01ex	dl01b	mg04a, mg08	bth_mnth, us02mth, bth_year2000
Latin American cities-SABE	a02		a02, a04b	a01am, a01aa
Mexico-MHAS	a21		murb, a21	a1_2, a1_3
Netherlands-SHARE	dn004_			mobirth, yrbirth
Puerto Rico-PREHCO	a3	a3m_2_update	o1, o2	a2_m, a2_a
SAGE	q1024, q1020, q0104		q1024, q1020, q0104	q1010_mm, q1010_yyyy (see note d)
Taiwan-SEBAS	ethnicity			bir_m, yrbirth
US-HRS	USBORN	G1061M (see note e)	G1125 (see note f)	BIRTHMO, BIRTHYR
US-WLS	ie003re	ie003re	rlur5 (see note g)	cmbdrx

Notes:

<sup>a</sup> The variables *a20* and *a21* in the questionnaire indicate birthplace. However, an explanation for the coding of these variables cannot be located in any written documentation on the CHNS website. Thus, the variables *born* and *bplace\_* for CHNS could not be properly identified. There was no question asked specifically about childhood residence in the CHNS study. However, there was a variable *t2* referring to current residence. Assuming small amount of migration in some regions, this variable could be used to reflect rural childhood.

<sup>b</sup> Date of birth using the western calendar was available (*west\_dob*). From this variable birth year and birth month were computed. Age was also computed and any missing values from this computation were completed by using the variable *u1* which was provided by the CHNS study. The final variable *u1* was then used to estimate birth year in cases where there were missing values.

<sup>c</sup> There were several variables used to identify if the respondent was born in the UK. These include the three variables listed in the table.

<sup>d</sup> There were slight variations in the definition of birth year for South Africa, Russia and Mexico (*q1010\_yy*).

<sup>e</sup> The information for birthplace and being born in a rural area variable is incomplete within the cross national data set because it was asked the first time the respondent was interviewed in HRS. Thus, for the HRS 2000 survey year, this information will be missing for individuals who were previously surveyed.

<sup>f</sup> HRS asked residence during childhood for only for a subset of respondents.

<sup>g</sup> WLS does not have a variable which defines US state born for all 10,317 respondents. Variable *ie003re* contains only a subset of WLS respondents. However, the variable *ie0031re* suggests that the number of foreign born WLS respondents is very low. Thus, *ruralFIN* is defined using only information from *rlur5*. This definition is different from how *ruralFIN* was coded in other surveys.

### 3.4.2 Childhood health

Table 3.8 describes the relationship between the constructed and original variables from country-specific surveys for early life childhood health. Mother's education is thought to be very closely associated with childhood health and so is listed here in this table. A description of relevant original variables can be found in appendices according to country. Several surveys had additional variables reflecting childhood environment. See for example PREHCO, MHAS, WLS, and SHARE-LIFE (Wave 3) in the country-specific appendices of this report.

The variables **childhealth\_** provide the country-specific definitions used to report childhood health. **Poorhealth** is the rating by respondents of their childhood health. It is harmonized because not all countries had the same scaling for the question regarding self-reported health (see Appendix C for more detail). **Mothereduc\_** is a country-specific variable indicating how mother's education was defined in a particular country. **Motheroccup\_** is a country-specific variable defining mother's occupation. **Hunger, tb, asthma, malaria, rheumatic** indicate whether a respondent experienced hunger, had tuberculosis, asthma, malaria or rheumatic fever as a child. Not all countries had questions regarding specific illnesses in childhood. Some did appear in the country-specific data files but not in the cross national data file.

Mother’s education was defined as her level of education completed. Their educational level was grouped by having had no formal education or as attending primary school, secondary school, or more than secondary school. No school was defined as zero years of education. Primary school was defined as completing any level of education through the sixth grade. Secondary school was defined as completing any level of education from seventh through twelfth grade. More than secondary school was defined as completing anything higher than twelfth grade.

**IMR** is the country-specific infant mortality rate in 1930. **IMR\_PR** was constructed to reflect the IMR in Puerto Rico according to the birthplace (municipality) of the respondent. **Riskdiab** is based on the variable *g109* from the Puerto Rican survey has information regarding if respondent’s parents or siblings have diabetes.

**Table 3.8: Relationship between constructed and original variables for childhood health**

Countries	Constructed Variables/Original Variables				
	<i>childhealth</i>	<i>poorhealth</i>	<i>hunger</i>	<i>mothereduc</i>	<i>motheroccup</i> (see note a)
Bangladesh-MHSS				(see note b)	(see note b)
China-CHNS					
China-CLHLS			f66		
Costa Rica-CRELES	in2	in2		a18	
England-ELSA					difjob
Indonesia-IFLS				ba07am, ba08m	ba13m
Latin American cities-SABE	c27	c27	c30		
Mexico-MHAS		a8		f1	
Netherlands-SHARE	(see note c)	(see note c)	(see note c)	(see note c)	(see note c)
Puerto Rico-PREHCO SAGE	h14	h14		h6c q1028	h6d q1025, q1026
Taiwan-SEBAS					
US-HRS	(see note d)	(see note d)		(see note d)	
US-WLS	ixc01rer	ixc01rer		edm057q	

Notes:

<sup>a</sup> Mother occupation was available in some surveys (e.g. Bangladesh, England, Indonesia, Netherlands, SAGE, Puerto Rico) but in instances such as Puerto Rico information was largely missing. A constructed variable was created with information from selected countries such as SAGE and Indonesia only (motheroccup). Occupational codes for mother will need to be reviewed in surveys from Bangladesh, Netherlands and ELSA.

<sup>b</sup> Mother education was compiled in Bangladesh using several pieces of information asked in the survey regarding parents who were alive and lived in the same household, parents living in another household, and parents who were dead (Book 3, section ed1 variables edo3,edo6, edo8a, lho3, paro2m).

<sup>c</sup> Much more detailed information about childhood conditions is available from the SHARE data. See Appendix L: Netherlands for more information.

<sup>d</sup> In 1996, HRS had a module covering childhood conditions that not all people answered. In subsequent waves, these questions were included. Childhood health in HRS was identified according to the wave in which it was first asked respondents from 1996, 1998 and 2000. The same note pertains to parental education.

### 3.4.3 Childhood nutrition

Table 3.9 describes the relationship between the constructed and original variables from country-specific surveys for early life childhood health. A description of relevant original variables can be found in appendices according to country.

**Table 3.9: Relationship between constructed and original variables for childhood nutrition**

Countries	Constructed Variables/Original Variables	
	<i>height</i>	<i>knee, sitting height, leg length</i>
Bangladesh-MHSS	ca05cm, ca05mm	
China-CHNS	height	
China-CLHLS		g102b
Costa Rica-CRELES	k4b, k4c	k5b, k5c
England-ELSA	htval, htok	sithgt
Indonesia-IFLS	us04	
Latin American cities-SABE	ko5 (see note a)	ko6 (see note a)
Mexico-MHAS	l4, c72	l8
Netherlands-SHARE	ph013_	
Puerto Rico-PREHCO	u1_p	u5_p, wu6l1, wu6l2
SAGE	q2506	
Taiwan-SEBAS	height	
US-HRS	(see note b)	
US-WLS	ix010rec	

Notes:

<sup>a</sup> Variables for SABE-Cuba were slightly different because three values were recorded for each of the anthropometric measures.

<sup>b</sup> Height (self-reported) was obtained in HRS in the first interview where an older adult participated in HRS. To obtain height for all respondents several waves of HRS were reviewed.

The constructed variable **height** indicates the respondents' measured height in centimeters. The variable **knee** indicates the measured knee height (while respondent is seated, measured from the floor to the top of their knee) in centimeters. **Leg** is a variable created to reflect leg length. Leg length for Puerto Rico comes from the second wave only (*wu6l1*, *wu6l2*) and for ELSA from sitting height.

In most cases height and weight were measured by a person in the research team. In some cases, height and weight were self-reported. This occurred, for example, in WLS, HRS, and the Netherlands. This also occurred in MHAS where all respondents were asked to self-report height and weight but height and weight was also measured in a subset of respondents. In the case of MHAS the construction of height and weight

reflected measured variables where possible and then self-reported when measured was not available. Several self-reported variables for MHAS are depicted by adding a capital “S” after height, weight, obesity, and BMI variables.

From height, knee height and leg length several indicator variables were created. **Height25NEW** indicates the quartile of height to which the respondent belongs. **Knee25NEW** and **leg25NEW** indicate the quartile of knee height and leg length, respectively, to which the respondent belongs. Leg25NEW was constructed from the ELSA survey and used the variable **leg** which indicates a respondents’ leg length in centimeters. **Stunt** was a variable to identify stunting as defined according to NHANES (Centers for Disease Control and Prevention, 1998; Beltrán-Sánchez, et al., 2011).

### 3.4.4 Childhood socioeconomic status

Table 3.10 describes the relationship between the constructed and original variables from country-specific surveys for early life childhood SES. A description of relevant original variables can be found in appendices according to country.

**Table 3.10: Relationship between constructed and original variables for childhood SES**

<b>Countries</b>	<b>Constructed Variables/Original Variables</b>		
	<i>poorcecon</i>	<i>fathereduc</i>	<i>fatheroccup</i>
Bangladesh-MHSS		(see note a)	(see note a)
China-CHNS			
China-CLHLS			f84
Costa Rica-CRELES	in1		
England-ELSA			difjob, difjobW2
Indonesia-IFLS		ba07ap, ba08p	ba13p
Latin American cities-SABE	c26		
Mexico-MHAS	a7	f8	
Netherlands-SHARE			isco_fa (see note b)
Puerto Rico-PREHCO	h1	h3a	rcode_h4 (see note b)
SAGE		q1032	q1029, q1030
Taiwan-SEBAS			
US-HRS	(see note c)	(see note c)	(see note c)
US-WLS		edfa57q	ocf57

Notes:

<sup>a</sup> Father education was compiled in Bangladesh using several pieces of information asked in the survey regarding parents who were alive and lived in the same household, parents living in another household, and parents who were dead (Book 3, section ed1 variables ed03, ed06, ed08a, lh03, paro2f). Variables used to identify parental occupation are available in the Stata code for Bangladesh which is available upon request.

<sup>b</sup> SHARE and PREHCO used the International Labor Organization’s ISCO-88 standard classification of occupations (1996-2012).

<sup>c</sup> In 1996, HRS had a module covering childhood conditions that not all people answered. In subsequent waves, these questions were included. Child SES in HRS was identified according to the wave in which it was first asked respondents from 1996, 1998 and 2000.

The constructed harmonized variable **poorcecon** indicates the childhood SES standing according to the older adult respondent. In several surveys from Latin America and the Caribbean region and the US, a retrospective question asked respondents to rate their childhood SES. Surveys used a different scale to define childhood SES, through all of them ranged from good to bad. From the retrospective question, the variable poor childhood SES was defined as a dichotomous variable (poor/average childhood SES or good childhood SES). In surveys in which the retrospective question was not asked, other childhood conditions were used to define childhood SES. In Mexico-MHAS, childhood SES was defined as whether or not a respondent had a toilet in their home as a child. This variable was a dichotomous variable (yes/no). **Fathereduc\_** and **fatheroccup\_** is country-specific according to how the question about father occupation was asked.

### 3.5 Adult lifestyle

#### 3.5.1 Adult smoking

Table 3.11 describes the relationship between the constructed and original variables from country-specific surveys for adult smoking. A description of relevant original variables can be found in appendices according to country.

Smoking was defined as only cigarette smoking for England, US-HRS, US-WLS, Puerto Rico-PREHCO (100 cigarettes or more), Taiwan, Mexico-MHAS, and China-CHNS. In the remaining countries, smoking was defined in the following manner:

Netherlands: Respondent smoked cigarettes, cigars, cigarillos, or a pipe daily for at least one year.

SABE cities: General smoking question. Follow-up question asks about number of cigarettes, cigars, or pipes smoked per day.

Costa Rica: Respondent smoked more than 100 cigarettes or cigars during his/her lifetime.

SAGE countries: Respondent smoked tobacco products such as cigarettes, cigars, pipes, chewing tobacco, snuff, or smokeless tobacco.

Bangladesh: Respondent smoked hookah, biri, cigarettes, or cigars. Smoking was defined as smoking a hookah (an object used to smoke tobacco, typically), hand rolled cigarettes and cigarettes/cigars. Variables pertaining to smoking items other than tobacco smoking such as chewing PAN (betal leaf) are contained within the country-specific data file for Bangladesh.

China-CLHLS: General smoking question.

Indonesia: Respondent smoked cigarettes or cigars.

**Smoke\_** is a country-specific variable with slight differences in the wording of the smoking questions. Questions regarding adult smoking varied across countries in wording and scaling as to whether the respondent had ever smoked, smoked in the past or currently smoked.

Countries with identical wording and scaling for adult smoking were combined into the variables **smoke\_gen** and **smoke\_100**. **Smoke\_gen** combines Argentina, Bangladesh, Barbados, Brazil, Chile, China-CHNS, China-CLHLS, China-SAGE, Cuba, England, Ghana, India, Indonesia, Mexico-MHAS, Mexico-SABE, Mexico-SAGE, Netherlands, Russia, South Africa, Uruguay and US-WLS. **Smoke\_100** combines Costa Rica, Puerto Rico and US-HRS. **Smoke\_taiw** is specific to Taiwan. **Smoke** is a harmonized version of *smoke\_*. It is a dichotomous variable that indicates if the respondent ever smoked or not. Appendix C provides a table describing the questions selected from the surveys regarding smoking.

**Table 3.11: Relationship between constructed and original variables for adult smoking**

<b>Countries</b>	<b>Constructed Variables/Original Variables</b>
Bangladesh-MHSS	<i>spn01b, spn02b, spn01c, spn02c, spn01d, spn02d</i>
China-CHNS	<i>u25, u27</i>
China-CLHLS	<i>d71, d72</i>
Costa Rica-CRELES	<i>ev8, ev10</i>
England-ELSA	<i>smkevr, hesmk, heska, heskaW2</i>
Indonesia-IFLS/ Latin American cities-SABE	<i>km01a, km02, km04</i> <i>c24</i>
Mexico-MHAS	<i>c54, c55</i>
Netherlands-SHARE	<i>br001_, br002_</i>
Puerto Rico-PREHCO	<i>g161, g162</i>
SAGE	<i>q3001, q3002</i>
Taiwan-SEBAS	<i>smk</i>
US-HRS	<i>V298, V501, W452, D942, E942, F1266, G1400 (see note a)</i>
US-WLS	<i>ixt01rer, ix012rer, ixto7rer</i>

*Notes:*

<sup>a</sup> A question about every smoking for HRS was asked once during the first wave in which the older adult participated in the HRS study. Thus, several waves of HRS were reviewed to obtain information about respondents in the year 2000.

### 3.5.2 Adult exercise

Table 3.12 describes the relationship between the constructed and original variables from country-specific surveys for adult exercise. A description of relevant original variables can be found in appendices according to country.

Exercise refers to the respondents who indicated that they participate in some type of exercise. In US-HRS, SABE cities, Costa Rica, Puerto Rico, and Mexico-MHAS, this is defined as vigorous physical activity (including sports, heavy work, or other physical work) three or more times a week. In the Netherlands, England, and US-WLS, this is defined as vigorous physical activity, without a specified timeframe. In the remaining countries, exercise was defined in the following manner:

SAGE countries: Respondent participates in vigorous-intensity activity that causes large increases in breathing or heart rate (e.g. heavy lifting, digging, chopping wood) for at least 10 minutes continuously.

Taiwan: Respondent participates in exercise (not defined further).

China-CLHLS: The type or degree of exercise is not specified in survey.

China-CHNS: Respondent participates in heavy or very heavy physical activities during the work day in a week (e.g. farmer, athlete, dancer, steel worker, lumber worker, mason, etc.).

Bangladesh: Survey does not ask about exercise behaviors.

Indonesia: Survey does not ask about exercise behaviors.

**Exercise** is a country-specific description of exercise. Questions regarding adult exercise varied across countries in wording and scaling as to the respondents' level of vigorous exercise. A variable called **exercise\_rigor** was created for cases where surveys had similar concepts for vigorous exercise (CRELES, PREHCO, HRS, MHAS, ELSA, SABE, CHNS, MHAS, SHARE, SAGE). A variable was created **exercise\_WLS** to indicate that exercise was determined from question regarding how many hours per month a respondent exercised. In China and Taiwan a more general question about exercise was asked and so a variable **exercise\_gen** was created (SEBAS, CLHLS).

From the country-specific variables a harmonized dichotomous variable (**exercise**) was then created to indicate if the person exercised or not. Indonesia and Bangladesh had no information for adult exercise. Appendix C provides a table describing the questions selected from the surveys regarding exercise.

**Table 3.12: Relationship between constructed and original variables for adult exercise**

<b>Countries</b>	<b>Constructed Variables/ Original Variables</b>
Bangladesh-MHSS	<i>exercise</i>
China-CHNS	u142
China-CLHLS	d91, d92
Costa Rica-CRELES	ev14
England-ELSA	heacta
Indonesia-IFLS	
Latin American cities-SABE	c25a
Mexico-MHAS	c53
Netherlands-SHARE	br015_
Puerto Rico-PREHCO	g167
SAGE	q3016, q3025
Taiwan-SEBAS	b8
US-HRS	G1395
US-WLS	ixe02rer



### 3.5.3 Adult alcohol consumption

Table 3.13 describes the relationship between the constructed and original variables from country-specific surveys for adult alcohol consumption. A description of relevant original variables can be found in appendices according to country.

Drinking refers to the respondents who indicated that they drink alcoholic beverages. The timeframes for drinking habits varied, anywhere from drinking in the last three months (SABE cities, Puerto Rico), the last six months (Netherlands, Taiwan), the last year (England, China-CHNS), to anytime in their lifetime (US-HRS, US-WLS, Costa Rica, Mexico-MHAS). In the remaining countries, drinking was defined in the following manner:

- SAGE countries: Respondent drank an alcoholic beverage in their lifetime (past drinker) or in the last 30 days (present drinker).
- China-CLHLS: Respondent drinks alcohol at present or drank alcohol in the past.
- Bangladesh: Survey does not ask about drinking behaviors.
- Indonesia: Survey does not ask about drinking behaviors.

From the country-specific variables a harmonized dichotomous variable (**drink**) was created to indicate if the person ever drinks alcohol or not. Respondents in the Bangladesh and Indonesia surveys were not asked about alcohol consumption. Appendix C provides a table describing the questions selected from the surveys regarding exercise.

**Table 3.13: Relationship between constructed and original variables for adult alcohol consumption**

Countries	Constructed Variables/ Original Variables
Bangladesh-MHSS	<i>drink</i>
China-CHNS	u40
China-CLHLS	d81, d82
Costa Rica-CRELES	ev1
England-ELSA	scako
Indonesia-IFLS	
Latin American cities-SABE	c23
Mexico-MHAS	c60
Netherlands-SHARE	bro10_
Puerto Rico-PREHCO	g155
SAGE	q3007, q3008
Taiwan-SEBAS	alc
US-HRS	G1415
US-WLS	ixab01re

*Notes:* Some surveys such as ELSA have a quite detailed drinking history (e.g. *scal7a-7b*, *scdri\**). These variables appear in the country-specific data for ELSA and are listed Appendix H.

### 3.5.4 Adult diet

There are no constructed variables for adult diet. Several surveys had questions on adult diet including China-CHNS, China-CLHLS, Costa Rica, Puerto Rico-PREHCO, Taiwan-SEBAS, SAGE and SABE.

The China-CHNS Community Survey includes extensive information on household diet. In China-CLHLS, respondents were asked several questions regarding their diet. Survey staff collected data on the respondents' staple food, consumption of fruits and vegetables, frequency of consumption of a variety of foods including meat, fish, and eggs, and preparation of water drunk. Costa Rican respondents were asked about their consumption of major food groups in the last 10 years. Puerto Rican respondents were asked how many complete meals they eat per day to measure diet. In Taiwan, adult diet was defined with a dichotomous variable (yes/no) asking whether respondents eat three vegetables and two fruits a day and a dichotomous variable (yes/no) asking whether respondents drink milk every day. The SAGE survey asked respondents about their consumption of fruits and vegetables as well as how frequently they go hungry. In SABE, diet was measured using several questions. Data were collected on respondents' consumption of major food groups as well as whether the respondent goes hungry and considers him/herself well-nourished.

### 3.5.5 Health care utilization

Table 3.5.5 describes the relationship between the constructed variable **healthuse** and original variables from country-specific surveys for health care utilization. A description of relevant original variables can be found in appendices according to country. Appendix C also provides questions used to construct this variable across countries.

**Table 3.5.5: Relationship between constructed and original variables for health care utilization**

<b>Countries</b>	<b>Constructed Variables/ Original Variables</b>
	<i>healthuse</i>
Bangladesh-MHSS	oc01_1- oc01_16
China-CHNS	---
China-CLHLS	f61
Costa Rica-CRELES	f15
England-ELSA	---
Indonesia-IFLS	rj00a
Latin American cities-SABE	f031
Mexico-MHAS	d8_5
Netherlands-SHARE	hc002_
Puerto Rico-PREHCO	k25
SAGE	q5026
Taiwan-SEBAS	b13
US-HRS	G2603- G2606
US-WLS	ixhio1re

Notes: Most surveys had a questions regarding health utilization over the time period of one year. CHNS had a question about health utilization during the last month and so was not included.

### 3.6 Adult health outcomes

#### 3.6.1 Self-reported health

Table 3.14 describes the relationship between the constructed and original variables from country-specific surveys for adult self-reported health. A description of relevant original variables can be found in appendices according to country.

**Table 3.14: Relationship between constructed and original variables for self-reported health**

Countries	Constructed Variables/ Original Variables	
	<i>health</i>	<i>poorhealth</i>
Bangladesh-MHSS	gh01	gh01
China-CHNS	u48a	u48a
China-CLHLS	b12	b12
Costa Rica-CRELES	c1	c1
England-ELSA	hehelp	hehelp
Indonesia-IFLS	kk01	kk01
Latin American cities-SABE	c01	c01
Mexico-MHAS	c1	c1
Netherlands-SHARE	srhealtha	srhealtha
Puerto Rico-PREHCO	g1	g1
SAGE	q2000	q2000
Taiwan-SEBAS	b1	b1
US-HRS	G1226	G1226
US-WLS	gx201re, ix001rer	

Adult health was defined using a general question asking respondents to rate their current state of health. Surveys used a different scale to define self-reported health, ranging from excellent to poor health. **Health<sub>i</sub>** is country-specific or survey-specific depending on similarities in the scaling of the question. **Poorhealth** was harmonized based on the different scales for self-reported health (see Appendix C).

In addition to self-reported health variables, there are three variations of an indicator of good health: **goodhealth**, **goodhealth2**, **goodhealth3**. The indicator is a composite measure of good health following closely the approach used in the creation of an international recognized generic indicator of health status, the Short- Form (SF)-12. The SF-12 is a series of 12 questions which measures physical and mental health dimensions based on 3-item or 5-item scales. Its validity and reliability has been well tested across many different countries (McDowell, 2006). In the case of the selected countries for the cross national data set, the SF-12 questions were not asked in all the surveys. However, it was possible to create an indicator of “good health” that was more objective in nature rather than relying, for example, solely on questions of self-reported health. The indicator of health status called **goodhealth** included three dimensions:

(1) self-reported health; (2) BMI; and (3) frailty (functionality). To combine the three dimensions of health into a composite index of good health a simple rule was followed in the SF-12 (McDowell, 2006): for each respondent the non-missing number of responses for all three dimensions of health was summed and then rescaled all responses to a 0-100 scale, normalizing the scale to the minimum and maximum sum possible within the non-missing items. To have a valid score for good health, respondents had to have at least two non-missing responses. Very preliminary analysis of this measure has shown that it has good construct validity (McEniry, 2009). Modifications of **goodhealth** included adding a fourth dimension for chronic conditions (specifically heart disease and diabetes) (**goodhealth2**) and including only BMI and functionality (**goodhealth3**).

### 3.6.2 Functionality/disability

Table 3.15 describes the relationship between the constructed and original variables from country-specific surveys for adult functionality/disability. A description of relevant original variables can be found in appendices according to country.

There is no consensus on the definition of frailty (Bergman et al., 2007; Rockwood & Mitnitski, 2007), but physical limitations questions are used as one reasonable definition of frailty. Activities of Daily Living (ADLs) reflect impairments associated with underlying conditions that induce physiological limitations and deterioration and provide a useful benchmark to calibrate demand for care, assistance, and support. ADLs are good probes of physical functioning, particularly lower body functionality (Smith, Branch & Scherr, 1990), and reflect impairment created by chronic conditions as well as cognitive and affective functioning (Stump, Clark, Johnson, & Wolinsky, 1977; Wray, Herzog & Park, 1996; Wray & Lynch, 1998).

**NadlGTo**, **NadlGTo\_alt** and **NiadlGTo** are country-specific functionality items since countries differed in terms of inclusion of functionality items. Functionality was based on ADLs developed by Katz and Akpom (1976) and defined by **NadlGTo**, disability scales developed by Nagi (1976) and defined by **NadlGTo\_alt** and Instrumental Activities of Daily Living (IADLs) developed by Lawton and Brody (1969) and defined by **NiadlGTo**.

A harmonized version of the Katz and Akpom items was constructed called **NadlGToharm**. ADLs were harmonized according to Pluijm et al. (2005) by selecting items in common across most countries (**bathing, dressing, toileting** and **transferring**). In the case of countries which do not have a particular item (Costa Rica—difficulty in dressing, Indonesia—toileting and transferring, and China-CHNS—transferring), items were constructed using Nagi physical performance measures following guidelines developed by Pluijm et al. (2005). Country-specific Cronbach alpha and the Kuder-Richardson coefficient of reliability (Kuder & Richardson, 1937) were used to test the internal consistency and the reliability of the items. A dichotomous variable was defined for reporting at least one ADL (1=at least one difficulty, 0=none) and then the construct validity was assessed by examining the country-specific relationship between disability and age group. Results from harmonizing the ADLs show

very good country-specific reliability and validity of the harmonized ADL measure. In all countries, (1) internal consistency was very high (kr20 ranged from 0.66-0.93); (2) age was significantly associated with reporting at least one ADL; and (3) there were significant associations between poor self-reported health and disability. In most countries there were significant associations between disability and adult heart disease, diabetes and obesity.

**Table 3.15: Relationship between constructed and original variables for functionality/disability**

Countries	Constructed Variables/Original Variables		
	<i>NadlGTo</i>	<i>NadlGTo_alt</i>	<i>NiadlGTo</i>
Bangladesh-MHSS	gh09J-gh09M	gh09A-gh09I	
China-CHNS	u167, u169, u171, u172, u173	u157-u166	u174, u175, u176, u177, u178
China-CLHLS	e1-e6	e11-e13	e7-e10, e14
Costa Rica-CRELES	d6, d8, d11, d13, d16, d19	d2-d4	d21, d23, d25, d27
England-ELSA	headb01-headb13 (see note a)	heada01-heada10	headb01-headb13 (see note a)
Indonesia-IFLS	kk03f, kk03h	kk03a- kk03e, kk03i, kk03j, kk03g	
Latin American cities-SABE	d11, d13a, d14a, d15a, d16a, d17a	do2-d10, do1a, do1b, do1c	d18a-d25a
Mexico-MHAS	h15_1, h13, h16_1, h12, h17_1, h18_1, h19_1 (see note b)	h1-h11	h26_1, h27_1, h28_1, h29_1
Netherlands-SHARE	ph049d1-ph049d6	ph048d1-ph048d10	ph049d7-ph049d13
Puerto Rico-PREHCO	i9-i14		i1-i7
SAGE	q2037, q2038, q2041 - q2044	q2025 - q2031, q2034 - q2036, q2040	q2032, q2033, q2045, q2046, q2039
Taiwan-SEBAS	b7_1 - b7_6	b5_1 - b5_9	b6_1 - b6_6
US-HRS	G2725, G2723, G2742, G2752, G2762, G2775	G2689, G2690, G2692, G2695, G2698, G2701, G2704, G2707, G2710, G2713, G2716, G2719	G2860, G2916, G2865, G2870, G2875
US-WLS		ixcho3re - ixcho9re	

*Note:* Many surveys have performance measures which can be used to confirm self-reported functionality (see Appendix C or country specific appendices for more detail). Appendix C also provides more detail

regarding the components of ADLs, IADLs and Nagi items used across surveys. Constructing functionality variables for ADLs was not straightforward in some cases such as US-HRS due to complex skip patterns embedded in the survey instrument.

<sup>a</sup> In the ELSA survey, the variables *headb01-headb13* contained values corresponding to both ADLs and IADLs.

<sup>b</sup> In MHAS survey, the variable *h12* (picking up a coin from the table) was used to complement the ADL for difficulty with eating. For those who had no difficulty picking up a coin, they also were identified as having no difficulty with eating.

### 3.6.3 Chronic conditions

Table 3.16 describes the relationship between the constructed and original variables from country-specific surveys for adult functionality. A description of relevant original variables can be found in appendices according to country.

Survey data on older adults use self-reported questions to estimate the prevalence of chronic conditions. Respondents were asked if they had ever been diagnosed by a medical professional with certain conditions. In some cases, surveys have biomarkers or symptoms questions which help address the problem of underestimation of self-reported health. CRELES, SEBAS and SAGE have biomarker data. The SAGE surveys have symptom questions for some chronic conditions based on validated measures which complement self-reported health. There are other surveys which have symptom questions (PREHCO) but SAGE has complete symptom questions based on the Rose (1962, 1977) questionnaire.

Chronic conditions of interest to the cross national data set include hypertension, diabetes, cancer, lung disease, heart disease, tuberculosis, stroke, arthritis, osteoporosis, and heart attack. Each of these conditions was defined with a dichotomous variable (the respondent has/does not have the chronic condition). From responses to self-reports, variables for major chronic conditions were constructed: **hypertension, cancer, respiratory, heart, heart\_2, angina, heart\_attack, diabetes, stroke, and arthritis**. From these variables, country-specific variables were constructed which reflect the number of chronic conditions (**Nchronic**) and if the respondent reported at least one chronic condition (**onechronic**).

In some countries, there are additional chronic conditions. For example, in China-CLHLS, Indonesia, and Mexico-MHAS respondents were asked to identify if they had tuberculosis (*g15f2*, *cd05c*, *a9a* respectively). SABE respondents were asked to identify if they had osteoporosis (*c11e*). Several countries had questions regarding depression. Puerto Rico had a variable indicating heart attack (*g35*). SAGE surveys include asthma (*q4033*). See Appendix C and country-specific appendices for more information.

### 3.6.4 Anthropometric measures

Table 3.17 describes the relationship between the constructed and original variables from country-specific surveys for adult anthropometric measures such as weight, waist and hip (height, knee height and leg are reported earlier in the table on childhood

nutrition). **Weight** indicates the respondents' measured weight in kilograms. **Waist** and **hip** indicate the respondents' measured waist and hip in centimeters.

Height and weight measurements or self-reported values were obtained for more surveys of older adults. From height and weight, a variable reflecting body mass index and dichotomous variables for obesity were created (**bmi**, **bmiS**, **bmi\_cat**, **obesity**, and **obesityS**). **Bmi** indicates the respondents' body mass index (calculated using weight/height<sup>2</sup>). **Bmi\_cat** categorizes respondents into body mass index categories (severely underweight, underweight, normal, overweight, and obese). WLS has a variable called *ix011rec* which is a variable for BMI already calculated by survey staff. **Obesity** was a dichotomous variable (0-not obese, 1-obese) calculated from the constructed variables *bmi* and *bmi\_cat* and defined as obese for respondents with a BMI greater or equal to 30. A description of relevant original variables can be found in appendices according to country.

**Table 3.17: Relationship between constructed and original variables for anthropometric measures**

<b>Countries</b>	<b>Constructed Variables/Original Variables</b>		
	<i>weight</i>	<i>waist</i>	<i>hip</i>
Bangladesh-MHSS	ca07gm, ca07km		
China-CHNS	weight	u10	u9
China-CLHLS	g101		
Costa Rica-CRELES	k3b, k3c	k6b, k6c	k7b, k7c
England-ELSA	wtval, wtok	wstval, wstokb	hipval, hipokb
Indonesia-IFLS	us06	us06a	us06b
Latin American cities-SABE	k11 (see note a)	k08 (see note a)	k09 (see note a)
Mexico-MHAS	l3, c71	l5	l6
Netherlands-SHARE	ph012_		
Puerto Rico-PREHCO	u4_l	u2_p	u3_p
SAGE	q2507	q2508	q2509
Taiwan-SEBAS	weight	waist	hip
US-HRS	G1425		
US-WLS	ix009rer		

*Notes:* in most surveys, trained personnel from survey staff took measurements for different anthropometric features such as height, knee height, weight, hip and waist. The following surveys had only self-reported height and weight: HRS, WLS, and the Netherlands. MHAS had self-reports for most respondents and a subset where trained interviewers took measurements.

<sup>a</sup> Variables for SABE-Cuba were slightly different because three values were recorded for each of the anthropometric measures.

**Table 3.16: Relationship between constructed and original variables for key chronic conditions**

Countries	Constructed Variables/Original Variables						
	<i>hypertension</i>	<i>diabetes</i>	<i>cancer</i>	<i>respiratory</i>	<i>heart</i>	<i>stroke</i>	<i>arthritis</i>
Bangladesh-MHSS		cm01_8		cm01_7			cm01_2
China-CHNS	u22	u24a			u24j	u24l	
China-CLHLS	g15a2	g15b2	g15i2	g15e2	g15c2	g15d2	g15n2
Costa Rica-CRELES	c4	c10	c18	c22	c32, c26	c35	c41
England-ELSA (see note a)	hediao1- hediao7	hediao1- hediao7	hedibo1- hedibo5	hedibo1- hedibo4	hediao1- hediao7	hediao1- hediao7	hedibo1- hedibo4
Indonesia-IFLS (see note b)	cd05A (see note b)	cd05B (see note b)	cd05I (see note b)	cd05E (see note b)	cd05F (see note b)	cd05H (see note b)	cd05J (see note b)
Latin American cities-SABE	c04	c05	c06	c07	c08	c09	c10
Mexico-MHAS	c4	c6	c12	c19	c22	c27	c34
Netherlands- SHARE	ph006d2	ph006d5	ph006d10	ph006d6	ph006d1	ph006d4	ph006d8
Puerto Rico- PREHCO	g4	g8	g24	g31	g36 (see note c)	g40	g49
SAGE	q4060	q4022		q4025	q4014- q4020 (see note d)	q4010	q4001
Taiwan-SEBAS	b4a_1	b4a_2	b4a_5	b4a_6	b4a_3	b4a_4	b4a_7
US-HRS	G1238	G1245	G1262	G1279	G1289	G1309	G1327
US-WLS	gx341re	gx342re	gx348re	ix089rer, ix085rer	gx351re	gx356re	gx360re

*Notes:*

<sup>a</sup> The identification of chronic conditions is complicated in ELSA. To determine whether ELSA identified a chronic condition, the first wave had to be reviewed. Then, from the second wave (or the baseline for the cross national data set), all chronic conditions had to be double checked to see if respondents were still reporting the same condition. ELSA uses identical variables from wave to wave in some cases. In the cross national data, variables were renamed with wave identifiers. For example, the variables *hedia\** and *hedib\** from wave 1 are now *W1hedia\** and *W1hedib\**. If there were discrepancies between wave 1 and wave 2, the *hedian\** and *hediam\** variables were used to verify the reason for such discrepancies.

<sup>b</sup> Chronic conditions for the Indonesia survey taken from the 2007 survey. Most of the other data regarding Indonesia is from the 2000 survey.

<sup>c</sup> Puerto Rico also has a question asking about heart attack.

<sup>d</sup> SAGE *heart* variable includes a self-reported question but also several symptom questions based on the Rose questionnaire (1962, 1977).



### 3.6.5 Mortality

Table 3.18 describes the relationship between the constructed and original variables from country-specific surveys for adult mortality. Indicated also are the countries where mortality data were available. A description of relevant original variables can be found in appendices according to country.

**Table 3.18: Relationship between constructed and original variables for adult mortality**

Countries	Constructed Variables/Original Variables		Mortality data available?
	<i>deadFIN</i>	<i>Other variables found in country-specific files</i>	
Bangladesh-MHSS	(see note a)		Yes
China-CHNS	dod, t7_00, t7_06, dod_rpt		Yes
China-CLHLS	d5vyear	d5vyear, v_bthyr	Yes
Costa Rica-CRELES	muerto		Yes
England-ELSA <sup>c</sup>	mortfin	yrdeath, agedead2, maincod, mortwave	Yes
Indonesia-IFLS	diedo7		Yes
Latin American cities-SABE			No
Mexico-MHAS	fallecido03	sa6	Yes
Netherlands-SHARE	deadoralive		Yes
Puerto Rico-PREHCO	tipo_e (see note b)	cause_recode_72	Yes
SAGE			No
Taiwan-SEBAS			No
US-HRS	KALIVE, NYEAR		Yes
US-WLS <sup>c</sup>	deatyr, deatmn	gw006ifc, livgrad, deatmn, ndi01-ndi46	Yes

Notes:

<sup>a</sup> Dead was identified from mortality data given to author for use in the cross national data. No original variable is available.

<sup>b</sup> The variable *tipo\_e* is from the PREHCO questionnaire. This information was complemented with NDI data to identify deceased respondents.

<sup>c</sup> In WLS and ELSA, all observations are coded as either dead or “assumed to be alive.”

A variable **dead** includes an identification of missing values if there were any (-1). In the case of ELSA and WLS for the years covered it appears that there were no missing values. The variable **deadFIN** assumes that missing are alive and thus eliminates the category of missing. Additional variables relating to death (date of death, cause of death) are indicated in the table where these data were available. In Puerto Rico, the cause of death was defined by the National Death Index (NDI) using the International Statistical Classification of Diseases and Related Health Problems codes (ICD-9) including but not

limited to heart disease, cancer, respiratory, diabetes, cerebrovascular, atherosclerosis, infection, Alzheimer's disease, renal failure, accidents, digestive, ill defined, and other.

In all countries with mortality data, mortality rates can be computed based on interview and death dates if available.

#### 4. References

Beltrán-Sánchez H, Crimmins EM, Teruel GM, Thomas D. (2011). Links Between Childhood and Adult Social Circumstances and Obesity and Hypertension in the Mexican Population. *J Aging Health*. 23, 1141. doi: 10.1177/0898264311422255.

Bergman, H., et al. (2007). Frailty: An Emerging Research and Clinical Paradigm—Issues and Controversies. *Journal of Gerontology*, 62A(7), 731-737.

Brenes, G. (2008). The effect of early life events on the burden of diabetes mellitus among Costa Rican elderly: estimates and projections. PhD Dissertation. University of Wisconsin—Madison.

Centers for Disease Control and Prevention. (1998). *Pediatric nutrition surveillance, 1997 full report*. Atlanta, GA: U.S. Department of Health and Human Services & Centers for Disease Control and Prevention.

CRELES research team, personal communication, fall 2011.

Gertler, P., Frankenberg, E., & Karoly, L. Indonesia Family Life Surveys (IFLS). Los Angeles, CA: University of California-Los Angeles [distributor], accessed 2009-07-27. <http://www.rand.org/labor/FLS/IFLS.html>.  
<http://www.rand.org/labor/FLS/IFLS/access2.html>.

Goldman, N., Weinstein, M., Chang, M-C., Lin, H-S., Chang, Y-L., Lin, S-J., & Wu, S-I. Social Environment and Biomarkers of Aging Study (SEBAS) in Taiwan, 2000 and 2006. ICPSR03792-v5. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2003, accessed 2007-01-12. <http://www.icpsr.umich.edu/icpsrweb/NACDA/studies/03792/version/5>.

Gu, D. (2007). General Data Quality Assessment for the 2005 CLHLS wave. Center for the Study of Aging and Human Development. CLHLS Technical Report No. 2007-1.

Gu, D. (n.d.). General Data Quality Assessment of the CLHLS. In Y. Zeng, D.L. Poston, D.A. Vlosky, and D. Gu (Eds.), *Healthy Longevity in China: Demographic, Socioeconomic, and Psychological Dimensions* (pp. 39-59). Dordrecht, The Netherlands: Springer.

Herd, P., Hauser, R.M., Herd, P., & Sewell, W.H. Wisconsin Longitudinal Study (WLS) [graduates, siblings, and spouses]. 1957-2005 Version 12.27 [machine-readable data

file]. Madison, WI: University of Wisconsin-Madison, WLS [distributor], accessed 2012-07-01. <http://www.ssc.wisc.edu/wlsresearch/>,  
<http://www.ssc.wisc.edu/wlsresearch/documentation/>.

International Epidemiological Association. (2012). Cohort Profile: The China Health and Nutrition Survey—monitoring and understanding socioeconomic and health change in China, 1989-2011. Table 2. CHNS response rates at the individual and household levels.

<http://ije.oxfordjournals.org/content/early/2009/11/03/ije.dyp322/T2.expansion.html>

International Labour Organization (ILO). (1996-2012). ISCO: International Standard Classification of Occupations: Welcome to the ISCO website.

<http://www.ilo.org/public/english/bureau/stat/isco/index.htm>.

International Standard Classification of Education (2011).

[http://www.uis.unesco.org/Education/Documents/UNESCO\\_GC\\_36C-19\\_ISCED\\_EN.pdf](http://www.uis.unesco.org/Education/Documents/UNESCO_GC_36C-19_ISCED_EN.pdf).

Juster, F.T. & Willis, R.J. Health and Retirement Study (HRS). University of Michigan: Institute for Social Research [distributor]: accessed 2008-07-01, accessed 2012.

<http://hrsonline.isr.umich.edu/>.

Katz, S., & Akpom, C.A. (1976). Index of ADL. *Medical Care*, 14, 116-118.

Kuder, G.F., & Richardson, M.W. (1937). The theory of the estimation of test reliability. *Psychometrika*, 2, 151-60.

Lawton MP, Brody EM. (1969). Assessment of older people: self-maintaining and instrumental activities of daily living. *Gerontologist* 9:179-186.

Little, R.J.A. (1988). A test of missing completely at random for multivariate data with missing values. *Journal of the American Statistical Association*, 83(404), 1198-1202.

Mannheim Research Institute for Economics of Ageing (MEA). Survey of Health, Ageing and Retirement in Europe (SHARE). Research Data Center [distributor], accessed 2011-05-12. <http://www.share-project.org/>, <http://www.share-project.org/data-access-documentation.html>.

McDowell, I. (2006). *Measuring Health: A Guide to Rating Scales and Questionnaires*. New York, NY: Oxford University Press, Inc.

McEniry, M. 2009. "Mortality decline in the Twentieth Century, early life conditions and the health of aging populations in the developing world." Working paper #2009-04, Center for Demography & Ecology, University of Wisconsin-Madison.

Menken, J. & Phillips, J.F. (1990). Population change in a rural area of Bangladesh, 1967-87. *Annals of the Academy of Political and Social Science* 510, 87-101.

Mexican health and aging study (MHAS). (2003). Overview.  
[http://www.mhas.pop.upenn.edu/english/project\\_ov.htm](http://www.mhas.pop.upenn.edu/english/project_ov.htm)

Nagi, S.Z. (1976). An Epidemiology of Disability among Adults in the United States. *The Milbank Memorial Fund Quarterly. Health and Society*, 54(4), 439-467.

National Centre for Social Research (NatCen), University College London, & Institute for Fiscal Studies (IFS). English Longitudinal Study of Ageing (ELSA). Economic and Social Data Service [distributor], accessed 2011-03-29. <http://www.ifs.org.uk/ELSA>, <http://www.esds.ac.uk/longitudinal/access/elsa/15050.asp>.

Office for National Statistics. (2007). Longitudinal studies (October 07). South Wales: Office for National Statistics.

Omran, A.R. (1971). The epidemiologic transition: A theory of the epidemiology of population change. *The Milbank Memorial Fund Quarterly*, 49(4), 509-37.

Palloni A, Peláez M. (n.d.) Survey on Health and Well-Being of Elders-SABE. Page 28. SABE (2003).

Palloni, A. (1981). Mortality in Latin America: Emerging patterns. *Population and Development Review*, 7(4), 623-649.

Palloni, A., & Dávila, A.L. Puerto Rican Elderly: Health Conditions (PREHCO), Wave 1, 2002-2003. QM-504-001-1-2-United States-DISC-2002. Madison, WI: Data and Information Services Center, University of Wisconsin-Madison [distributor], accessed 2007-07-17. <http://prehco.rcm.upr.edu/>, [http://www.disc.wisc.edu/archive/prehco/index\\_prehco1.html](http://www.disc.wisc.edu/archive/prehco/index_prehco1.html).

Palloni, A., & Dávila, A.L. Puerto Rican Elderly: Health Conditions (PREHCO), Wave 2, 2006-2007. QM-504-002-1-2-Puerto Rico-DISC-2006. Madison, WI: Data and Information Services Center, University of Wisconsin-Madison [distributor], accessed 2007-07-17. [http://www.disc.wisc.edu/archive/prehco/index\\_prehco2.html](http://www.disc.wisc.edu/archive/prehco/index_prehco2.html).

Palloni, A., McEniry, M., Wong, R., & Peláez, M. (2007). Ageing in Latin America and the Caribbean: Implications of Past Mortality. Proceedings of the United Nations Expert Group Meeting on Social and Economic Implications of Changing Population Age Structures, pp. 253-284, 31 Aug-2 Sept, 2005, in Mexico City, Mexico.

Pelaez, M., Palloni, A., Albala, C., Alfonso, J.C., Ham-Chande, R., Hennis, A., et al. SABE – Survey on Health, Well-Being, and Aging in Latin America and the Caribbean, 2000. ICPSR03546-v1. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2004-08-13, accessed 2010-04-30. <http://www.ssc.wisc.edu/sabe/home.html>, doi:10.3886/ICPSR03546.v1

Pluijm, S.M., Bardage, C., Nikula, S., Blumstein, T., Jylhä, M., Minicuci, N., Zunzunegui, M.V., Pedersen, N.L., & Deeg D.J. (2005). A harmonized measure of activities of daily living was a reliable and valid instrument for comparing disability in older people across countries. *J. Clin Epidemiol*, 58(10), 1015-23.

Popkin, B.M., Du, S., Zhai, F., & Zhang, B. (2009). Cohort Profile: The China Health and Nutrition Survey—monitoring and understanding socioeconomic and health change in China, 1989-2011. *Int J Epidemiol*. Doi:10.1093/ije/dyp322.

Rahman O, et al. (1999). The 1996 Matlab Health and Socioeconomic Survey: Overview and User's Guide. RAND Corporation. DRU-2018/1-NIA.  
<http://www.rand.org/pubs/drafts/DRU2018z1.html>.

Rahman, O., Menken, J., Foster, A., & Gertler, P. Matlab [Bangladesh] Health and Socioeconomic Survey (MHSS), 1996. ICPSR02705-v5. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2008-04-25.  
<http://www.rand.org/labor/FLS/MHSS.html>,  
<http://www.icpsr.umich.edu/icpsrweb/NACDA/studies/02705/version/5>.

RAND Survey Meta Data Repository. (1994-2011). Welcome to the Survey Meta Data Repository. <https://mmicdata.rand.org/megametadata/>.

Research on Early Life and Aging: Trends and Effects (RELATE). (2013). PI M. McEniry. Produced and distributed by the University of Michigan: Institute for Social Research, ICPSR [distributor]. Anticipated release date: Summer 2013.

Rockwood, K., & Mitnitski, A. (2007). Frailty in Relation to the Accumulation of Deficits. *Journal of Gerontology*, 62A, 7, 722-727.

Rose, G., Reid, D.D., Hamilton, P.J.S., McCartney, P., Keen, H., & Jarrett, R.J. (1977). Myocardial Ischaemia, Risk Factors and Death from Coronary Heart Disease. *Lancet*, 309(8003), 105-109.

Rose, G.A. (1962). The Diagnosis of Ischaemic Heart Pain and Intermittent Claudication in Field Surveys. *Bulletin of the World Health Organization*, 27, 645-658.

Rosero-Bixby, L., FernándeX, X., & Dow, W.H. CRELES: Costa Rican Longevity and Healthy Aging Study, 2005 (Costa Rica Estudio de Longevidad y Envejecimiento Saludable). ICPSR26681-v2. Ann Arbor, MI: Inter-university Consortium for Political and Social Research; Costa Rica: The Central American Population Center [distributor], accessed 2007-07-09.  
<http://www.icpsr.umich.edu/icpsrweb/NACDA/studies/26681/version/2>.

SAGE research team, personal communication, Spring 2012.

Smith, L.A., Branch, L.G., & Scherr, P.A. (1990). Short-term variability of measures of physical function in older people. *Journal of American Geriatric Society*, 38, 993-998.

Soldo, B.J., Wong, R., Palloni, A., & Instituto Nacional de Estadística, Geografía e Informática (INEGI). Mexican Health and Aging Study (MHAS). Mexican Health and Aging Study [distributor], accessed 2008-05-29.

<http://www.mhas.pop.upenn.edu/english/home.htm>,

<http://www.mhas.pop.upenn.edu/english/documentation.htm>.

Strauss, J. (2004). *Indonesian Living Standards: Before and After the Financial Crisis*. Santa Monica, CA: Rand Corporation.

Stump, T.E., Clark, D.O., Johnson, R.J., & Wolinsky, F.D. (1977). The structure of health status among Hispanic, African American, and white older adults. *Journals of Gerontology*, 52B(Special Issue), 49-60.

University of North Carolina-Chapel Hill. The Carolina Population Center, National Institute of Nutrition and Food Safety, & Chinese Center for Disease Control and Prevention. China Health and Nutrition Survey (CHNS). ICPSR176. Chapel Hill, NC: University of North Carolina [distributor], accessed 2010-02-11.  
<http://www.cpc.unc.edu/projects/china/data>.

Westat, prepared by. Prepared for, US Department of Health and Human Services, Office of the Assistant Secretary for Planning and Evaluation, and Office of Human Services Policy. (2006). Health and Retirement Study (HRS).

<http://aspe.hhs.gov/hsp/o6/catalog-ai-an-na/HRS.htm>.

Wong R, Espinoza M. (2004). Response Rates in the Mexican Health and Aging Study (MHAS/ENASEM) 2003. Project Report. Page 8.

World Bank. (2011). How We Classify Countries. <http://data.worldbank.org/about/country-classifications>. Accessed 2008.

World Health Organization (WHO). (1977). *International Statistical Classification of Diseases and Related Health Problems*. Geneva, Switzerland: World Health Organization.

World Health Organization (WHO). (2000). *The world health report 2000. Health systems: improving performance*. Geneva, Switzerland: World Health Organization.

World Health Organization (WHO). (2012). *Choosing Interventions that are Cost Effective (WHO-CHOICE): Purchasing Power Parity 2005*.

<http://www.who.int/choice/costs/ppp/en/index.html>.

World Health Organization (WHO). SAGE: WHO Study on global AGEing and adult health (SAGE). World Health Organization [distributor], accessed 2011.

<http://www.who.int/healthinfo/systems/sage/en/index1.html>,  
<http://www.who.int/healthinfo/systems/sage/en/>.

Wray, L.A., & Lynch, J.W. (1998). The role of cognitive ability in links between disease severity and functional ability in middle-aged adults. Presented at the Annual Meetings of the Gerontological Society of America, in Nov, in Philadelphia, PA.

Wray, L.A., Herzog, A.R., & Park, D.C. (1996). Physical Health, Mental Health, and Function Among Older Adults. Presented at the Annual Meetings of the Gerontological Society of America, in Nov, in Washington, DC.

Yi, Z., Vaupel, J.W., Zhenyu, X., Yuzi, L., & Chunyuan, Z. Chinese Longitudinal Healthy Longevity Survey (CLHLS), 1998-2005. ICPSR24901-v2. Center for the Study of Aging and Human Development: Duke University. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2009-06-19.  
[http://centerforaging.duke.edu/index.php?option=com\\_content&view=article&id=115&Itemid=152](http://centerforaging.duke.edu/index.php?option=com_content&view=article&id=115&Itemid=152), <http://centerforaging.duke.edu/survey-datasets>.

## **Appendix A: Original Funding Sources for Studies Included in the First Public Release of the RELATE Data**

For the China Health and Nutrition Study (**CHNS**), whose data is included as part of this data collection, funding was obtained via the National Institute of Nutrition and Food Safety, China Center for Disease Control and Prevention, Carolina Population Center (5 R24 HD050924), the University of North Carolina at Chapel Hill, the National Institutes of Health (NIH) (R01-HD30880, DK056350, R24 HD050924, and R01-HD38700) and the Fogarty International Center. Further, the China-Japan Friendship Hospital, Ministry of Health provided support for the CHNS study in 2009. Funding from these sources supported the CHNS data collection and analysis files from 1989 to 2011 and future surveys.

For the Chinese Longitudinal Healthy Longevity Survey (**CLHLS**), whose data is included as part of this data collection, funding was provided by the National Institute of Aging (NIA)/NIH grants R01 AG023627-01 (PI: Zeng Yi) (Grant name: Demographic Analysis of Healthy Longevity in China) and P01 AG 008761 (PI: Zeng Yi; Program Project Director: James W. Vaupel), awarded to Duke University, with Chinese matching support for personnel costs and some local expenses. UNFPA and the China Social Sciences Foundation provided additional support for expanding the 2002 CLHLS survey. The Max Planck Institute for Demographic Research has provided support for international training since the CLHLS 1998 baseline survey. Finally, in December 2004 the China Natural Sciences Foundation and the Hong Kong Research Grants Council (RGC) partnered with NIA/NIH, providing grants to partially support the CLHLS project.

The Costa Rican Longevity and Healthy Aging Study (**CRELES**), whose data is also included as part of this data collection, was conducted by the University of Costa Rica's Centro Centroamericano de Población in collaboration with the Instituto de Investigaciones en Salud, with the support of the Wellcome Trust (grant 072406). The Principal Investigator is Luis Rosero-Bixby, with Co-Principal Investigators Xinia Fernández (University of Costa Rica) and William H. Dow (University of California, Berkeley).

For the Puerto Rican Elderly (**PREHCO**) study, whose data is included as part of this data collection, funding was obtained by NIA grant R01 AG1620901A2.

For the Survey on Health, Well-Being, and Aging in Latin America and the Caribbean (**SABE**) study, whose data is included as part of this data collection, the Center for Demography and Ecology at the University of Wisconsin-Madison supported the necessary activities towards the implementation of The SABE Research and partially sponsored Dr. Alberto Palloni's participation. An Inter-Agency Agreement between the Pan American Health Organization and The National Institute on Aging partially supported the technical advisory activities with preparation of a database and preliminary analyses. In addition, a grant from The National Institute on Aging allowed for Dr. Palloni's participation in technical consultation activities at the University of Wisconsin-Madison. Finally, the SABE website was developed with assistance and funding from the Center for Demography of Health and Aging.

For the World Health Organization (WHO) Study on Global Ageing and Adult Health (**SAGE**), whose data is included as part of this data collection, Wave II (conducted between 2007 and 2008) was supported by WHO and the Division of Behavioral and Social Research at the US National Institute on Aging, through Interagency Agreements (OGHA 04034785; YA1323-08-CN-0020; Y1-AG-1005-01).

For the Wisconsin Longitudinal Study (**WLS**), whose data is included as part of the data collection, funding since 1991 has been supported principally by the National Institute on Aging (AG-9775 and AG-21079), with additional support from the Vilas Estate Trust, the National Science Foundation, the Spencer Foundation, and the Graduate School of the University of Wisconsin-Madison. A public use file of data from the



Wisconsin Longitudinal Study is available from the Wisconsin Longitudinal Study (Address: University of Wisconsin-Madison, 1180 Observatory Drive, Madison, Wisconsin 53706) as well as via the WLS study website.

## Appendix B: Archiving and Preservation

Step #	Abstract	Details
<b>Stage 1: Pre-Processing Review Stage</b>		
<b>1.1</b>	Convert file to SPSS; create syntax; produce frequencies	Use StatTransfer for the conversion; Open SPSS, then paste datafile to create syntax; generate a frequency output file by running SPSS through Unix.
<b>1.2</b>	Review frequencies; make list of issues requiring follow-up; compare frequencies with appendices	Review the frequency output file (.sps.out), create an excel spreadsheet noting the filename, the problematic variable, and the issue that needs to be resolved. This can be done to document discrepancies with the appendix too.
<b>Stage 2: Processing Stage</b>		
<b>2.1</b>	Fix issues that can be fixed using materials deposited by PI	To resolve discrepancies between the PI-supplied appendices and the datafile, refer to the original data questionnaires. Use track changes to modify the appendix. To modify the data/the labeling scheme, modify the SPSS syntax file.
<b>2.2</b>	Contact PI / PI research assistant for assistance in resolving remaining issues	Provide a modified excel spreadsheet that includes the data filename, the problematic variable, and a brief description of the problem
<b>2.3</b>	Incorporate PI / PI research assistant feedback; make changes	This step will require making additional modifications to the SPSS syntax. If the changes needed are extensive, it might necessitate sending the frequencies back to the PI/PI research assistant for a second review
<b>Stage 3: Quality-Check (QC) Stage</b>		
<b>3.1</b>	Conduct an internal QC; Have 2-3 people review frequencies	Preliminary QCs requires temporary employees/research technicians to review the frequencies and, if issues are spotted, to attempt to resolve the issues. At this point, issues should be minor, necessitating little feedback from the PIs.
<b>3.2</b>	Send files to PI and the DSDR Archive Manager for QCs	These include updated frequencies and the modified appendices.
<b>3.3</b>	Make any final modifications to the data based on the PI and Archive Manager QCs	This step will require making additional modifications to the SPSS syntax.
<b>Stage 4: Hermes Stage</b>		
<b>4.1</b>	Run Hermes; fix any issues with Hermes	Hermes is an internal ICPSR program that takes our processed datafile (input) and produces data and setup files in SAS, SPSS, Stata, and R format. It also produces a PDF codebook with frequencies and a data completeness report. Sometimes errors occur when running Hermes, and these need to be resolved before proceeding.
<b>4.2</b>	Conduct Hermes tests	Setup files produced by Hermes need to be QC-ed using a standardized testing plan. Usually no issues arise, but occasionally errors need to be resolved and Hermes must be run again.
<b>Stage 5: Metadata / Documentation Compilation Stage</b>		
<b>5.1</b>	Compile the study metadata	Metadata is the study description, and ICPSR has a template that is used to compile this based on documentation supplied by the PI. This is the description that will appear in the study's page on the ICPSR website.
<b>5.2</b>	Send metadata for approval; obtain documentation covers	The metadata template must be approved by the ICPSR metadata editors; PDF document covers for the ICPSR-generated codebook(s) and any documentation provided by the PIs that will be released must be obtained from the editors.
<b>5.3</b>	Compile the study documentation	Once covers are obtained, they must be merged with the ICPSR-generated codebook(s) and any documentation provided by the PIs.
<b>5.4</b>	Obtain approval of documentation	Documentation must be submitted to the documentation editors for approval.
<b>Stage 6: Turnover Stage</b>		

<b>6.1</b>	Compile a turnover directory	A turnover directory, complete with the Hermes-generated datafiles and setup files, PDF documentation, and processing history (syntax) files is compiled.
<b>6.2</b>	Conduct a turnover quality check; obtain turnover authorization	An internal program (turnqa) can be run to QC the turnover directory. If the quality-checks pass, then turnover authorization is requested from the Archive Manager.
<b>6.3</b>	Turnover study	An internal program (turnover -s) is run to turnover the study.
<b><i>Stage 7: Preservation / Study Update Stage</i></b>		
<b>7.1</b>	Maintain the study files in a secure location	Study files are organized in a secure data environment (SDE) and are preserved; no datafiles are deleted, and processing history files serve as a record of the modifications made to the data.
<b>7.2</b>	Update study as needed	The study can be updated by modifying existing data, removing parts of the data, or adding more data. Study updates undergo the exact same process as new studies.

*Note:* Table compiled by Tommaso Pavone, Research Technician Senior at Data-Sharing for Demographic Research (DSDR), 5-8-2013.

## Appendix C: Harmonization of Key Variables

### OVERVIEW

Table C1 shows a description of the major variables within the cross national data set. The “X”s in the table indicate that a country asked questions from which the corresponding variables could be constructed. Below the table describes a cross national comparison of some of the selected variables and the questions and in some cases the scales used.

<b>Table C1: Summary of Key Variables</b>				CLHLS	Indonesia	Costa Rica	Puerto Rico	WLS	HRS	MHAS	Taiwan	ELSA	CHNS	SABE	Bangladesh	Netherlands	SAGE	
				1	2	3	4	5	6	7	8	9	10	11-17	18	19	20-25	
Countries																		
variable																		
ALL																		
<b>Overall</b>	id		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	samplewgt			x	x	x	x		x	x	x	x		x	x	x	x	
<b>Demographic</b>	country	country	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	gender	gender	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	age	age	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	demographic regime	regime	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	health system	hscore	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	current residence	residence		x	x	x				x	x	x	x	x	x		x	
	ethnicity	ethnic_		x	x		x		x		x	x	x	x			x	
<b>Early Life</b>	height (cm)	height		x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	weight (kilos)	weight	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	waist	waist			x	x	x			x	x	x	x	x			x	
	knee (cm)/leg length	knee, leg		x		x	x			x		x		x				
	month of birth	quarter		x	x	x	x	x	x	x	x		x	x	x	x	x	
	rural birthplace	ruralFIN		x	x	x	x	x	x	x			x	x	x		x	
	father education	fathereduc			x		x	x	x	x					x		x	
	father occupation	fatheroccup		x	x		x	x	x			x			x	x	x	
	mother education	mothereduc			x	x	x	x		x					x		x	
	mother occupation	motheroccup			x		x					x			x	x	x	
	childhood health	poorhealth				x	x	x	x	x				x				
	poor child SES	poorcecon				x	x		x	x				x				
	other conditions			x	x	x	x	x	x	x				x		x		
<b>Adult SES</b>	education	education	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	HH income	yeduca	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	wealth	income	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
		wealth_index			x	x	x			x	x	x	x	x	x		x	
<b>Adult Lifestyle</b>	smoking	smoking1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	drinking	drinking1		x		x	x	x	x	x	x	x	x	x		x	x	
	exercise	exercise1		x		x	x	x	x	x	x	x	x	x		x	x	
	health use	healthuse		x	x	x	x	x	x	x	x			x	x	x	x	
	diet			x		x	x				x		x	x			x	
<b>Health Outcomes</b>	self-reported health	health	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	heart	heart		x	x	x	x	x	x	x	x	x	x	x		x	x	
	diabetes	diabetes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	obesity	obesity			x	x	x	x	x	x	x	x	x	x	x	x	x	
	ADLs (Katz)	NadlGTo		x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	Nagi items	NadlGTo_alt		x	x	x		x	x	x	x	x	x	x	x	x	x	
	IADLs	NiadlGTo		x		x	x		x	x	x	x	x	x		x	x	
	performance measures			x	x	x	x		x	x		x		x		x	x	
	other chronic conditions			x	x	x	x	x	x	x	x	x	x	x	x	x		
	biomarkers					x		x	x							x	x	
	mortality	deadFIN		x	x	x	x	x	x	x		x	x		x	x		
<b>Depression and Cognition</b>	Depression CES-D (mood)			x	NO	x	x	x	x		x	NO	x	NO			x	
	Cognition			x	NO	x	x	x	x	x		x	NO	x	NO	x	x	

*Notes:* Argentina-SABE did not have values for height, weight, waist, knee/leg or obesity.

Taiwan did not have a continuous income variable, but does use an SES ladder variable. The same ladder variable was used to evaluate wealth.

England used an SES ladder variable to determine wealth.

Indonesian health outcomes for heart conditions are from the 2007 survey (rather than the 2000 survey).

Regarding other life course factors, in addition to information about early life conditions all of the named surveys contain comprehensive information that reflect conditions in adulthood (e.g. migration, adult occupation, medicines taken, health care utilization, transfers, housing as an adult and/or property owned). Check the country-specific questionnaires for more information for a particular survey.

Other major chronic conditions are listed in Table C16 below.

Note that while the above table identifies depression and cognition availability across surveys, variables for these dimensions are not yet included in the cross national data set.

Mother occupation was available in some surveys (e.g. SAGE, Indonesia, Puerto Rico, Netherlands, ELSA, and Bangladesh) but in instances such as Puerto Rico information was largely missing. A constructed variable was created with information from selected countries such as SAGE and Indonesia only (motheroccup). Occupational codes for mother will need to be reviewed in surveys from Bangladesh, Netherlands and ELSA.

## DEMOGRAPHICS

**Residence.** The harmonized measure **residence** indicates if the respondent’s residence was urban or rural at the time of the survey. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C2: Original variable, question, original variable scale and corresponding residence scale**

Country	Variable	Question	Scale	Residence
Bangladesh-MHSS <sup>a</sup>		n/a, all rural respondents		
China-CHNS	t2	Urban Site.	1-urban site	0-urban
China-CLHLS	residenc	Current residence area of interviewee.	2-rural site	1-rural
			1-city	0-urban
			2-town	0-urban
			3-rural	1-rural
Costa Rica	URBAN	Living in urban or rural area now.	1-yes	0-urban
			0-no	1-rural
Indonesia	sc05	Area:	1-urban	0-urban
			2-rural	1-rural
SABE <sup>a</sup>		n/a, all urban respondents		
Mexico-MHAS	murb	Community of residence has 100,000 people or more.	0-less urbanized regions	1-rural
			1-more urbanized regions	0-urban
SAGE	q0104	Setting: An urban area that has been legally proclaimed as being urban. Such areas include towns, cities and metropolitan areas. All other areas that are not classified as being urban. This includes commercial farms, small settlements, rural villages and other areas which are further away from towns and cities.	1-urban	0-urban
			2-rural	1-rural
Taiwan	rural	2000 Residence: Urban or Rural township.	0-urban	0-urban
			1-rural	1-rural

*Notes:*

<sup>a</sup> Bangladesh and SABE are not based on any variable, but are set to either all urban (SABE) or all rural (Bangladesh).

## EARLY LIFE CONDITIONS

**RuralFIN.** The harmonized measure **ruralFIN** indicates if a person spent their childhood in a rural area (1=yes, 0=no). Table C3 describes the questions used to ascertain if the respondent had spent a significant amount of time in a rural area as a child. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C3: Original variables and questions used to construct childhood birthplace**

Country	Variable	Questions
Bangladesh-MHSS	mg02	Is [your birthplace] a...1-village, 2-small town, 5-big city, don't know
	mg04	Is the place [where you lived when you were 12 years old] a... 1-village, 2-small town, 5-big city, don't know
China-CHNS	t2	Urban site
China-CLHLS	a41	In which province were you born?
	a43	Was the place of birth an urban area or rural area (at time of birth)?
Costa Rica-CRELES	pc	Province and canton of birth.
England-ELSA		
Indonesia-IFLS	mg04a	When you were 12 years old did you live in the same place as the place where you were born?
	mg08	When you were 12, was the place a: 1-village, 3-small town, 5-big city, 8-don't know
Latin American cities-SABE	a02	Were you born in [...]?
	a04b	During the first 15 years of your life, did you live in a rural area for 5 years or more?
Mexico-MHAS	murb	Community of residence has 100,000 people or more
	a21	About how many years have you lived in this community or have you always lived here
Netherlands-SHARE		
Puerto Rico-PREHCO	o1	Where did you live during most of your life before turning 18 years old?
	o2	Would you say that before turning 18 years old you lived mostly in the countryside, in the city, in the suburbs or in another place?
SAGE	q1024	Where did you live for most of your childhood (age 9 or younger)?
	q1020	Have you always lived in this village/town/city?
	q0104	Setting (circle one) An urban area that has been legally proclaimed as being urban. Such areas include towns, cities and metropolitan areas. All other areas that are not classified as being urban. This includes commercial farms, small settlements, rural villages and other areas which are further away from towns and cities.
Taiwan-SEBAS		
US-HRS	G1125	Were you living in a rural area most of the time when you were [in grade school/in high school/about age 10]?
US-WLS	rlur5	1957 rural-urban residence of respondent

*Note:* In most cases, the variable **ruralFIN** was defined only for those people born in the country interviewed. The exception was China-CHNS where there was not a variable indicating if respondents were born in the country. In the case of Taiwan and the Netherlands, it was not possible to discern if they had lived rural or urban areas as a child, although additional survey data from the Netherlands (SHARE) may provide this information.

**Father education.** Father education defines the level of education the respondent’s father achieved. Variables that defined **fathereduc** were constructed based on different scales for some countries. Country-specific father education variables were created for those countries where scales differed. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C4: Original variables and questions or scales with corresponding father education scale**

Country	Variable	Question or scale	fathereduc
Bangladesh-MHSS <sup>a</sup>	edo3 edo6 edo8a	What was your highest class COMPLETED?	1-no school 2-primary 3-secondary 4-secondary+
Indonesia-IFLS	ba07ap (only used to define no school) ba08p	ba07ap=3 (No) 02-elementary 70-Madrasah 72-Islamic elementary school (Madrasah Ibtidaiyah) 90-kindergarten  04-junior high - vocational 05-senior high - general 06-senior high - vocational 11-adult education a 12-adult education b 13-open university 14-Islamic school (Pesantren) 60-college, D1, D2, D3 61-university (Bachelor) 62-university (Master) 63-university (PhD) 73-Islamic junior/high school (Madrasah Tsanawiyah) 74-Madrasah Aliyah	1-no school 2-primary 2-primary 2-primary 2-primary  3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus



Country	Variable	Question or scale	fathereduc
Mexico-MHAS	f8	1-none 2-some elementary 3-completed elementary 4-more than elementary	1-none 2-primary 3-secondary and plus 3-secondary and plus
Puerto Rico-PREHCO	h3a	0-he did not go to school 1-he went to school but he did not complete eighth grade 2-he went to school and he completed eighth grade or higher	1-noschool 2-primary 3-secondary and plus
SAGE	q1032	0-no formal education 1-less than primary school 2-primary school completed 3-secondary school completed 4-high school (or equivalent) completed 5-college/pre-university/university completed 6-post graduate degree completed	1-no school 2-primary 2-primary 3-secondary 3-secondary 4-more than secondary 4-more than secondary
US-HRS <sup>b</sup>	V213, F1000, G1087	0-no formal education 1-8-grades 9-11-grades 12-high school 13-15-some college 16-college grad 17-post college (17+ years)	1-no school 2-primary 3-secondary 4-secondary+
US-WLS	edfa57q	7-did not attend high school 10-attended high school 12-graduated from high school 13-attended trade or business school 14-attended college 16-graduated from college 18-has masters or PhD	2-primary 3-secondary 3- secondary 3- secondary 4- secondary + 4- secondary + 4- secondary +

*Notes:* In some surveys (Indonesia, Puerto Rico, MHAS) secondary and secondary plus were combined into one category. In the case of Indonesia, the small number of cases beyond secondary justified this classification. In the case of Puerto Rico and MHAS the original question was not specific to identify education greater than a secondary level.

<sup>a</sup> For Bangladesh, there were multiple variables used to deduce father education. Which question was asked of the respondent or directly of the respondent's father depended on where his/her father was currently living (with the respondent or not) and whether the respondent's father was

currently alive or deceased. The categories of father education were based primarily on variable *edo8a* which asked, “What was your highest class attended?” However, also used were *edo3* (“Have you ever attended/are you attending school?”), *edo6* (“If you ever attended school, what was the type of school last attended?”), as well as *lho3* (position in household) and *paro2f* (“Did father live in the household”).

<sup>b</sup> US-HRS combined three waves (1996, 1998, 2000) for parental education.

**Father occupation.** Father occupation defines the occupation of the respondent’s father when the respondent was a child. Variables that defined **fatheroccup** were constructed based on different scales for some countries. Country-specific father occupation variables were created for those countries where scales differed. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C5: Original variables and questions or scales with corresponding father occupation scale**

Country	Variable	Question or scale	fatheroccup
China-CLHLS	f84	0-professional or technical personnel	3-professional
		1-governmental, institutional or managerial personnel	3-professional
		2-staff/service worker/industrial worker	2-urban service worker
		4-agriculture, forestry, animal husbandry, fishery	1-agricultural worker
		5-housework	4-all other
		6-military personnel	4-all other
		7-unemployed	4-all other
		8-other, please specify	4-all other
England-ELSA	difjob	01-armed forces	4-all other
		02-manager or senior official in someone else’s business	3-professional
		03-running his own business	3-professional
		04-professional or technical	3-professional
		05-administrative, clerical or secretarial	2-urban service worker
		06-skilled trade	2-urban service worker
		07-caring, leisure, travel or personal services	2-urban service worker
		08-sales or customer service	2-urban service worker
		09-plant, process or machine drivers or operators	2-urban service worker
		10-other jobs	4-all other
		11-something else	4-all other
		12-casual jobs	4-all other
		13-retired	4-all other
		14-unemployed	4-all other
		15-sick/disabled	4-all other

Country	Variable	Question or scale	fatheroccup
Indonesia-IFLS	ba13p	01-professional or technical worker 02-managerial, administrative, decision making staff 03-clerical personnel and the like 04-sales personnel 05-service personnel 06-farm, forestry, game hunting, fishery worker 07-production line worker 08-transportation vehicle operator 09-blue collar worker 10-other, specify	3-professional 3-professional 2-urban service worker 2-urban service worker 2-urban service worker 1-agricultural worker 4-all other 4-all other 4-all other 4-all other
Netherlands-SHARE	isco_fa	1-managers 2-professionals 3-technicians and associate professionals 4-clerical support workers 5-service and sales workers 6-skilled agricultural, forestry and fishery workers 7-craft and related trades workers 8-plant and machine operators, and assemblers 9-elementary occupations 0-armed forces occupations 0006-housewife / houseman 0007-welfare support / pension / etc.	1-manager 2-professional 3-technicians 4-clerical 5-service/sales 6-skilled agr/forestry/fish 7-craft/trade 8-plant/machine operators 9-elementary occupations 10-armed forces 11-other
Puerto Rico-PREHCO	rcode_h4	1-management occupations 2-professional and related 3-services and sales 4-office and administrative support occupation 5-farming, fishing and forestry 6-construction, extraction and 7-production, transportation and material 99-not specified	11-other 3-professional 3-professional 2-service worker, construction, maintenance 2-service worker, construction, maintenance 1-mostly agricultural worker 2-service worker, construction, maintenance 2-service worker, construction, maintenance 4-all other
SAGE	q1029 (Was your father ever employed?) q1030 (What was your father's main employer?)	q1029 <sup>a</sup> 2-no q1030 1-public sector (government) 2-private sector (for profit or not for profit) 3-self-employed	5-never employed  1-public sector 2-private sector 3-self-employed

Country	Variable	Question or scale	fatheroccup
US-HRS <sup>b</sup>	E5654M (1996) F997HM (1998) G1084M (2000) <sup>c</sup>	4-informal employment	4-informal employment
		1-managerial specialty operation	3-professional
		2-professional specialty operation and technical support	3-professional
		3-sales	2-urban service worker
		4-clerical, administrative support	2-urban service worker
		5-service: private household, cleaning and building services	2-urban service worker
		6-service: protection	2-urban service worker
		7-service: food preparation	2-urban service worker
		8-health services	2-urban service worker
		9-personal services	2-urban service worker
		10-farming, forestry, fishing	1-agricultural worker
		11-mechanics and repair	1-agricultural worker
		12-construction trade and extractors	1-agricultural worker
		13-precision production	1-agricultural worker
		14-operators: machine	1-agricultural worker
		15-operators: transport, etc.	1-agricultural worker
		16-operators: handlers, etc.	1-agricultural worker
17-member of Armed Forces	4-all other		
US-WLS	ocf57	1-unskilled or not ascertained	2-urban service worker
		2-farming	1-agricultural worker
		3-skilled	2-urban service worker
		4-white collar	3-professional
		5-professional or executive	3-professional

*Notes:*

<sup>a</sup> SAGE used variable *q1029* to define the “never employed” category, but *q1030* for all other categories.

<sup>b</sup> US-HRS combined three waves (1996, 1998, 2000) for father’s occupation.

<sup>c</sup> The variables for HRS 2000 all begin with the letter “G,” earlier years start with different letters. For example, “E” was used for 1996 and “F” for 1998. Variables from previous years do not appear in the table, though data may have been used to gather responses.

**Mother education.** Mother education defines the level of education the respondent’s mother achieved. It was split into different country-specific variables where scales differed. Country-specific **motheroccup** variables were created for those countries where scales differed (SAGE, Indonesia). Refer to the country-specific appendices for more detail regarding the original variables for mother occupation.

**Table C6: Original variables and questions or scales with corresponding mother education scale**

Country	Variable	Question or scale	mothereduc
Bangladesh-MHSS <sup>a</sup>	edo3 edo6 edo8a  lh03 par02m	What was your highest class COMPLETED?	1-no school 2-primary 3-secondary 4-secondary+
Costa Rica-CRELES	a18	1-none 2-elementary 3-secondary 4-higher education	1-no school 2-primary 3-secondary 4-secondary+
Indonesia-IFLS	ba07am (only used to define no school) ba08m	ba07am=3 (No) 02-elementary 70-Madrasah 72-Islamic elementary school (Madrasah Ibtidaiyah) 90-kindergarten 04-junior high - vocational 05-senior high - general 06-senior high - vocational 11-adult education a 12-adult education b 13-open university 14-Islamic school (Pesantren) 60-college, D1, D2, D3 61-university (Bachelor) 62-university (Master) 63-university (PhD) 73-Islamic junior/high school (Madrasah Tsanawiyah) 74-Madrasah Aliyah	1-no school 2-primary 2-primary 2-primary 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus 3-secondary and plus
Mexico-MHAS	f1	1-none 2-some elementary 3-completed elementary 4-more than elementary	1-none 2-primary 2-primary 3-secondary and plus

Country	Variable	Question or scale	mothereduc
Puerto Rico-PREHCO	h6c	0-she did not go to school 1-she went to school but she did not complete eighth grade 2-she went to school and she completed eighth grade or higher	1-no school 2-primary 3-secondary
SAGE	q1028	0-no formal education 1-less than primary school 2-primary school completed 3-secondary school completed 4-high school (or equivalent) completed 5-college/pre-university/university completed 6-post graduate degree completed	1-no school 2-primary 2-primary 3-secondary 3-secondary 4-secondary+ 4-secondary+
US-HRS <sup>b</sup>	V212 (1992) F1001 (1998) G1088 (2000) <sup>c</sup>	0-no formal education 1-8-grades 9-11-grades 12-high school 13-15-some college 16-college grad 17-post college (17+ years)	1-no school 2-primary 3-secondary 3-secondary 4-secondary+ 4-secondary+ 4-secondary+
US-WLS	edm057q	7-did not attend high school 10-attended high school 12-graduated from high school 13-attended trade or business school 14-attended college 16-graduated from college 18-has masters or PhD	2-primary 3-secondary 3-secondary 3-secondary 4-secondary + 4-secondary + 4-secondary +

*Notes:* In some surveys (Indonesia, Puerto Rico, MHAS) secondary and secondary plus were combined into one category. In the case of Indonesia, the small number of cases beyond secondary justified this classification. In the case of Puerto Rico and MHAS the original question was not specific to identify education greater than a secondary level.

<sup>a</sup> For Bangladesh, the categories of mother education were based primarily off of variable *edo8a* which asked, “What was your highest class attended. However, also used were *edo3* (Have you ever attended/are you attending school?), *edo6* (If you ever attended school, what was the type of school last attended?), as well as *lho3* (position in household) and *paro2m* (did mother live in the household).

<sup>b</sup> US-HRS combined three waves (1996, 1998, 2000) for mother’s education.

<sup>c</sup> The variables for HRS 2000 all begin with the letter “G,” earlier years start with different letters. For example, “E” was used for 1996 and “F” for 1998. Variables from previous years do not appear in the table, though data may have been used to gather responses.

**Poor childhood health.** The variable **poorhealth** is based on retrospective questions asked of respondents regarding their childhood. Table C7 shows how the variable was defined across countries. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C7: Original variables, questions, scale and corresponding poor childhood health scale <sup>a</sup>**

Country	Variable	Question	Scale	poorhealth
Costa Rica-CRELES	in2	How was your health for the majority of your childhood and adolescence?	1-excellent	0-no
			2-very good	0-no
			3-good	0-no
			4-poor	1-yes
Latin American cities-SABE	c27	During the majority of the first 15 years of your life, would you say that your health was excellent, good, or poor?	1-excellent	0-no
			2-good	0-no
			3-poor	1-yes
Mexico-MHAS	a8	Before you were age ten, did you have a serious health problem that affected your normal activities for a month or more?	1-yes	1-yes
			2-no	0-no
Puerto Rico-PREHCO	h14	How would you describe your health as a child or adolescent? Would you say your health as a child or adolescent was excellent, very good, good, average, or bad?	1-excellent	0-no
			2-very good	0-no
			3-good	0-no
			4-average	1-yes
			5-bad	1-yes
US-HRS	E5648 (1996) F992 (1998) G1079 (2000) <sup>b</sup>	Consider your health while you were growing up, from birth to age 16. Would you say that your health during that time was excellent, very good, good, fair, or poor?	1-excellent	0-no
			2-very good	0-no
			3-good	0-no
			4-fair	1-yes
			5-poor	1-yes
US-WLS	ixc01rer	How would you rate your health as a child?	1 - poor	1-yes
			2 - fair	1-yes
			3 - good	0-no
			4 - very good	0-no
			5 - excellent	0-no

*Notes:*

<sup>a</sup> There were additional questions asked about childhood health in several of the surveys. For example, questions were asked regarding whether or not the respondent went to bed hungry as a child (China-CLHLS, SABE), had serious health problems as a child (Mexico-MHAS, US-WLS), missed school due to illness (Puerto Rico, US-WLS), missed common childhood activities due to illness (Puerto Rico, US-WLS), was confined to bed for periods of time due to illness (US-WLS), had water as a child (China-CLHLS), had adequate medical services as a child (China-CLHLS), wore shoes

regularly (Costa Rica), was confined to bed for an illness for extended periods of time (SABE), experienced a serious blow to the head (Mexico-MHAS), experienced abuse in the home as a child (US-WLS), had encouragement and protection as a child (US-WLS), had their tonsils and/or adenoids removed in childhood (US-WLS) and the respondent's mother lived or worked in the United States (Mexico-MHAS). Questions regarding specific childhood illnesses that the respondent experienced were also asked in several surveys. This included tuberculosis (Costa Rica, Mexico-MHAS, SABE, Puerto Rico), asthma (Costa Rica, SABE, Puerto Rico, US-WLS), rheumatic fever (Costa Rica, Mexico-MHAS, SABE, Puerto Rico), chronic bronchitis (Costa Rica, Puerto Rico, US-WLS), poliomyelitis (Costa Rica, Mexico-MHAS, Puerto Rico, US-WLS), malaria (Costa Rica, Puerto Rico), typhoid fever (Mexico-MHAS), nephritis (SABE), hepatitis (SABE, Puerto Rico, US-WLS), measles (SABE, Puerto Rico), typhus fever (Puerto Rico), dengue fever (Puerto Rico), chicken pox (Puerto Rico), mumps (Puerto Rico), small pox (Puerto Rico), pneumonia (Puerto Rico, US-WLS), ear infections (US-WLS), pertussis (US-WLS), diphtheria (US-WLS), meningitis (US-WLS), infection mononucleosis (US-WLS). More detailed information, including the specific questions and question asked can be found in the country-specific appendices. Additional information for some countries is only available in their questionnaire (e.g. Netherlands).

<sup>b</sup> The variables for HRS 2000 all begin with the letter “G,” earlier years start with different letters. For example, “E” was used for 1996 and “F” for 1998. Variables from previous years do not appear in the table, though data may have been used to gather responses.

**Poor childhood socioeconomic status.** The variable **poorcecon** is based on retrospective questions asked of respondents regarding their childhood. Table C8 shows how the variable was defined across countries. For most countries, **poorcecon** was based on variables asking what the respondent's socioeconomic status was as a child. South Africa and MHAS were two exceptions. South Africa based poor childhood SES on the father's level of education (variable *q1032*). Mexico-MHAS based poor childhood SES on owning a toilet (variable *a7*). Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C8: Original variables, questions, scale and corresponding poor childhood SES scale**

Country	Variable	Question	Scale	poorcecon
Costa Rica-CRELES	in1	During the first 15 years of your life, did your family have problems or economic hardships that did not allow you to eat regularly, dress adequately or get necessary medical care?	1-yes	1-yes
			2-no	0-no
Latin American cities-SABE	c26	During the majority of the first 15 years of your life, what was the economic situation of your family? (Read all the options until you get an affirmative answer.)	1-good	0-no
			2-average	1-yes
			3-poor	1-yes
Mexico-MHAS	a7	Before you were age ten, did your house have a toilet?	1-yes	0-no
			2-no	1-yes
Puerto Rico-PREHCO	h1	In general, would you say that the economic conditions in the household in which you grew up were good, average or bad?	1-good	0-no
			2-average	1-yes
			3-bad	1-yes
US-HRS	E5655 (1996)	Now think about your family when you were growing up, from birth to age 16. Would you say your family during that time was pretty	1-pretty well	0-no
	F993 (1998)		off financially	



G1080 (2000) <sup>b</sup>	well of financially, about average, or poor?	3-about average 5-poor	0-no 1-yes
---------------------------	--	---------------------------	---------------

*Notes:*

<sup>a</sup> There were additional questions asked about childhood SES in several of the surveys. Questions were asked regarding whether or not the respondent had a toilet in their childhood home (Costa Rica, Mexico-MHAS), lived with their grandparents as a child (Mexico-MHAS, US-HRS), had electricity in their childhood home (Costa Rica), lived with their biological father as a child (Costa Rica), has a family history of diabetes (Taiwan, Puerto Rico, US-WLS), has a family history of heart disease (Taiwan), has currently living parents (Mexico-MHAS, SABE, Netherlands, Puerto Rico), experienced economic hardship that prevented them from eating regularly, adequately clothing themselves, or receiving necessary medical attention (Puerto Rico), experienced periods of time of father’s unemployment in childhood (Puerto Rico, US-WLS), experienced periods of time of mother’s unemployment in childhood (Puerto Rico), had to leave school or work to help their parents (Puerto Rico), experienced financial difficulties that required them to move (US-HRS), and received financial help from relatives (US-HRS). Other questions included where the respondent slept as a child (Costa Rica), the age of death of the respondent’s mother and father (Mexico-MHAS, SABE, Netherlands, Bangladesh, Puerto Rico), the age of the respondent’s mother and father, if currently living (Mexico-MHAS), whether or not the respondent’s father worked or lived in the United States when the respondent was a child (Mexico-MHAS), whether or not the respondent’s mother or father could read or write (Puerto Rico), whether or not the respondent’s parents divorced in childhood (Puerto Rico), where the respondent lived in childhood and whether or not that area was rural (US-HRS). More detailed information, including the specific questions and question asked can be found in the country-specific appendices. Additional information for some countries is only available in their questionnaire.

<sup>b</sup> The variables for HRS 2000 all begin with the letter “G,” earlier years start with different letters. For example, “E” was used for 1996 and “F” for 1998. Variables from previous years do not appear in the table, though data may have been used to gather responses.

## **ADULT SOCIOECONOMIC STATUS**

**Education.** Education was defined as level of education completed if available and grouped into four categories using the UN international standard classification of education (2011): no schooling (0 years), primary-elementary (1-6 years), secondary or intermediate (7-12 years), and higher (more than 12 years). For most countries, no school was defined as zero years of formal education. Primary-elementary was defined as completing any level of education through the sixth grade (fifth grade for Bangladesh). Secondary or intermediate was defined as completing any level of education from seventh through twelfth grade. Higher was defined as completing anything higher than twelfth grade.

US-WLS, Indonesia and ELSA had different definitions for education than the categories listed above. Table C9 lists the different definitions of education, and what categories of education they were included into. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C9: Original variables scales with corresponding adult education scale**

<b>Country</b>	<b>Variable <sup>a</sup></b>	<b>Scale</b>	<b>education</b>
Bangladesh-MHSS	edo3, edo6, edo8a	no school	1-no school
China-CLHLS	f1	1st-6th grade (1st-5th for Bangladesh)	2-elementary-primary
China-CHNS	a11	7th-12th grade	3-secondary or intermediate
Costa Rica-CRELES	a2a, a2b	>12th grade	4-higher
SABE	yeduca		
Mexico-MHAS	a3_3		
Netherlands-SHARE	edu, iscedy_r		
Puerto Rico-PREHCO	c10r1		
SAGE	q1015, q1016, q1017		
Taiwan-SEBAS	educ00		
US-HRS	G1074A		
England- ELSA	edqual	no qualification NVQ1/CSE other grade equivalent NVQ2/GCE other level equivalent NVQ4/NVQ5 degree or equivalent higher education below degree NVQ3/GCE a level equivalent	1-no school 2-elementary-primary 3-secondary or intermediate 4-higher
Indonesia-IFLS	dlo4, dlo6, dlo7	no school elementary kindergarten Madrasah, general Islamic elementary school (Madrasah Ibitdaiyah) adult education a adult education b  junior high general junior high vocational senior high general senior high vocational Islamic school (Pesantren) Islamic junior/high school (Madrasah Tsanawiyah) Madrasah senior high school  college (d1, d2, d3) university (bachelor)	4-higher 1-no school 2-elementary-primary 2-elementary-primary 2-elementary-primary 2-elementary-primary 2-elementary-primary 2-elementary-primary  3-secondary or intermediate 3-secondary or intermediate 3-secondary or intermediate 3-secondary or intermediate 3-secondary or intermediate 3-secondary or intermediate 3-secondary or intermediate 3-secondary or intermediate  4-higher 4-higher

Country	Variable <sup>a</sup>	Scale	education
		university (master)	4-higher
		university (doctorate)	4-higher
		open university	4-higher
US-WLS	gb103red, gb104red,	high school degree	3-secondary or intermediate
	gb005rec	some type of college degree	4-higher

Notes:

<sup>a</sup> Variables correspond to countries on the same row.

**Household income and wealth.** Components used to construct household income (**income**) and wealth (**wealth\_index**, **welth\_assets**) are listed below. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C10: Components of Household Income and Wealth**

Country	Components of HH Income	Components of Wealth
Bangladesh-MHSS	Agricultural Income Yearly income from Livestock Yearly other farm income Assets of the farm business sold during the last year Assets of the non farm business sold, rented or revenue during the last year Agricultural employment, Non agricultural employment, transfers received	water source, location of toilet, electricity inside of home, ornaments, savings in bank, radio, clock, furniture
China-CHNS	Per Capita HH income 2000	color TV, washing machine, refrigerator, telephone, cooking fuel, toilet location, water source
China-CLHLS	Yearly per capita HH income	
Costa Rica-CRELES	HH head income and spouse income (h20, h24)	condition of the house, room for cooking, cooking fuel, potable water inside, toilet inside house, television, telephone, washing machine, car
England-ELSA	Yearly per capita total benefit unit income	
Indonesia-IFLS	Total labor income	Water, toilet, food in refrigerator, cooking, television (kr13, kr20, kr23, kr24, kr24a)
SABE <sup>a</sup>	pension familia en otro pais familia en el pais	Kitchen, gas or electricity, pipe water, toilet inside the house, refrigerator, television, telephone, washing machine, vehicle

<b>Country</b>	<b>Components of HH Income</b>	<b>Components of Wealth</b>
Mexico-MHAS	alguiler de propiedades o cuartos, bancos subsidio de bienestar familiar otro ingreso yearly per capita income	gas or electricity, piped water, toilet inside the house, refrigerator, television, telephone, washing machine
Netherlands-SHARE Puerto Rico-PREHCO	yearly gross per capita imputed household income Su trabajo seguro social jubilacion o pension family in us income family in puerto rico income alguiler de propiedades o cuartos subsidio de bienestar familiar programa de asistencia otro ingreso Total HH income	Piped water, toilet inside the house, air conditioner, electricity/gas for cooking, telephone, washing machine, dryer, hot water heater,
SAGE	Total HH income	Piped water, toilet inside house, refrigerator, electricity/gas for cooking, telephone, washing machine, cooking stove, television
Taiwan-SEBAS		Based on SESladder
US-HRS	yearly gross per capita imputed household income	
US-WLS	yearly per capita household income	

*Notes:*

<sup>a</sup> Several variables were used to compute income from the SABE surveys. These can be found in section H of the questionnaire.

## ADULT RISK FACTORS AND LIFESTYLE

**Smoking.** Variables used to construct the variable **smoke** (1=yes, 0=no) are based on country-specific questions regarding tobacco smoking in whatever form. In some cases different tobacco products were used. In some cases the question was general and did not specifically indicate the type of smoking. Table C11 lists what smoking methods were included in defining smoking variables by country. “General smoke question” indicates no specified smoking method mentioned. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C11: Original variables and questions used to construct adult smoking**

Country	Variables	Which tobacco products used
Bangladesh-MHSS	spn01b, spn02b, spn01c, spn02c, spn01d, spn02d	hookah, biri, cigarettes/cigars
China-CHNS	u25, u27	cigarettes (including hand-rolled or device-rolled)
China-CLHLS	d71, d72	general smoke question
Costa Rica-CRELES	ev8, ev10	cigarettes
England-ELSA	smkevr, hesmk, heska, heskaW2	cigarettes
Indonesia-IFLS	km01a, km02, km04	chewing tobacco, smoking self-rolled cigarettes, or smoking cigarettes/cigars
Latin American cities-SABE	c24	general smoke question
Mexico-MHAS	c54, c55	cigarettes
Netherlands-SHARE	br001_, br002_	cigarettes, cigars, cigarillos or a pipe
Puerto Rico-PREHCO	g161, g162	cigarettes
SAGE	q3001, q3002	cigarettes, cigars, pipes, chewing tobacco or snuff
Taiwan-SEBAS	smk	cigarettes
US-HRS <sup>a</sup>	V298, V501, W452, D942, E942, F1266, G1400	cigarettes
US-WLS	ixt01rer, ixo12rer, ixt07rer	cigarettes

Notes:

<sup>a</sup> The smoke variable for HRS was obtained by reviewing the original wave in which the question was asked.

Actual question text for original variable and (variable name):

**Bangladesh:** Have you had the habit of smoking a hookah? (*spn01b*), Do you still have the habit of smoking hookah? (*spn02b*), Have you had the habit of smoking biri? (*spn01c*), Do you still have the habit of smoking biri? (*spn02c*), Have you had the habit of smoking cigarettes/cigars? (*spn01d*), Do you still have the habit of smoking cigarettes? (*spn02d*).

**China-CHNS:** Have you ever smoked cigarettes (including hand-rolled or device-rolled)? (*u25*), Do you still smoke cigarettes now? (*u27*).

**China-CLHLS:** Do you smoke at the present time? (*d71*), Did you smoke in the past? (*d72*).

**Costa Rica-CRELES:** Have you smoked more than 100 cigarettes or cigars in your life? (*ev8*), Do you smoke now? (*ev10*).

**England-ELSA:** Have you ever smoke cigarettes, pipe, or cigar? (*smkevr*), Have you ever smoked cigarettes? (*hesmk*), [Do you/Does name] smoke cigarettes at all nowadays? (*heska*, *heskaW2*).

**Indonesia-IFLS:** Have you had the habit of chewing tobacco, smoking self-rolled cigarettes, or smoking cigarettes/cigars? (*km01a*),

Interviewer's Note: Is *km01d* or *km01e=1* (*km02*), Do you still have the habit or have you totally quit? (*km04*).

**SABE:** You... smoke at the present time? smoked before, but do not now? have never smoked? (*c24*).

**Mexico-MHAS:** Have you ever smoked cigarettes? Include more than 100 cigarettes or five packs in your lifetime. Do not include pipes or cigars. (*c54*), Do you smoke cigarettes now? (*c55*).

**Netherlands-SHARE:** The following questions are about smoking and drinking alcoholic beverages. Have you ever smoked cigarettes, cigars, cigarillos or a pipe daily for a period of at least one year? (*bro01\_*), Do you smoke at the present time? (*bro02\_*).

**Puerto Rico-PREHCO:** Have you smoked one hundred cigarettes or more in your life? (*g161*), Do you currently smoke? (*g162*).

**SAGE:** Have you ever smoked tobacco or used smokeless tobacco? (*q3001*), Do you currently use (smoke, sniff or chew) any tobacco products such as cigarettes, cigars, pipes, chewing tobacco or snuff? (*q3002*).

**Taiwan-SEBAS:** Past 6 months, did you smoke? (*smk*).

**US-HRS:** Do you smoke cigarettes now? (*G1400*).

**US-WLS:** Have you ever smoked a pipe or cigars, or used snuff or chewing tobacco regularly in your entire life? (*ixt01rer*), Up until you were 16 years old, did anyone in your household, other than yourself, smoke? (*ixt012rer*), How often do you smoke now? (*ixt07rer*).

**Drinking.** The questions for variables used to construct **drink** (1=yes, 0=no) varied in how they asked about alcohol consumption. Table C12 lists the original variables and corresponding questions asked from country-specific surveys that were used to define drinking. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C12: Original variables and questions used to construct adult drinking**

Country	Variable	Question
China-CHNS	u40	During the past year, have you drunk beer or any other alcohol beverage?
China-CLHLS	d81	Do you drink alcohol at the present time?
	d82	Did you drink alcohol in the past?
Costa Rica-CRELES	ev1	Have you ever drunk alcoholic drinks on a regular basis?
England-ELSA	scako	Thinking now about all kinds of drink, how often have you had an alcoholic drink of any kind in the last 12 months?
Latin American cities-SABE	c23	In the last three months, on average, how many days per week have you had any alcohol to drink (for example, beer, wine, or another drink containing alcohol)?
Mexico-MHAS	c60	Do you ever drink any alcoholic beverages such as beer, wine, liquor, or pulque?
Netherlands-SHARE	br010_	I am now going to ask you a few questions about what you drink-that is if you drink. Please look at card 11. During the last six months, how often have you drunk any alcoholic beverages, like beer, cider, wine, spirits or cocktails?
Puerto Rico-PREHCO	g155	In the last 3 months, on average, how many days a week have you consumed alcoholic beverages (like for example beer, wine, rum or another drink that has alcohol)?
SAGE	q3007	Have you ever consumed a drink that contains alcohol (such as beer, wine, spirits, etc.)?
	q3008	Have you consumed alcohol in the last 30 days?
Taiwan-SEBAS	alc	Past 6 months, did you drink alcohol?
US-HRS	G1415	Do you ever drink any alcoholic beverages such as beer, wine, or liquor?
US-WLS	ixab01re	Do you ever drink alcoholic beverages?

**Exercise.** The questions for variables used to construct **exercise** (1=yes, 0=no) varied in how they asked about exercise. Table C13 lists the original variables and corresponding questions asked from country-specific surveys that were used to define exercise. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C13: Original variables and questions used to construct adult exercise**

Country	Variable	Question
China-CHNS	u142	Do you spend time on heavy or very heavy physical activities during the work day in a week (e.g. farmer, athlete, dancer, steel worker, lumber worker, mason, etc.)?
China-CLHLS	d91	Do you do exercises regularly at present?
	d92	Did you do exercises regularly in the past?
Costa Rica-CRELES	ev14	In the last 12 months, did you exercise regularly or do other physically rigorous activities like sports, jogging, dancing, or heavy work, three times a week?
England-ELSA	heacta	[Show card S.] We would like to know the type and amount of physical activity involved in your daily life. Do you take part in sports or activities that are vigorous...[Interviewer: Read out...]
Latin American cities-SABE	c25a	In the past twelve months, have you exercised regularly or participated in vigorous physical activity such as playing a sport, dancing or heavy housework, 3 or more times a week?
Mexico-MHAS	c53	On average during the last two years, have you exercised or done hard physical work three or more times a week? Includes various activities such as sports, heavy household chores, or other physical work.
Netherlands-SHARE	br015_	We would like to know about the type and amount of physical activity you do in your daily life. How often do you engage in vigorous physical activity, such as sports, heavy housework, or a job that involves physical labour? Interviewer: read out.
Puerto Rico-PREHCO	g167	In the last year, have you engaged in any of the following activities: sports, jogging, walking, dancing or heavy labor, three or more times a week?
SAGE	q3016	Does your work involve vigorous-intensity activity that causes large increases in breathing or heart rate, [like heavy lifting, digging or chopping wood] for at least 10 minutes continuously?
	q3025	Do you do any vigorous intensity sports, fitness or recreational (leisure) activities that cause large increase in breathing or heart rate [like running or football], for at least 10 minutes continuously?
Taiwan-SEBAS	b8	Do you usually exercise? [If yes, continue.] On average, how many times do you exercise each week?
US-HRS	G1395	On average over the last 12 months have you participated in vigorous physical activity or exercise three times a week or more? By vigorous physical activity, we mean things like sports, heavy housework, or a job that involves physical labor.
US-WLS	ixe02rer	How many hours per month do you participate in vigorous physical activities, either alone or with others?



**Health use.** Use of preventive health services was measured in most cases by a question which asked if the respondent had seen a medical professional within the last year. Table C14 below describes the questions used to define **healthuse** (1=yes, 0=no). Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C14: Original variables and questions used to construct adult utilization of health services in the last year**

Country	Question	Scale	Health Use (1=yes, 0=no)
Bangladesh-MHSS	Within last one year have you ever been to the: district hospital/visited by the district hospital? thana health complex/visited by the thana health complex? ICDDRB hospital/visited by the ICDDRB hospital? ICDDRB sub center/visited by the ICDDRB sub center? health worker/visited by the health worker? ICDDRB health worker/visited by the ICDDRB health worker? private clinic/visited by the private clinic? doctors (MBBS)/visited by the doctors (MBBS)? village doctor/visited by the village doctor? midwife/tba/visited by the midwife/tba? traditional practitioner (Kabiraj, Fakir, Hakimi, Village Doctor, etc.)/visited by the traditional practitioner (Kabiraj, Fakir, Hakimi, Village Doctor, etc.)? satellite clinic/visited by the satellite clinic? pharmacy/visited by the pharmacy? FWC/visited by the FWC? FWA/visited by the FWA? other, specify/visited by other, specify?	1-yes 3-no	1-yes 0-no
China-CHNS	Within the last month, did you receive any preventive health service (for example, a health examination, eye examination, well-child examination, blood test, blood pressure screening, tumor screening, etc.)? If “no” or “unknown,” stop here, and go to the next person. If “yes,” continue with the next question.	0-no 1-yes 9-unknown	1-yes 0-no
China-CLHLS	Can you get adequate medical service when you are seriously ill?	1-yes 2-no	1-yes 0-no
Costa Rica-CRELES	When was the most recent doctor’s appointment?	1-less than one month	1-yes

Country	Question	Scale	Health Use (1=yes, 0=no)
		2-from one to three months	1-yes
		3-from four to six months	1-yes
		4-from seven to eleven months	1-yes
		5-from one year to less than two years	1-yes
		6-from two to four years	0-no
		7-five or more years	0-no
England-ELSA	<b>n.a.</b>		
Indonesia-IFLS	Have you had a general check up performed in the last 5 years?	1-yes	1-yes
		3-no	0-no
SABE (not including Cuba)	During the last 12 months, where did you usually go when you felt sick or when you needed to consult someone about your health? Circle all the answers that the respondent spontaneously mentions.	01-I did not go, although I needed it	0-no
		02-I have not gotten sick, I have not needed a consultation/appointment	0-no
		03-private physician's office	1-yes
		04-private clinic	1-yes
		05-public clinic	1-yes
		07-emergency room in a private health care institution	1-yes
		08-private hospital	1-yes
		09-public hospital	1-yes
		10-emergency room in public hospital	1-yes
		12-pharmacy	1-yes
		13-faith healer	1-yes
SABE(Cuba) <sup>a</sup>	(see note a)	1-no fue	0-no
		2- no se ha enfermado	1-yes
		3- medico de familia	1-yes
		4- policlínico	1-yes
		5- hospital	1-yes
		6- sala emergencia hospital	1-yes
		9- consulta privada	1-yes

<b>Country</b>	<b>Question</b>	<b>Scale</b>	<b>Health Use (1=yes, 0=no)</b>
Mexico-MHAS	In the last year, about how many times have you visited or consulted a doctor or medical personnel?	66- otro (number of times) 000-none	1-yes 1-yes (if>0 &<=888) 0-no (if=0)
Netherlands-SHARE	Now we have some questions about your health care. Please think about your care during the last twelve months. Since [January/February/March/April/May/June/July/August/September/October/November/December] [{last year}], about how many times in total have you seen or talked to a medical doctor about your health? Please exclude dentist visits and hospital stays, but include emergency room or outpatient clinic visits. (IWER: If more than 98, enter 98.)	(number from 0-98)	1-yes (if>0 &,98) 0-no (if=0)
Puerto Rico-PREHCO	How many times have you gone to the doctor's office in the last twelve months?	(number of times)	1-yes (if >0) 0-no (if=0)
SAGE	Over the last 12 months, did you receive any health care NOT including an overnight stay in hospital or long-term care facility?	1-yes 2-no	1-yes 2-no
Taiwan-SEBAS	In the past year, have you had a health examination or physical examination?	1-yes 0-no	1-yes 0-no
US-HRS	Aside from any hospital stays, how many times have you seen or talked to a medical doctor about your health, including emergency room or clinic visits (since Q218-PR219 previous wave IW month/Q219-PR219 previous wave IW year/in the last two years)?	(number of times) 0-zero	1-yes (if >0, <888) 0-no (if=0)
US-WLS	In the past 12 months, have you seen a doctor or health professional in an office, clinic, or health center, not including visits to mental health professionals?	1-yes 2-no	1-yes 0-no

*Notes:*

<sup>a</sup> Cuba used several variables to indicate health access over the last 12 months (*f031-f0399*).

## HEALTH OUTCOMES

**Self-reported health.** Country-specific self-reported health questions were used to construct a variable for poor health (**poorhealth**). The questions were also used to construct a composite measure of good health (**goodhealth**, **goodhealth1** and **goodhealth2**). Table C15 describes the questions used in each country for self-reported health and then identifies how **poorhealth** was defined and how self-reported health was used as part of the composite measure of good health. The composite measure of **goodhealth** was based on categories of BMI, functionality (bath, dress, transfer and toilet) and self-reported health. **Goodhealth1** was based on the same categories as **goodhealth** with the addition of chronic conditions (heart disease and diabetes). **Goodhealth2** was only based on categories of BMI and functionality. The main text of this technical report describes in more detail the development of the good health measure. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C15: Original variables and questions used to construct poor self-reported health**

Country	Variable <sup>a</sup>	Question	Self-reported health	Poor health	Good health
Costa Rica-CRELES	c1	In general, would you say your	1-excellent	0-no	3-all else
England-ELSA	hehelf	health is excellent, very good, good,	2-very good	0-no	3-all else
Netherlands-SHARE	srhealtha	fair, or poor?	3-good	0-no	3-all else
Mexico-MHAS	c1		4-fair	1-yes	1-fair/poor
Puerto Rico-PREHCO	g1		5-poor	1-yes	1-fair/poor
SABE	c01				
US-HRS	G1226				
US-WLS	gx201re,ix001re				
Bangladesh-MHSS	gh01	What is your current health status?	1-healthy 2-fairly healthy 3-unhealthy, sick	0-no 0-no 1-yes	3-all else 3-all else 1-fair/poor
China-CHNS	u48a	Right now, how would you describe your health compared to that of other people of your age?	1-excellent 2-good 3-fair 4-poor	0-no 0-no 1-yes 1-yes	3-all else 3-all else 1-fair/poor 1-fair/poor
China-CLHLS	b12	How do you rate your health at present?	1-very good 2-good 3-so-so 4-bad	0-no 0-no 0-no 1-yes	3-all else 3-all else 3-all else 1-fair/poor

Country	Variable <sup>a</sup>	Question	Self-reported health	Poor health	Good health
			5-very bad	1-yes	1-fair/poor
Indonesia-IFLS	kko1	In general, how is your health?	1-very healthy 2-somewhat healthy 3-somewhat unhealthy 4-unhealthy	0-no 0-no 1-yes 1-yes	3-all else 3-all else 1-fair/poor 1-fair/poor
SAGE	q2000	In general, how would you rate your health today?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know	0-no 0-no 0-no 1-yes 1-yes	3-all else 3-all else 3-all else 1-fair/poor 1-fair/poor
Taiwan-SEBAS	b1	Regarding your current state of health, do you feel it is excellent, good, average, not so good, or poor?	1-excellent 2-good 3-average 4-not so good 5-poor	0-no 0-no 0-no 1-yes 1-yes	3-all else 3-all else 3-all else 1-fair/poor 1-fair/poor

Notes:

<sup>a</sup> Variables correspond to countries on the same row.

**Chronic conditions.** For most countries, variables defining chronic conditions were based on questions referring to a medical professional's diagnosis. Bangladesh and England are two exceptions. Bangladesh did not ask if a medical professional's diagnosis was given. England asks about a medical professional's diagnosis, but also sets chronic conditions variables to system missing if the respondent disputed having the chronic condition. The questions for Bangladesh and England chronic conditions are listed below in Table C16. The table also provides information regarding the constructed variable **Nchronic** which is a country-specific variable which indicates the number of chronic conditions reported by the respondent. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C16: Original variables and questions used to construct adult chronic conditions**

Country	Question <sup>b</sup>	Nchronic
Bangladesh-MHSS	Have you ever suffered from [...] during the past 1 year?	pulmonary, diabetes, arthritis
China-CHNS	Has the doctor ever told you that you suffer from [...]?	
China-CLHLS	Are you suffering from [...]? Diagnosed by hospital?	arthritis, cancer, pulmonary, heart disease,

<b>Country</b>	<b>Question <sup>b</sup></b>	<b>Nchronic</b>
Costa Rica-CRELES	Has a physician ever told you that you have [...]	diabetes, stroke arthritis, cancer, pulmonary, heart disease, diabetes, stroke
England-ELSA	Has a doctor ever told you that you have (or have had) any of the conditions on this card? Code reason why respondent disputes having had chronic condition.	arthritis, cancer , pulmonary, heart disease, diabetes, stroke
Indonesia-IFLS <sup>a</sup>	Did a doctor/paramedic/nurse/midwife ever diagnose you with [...]? Has a doctor or nurse ever told you that you have [...]	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
Latin American cities-SABE	Has a doctor or medical personnel ever told you that you have [...]	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
Mexico-MHAS	Has a doctor or medical personnel ever told you that you have [...]	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
Netherlands-SHARE	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
Puerto Rico-PREHCO	Has a doctor every told you that you have [...]	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
SAGE	Have you ever been diagnosed with [...]	arthritis, hypertension, pulmonary, heart disease, diabetes, stroke
Taiwan-SEBAS	Has a doctor ever diagnosed you with this illness? [...]	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
US-HRS	(If new interview respondent:) Has a doctor ever told you that you have [...]? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had [...]:) Our records (from your last interview in <i>respondent's last interview month, year</i> ) show that you have had [...]. (If reinterview respondent and respondent did not report in last interview that had [...]:) Since we talked last in <i>respondent's last interview month, year</i> , has a doctor told you that you have [...]?	arthritis, cancer, pulmonary, heart disease, diabetes, stroke
US-WLS	Has a doctor ever told you that you have [...]?	arthritis, cancer, pulmonary, heart disease, diabetes, stroke

*Notes:*

<sup>a</sup> For Indonesia the baseline survey year used in the cross national data was 2000 but that the 4<sup>th</sup> wave of data collection (2007) was used to obtain information on chronic conditions

<sup>b</sup> All of these chronic conditions variables are self-reported health questions (“has a doctor ever diagnosed you with...?”). In some cases, there are biomarkers to better define these conditions.

Shown in the table is the degree to which surveys asked questions about six major chronic conditions: arthritis, cancer, pulmonary disease, heart disease, diabetes or stroke. In addition to these six major conditions, some surveys asked the respondent about the following chronic conditions: tuberculosis (China-CLHLS, Mexico-MHAS, Bangladesh), asthma (England, Mexico-MHAS, Netherlands, US-WLS, Bangladesh, SAGE), hypertension (Costa Rica, Indonesia, England, Taiwan, China-CHNS, China-CLHLS, US-HRS, SABE, Mexico-MHAS, Netherlands, SAGE, Puerto Rico, US-WLS), osteoporosis (Costa Rica, England, SABE, Netherlands, US-WLS), anemia (Indonesia, Bangladesh), Parkinson’s disease (England), psychiatric issues (England, SAGE), Alzheimer’s disease (England), ulcer (Taiwan, Netherlands, Bangladesh, US-WLS), liver or gall bladder disease (Taiwan), cataracts (Taiwan, Netherlands, Bangladesh), kidney disease (Taiwan, US-WLS), gout (Taiwan), apoplexy (China-CHNS), high blood cholesterol (Netherlands, US-WLS), paralysis (Bangladesh), edema (Bangladesh), penile discharge (Bangladesh), vaginal ulcers (Bangladesh), brain hemorrhage (Puerto Rico), biliarciosis (Puerto Rico), fibromyalgia (US-WLS), irritable bowel syndrome (US-WLS), multiple sclerosis (US-WLS), prostate problems (US-WLS), other lung conditions/breathing difficulty (Indonesia, Bangladesh), and other (Taiwan, Netherlands, Bangladesh).

In addition to self-reported chronic condition questions, some surveys took biomarker data from respondents (see the country-specific appendices for more information). This included: blood pressure (China-CHNS, China-CLHLS, Costa Rica, England, Indonesia, Taiwan, SAGE), spirometry (Costa Rica), lung function (England, SAGE), pulse (Indonesia, Taiwan, SAGE), glucose (Costa Rica, Taiwan), and glycosylated hemoglobin (Costa Rica, Taiwan). Taiwan has additional biomarker data, including blood, urine, and saliva samples that are not listed in the country-specific appendix but can be found in the country-specific questionnaire. US-WLS collected saliva from respondents which will be used for DNA analyses. This information is only available via the WLS secure server.

**NadlGToharm.** A harmonized measure of adult functionality called **NadlGToharm** is defined from questions based on the Katz and Akpom (1976) activities of daily living (ADLs) and included the following ADLs: **bath, toilet, dress and transfer**. Not all of these ADLs were asked in each country (see Tables A18-A20) and thus a harmonized version was constructed using the Nagi items (1976) to estimate the missing ADL items. A more complete description of how the harmonized measure was developed is described in the main text of this report. Table C17 describes the general question and scale for ADLs asked and identifies how the harmonized variable was defined including the instances where the Nagi items were used to estimate a particular ADL. Refer to the country-specific appendices for more detail regarding the original variables listed in the table.

**Table C17: Original variables and questions used to construct harmonized adult functionality**

Country	Question	Scale	NadlGToharm	Variables used to harmonize functionality (exceptions)
Bangladesh-MHSS	If you have to [...] without	1-easily	0-no	

Country	Question	Scale	NadlGToharm	Variables used to harmonize functionality (exceptions)
	help could you do it?	2-have trouble	1-yes	
		3-unable to do it	1-yes	
China-CHNS	Do you have any difficulty [...]?	1-no difficulty	0-no	Nagi items standing up after sitting for a long time ( <i>u162</i> ) was used to define transfer.
		2-have some difficulty but can do it	1-yes	
		3-need help to do it	1-yes	
		4-cannot do it at all	1-yes	
China-CLHLS	Can you [...]?	1-yes, independently	0-no	
		2-yes, needs some help	1-yes	
		3-no, can't	1-yes	
Costa Rica-CRELES	Is it difficult for you to [...]?	1-yes	1-yes	Nagi ability to lift arms above shoulders ( <i>d5</i> ) was used to define dress.
		2-no	0-no	
England-ELSA	Because of a health or memory problem, do you have difficulty [...]?	1-yes	1-yes	
		2-no	0-no	
Indonesia-IFLS	If you had to [...] could you do it?	1-easily	0-no	Nagi items <i>kko3g</i> (stand up from sitting in chair without help) and <i>kko3f</i> (dressing) were used to define toilet. Nagi <i>kko3g</i> was used to define transfer.
		3-with difficulty	1-yes	
		5-unable to do it	1-yes	
Latin American cities-SABE	Do you have difficulty with [...]?	1-yes	1-yes	
		2-no	0-no	
Mexico-MHAS	Because of health problems, do you have difficulty [...]?	1-yes	1-yes	
		2-no	0-no	
		6-can't do	1-yes	
		7-doesn't do	0-no	
Netherlands-SHARE	Because of a health or memory problem, do you have difficulty [...]?	1-yes	1-yes	
		0-no	0-no	
Puerto Rico-PREHCO	Have you had difficulty [...] due to a health problem?	1-yes	1-yes	
		2-no	0-no	
		3-cannot do it	1-yes	
		4-does not do it/does not apply	0-no	
SAGE	In the last 30 days, how much difficulty did you	1-none	0-no	
		2-mild	0-no	



Country	Question	Scale	NadlGToharm	Variables used to harmonize functionality (exceptions)
	have [...]?	3-moderate	1-yes	
		4-severe	1-yes	
		5-extreme, cannot do	1-yes	
Taiwan-SEBAS	Please tell me if you have any difficulty doing these activities [...] by yourself?	0-no difficulty	0-no	
		1-some difficulty	1-yes	
		2-great difficulty	1-yes	
		3-unable to do it	1-yes	
US-HRS	Because of a health or memory problem do you have difficulty with [...]?	1-yes	1-yes	
		5-no	0-no	
		6-can't do	1-yes	
		7-don't do	0-no	
US-WLS <sup>a</sup>				

*Notes:*

<sup>a</sup> US-WLS did not have individual questions for ADLs based on the Katz scale, but does have items for the Nagi scale.

Note that most countries also conducted performance tests which can be used to validate functionality and/or disability. The results of the following performance tests are available in the country-specific data files and are further described in the country-specific appendices: semi-tandem (Bangladesh), full tandem (Bangladesh), side-by-side stand (Bangladesh, England), chair stand (Bangladesh, China-CLHLS, Indonesia), repeated chair stands (Bangladesh, Costa Rica, SABE), measured walk (Bangladesh, England, Netherlands, SAGE), abnormalities of gait and posture (Bangladesh), bending over/picking something up from floor (Bangladesh, China-CLHLS, Costa Rica), foot tapping (Bangladesh), shoulder external rotation (Bangladesh), put hand behind neck (China-CLHLS), put hand behind lower back (China-CLHLS), raise arms upright (China-CLHLS, Costa Rica), turn around 360 degrees (China-CLHLS), hand strength test (Costa Rica, SABE, Netherlands, SAGE), any impairment (Costa Rica), standing (Costa Rica, SABE, Mexico-MHAS, Puerto Rico), standing from sitting and then walking (Costa Rica, Puerto Rico), leg raise (England), squatting (SABE). Variables for performance measures are saved in the country-specific data files and the country-specific appendix. Some of the performance measures available were not saved due to space constraints, but can be found in the country-specific appendices.

Tables C18-C20 describe the different components of ADLs, IADLs and Nagi functional items across surveys. Bolded ADL items were used in the harmonization of ADLs described above and in the main text of this report. In some cases Nagi items were used to estimate ADLs. Bolded items in IADLs (shopping, meals) and Nagi items (heavy, push) appear as variables within the cross national data set.

**Table C18: Comparison of functionality using ADLs (Katz)**

<b>Countries</b>	<b>Dimensions/Original Variables</b>					
	<b><i>bath</i></b>	<b><i>dress</i></b>	<b><i>toilet</i></b>	<b><i>transfer</i></b>	<b><i>eating</i></b>	<b><i>contenance</i></b>
Bangladesh-MHSS	gh09J	gh09L	gh09K	gh09M		
China-CHNS	u167	u171	u173		u169	
China-CLHLS	e1	e2	e3	e4	e6	e5
Costa Rica-CRELES	d8		d16	d13	d11	
England-ELSA	headb01-headb13		headb01-healthb13	headb01-headb13	headb01-headb13	
Indonesia-IFLS	kk03h	kk03f				
Latin American cities-SABE	d14a	d13a	d17a	d16a	d15a	
Mexico-MHAS	h16_1	h13	h19_1	h18_1	h17_1	
Netherlands-SHARE	ph049d3	ph049d1	ph049d6	ph049d5	ph049d4	
Puerto Rico-PREHCO	i14	i10	i11	i13		
SAGE	q2037	q2038	q2044	q2043	q2042	
Taiwan-SEBAS	b7_1	b7_2	b7_6	b7_4	b7_3	
US-HRS						
US-WLS						

**Table C19: Comparison of functionality using IADLs (Lawton, Brody)**

<b>Countries</b>	<b>Dimensions/Original Variables</b>						
	<b><i>shopping</i></b>	<b><i>meals</i></b>	<b><i>transport</i></b>	<b><i>managing money</i></b>	<b><i>telephone</i></b>	<b><i>join community activities</i></b>	<b><i>washing clothing</i></b>
Bangladesh-MHSS							
China-CHNS	u174	u175	u176	u177	u178		
China-CLHLS	e8	e9	e14			e7	e10
Costa Rica-CRELES	d25	d21		d23			
England-ELSA	headb01-headb13	headb01-headb13		heada01-heada13	headb01-headb13		
Indonesia-IFLS							

Latin American cities-SABE	d21a	d18a	d20a	d19a	d22a		
Mexico-MHAS	h27_1	h26_1		h29_1			
Netherlands-SHARE	ph049d9	ph049d8		ph049d13	ph049d10		
Puerto Rico-PREHCO SAGE	i3	i4	q2045			q2033	
Taiwan-SEBAS	b6_1						
US-HRS							
US-WLS							

<b>Countries</b>	<i>taking care of household responsibilities</i>	<i>getting out of home</i>	<i>day-to-day</i>	<i>medication</i>	<i>reading map</i>	<i>light housework</i>	<i>heavy tasks of the home</i>
Bangladesh-MHSS							
China-CHNS							
China-CLHLS							
Costa Rica-CRELES				d27			
England-ELSA				headb01-headb13	headb01-headb13	headb01-headb13	
Indonesia-IFLS							
Latin American cities-SABE				d25a		d23a	d24a
Mexico-MHAS				h28_1			
Netherlands-SHARE				ph049d11	ph049d7	ph049d12	
Puerto Rico-PREHCO SAGE	q2032	q2046	q2039				
Taiwan-SEBAS							
US-HRS							
US-WLS						ixch01re	

**Table C20: Comparison for functionality using Nagi items**

<b>Countries</b>	<b>Dimensions/Original Variables</b>						
	<i>walking long distance</i>	<b>heavy</b>	<i>draw water</i>	<i>standing up</i>	<i>use ladder</i>	<i>sit with bent knees</i>	<b>bow</b>

Bangladesh-MHSS	gh09A	gh09B	gh09C	gh09D, gh09G	gh09E	gh09F	gh09H
China-CHNS	u158	u165		u162			u166
China-CLHLS	e11	e12		e13			
Costa Rica-CRELES							
England-ELSA		headb01- headb13		headb01- headb13			heada01- heada10,
Indonesia-IFLS	kk03c, kk03j	kk03a	kk03d	kk03i, kk03g			kk03e
Latin American cities- SABE		d09		d03			d06
Mexico-MHAS	h1			h5			h8
Netherlands-SHARE		pho48d9		pho48d3			pho48d6
Puerto Rico-PREHCO							
SAGE	q2036			q2027			q2030
Taiwan-SEBAS		b5_6					b5_3
US-HRS							
US-WLS		ixcho4re					ixcho8re

---

**Dimensions/Original Variables**

---

<b>Countries</b>	<i>sweeping</i>	<i>running</i>	<i>walking short distance</i>	<i>cross the room</i>	<i>sitting long periods</i>	<i>going up one flight</i>	<i>going up stairs</i>
Bangladesh-MHSS	gh09I						
China-CHNS		u157	u159	u160	u161	u163	u164
China-CLHLS							
Costa Rica-CRELES			d2	d6			d3
England-ELSA			heada01-heada10	headb01- headb13	headb01- headb10	heada01- heada10	heada01- heada10
Indonesia-IFLS	kk03b						
Latin American cities- SABE		d01a	d01c	d11	d02	d05	d04
Mexico-MHAS		h2	h3	h15_1	h4	h7	h6
Netherlands-SHARE			pho48d1	pho49d2	pho48d2	pho48d5	pho48d4
Puerto Rico-PREHCO							
SAGE			q2026	q2041	q2025	q2029	
Taiwan-SEBAS		b5_7	b5_8	b7_5			b5_9
US-HRS							
US-WLS					ixcho7re		ixcho2re

<b>Dimensions/Original Variables</b>								
<b>Countries</b>	<i>carrying things</i>	<i>appearance</i>	<i>standing</i>	<i>pick coin off table</i>	<i>extending arms</i>	<i>concentrating</i>	<b><i>push</i></b>	<i>cross the street</i>
Bangladesh-MHSS	gh09B							
China-CHNS	u165	u172						
China-CLHLS								
Costa Rica-CRELES		d19					d4	
England-ELSA	heada01- heada10			heada01- heada10	heada01- heada10		headb01- headb10	
Indonesia-IFLS								
Latin American cities-SABE				d10	d07		do8	do1b
Mexico-MHAS	h11			h12	h9		h10	
Netherlands-SHARE				ph04810	ph048d7		ph048d8	
Puerto Rico-PREHCO								
SAGE	q2040		q2028	q2031	q2034	q2035		
Taiwan-SEBAS			b5_1, b5_2	b5_5	b5_4			
US-HRS								
US-WLS	ixch03re		ixch06re		ixch09re		ixch05re	

## **Appendix D: Overview of country-specific data files**

Listed below is the location within country-specific questionnaires for variables used in the cross national data and country-specific data files according to broad dimensions:

<b>Original data source from survey questionnaires</b>				
<b>Countries</b>	<b>Demographics</b>	<b>Early Life</b>	<b>Adult Lifestyle</b>	<b>Adult Health Outcomes</b>
Bangladesh	Book I: Section LH; Book II: Sections AE, AI, FB, HRT, LI, NAE, NFB & OFI; Book III: Sections MG, ED & CH	Book I: Section HC; Book II: Section HA; Book III: Sections PAR, EMP & MG; Book VI: Section CA	Book III: Section SPN	Book III: Sections GH & CM
China-CHNS	2000 Household Survey: Cover Screen; Tables 1, 2 & 6; Introduction	2000 Household Survey: Tables 2, 18 & 20; Physical Examination: Section I	2000 Questionnaire: Sections VI & XI	2000 Questionnaire: Sections V & III; Physical Examination: Section XII
China-CLHLS	2000 Questionnaire: Release Version 1, Sections F & A	2000 Questionnaire: Sections D, F & G	2000 Questionnaire: Section D	2000 Questionnaire: Sections B, D, G, H & E
Costa Rica-CRELES	Round 1: Identity Section; Sections A, SP & H; Introduction	Round 1: Sections A, IN, J, K & L	Round 1: Section EV	Round 1: Sections C & D
England-ELSA	Wave 2: Modules Individual Demographics, Final Questions & Household Demographics; End of Dataset; Financial Variables; Wave 0; Wave 1	Wave 2: Modules Individual Demographics, Standing Height, Weight, Waist and Hip, Blood Pressure, Balancing, Leg Raise & Paper Self-Completion Questionnaire; Lung Function Admin	Wave 2: Modules Health Module & Paper Self-Completion Questionnaire; Wave 1; Wave 0	Wave 2: Health Module; Wave 3: Health Self-Completion Questionnaire; In Confidence
Indonesia-IFLS	Book IIIA: Sections MG, DL, SW & BR; Book US I: Section US; Ptrack data file	Book II: Section KR; Book IIIB: Sections BA; Book US II: Section US	Book IIIB: Section KM	Book IIIB: Section KK; Book US II: Section US, Ptrack data file
Latin American cities-SABE	Sections A, C, H & G	Sections C, J, K & L	Section C	Sections C & D
Mexico-MHAS	Basic Questionnaire: Sections A, F & K	Basic Questionnaire: Sections A, F, C, J & L	Basic Questionnaire: Section C	Basic Questionnaire: Sections C, SA & H
Netherlands-SHARE	2004 Questionnaire, Version 10: Cover screen; Modules DN & CH; Generated Variables	2004 Questionnaire, Version 10: Module PH	2004 Questionnaire, Version 10: Module BR	2004 Questionnaire, Version 10: Modules sharew1_gv_dol, PH & XT; Generated Variables; Self Administered Questionnaire A

Puerto Rico- PREHCO	Wave 1, 2002 Questionnaire: Sections A, C, D, E, L, N & R, Section of Identification and Type of Interview	Wave 1, 2002 Questionnaire: Sections A, H, O, P & U	Wave 1, 2002 Questionnaire: Section G	Wave 1, 2002 Questionnaire: Sections G & I; Wave 2, 2006 Questionnaire: Section G
SAGE	Household Questionnaire: Sections 0100, 0400 & 0700; Individual Questionnaire: Section 1000	Individual Questionnaire: Sections 1000 & 2500; Household Questionnaire: Section 0500	Individual Questionnaire: Section 3000	Individual Questionnaire: Sections 2000, 4000 & 7000
Taiwan- SEBAS	First Interview Questionnaire: Sections A & D	First Interview Questionnaire: Physical Examination	First Interview Questionnaire: Health Behaviors, Section B	First Interview Questionnaire: Section B
US-HRS	2000 Questionnaire: Section A, Tracker file, Respondent & Household cover screen	2000 Questionnaire: Sections A & B	2000 Questionnaire: Section B	2000 Questionnaire: Sections B & E; Tracker file
US-WLS	Mail: Social Background; Phone: Status and Descriptive Variables, Summary Variables, Education, Household, Marriage Roster, Children, Siblings, Other Income	1957-Parents; Mail: Social Background, Health and Health Behaviors, Social Relationships	Mail: Health and Health Behaviors, Social and Civic Participation	Mail: Health and Health Behaviors, World Health Survey Vignettes; Phone: Health

Below is a listing of the selected country-specific surveys with the survey year used as baseline in cross national data.

<b>Countries</b>	<b>Survey name</b>	<b>Survey year</b>
Bangladesh	Matlab Health and Aging Study (MHAS)	1996
China-CHNS	China Health and Nutrition Survey (CHNS)	2000
China-CLHLS	Chinese Longitudinal Healthy Longevity Survey (CLHLS)	2002
Costa Rica-CRELES	Costa Rican Longevity and Healthy Aging Study (CRELES)	2003
England-ELSA	English Longitudinal Study of Ageing (ELSA)	2004-2005
Indonesia-IFLS	The Indonesian Family Life Survey (IFLS)	2000
Latin American cities-SABE	Survey on Health, Well-Being, and Aging in Latin America and the Caribbean (SABE)	2000
Mexico-MHAS	Mexican Health and Aging Study (MHAS)	2001
Netherlands-SHARE	The Survey of Health, Ageing and Retirement in Europe (SHARE)	2004-2005
Puerto Rico-PREHCO	The Puerto Rican Elderly: Health Conditions (PREHCO)	2002-2003
SAGE	Study on Global Ageing and Adult Health (SAGE)	2007-2008



---

Taiwan-SEBAS	Social Environment and Biomarkers of Aging Study (SEBAS)	2000
US-HRS	Health and Retirement Study (HRS)	2000
US-WLS	Wisconsin Longitudinal Study (WLS)	2004-2005

---

## Appendix E: Bangladesh-MHSS original variables

The tables below describe the original variables from the Bangladesh-MHSS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Bangladesh data that should be taken into account when examining the data.

---

**Table E1. Respondent (see note A)**

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>case</b>	Household ID.	
disphh3	Final disposition of the interview.	1-completed
<b>lh03</b>	Relationship with the head of the household.	01-78 (see Appendix A in Bangladesh questionnaire)
lh10	DSS Respondent ID No. Identifier in the DSS system.	
<b>person status</b>	Household member line number. Created by MHAS researchers. Indicator variable. Primary or Secondary main survey.	1-primary household 2-secondary household anything greater than 2 should be deleted sampling weights are only available for those with status=1
treatmnt	Variable that identifies treatment area.	1-4 treatments
type_hh	Type of household.	5
<b>wt_ind</b>	Individual sampling weights.	

---

**Table E2. Demographics (see note A)**

**Panel E2.1 Gender, Age and Marital Status**

Variable	Wording of Question/Description	Scale (if applicable)
<b>lh09</b>	Sex.	1-male 3-female
lh11m	[]'s date of birth.	(month)
lh11y	[]'s date of birth.	(year)
<b>lh12m</b>	[]'s age.	(months)
<b>lh12y</b>	[]'s age.	(years)
<b>lh15</b>	[]'s marital status.	01-never married 02-currently married 03-separated 04-divorced 05-widow/widower
lh16	Ordinal number of []'s spouse.	51-married but living separately

mh01	Interviewer to verify respondent's current marital status in householders list (lh15).	52-has died 97-NA 99-missing 01-never married 02-married 03-separated 04-divorced 05-widow/widower 9-missing
------	--	--

---

**Panel E2.2. Education, Income and Wealth (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>edo3</b>	Have you ever attended/are you attending school?	1-yes 3-no 9-missing
<b>edo6</b>	(If ever attended school) What was the type of school last attended?	02-maktab 03-madrasha 04-school/college 05-brac school 99-missing
<b>edo7</b>	What was your highest class attended?	1-class I 2-class II 3-class III 4-class IV 5-class V 6-class VI 7-class VII 8-class VIII 9-class IX 10-SCC (Secondary School Certificate) 11-HSC (Higher Secondary Certificate) 12-Graduate 13-MA 14-doctor MBBs 16-B.Sc. engineer 17-polytechnic engineer 18-other,specify 99-missing
<b>edo8a</b>	What was your highest class completed?	0-less than class I 1-class I 2-class II 3-class III 4-class IV 5-class V 6-class VI 7-class VII 8-class VIII 9-class IX 10-SCC (Secondary

		School Certificate) 11-HSC (Higher Secondary Certificate) 12-Graduate 13-MA 14-doctor MBBs 16-B.Sc. engineer 17-polytechnic engineer 18-other,specify 99-missing
edo8b	Are you attending school now?	1-yes 3-no 9-missing
emp05	Have you ever worked before?	1-yes 3-no 9-missing
emp10	What was your primary occupation for most of your life?	01-72 (see Appendix B of Bangladesh questionnaire) 99-missing
emp11a	What was your primary occupation for most of your life?	01-72 (see Appendix B of Bangladesh questionnaire) 98-don't know 99-missing
ha01A	Is there any householder who currently owns homestead land (with house)?	1-yes 3-no
ha01B	Is there any householder who currently owns ornaments (gold, silver)?	1-yes 3-no
ha01C	Is there any householder who currently owns savings in bank/prize bond/provident fund?	1-yes 3-no
ha01D	Is there any householder who currently owns television?	1-yes 3-no
ha01E	Is there any householder who currently owns radio/cassette player?	1-yes 3-no
ha01F	Is there any householder who currently owns wall clock/table clock/wrist watch?	1-yes 3-no 9-missing
ha01G	Is there any householder who currently owns electric fan?	1-yes 3-no
ha01H	Is there any householder who currently owns cycle?	1-yes 3-no
ha01I	Is there any householder who currently owns furniture?	1-yes 3-no
ha01J	Is there any householder who currently owns quilt?	1-yes 3-no 9-missing
ha01K	Is there any householder who currently owns other assets, specify?	1-yes 3-no
hco8	Does this household utilize electricity?	1-yes

hc10	What is the main source of drinking water in this household?	3-no 9-missing 01-tap water 02-tube-well 03-regular well 04-pond 05-canal 06-river 07-rain water 08-other, specify
hc11	Where is the main water source located?	1-inside the house 2-outside the house but inside <i>bari</i> 3-outside <i>bari</i> 9-missing
hc16f	Where do the adult women of this household usually go to have their bowel movements?	01-septic tank/modern latrine 02-slab latrine 03-pit latrine 04-open latrine 05-hang latrine 06-no latrine/yard/field 07-other, specify 97-n/a 99-missing
hc16m	Where do the adult men of this household usually go to have their bowel movements?	01-septic tank/modern latrine 02-slab latrine 03-pit latrine 04-open latrine 05-hang latrine 06-no latrine/yard/field 07-other, specify 97-n/a 99-missing
lh19	What is []'s occupation?	(see occupation code, appendix B) 99-missing
lh20	What is the type of school most recently attended by []?	01-never attended school 02-maktab 03-madrasha 04-school/college 05-BRAC school 98-don't know 99-missing
lh21	What is the highest class completed?	0-less than class I 1-class I 2-class II

---

		3-class III 4-class IV 5-class V 6-class VI 7-class VII 8-class VIII 9-class IX 10-SCC (Secondary School Certificate) 11-HSC (Higher Secondary Certificate) 12-Graduate 13-MA 14-doctor MBBs 16-B.Sc. engineer 17-polytechnic engineer 18-other,specify 98-don't know 99-missing
lh22	What is the type of school last attended by []'s spouse?	01-never attended school 02-maktab 03-madrasha 04-school/college 05-BRAC school 97-n/a 99-missing
lh23	What is the highest class completed by []'s spouse?	0-less than class I 1-class I 2-class II 3-class III 4-class IV 5-class V 6-class VI 7-class VII 8-class VIII 9-class IX 10- SCC (Secondary School Certificate) 11-HSC (Higher Secondary Certificate) 12-Graduate 13-MA 14-Doctor MBBs 97-n/a 98-don't know 99-missing
lh24	What is []'s spouse's occupation?	01-72 (see Appendix B in Bangladesh questionnaire)

97-n/a  
98-don't know  
99-missing

**Panel E2.3. Family and Household**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>cho1a</b>	What is the total number of children still alive?	(number)
<b>sibo1a</b>	What is the total number of siblings still alive?	(number)
sibo1b	What is the number of siblings who stay with you in this household?	(number)
sibo1c	What is the number of siblings who do not live in this household and are still alive?	(number)
sibo1d	What is the number of siblings who died during the past 12 months and were non-householders at the time of their deaths?	(number)
sibo2	Number of non-householder siblings alive now or died in last 12 months (if number of siblings is zero then go to next section).	(number)

**Table E3. Early Life Conditions**

**Panel E3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>lh11m</b>	[]'s date of birth.	(month)
<b>lh11y</b>	[]'s date of birth.	(year)
mg01	What is the [...] name of your birthplace?	01-same household 02-same <i>bari</i> 03-same village 04-same thana 05-same district 06-outside district but same country 07-Dhaka city 99-missing
<b>mg02</b>	Is the place a:	1-village 3-small town 5-big city 8-DK 9- refused
mg03a	Where did you live when you were 12 years old?	01-same household 02-same <i>bari</i> 03-same village 04-same thana 05-same district 06-outside district but same country 07-Dhaka city 99-missing
<b>mg04</b>	Is the place a...	1-village 3-small town 5-big city 8,9-DK, refused

<b>Panel E3.2. Childhood Health and Nutrition</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ca05cm</b>	Height	(centimeters) 99-missing
<b>ca05mm</b>	Height	(millimeters) 99-missing
<b>Panel E3.3. Childhood SES (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>edo3</b>	Have you ever attended/are you attending school?	1-yes 3-no 9- missing
<b>edo5</b>	How old were you when you first started school?	(years) 99-missing
<b>edo6</b>	(If ever attended school) What was the type of school last attended?	02-maktab 03-madrasha 04-school/college 05-brac school 99- missing
<b>edo8a</b>	What was your highest class completed?	0-less than class I 1-class I 2-class II 3-class III 4-class IV 5-class V 6-class VI 7-class VII 8-class VIII 9-class IX 10-SCC (Secondary School Certificate) 11-HSC (Higher Secondary Certificate) 12-Graduate 13-MA 14-doctor MBBs 16-B.Sc. engineer 17-polytechnic engineer 18-other,specify 99-missing
<b>paro2f</b>	Where did your father live in the last 12 months?	1-alive and in the same household 2-alive and lived in different household 3-dead 9-missing
<b>paro2m</b>	Where did your mother live in the last 12 months?	1-alive and in the same household 2-alive and lived in different household 3-dead



par03amf	How long ago did your father die? Fill in years/months.	9-missing (months) 98-don't know 99-missing
par03amm	How long ago did your mother die? Fill in years/months.	(months) 98-don't know 99-missing
par03ayf	How long ago did your father die? Fill in years/months.	(years) 98-don't know 99-missing
par03aym	How long ago did your mother die? Fill in years/months.	(years) 98-don't know 99-missing
par03b_f	How old was your father when he died? Fill in years.	(years) 98-don't know 99-missing
par03b_m	How old was your mother when she died? Fill in years.	(years) 98-don't know 99-missing
par04_f	How old is/was your father now/when he died? Fill in years.	(years) 997-NA 998-don't know 999-missing
par04_m	How old is/was your mother now/when she died? Fill in years.	(years) 997-NA 998-don't know 999-missing
<b>par05_f</b>	What was the last school attended by your father?	01-never attended school 02-maktab 03-madrasa 04-school/college 05-brac school 8- don't know 9-missing
<b>par05_m</b>	What was the last school attended by your mother?	01-never attended school 02-maktab 03-madrasa 04-school/college 05-brac school 8-don't know 9-missing
<b>par06_f</b>	What was the highest class completed by your father?	0-less than class I 1-class I 2-class II 3-class III 4-class IV 5-class V 6-class VI 7-class VII

		8-class VIII
		9-class IX
		10-SCC (Secondary School Certificate)
		11-HSC (Higher Secondary Certificate)
		12-Graduate
		13-MA
		14-doctor MBBs
		16-B.Sc. engineer
		17-polytechnic engineer
		18-other,specify
		98-don't know
		99-missing
<b>paro6_m</b>	What was the highest class completed by your mother?	0-less than class I
		1-class I
		2-class II
		3-class III
		4-class IV
		5-class V
		6-class VI
		7-class VII
		8-class VIII
		9-class IX
		10-SCC (Secondary School Certificate)
		11-HSC (Higher Secondary Certificate)
		12-Graduate
		13-MA
		14-doctor MBBs
		16-B.Sc. engineer
		17-polytechnic engineer
		18-other,specify
		98-don't know
		99-missing
<b>paro7_f</b>	What is/was your father's occupation now/at time of death?	01-72 (see Appendix B of Bangladesh questionnaire)
		97-n/a
		98-don't know
		99-missing
<b>paro7_m</b>	What is/was your mother's occupation now/at time of death?	01-72 (see Appendix B of Bangladesh questionnaire)
		97-n/a
		98-don't know
		99-missing
<b>paro8_f</b>	What is/was your father's occupation for most of his life?	01-72 (see Appendix B

paro8_m	What is/was your mother's occupation for most of her life?	of Bangladesh questionnaire) 97-n/a 98-don't know 99-missing 01-72 (see Appendix B of Bangladesh questionnaire) 97-n/a 98-don't know 99-missing
---------	--	--

**Table E4. Adult Lifestyle**  
**Panel E4.1. Adult Smoking (see note A)**

Variable	Wording of Question/Description	Scale (if applicable)
spn01a	Have you had the habit of chewing PAN (Betel leaf)?	1-yes 3-no 9-missing
<b>spn01b</b>	Have you had the habit of smoking a hookah?	1-yes 3-no 7-NA 9-missing
<b>spn01c</b>	Have you had the habit of smoking biri?	1-yes 3-no 6-refused 7-n/a 9-missing
<b>spn01d</b>	Have you had the habit of smoking cigarettes/cigars?	1-yes 3-no 7-NA 9-missing
spn02a	Do you still have the habit of chewing PAN or have you totally quit chewing PAN?	1-still smokes/chews 3-gave up 7-NA 9-missing
<b>spn02b</b>	Do you still have the habit of smoking hookah?	1-still smokes/chews 3-gave up 7-NA 9-missing
<b>spn02c</b>	Do you still have the habit of smoking biri?	1-still smokes/chews 3-gave up 7-NA 9-missing
<b>spn02d</b>	Do you still have the habit of smoking cigarettes?	1-still smokes/chews 3-gave up 7-NA 9-missing

### Panel E4.2. Health Care Utilization (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
am09	Do you feel you have any such health problem for which you need medical care but it is not available to you at present?	1-yes, specify medical problems 3-no 9-missing
am10	Why are you unable to get this treatment?	1-lack of money 2-too far away 3-other, specify 9-missing
oc01_1	Within last one year have you ever been to the district hospital/visited by the district hospital?	1-yes 3-no
oc01_10	Within last one year have you ever been to the midwife/tba/visited by the midwife/tba?	1-yes 3-no
oc01_11	Within last one year have you ever been to the traditional practitioner (Kabiraj, Fakir, Hakimi, Village Doctor, etc.)/visited by the traditional practitioner (Kabiraj, Fakir, Hakimi, Village Doctor, etc.)?	1-yes 3-no
oc01_12	Within last one year have you ever been to the satellite clinic/visited by the satellite clinic?	1-yes 3-no
oc01_13	Within last one year have you ever been to the pharmacy/visited by the pharmacy?	1-yes 3-no 6-refused
oc01_14	Within last one year have you ever been to the FWC/visited by the FWC?	1-yes 3-no
oc01_15	Within last one year have you ever been to the FWA/visited by the FWA?	1-yes 3-no
oc01_16	Within last one year have you ever been to other, specify/visited by other, specify?	1-yes 3-no
oc01_2	Within last one year have you ever been to the thana health complex/visited by the thana health complex?	1-yes 3-no
oc01_3	Within last one year have you ever been to the ICDDR B hospital/visited by the ICDDR B hospital?	1-yes 3-no
oc01_4	Within last one year have you ever been to the ICDDR B sub center/visited by the ICDDR B sub center?	1-yes 3-no
oc01_5	Within last one year have you ever been to the health worker/visited by the health worker?	1-yes 3-no
oc01_6	Within last one year have you ever been to the ICDDR B health worker/visited by the ICDDR B health worker?	1-yes 3-no
oc01_7	Within last one year have you ever been to the private clinic/visited by the private clinic?	1-yes 3-no
oc01_8	Within last one year have you ever been to the doctors (MBBS)/visited by the doctors (MBBS)?	1-yes 3-no
oc01_9	Within last one year have you ever been to the village doctor/visited by the village doctor?	1-yes 3-no
oc02_1	Within the last 3 months have you ever been to the district hospital/visited by the district hospital?	1-yes 3-no
oc02_10	Within the last 3 months have you ever been to the midwife/tba/visited by the midwife/tba?	1-yes 3-no
oc02_11	Within the last 3 months have you ever been to the traditional practitioner (Kabiraj, Fakir, Hakimi, Village	1-yes 3-no

	Doctor, etc.)/visited by the traditional practitioner (Kabiraj, Fakir, Hakimi, Village Doctor, etc.)?	
oc02_12	Within the last 3 months have you ever been to the satellite clinic/visited by the satellite clinic?	1-yes 3-no
oc02_13	Within the last 3 months have you ever been to the pharmacy/visited by the pharmacy?	1-yes 3-no
oc02_14	Within the last 3 months have you ever been to the FWC/visited by the FWC?	1-yes 3-no
oc02_15	Within the last 3 months have you ever been to the FWA/visited by the FWA?	1-yes 3-no
oc02_16	Within the last 3 months have you ever been to other, specify/visited by other, specify?	1-yes 3-no
oc02_2	Within the last 3 months have you ever been to the thana health complex/visited by the thana health complex?	1-yes 3-no
oc02_3	Within the last 3 months have you ever been to the ICDDRB hospital/visited by the ICDDRB hospital?	1-yes 3-no
oc02_4	Within the last 3 months have you ever been to the ICDDRB sub center/visited by the ICDDRB sub center?	1-yes 3-no
oc02_5	Within the last 3 months have you ever been to the health worker/visited by the health worker?	1-yes 3-no
oc02_6	Within the last 3 months have you ever been to the ICDDRB health worker/visited by the ICDDRB health worker?	1-yes 3-no
oc02_7	Within the last 3 months have you ever been to the private clinic/visited by the private clinic?	1-yes 3-no
oc02_8	Within the last 3 months have you ever been to the doctors (MBBS)/visited by the doctors (MBBS)?	1-yes 3-no
oc02_9	Within the last 3 months have you ever been to the village doctor/visited by the village doctor?	1-yes 3-no
oc12h	What is the travel time to reach the provider/facility? (one way)	(hours)
oc12m	What is the travel time to reach the provider/facility? (one way)	(minutes)
sn68b	Did you ever go to hospital/clinic/doctor?	1-yes, but never alone 2-yes, alone 3-no 9-missing
sn69b	In the last year did you ever go to hospital/clinic/doctor? Probe.	1-yes, but never alone 2-yes, alone 3-no 9-missing

**Table E5. Adult Health Outcomes**  
**Panel E5.1. Self-Reported Health**

Variable	Wording of Question/Description	Scale (if applicable)
gh01	What is your current health status?	1-healthy 2-fairly healthy 3-unhealthy/sick 9-missing
gh02	What do you mean by fairly healthy?	1-better than average health

gh03y, gh03m	For how long have you been worse than average health/unhealthy?	2-worse than average health 9-missing (Fill in year/month) 99-missing
gh04	Compared to another person of your age, would you say that your health is...?	1-better than others 2-same as others 3-worse than the others 9-missing
gh05	Compared to last year would you say that your current health is...?	1-good compared to last year 2-the same compared to last year 3-worse compared to last year 9-missing
gh06	How do you expect our health to be in next year?	1-better than now 2-same as now 3-worse than now 4-label not available 8-don't know 9-missing
gh07	Interviewer Observation: Health condition of respondent	1-healthy 2-fairly healthy 3-unhealthy/sick 6-refused 9-missing
gh08	Are you paralyzed/unable to move any extremity? (Answer may be more than one.)	A. all extremities are fine B. can't move right hand/arm C. left hand/arm cannot be moved D. can't move both hands/arms E. right leg cannot be moved F. left leg cannot be moved G. both legs cannot be moved H. problem with hip movement I. all four extremities cannot be moved

---

**Panel E5.2. Anthropometric Measures (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ca07gm	Weight	(grams)
ca07kg	Weight	(kilograms)

---

**Panel E5.3. Functionality (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>gh09A</b>	If you have to walk for one mile could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09B</b>	If you have to carry a heavy load (like 10 Serr rice) for 20 yards could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09C</b>	If you have to draw a pail of water from the tube-well could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09D</b>	If you have to stand up from sitting position on the floor without help could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09E</b>	If you have to use a ladder to climb to storage place at least 5 feet in height could you do it?	1-easily 2-have trouble 3-unable to do it 6-refused 9-n/a
<b>gh09F</b>	If you have to sit on floor with bent knees could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09G</b>	If you have to stand up from sitting position on chair/stool without help could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09H</b>	If you have to bow could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09I</b>	If you have to sweep the floor or yard could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09J</b>	If you have to bathe without help could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09K</b>	If you have to go to the toilet without help could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
<b>gh09L</b>	If you have to dress yourself without help could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a

<b>gh09M</b>	If you have to get up/down from/to your bed without help could you do it?	1-easily 2-have trouble 3-unable to do it 9-n/a
gh09X	Interviewer: Respondent's age 50 or more?	1-age 50 or more 3-less than 50

---

**Panel E5.4. Chronic Conditions (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
cm01_1	Have you ever suffered from anaemia during the past 1 year?	1-yes 3-no
cm01_10	Have you ever suffered from paralysis during the past 1 year?	1-yes 3-no
cm01_11	Have you ever suffered from tuberculosis during the past 1 year?	1-yes 3-no 9-missing
cm01_12	Have you ever suffered from gastric/ulcer during the past 1 year?	1-yes 3-no
cm01_13	Have you ever suffered from edema during the past 1 year?	1-yes 3-no 7-n/a
cm01_14	Have you ever suffered from penile discharge (males); after week 12, also vaginal ulcers (females) during the past 1 year?	1-yes 3-no 7-n/a (female before week 12) 9-missing
cm01_15	Have you ever suffered from penile ulcers in the past 1 year?	1-yes 3-no 7-n/a 9-missing
<b>cm01_2</b>	Have you ever suffered from arthritis or rheumatism during the past 1 year?	1-yes 3-no
cm01_3	Have you ever suffered from broken or fractured bones during the past 1 year?	1-yes 3-no
cm01_4	Have you ever suffered from cataracts during the past 1 year?	1-yes 3-no 9-missing
cm01_5	Have you ever suffered from eye disease (other than cataract) during the past 1 year?	1-yes 3-no
cm01_6	Have you ever suffered from asthma during the past 1 year?	1-yes 3-no 9-missing
<b>cm01_7</b>	Have you ever suffered from other breathing difficulty during the past 1 year?	1-yes 3-no
<b>cm01_8</b>	Have you ever suffered from diabetes during the past 1 year?	1-yes 3-no
cm01_9	Have you ever suffered from pain on passing urine/burning sensation during the past 1 year?	1-yes 3-no
cm02_2	Have you ever suffered from arthritis or rheumatism during the past three months?	1-yes 3-no 9-missing
cm02_7	Have you ever suffered from other breathing difficulty	1-yes



	during the past three months?	3-no
cm02_8	Have you ever suffered from diabetes during the past three months?	1-yes 3-no
cm03_2	Does arthritis or rheumatism create any difficulty in doing your day to day activities during the past 3 months?	1-no difficulty 2-some difficulty 3-lot of difficulty 4-unable to do it 7-n/a 9-missing
cm03_7	Does other breathing difficulty create any difficulty in doing your day to day activities during the past 3 months?	1-no difficulty 2-some difficulty 3-lot of difficulty 4-unable to do it
cm03_8	Does diabetes create any difficulty in doing your day to day activities during the past 3 months?	1-no difficulty 2-some difficulty 3-lot of difficulty 4-unable to do it 9-missing

---

### Panel E5.5. Adult Mortality

---

Variable	Wording of Question/Description	Scale (if applicable)
mo_date	Date of death. Variable constructed by MHSS team.	
mo_cause	Cause of death. Variable constructed by MHSS team.	(see note C)

---

*Source:* Documentation from the following source was used to compile the tables above. Rahman, O., Menken, J., Foster, A., & Gertler, P. Matlab [Bangladesh] Health and Socioeconomic Survey (MHSS), 1996. ICPSR02705-v5. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2008-04-25. <http://www.rand.org/labor/FLS/MHSS.html>, <http://www.icpsr.umich.edu/icpsrweb/NACDA/studies/02705/version/5>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table E1.* Interview Session Notes (Section ISN) are available in Book I of the Questionnaire. For further information about the status variable, see Rahman et al. (1999).

*Note A, Table E2.* There is additional information regarding non-householder siblings' education, marital status and number of children, in Section SIB of Book III. There is extensive information on social networks in Section SN of Book III.

*Note A, Panel E2.2.* There are additional variables (*ofi010t6*, *ofi010t7*) that list what respondents reported as their other sources of income. These intermediary variables were not saved in the final file, but can be attained from the original MHSS survey (RAND: Family Life Surveys, 1994-2012). Household characteristics, including observations on general sanitary conditions, ownership, roofing and flooring types, available in Book I of the questionnaire include *hc01-hc17*. There is a section in Book III on individual assets (Section IA). These intermediary variables were not saved in the final file, but can be attained from the original MHSS survey (RAND: Family Life Surveys, 1994-2012). Users should also be aware that the following variables were used to calculate the respondent's income but are not saved in the final

file: fb\_asst, nae05, nae07, nae08b, ai11, ae03, ae04, ae07, ai01, ai02, ai05m, ai07, ai08, ai09, ai10m, fbo1a, fbo4, ha\_asst, hrt11, hrt20, li01, li08, li09, li10, li11a, li11b, nae03, nae04a, nae04b, nae04c, nae04t, nae08a, nae08c, nae08t, nfb01, nfb03, nfb05, nfb06, ofi02\_1, ofi02\_2, ofi02\_3, ofi02\_4, ofi02\_5, ofi02\_6, ofi02\_7.

*Note A, Table E3.3* Variables appearing in the questionnaire are sometimes slightly modified in the data. For example, *par05f* from the questionnaire appears as *par05\_f* in the data file. Another example is *par06f* from the questionnaire appearing as *par06\_f* in the data file.

*Note A, Panel E4.1.* Section SPN has other variables related to smoking including *spn03-spn06*. These include questions on the timing and frequency of smoking.

*Note A, Panel E4.2.* There are additional questions (*oc03*) regarding frequency of visits during the past three months available in Section OC of Book III. There are additional variables associated with *oc12*, and *oc11* which provides information on the distance to the nearest provider. There are also questions regarding medications in Section MED of Book III, and hospitalization in Section HOS of Book III.

*Note A, Panel E5.2.* There is a cognitive test included in Book VI. Performance measures available in Bangladesh but not saved in the country-specific Bangladesh file are listed below:

1. Stands. Static balance. Graded series of tests of balance with eyes open and feet in semi-tandem, full tandem, and feet together position. The semi-tandem stand procedure serves as a screening test for the tandem stand. Each respondent will be asked to perform a combination of only two positions: semi and full or semi and side by side. The respondent receives only one try to maintain each position; therefore it is important to explain the goal of the exercise. Walking aids may not be used in any of the three stands.
  - a. Semi-tandem. Tell the respondent, "First I would like you to try to stand with the side of the heel of one foot touching the big toe of the other foot for about ten seconds. You may use either foot whichever is more comfortable for you. Now I am going to support your arm while you get into the position. You may use your arms, bend your knees, or move your body to maintain your balance, but try not to move your feet. Try to hold this position until I say 'Stop.'"
  - b. Full tandem. Tell the respondent, "Now I would like you to try to stand with the heel of one foot in front of and touching the toes of the other foot for about ten seconds. You may use either foot, whichever is more comfortable for you. Now I am going to support your arm while you get into the position. You may use your arms, bend your knees, or move your body to maintain your balance, but try not to move your feet. Try to hold this position until I say 'Stop.'"
  - c. Side by side stand. Tell the respondent, "Now I would like you to stand with your feet together, side by side, for about ten seconds. You may use your arms to maintain your balance, but try not to move your feet. Try to hold this position until I say 'Stop.'"
2. Chair stand. Measures the ability to stand up from a standard chair without using arms. Use of walking aids is not permitted. Ask the respondent, "Do you have any problems from recent surgery, injury or other health conditions that might prevent you from standing up from a chair or walking up steps? First would you please fold your arms across your chest and sit in the chair so that you are sitting with your feet on the floor. Now please try to stand up without using your arms. Ok, try to stand up using your arms to push off."
3. Repeated chair stands. Time required to stand up from a chair five times. Use of walking aids is not permitted. Ask the respondent, "Do you think it would be unsafe for you to try

to stand up from a chair five times quickly? Keep your arms folded across your chest. When I say 'Ready? Stand,' please stand up straight as quickly as you can five times without stopping in between. After standing each time, sit down and then stand again. I'll be timing you with the stopwatch."

4. Measured walk. Time required to walk 2.5 meter measured course twice. Tell the respondent, "Now we are going to observe how you normally walk. If you use a cane or other walking aid and would feel more comfortable with it, then you may use it. This is our walking course. I want you to walk to the other end of the course at your usual speed, just as if you were walking down the street to go to the store. I want you to walk all the way past the other end of the ruler before you stop. I will walk with you. When I want you to start I will say: 'Ready, begin.' I will always be beside you to steady you if you begin to lose your balance. I would now like you to repeat the walk. Remember to walk at your usual pace, and go all the way past the other end of the course."
5. Abnormalities of gait and posture. Note any abnormalities and record details.
6. Bending over. This movement involves bending over to pick up a pencil. Ask the respondent if they have had an operation for cataracts within the past six weeks. If they say 'yes,' they should not try this movement. Tell the respondent, "When I say 'Begin,'" I'd like you to bend over and pick up this pencil and stand back up."
7. Foot tapping. Place foot-tapping mat on the floor in front of the chair so the respondent can reach the circles on the mat easily while seated in the chair. The circles should be six inches in diameter. Tell the respondent, "Now I'd like you to put your right foot here between these circles. When I say 'Go,' I'd like you to tap your foot back and forth in each circle. Tap the ball of your foot on the circles as fast as you can, first one circle and then the other, back and forth as fast as you can like this (Demonstrate). Keep tapping your foot back and forth until I tell you to stop. I'm going to time you and count the taps. It doesn't count unless you hit the circle with your foot. First we'll do the right foot and then the left. Please try it once or twice for practice. Ready with the right foot? Begin."
8. Shoulder external rotation. Demonstrate while telling the respondent, "Now I'd like you to stand up (sit up) straight and put both hands behind your head at the level of your ears. Try to raise your arms up parallel to the floor and point your elbows out to the side."

*Note A, Panel E5.3.* There are also a series of gh10 variables which ask how long the respondent has had the difficulty.

*Note A, Panel E5.4.* There is additional information for each chronic disease in questions cm02 and cm03. There are also questions relating to health symptoms in Section AM of Book III.

#### **NOTE B.**

There are several items of particular note in examining the Bangladesh data. The notes below describe some of the more salient items to take into consideration.

#### **Notes about sample design and randomness (Rahman et al., 1999)**

All persons 50+ were interviewed in this survey.

A *bari* is a cluster of households in close proximity to each other (a residential compound). A random sample of *baris* was conducted which ultimately produced a possible sample of 2781 *baris*. Then, a household was randomly selected from these *baris* (called a primary household). Following this, a second household was selected (secondary household) which in some cases was

random and in other cases not random. The selection of the primary and some secondary households could be considered a random selection of households (Rahman et al., 1999, page 28). Sample weights are just for primary households (to get population estimates).

### **Maternal and Child Health Interventions of the 1970s-1980s**

The Matlab area received a maternal and child health (MCH) intervention, Family Planning & Health Services Project (FPHSP) in 1977. There is a variable (*treatmnt*) in the data set which identifies if the household participated in a special treatment program (Rahman et al., 1999, page 71).

According to the Menken and Phillips (1990), the study area consisted of 4 blocks of 20 villages (blocks A, B, C, D). At its inception, the intervention provided comprehensive family planning with limited MCH services. In 1982, the program was extended to include more intensive MCH services in blocks A and C, specifically.

Thus, the intervention changed across time but all four of the blocks received some type of family planning/MCH service. The question really is: what was the impact on others within the family? Did the intervention help educate them of the importance of health services? When the physician visited did they also ask about other health problems?

In 1978, those born in 1937-1946 would have been 32-41 years old (50-59 years in 1996 survey year); those born in 1922-1936 would have been 42-56 years old (60-74 years in 1996 survey year); those born in 1921 and earlier would have been at least 57 years old (75+ in 1996 survey year).

Fifteen to forty-nine years old are considered reproductive ages and so those born in 1929 and after had the potential for being directly exposed to MCH interventions. There were 902 total females living in the treatment area and 704 of them were born in 1929 or after and so a high percentage of females could have received treatment. There were 1831 total females ages 50+ and so about 38% of them could have received more direct treatment of MCH services from the 1970s.

Were these individuals in better health over the long run?

Was there a longer time period between births in Bangladesh (the average is 18 months)? Was there higher mortality for females than males in Bangladesh? Was there higher mortality in the control area as compared to the treatment area?

Note that there is a very high population density in Bangladesh.

### **Note C.**

The following are the codes for the cause of death variable *mo\_cause*:

- 001 - Cholera (proven)
- 010 - Acute watery diarrhea, (any other)
- 012 - Shigellosis (proven)
- 013 - Acute dysentery, with blood in stools
- 014 - Acute non-watery diarrhea with mucus, no blood in stools
- 016 - Persistent diarrhea w/ blood w/out obvious malnutrition
- 017 - Persistent diarrhea, no blood, no obvious malnutrition

019 - Persistent diarrhea or dysentery with malnutrition  
020 - Pulmonary TB  
033 - Diphtheria  
034 - Whooping cough (pertussis)  
036 - Meningitis  
037 - Tetanus (except neonatal and post-partum)  
038 - Septicemia 83  
040 - Acute Polio  
042 - Measles (death within rash period)  
043 - Post Measles pneumonia (<60 days)  
044 - Post Measles dysentery (<60 days)  
046 - Viral Hepatitis Acute (initial jaundice period)  
047 - Rabies  
052 - Malaria  
060 - Syphilis  
099 - Malignant neoplasm of digestive organs  
109 - Malignant neoplasm of respiratory organs  
113 - Malignant neoplasm of female breast  
122 - Malignant neoplasm of uterus  
139 - Malignant neoplasm of other & unspecified sites  
141 - Leukemia  
181 - Diabetes mellitus  
190 - Marasmus-kwashiorkor (complication of)  
191 - Severe malnutrition associated with chronic diarrhea  
192 - Marasmus due to lack of breast feeding  
193 - Marasmus due to insufficient food intake, and no obvious infection  
194 - Marasmus due to other chronic infection (non-diarrhea)  
195 - Death associated with nutritional blindness  
213 - Psychoses  
217 - Physiological malnutrition arising from mental factors  
218 - Mental retardation (including due to birth trauma)  
251 - Rheumatic Heart Disease  
270 - Acute Myocardial infraction  
293 - Acute but ill-defined cardiovascular disease (stroke, etc.)  
294 - Complication of the above  
321 - Pneumonia, ALRI  
323 - Chronic Bronchitis w/emphysema, asthma (complication of)  
325 - Pneumonia with diarrhea  
328 - Pneumonia, ALRI, as a complication of severe malnutrition  
341 - Peptic ulcer (complication of)  
342 - Appendicitis, peritonitis  
344 - Intestinal obstruction  
347 - Chronic Liver disease and cirrhosis (>1 month)  
350 - Nephritis, Nephrotic syndrome  
371 - GUT infection, unrelated to pregnancy, salpingitis  
380 - Spontaneous Abortion, miscarriage, DOC  
382 - Induced Abortion, DOC  
390 - Hemorrhage of pregnancy, DOC  
391 - Toxemia, eclampsia  
392 - Infections in pregnancy (G.U Tract)  
393 - Obstructed labor, prolonged labor

- 394 - Other complication of pregnancy
- 395 - Hemorrhage of the puerperium (immediate;<12 hours after birth)
- 396 - Haemorrhage of the puerperium (delayed;>12 hours after birth)
- 397 - Post-partum sepsis
- 398 - Post-partum Tetanus
- 399 - Other complication of post-partum
- 420 - Infections of skin and sub cutaneous tissue, CRN
- 449 - All congenital anomalies, CRN
- 450 - Sudden infant death, CRN 83
- 451 - Obstetric complication of new born (Necrologic),CRN
- 452 - Immaturity, small-for-date (including due to twin birth), CRN
- 453 - Birth trauma, cord haemorrhage, CRN
- 454 - Hypoxia, birth asphyxia, CRN
- 456 - N.N. tetanus, CRN
- 457 - Other NN infections, CRN
- 458 - Prematurity (direct complication of), CRN
- 459 - Unspecified Neonatal death, CRN
- 460 - F.U.O., fever of unknown origin
- 461 - Oedemas + Ascitis of unspecified origin
- 468 - Anaphylaxis, Allergy
- 540 - Complication of medical care by official Health practitioners
- 541 - Complication of medical care by traditional Health practitioners
- 542 - Complication of surgical care by official Health practitioners
- 543 - Complication of surgical care by traditional Health practitioners
- 550 - Transport accident
- 551 - Accidental injuries (not including due to epilepsy)
- 552 - Burns + complication of extended burns
- 553 - Drowning
- 554 - Snake bite
- 555 - Homicide by violence
- 556 - Homicide by poisoning
- 557 - Suicide by poisoning
- 558 - Suicide by hanging
- 559 - Other injuries, accidental suffocation or violent death, electric shock, lightning
- 560 - Accidental falls due to epilepsy
- 990 - Other cause (specified but rare)
- 991 - Senility (old age death without any specific disease)
- 998 - Impossible to specify
- 999 - Unreported or unknown

Please also note that *mo\_cause* has some values with unknown labels. Please contact RAND for more information about these values (contact information listed at the end of the technical report).

**Note D.**

*Note D, Panel E3.3.* Variables *par06\_m* and *par06\_f* have values with unknown labels and may be considered as miscoded values. Please contact RAND for more information about these variables (contact information listed at the end of the technical report).

*Noted D, Panel E3.3.* Variables *par04\_f* and *par04\_m* should not have values less than 10 or greater than 120: please contact RAND for more information about these variables (contact information listed at the end of the technical report).

*Note D, Panel E5.1.* The variable *gho6* has value with unknown labels and may be considered as miscoded values. Please contact RAND for more information about these variables (contact information listed at the end of the technical report).

Technical report found at

<http://www.rand.org/contect/dam/rand/pubs/drafts/2007/DRU2018.4.pdf>

## Appendix F: China-CHNS original variables

The tables below describe the original variables from the China-CHNS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the China data that should be taken into account when examining the data.

<b>Table F1. Respondent</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a5</b>	Relationship to the head of this household.	00-head of household 01-spouse 02-father/mother 03-son/daughter 04-brother/sister 05-grandson/granddaughter /grandson-in-law/granddaughter-in-law 06-mother-in-law/father-in-law 07-son-in-law/daughter-in-law 08-other relative 09-maid 10-other non-relative
<b>hhidoo_china</b>	Household ID.	
<b>line</b>	Line number of household member.	
<b>t1</b>	Province.	21-Liaoning 23-Heilongjiang 32-Jiangsu 37-Shandong 41-Henan 42-Hubei 43-Hunan 45-Guangxi 52-Guizhou
<b>t2</b>	1=urban site 2=rural site	1-Urban site 2-Rural site
<b>wave</b>	Survey year.	



---

**Table F2. Demographics****Panel F2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a8</b>	What is your marital status?	1-never married 2-married 3-divorced 4-widowed 5-separated 6-unknown 9-missing
<b>gender</b>	Gender.	1-male 2-female
<b>west_dob</b>	Date of birth.	(day, month, year)

**Panel F2.2. Ethnicity, Race and Language (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a18</b>	Is this a “five-guarantee household”? (Are you “Wubaohu”?)	1-yes 0-no
<b>a19</b>	Are you a national minority?	1-yes 0-no
<b>a21</b>	Where is your “old home”?	(see note B)
<b>a26</b>	Is your spouse a national minority?	1-yes 0-no
<b>a27</b>	Where is his/her “old home”?	(see note B)

**Panel F2.3. Education, Income and Wealth (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a11</b>	How many years of formal education have you completed in a regular school?	00-no school completed 11-1 year primary school 12-2 years primary school 13-3 years primary school 14-4 years primary school 15-5 years primary school 16-6 years primary school 21-1 year lower middle 22-2 years lower middle 23-3 years lower middle 24-1 year <sup>1</sup> upper middle 25-2 years upper middle 26-3 years upper middle 27-1 year technical school 28-2 years technical school 31-1 year college/university 32-2 years college/university 33-3 years college/university 34-4 years college/university 35-5 years

---

		college/university 36-6 years college/university or more -9-unknown 0- < 5 years of formal education 1-graduated from primary school 2-lower middle school degree 3-upper middle school degree 4-technical or vocational degree 5-university or college 6-master's degree or higher
a12	What is the highest level of education you have attained?	
hhexpense_cpi	Household expenses inflated to 2006.	
hhinc_cpi	Total household income inflated to 2006.	
<b>hhinc_pc</b>	Per capita household income.	
hhincgross_cpi	Gross household income inflated to 2006.	
hhincpc_cpi	Per capita household income inflated to 2006.	
index_new	Inflation index to 2006.	
index_old	Deflation index to 1988.	
<b>l1</b>	How does your household obtain drinking water? (If more than one method, record the most important.) If using the fourth method (other place), continue with the next question. Otherwise, skip to Question 3.	1-in-house tap water 2-in-yard tap water 3-in-yard well 4-other place
l100	Does your household or any household member own any of the electrical appliances and other goods listed on the left? Black/white television.	1-yes 0-no
<b>l105</b>	Does your household or any household member own any of the electrical appliances and other goods listed on the left? Color television.	1-yes 0-no
<b>l110</b>	Does your household or any household member own any of the electrical appliances and other goods listed on the left? Washing machine.	1-yes 0-no
<b>l115</b>	Does your household or any household member own any of the electrical appliances and other goods listed on the left? Refrigerator.	1-yes 0-no 9-missing
<b>l140f</b>	Does your household or any household member own any of the electrical appliances and other goods listed on the left? Telephone.	1-yes 0-no
l31	Does your household own any of the transportation means listed in the left column? Automobile.	1-yes 0-no
<b>l5</b>	What kind of toilet facilities does your household have?	0-no bathroom 1-flush, in-house 2-no flush, in-house

**18** (recoded from l8\_1)

What kind of fuel does your household generally use for cooking? If more than two kinds, record the two most often used. If only one kind, add o.

- 3-flush, outside house, public restroom
- 4-no flush, outside house, public restroom
- 5-cement open pit
- 6-earth open pit
- 8-other (specify)
- 9-missing
- 1-coal
- 2-electricity
- 3-kerosene
- 4-liquified natural gas
- 5-natural gas
- 6-wood, sticks/straw, etc.
- 7-charcoal
- 8-other (specify)
- 9-missing

---

**Panel F2.4. Family and Household**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>s122</b>	In total, how many children have you given birth to in your life?	(number) <i>Note: variable does not have any observations.</i>
s47	How many children have died?	(number)
<b>t6</b>	Number of household members.	
a23	Are your parents still alive?	1-yes 0-no ( <i>note: variable does not have any observations</i> ))
a29	Are your spouse's parents still alive?	1-yes 0-no ( <i>note: variable does not have any observations</i> ))

---

**Table F3. Early Life Conditions (see note A)**

**Panel F3.1. Birthplace and Timing of Birth (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
a16	Have you always lived here?	1-yes → skip to question 3 (a18) 0-no
a17	For how many years did you live elsewhere?	(years)
<b>a20</b>	Where were you born?	(province, region, city) (see note B)
<b>west_dob</b>	Date of birth.	(day, month, year)

**Panel F3.2. Childhood Nutrition**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>height (u3)</b>	Height.	(centimeters)
<b>u10</b>	Waist circumference.	(centimeters)
<b>u9</b>	Hip circumference.	(centimeters)

---

**Table F4. Adult Lifestyle (see note A)**

---

<b>Panel F4.1. Adult Smoking (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>u25</b>	Have you ever smoked cigarettes (including hand-rolled or device-rolled)?	0-never smoked 1-yes 8-refuse to answer 9-don't know
<b>u27</b>	Do you still smoke cigarettes now?	0-no 1-yes 8-refuse to answer 9-don't know
<b>Panel F4.2. Adult Exercise (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>u140</b>	Do you spend time on light or very light physical activities during the work day in a week (e.g. sedentary job, job requiring some standing and sitting, office work, watch smith, college student, counter sales person, lab technician)?	(minutes?) 00-no -9-don't know or refuse to answer
<b>u141</b>	Do you spend time on moderate physical activities during the work day in a week (e.g. driver, electrician)?	(minutes?) 00-no -9-don't know or refuse to answer
<b>u142</b>	Do you spend time on heavy or very heavy physical activities during the work day in a week (e.g. farmer, athlete, dancer, steel worker, lumber worker, mason, etc.)?	(minutes?) 00-no -9-don't know or refuse to answer
<b>Panel F4.3. Adult Alcohol Consumption</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>u40</b>	During the past year, have you drank beer or any other alcohol beverage?	0-no 1-yes 8-refuse to answer 9-don't know
<b>Panel F4.4. Health Care Utilization</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>m47</b>	Within the last month, did you receive any preventive health service (for example, a health examination, eye examination, well-child examination, blood test, blood pressure screening, tumor screening, etc.)? If "no" or "unknown," stop here, and go to the next person. If "yes," continue with the next question.	0-no 1-yes 9-unknown
<b>m48</b>	What service did you receive? If more than one type, choose the one that had the highest cost.	1-general physical examination 2-well-child examination 3-blood test 4-blood pressure screening 5-tumor screening 6-gynecological examination

m40a	Did you visit a folk doctor last year?	7-vision or hearing examination 8-other examination 9-unknown 10- undocumented code (contact CHNS survey team for code) -9- not available 0-no 1-yes 9-unkwown
------	--	---

## Table F5. Adult Health Outcomes

### Panel F5.1. Self-Reported Health

Variable	Wording of Question/Description	Scale (if applicable)
<b>u48a</b>	Right now, how would you describe your health compared to that of other people of your age?	1-excellent 2-good 3-fair 4-poor 8-refuse to answer 9-don't know

### Panel F5.2. Anthropometric Measures (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>weight (u2)</b>	Weight.	(kilograms)
systol1 (u4_1)	Systolic blood pressure (for persons age 7 and older only).	(mmHg)
diastol1 (u4_2)	Diastolic blood pressure (for persons age 7 and older only).	(mmHg)
systol2 (u5_1)	Systolic blood pressure (for persons age 7 and older only).	(mmHg)
diastol2 (u5_2)	Diastolic blood pressure (for persons age 7 and older only).	(mmHg)
systol3 (u6_1)	Systolic blood pressure (for persons age 7 and older only).	(mmHg)
diastol3 (u6_2)	Diastolic blood pressure (for persons age 7 and older only).	(mmHg)

### Panel F5.3. Functionality (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>u157</b>	Do you have any difficulty running a kilometer?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u158</b>	Do you have any difficulty walking a kilometer?	1-no difficulty 2-have some difficulty but can do it

		3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u159</b>	Do you have any difficulty walking for 200 meters?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u160</b>	Do you have any difficulty walking across a room?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u161</b>	Do you have any difficulty sitting continuously for 2 hours?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u162</b>	Do you have any difficulty standing up after sitting for a long time?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u163</b>	Do you have any difficulty climbing one staircase?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u164</b>	Do you have any difficulty climbing a few stairs without stopping?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u165</b>	Do you have any difficulty lifting or raising a 5-kg bag, such as a bag of flour, rice or other miscellaneous items?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all

<b>u166</b>	Do you have any difficulty squatting down, kneeling down, or bending over?	8-refuse to answer 9-don't know 1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u167</b>	Do you have any difficulty bathing yourself?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u169</b>	Do you have any difficulty eating by yourself?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u171</b>	Do you have any difficulty putting on your clothes?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u172</b>	Do you have any difficulty combing your hair?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u173</b>	Do you have any difficulty using the toilet?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u174</b>	Does your health condition or physical strength make it difficult for you to do shopping (e.g. buying food, clothes, etc.) without others' help?	1-no difficulty 2-have some difficulty but can do it 3-need help to do it 4-cannot do it at all 8-refuse to answer 9-don't know
<b>u175</b>	Does your health condition or physical strength make it difficult for you to cook without others' help?	1-no difficulty 2-have some difficulty

<b>u176</b>	Does your health condition or physical strength make it difficult for you to use public transportation to go places where it is too far to walk?	but can do it 3-need help to do it 4-Cannot do it at all 1-no difficulty 2-have some difficulty
<b>u177</b>	Does your health condition or physical strength make it difficult for you to manage your money (e.g., record your income and expenses) without others' help?	but can do it 3-need help to do it 4-Cannot do it at all 1-no difficulty 2-have some difficulty
<b>u178</b>	Does your health condition or physical strength make it difficult for you to use the telephone without others' help?	but can do it 3-need help to do it 4-Cannot do it at all 1-no difficulty 2-have some difficulty

---

**Panel F5.4. Chronic Conditions (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
m23	During the past 4 weeks, have you been sick or injured? Have you suffered from a chronic or acute disease?	0-no 1-yes 9-unknown
m40	What was the doctor's diagnosis of your illness or injury?	(codes) -9-missing
<b>u22</b>	Has a doctor ever told you that you suffer from high blood pressure?	0-no 1-yes 8-refuse to answer 9-don't know
u23	For how many years have you had it?	(years) -9-don't know or refuse to answer
u24	Are you currently taking anti-hypertension drugs?	0-no 1-yes 8-refuse to answer 9-don't know
<b>u24a</b>	Has the doctor ever told you that you suffer from diabetes?	0-no 1-yes 8-refuse to answer 9-don't know
u24b	How old were you when the doctor told you about such a situation?	(years) -9-don't know or refuse to answer
u24c	Did you use any of the following treatment methods? Special diet.	0-no 1-yes 8-refuse to answer 9-don't know
u24d	Did you use any of the following treatment methods? Weight control.	0-no 1-yes 8-refuse to answer 9-don't know



u24e	Did you use any of the following treatment methods? Oral medicine.	0-no 1-yes 8-refuse to answer 9-don't know
u24f	Did you use any of the following treatment methods? Injection of insulin.	0-no 1-yes 8-refuse to answer 9-don't know
u24g	Did you use any of the following treatment methods? Chinese traditional medicine.	0-no 1-yes 8-refuse to answer 9-don't know
u24h	Did you use any of the following treatment methods? Home remedies.	0-no 1-yes 8-refuse to answer 9-don't know
u24i	Did you use any of the following treatment methods? Qi Gong (or other method).	0-no 1-yes 8-refuse to answer 9-don't know
u24j	Has the doctor ever given you the diagnosis of myocardial infarction?	0-no 1-yes 8-refuse to answer 9-don't know
u24l	Has the doctor ever given you the diagnosis of apoplexy?	0-no 1-yes 8-refuse to answer 9-don't know
u24m	How old were you when you suffered from apoplexy?	(years—if more than once, please give most recent one) -9-don't know or refuse to answer

---

**Panel F5.5. Mortality**

Variable	Wording of Question/Description	Scale (if applicable)
<b>dod</b>	Date of death.	(yyyymmdd)
<b>dod_rpt</b>	Survey year death first reported.	
<b>t7_00</b>	Interview dates.	
<b>t7_06</b>	Interview dates.	

*Source:* Documentation from the following source was used to compile the tables above. University of North Carolina-Chapel Hill. The Carolina Population Center, National Institute of Nutrition and Food Safety, & Chinese Center for Disease Control and Prevention. China Health and Nutrition Survey (CHNS). ICPSR176. Chapel Hill, NC: University of North Carolina [distributor], accessed 2010-02-11. <http://www.cpc.unc.edu/projects/china/data>.

*Notes:*

The China-CHNS working manual is not publicly accessible. See the China-CHNS website for detailed information.

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Panel F2.2.* Variables *a21* and *a27* do not have specified value labels for the province, region, or city available and so birthplace could not be ascertained from this data.

*Note A, Panel F2.3.* All of the income variables have been calculated by the survey staff. These include: income from wages, home gardening income, household farms' income, raising livestock or poultry income, collective household and fishing income, small handicraft and small commercial household business income, and income from other sources. There are also additional questions regarding drinking water, environmental sanitation, and household assets including *l1-l18*. There are several other questions available for household assets from *l90-l140g*.

*Note A, Table F3.* Questions *a16-a27* were only asked of the head of the household.

*Note A, Table F3.1.* There is also a variable on father's birthplace available. However, variable *a20* for respondent's birthplace does not have specified value labels for the province, region, or city available and so birthplace could not be ascertained from this data.

*Note A, Table F4.* In the Community Survey, there is extensive information on household diet.

*Note A, Panel F4.1.* There are additional smoking questions (*u26-u33*) in terms of frequency, how old the respondent was when they began smoking, and use of pipe tobacco.

*Note A, Panel F4.2.* There are additional variables for physical activities including *u143-u156*.

*Note A, Panel F5.2.* In the Physical Examination, there are additional measures including upper arm circumference and triceps skin fold. They also describe other conditions such as loss of vision. Furthermore, there are cognitive questions included (variables *u179-u192*).

In some cases in China-CHNS, the variable listed in the questionnaire is different from the data set. For example, the variable *u2* in the questionnaire is renamed as *weight* in the data set.

*Note A, Panel F5.3.* Variables *u48* and *u49* in the Physical Examination ask about difficulty in carrying out normal daily activities due to illness.

*Note A, Panel F5.4.* Variable *m40* does not have specified value labels for the illness or injury available and so recent injuries/illnesses could not be ascertained from this data.

**NOTE B.**

Responses for variables *a21* and *a27* are as follows:

- 11-Beijing
- 12-Tianjin
- 13-Hebei
- 14-Shanxi
- 15-Inner Mongolia
- 21-Liaoning
- 22-Jilin
- 23-Heilongjiang
- 31-Shanghai
- 32-Jiangsu
- 33-Zhejiang
- 34-Anhui
- 35-Fujian
- 36-Jiangxi
- 37-Shandong
- 41-Henan
- 42-Hubei
- 43-Hunan
- 44-Guangdong
- 45-Guangxi
- 46-Hainan

51-Sichuan  
52-Guizhou  
53-Yunnan  
54-Tibet  
55-Chongqing  
61-Shaanxi  
62-Gansu  
63-Qinghai  
64-Ningxia  
65-Xinjiang

### Appendix G: China-CLHLS original variables

The tables below describe the original variables from the China-CLHLS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the China data that should be taken into account when examining the data.

**Table G1. Respondent (see note A)**

Variable	Wording of Question/Description	Scale (if applicable)
d5respon	Who answered the questionnaire?	-9-lost to follow-up in 2005 survey -7-deceased persons only, not applicable 0-parent 1-spouse 2-child 3-spouse of a child 4-grandchild or spouse of grandchild 5-relative 6-neighbor 7-social worker 8-other 9-missing -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivor 99-missing
day02	Day of the interview.	
<b>id</b>	ID number for individual.	
month02	Month of the interview.	(month)
prov	National code for provinces sampled.	11-beijing 12-tianjian 13-hebei 14-shanxi 21-liaoning 22-jilin 23-helongjiang 31-shangai 32-jiangus 33-zhejiang 34-anhui 35-fujian 36-jiangxi 37-shangdong 41-henan 42-hubei 43-hunan

<b>ra2</b>	Proxy.	44-guangdong 45-guangxi 50-chongqing 51-siachuan 61-shaanxi 0-without proxy 1-with proxy 9-missing
<b>residenc</b>	Category of residence of the interviewee at the 2002 survey.	1-city 2-town 3-rural
<b>type</b>	Category of the interviewee.	1-elder first interviewed in 1998 2-elder first interviewed in 2000 3-elder first interviewed in 2002 to replace those lost to follow-up or death 4-newly added elder in 2002 5-siblings aged 80+ of 1, 2, 3, 4
<b>w_2002</b>	Weight variable, estimated based on 100% age-sex-residence-specific distribution	

---

### **Table G2. Demographics (see note A)**

#### **Panel G2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a1</b>	Sex.	1-male 2-female
<b>f41</b>	Current marital status.	1-married and living with spouse 2-separated 3-divorced 4-widowed 5-never married
<b>trueage</b>	Age confirmed.	

---

#### **Panel G2.2 Ethnicity, Race and Language**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a2</b>	Ethnic group.	1-Han 2-Hui 3-Zhuang 4-Yao 5-Korea 6-Man 7-Mongolia 8-others 9-missing

---

#### **Panel G2.3. Education, Income and Wealth**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>d5</b>	What kind of water do you usually drink?	1-boiled water 2-un-boiled water 9-missing
<b>d6b</b>	(d5: What kind of water do you usually drink?)	1-water from a well

	Such water was ____ around age 60?	2-water from a river or lake 3-water from a spring 4-water from a pond or pool 5-tap water 8-don't know 9-missing
d6c	(d5: What kind of water do you usually drink?) Such water was ____ at present?	1-water from a well 2-water from a river or lake 3-water from a spring 4-water from a pond or pool 5-tap water 9-missing
f1	How many years did you attend school?	(years) 88-don't know 99-missing
f2	What was your primary occupation before age 60?	0-professional or technical personnel 1-governmental, institutional or managerial personnel 2-staff/service worker/industrial worker 3-self-employer 4-agriculture, forestry, animal husbandry, fishery 5-housewife 6-military personnel 7-unemployed 8-other, please specify 9-missing
f12a	How much money (including cash and value of materials) did you get last year from your sons and their spouses both living and not living with you?	(Yuan) -1-not applicable 99999-missing
f12b	How much money (including cash and value of materials) did you get last year from your daughters and their spouses both living and not living with you?	(Yuan) -1-not applicable 99999-missing
f13a	How much money (including cash and value of materials) did you give last year to your sons and their spouses both living and not living with you?	(Yuan) -1-missing 99999-missing
f13b	How much money (including cash and value of materials) did you give last year to your daughters and their spouses both living and not living with you?	(Yuan) -1-not applicable 99999-missing
f22	Which year did you retire?	-1-not applicable 9999-missing
f21	Do you have a pension for retirement?	1-yes 2-no 9-missing
f31	What is your primary means of financial	1-retirement wages

	support?	2-spouse 3-child(ren) 4-grandchild(ren) 5-other relative(s) 6-local government 7-work by self 8-other, please specify (number)
f32	Other financial sources?	1-yes
f33	Does all of your financial support sufficiently pay your daily costs?	2-no 9-missing
<b>f35</b>	What was the income per capita of your household last year?	(Yuan, if more than 100,000, please fill 99998) 99999-missing

---

**Panel G2.4 Family and Household (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
a51	Co-residence of interviewee.	1-with household member(s) 2-alone 3-in an institution (number of persons)
<b>a52</b>	How many people are living with you?	-1-not applicable
a531	Under whose name your current house/apartment purchased or rented	-1-not applicable 1-self 2-children 3-grandchildren 4-other relatives 5-others 9-missing
<b>f10</b>	How many children, including those who have died, did you ever born?	(number) 88-don't know 99-missing
<b>f9</b>	How many biological siblings, including those who have died, do you have?	(number) 88-don't know 99-missing
<b>f91</b>	What is your birth order among all your biological siblings?	(list order) 88-don't know 99-missing
f92a1	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Birth order.	(list order) -1-not applicable 88-don't know 99-missing
f92a2	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Sex.	1-male 2-female -1-not applicable 8-don't know 9-missing
f92a3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living 2-no, not living -1-not applicable 8-don't know 9-missing

f92a4	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Age.	(if alive, fill in the age at present; if dead, fill in the age of death)
		-1-not applicable
		888-don't know
		999-missing
f92b3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92c3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92d3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92e3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92f3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92g3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92h3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92i3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing
f92j3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living
		2-no, not living
		-1-not applicable
		8-don't know
		9-missing



f92k3	Please tell me about your biological brothers and sisters who live elsewhere or have died, by birth order. Alive or not.	1-yes, living 2-no, not living -1-not applicable 9-missing
-------	--	---

**Table G3. Early Life Conditions**  
**Panel G3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a41</b>	In which province were you born?	(province) 11-beijing 12-tianjian 13-hebei 14-shanxi 15-inner mongolia 21-liaoning 22-jilin 23-helongjiang 31-shangai 32-jiangsu 33-zhejiang 34-anhui 35-fujian 36-jiangxi 37-shangdong 41-henan 42-hubei 43-hunan 44-guangdong 45-guangxi 46-hainan 50-chongqing 51-sichuan 52-guizhou 53-yunnan 61-shaanxi 62-gansu 64-ningxia 71-taiwan 90-north korea 91-south korea 93-indonesia 95-vietnam 96-others 98-don't know 99-missing
<b>a42</b>	Was the country (city) you were born in the same as current address?	1-same as current address 2-other city or country 9-missing
<b>a43</b>	Was the place of birth an urban area or rural area (at time of birth)?	1-urban 2-rural 9-missing
<b>v_bthmon</b>	Validated birth month.	

v\_bthyr Validated birth year.

**Panel G3.2. Childhood Health and Nutrition**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
d6a	(d5: What kind of water do you usually drink?) Such water was _____ in childhood?	1- from a well 2- from a river or lake 3- from a spring 4 from a pond or pool 5-tap water 8-don't know 9-missing
f66	Did you frequently go to bed hungry as a child?	1-yes 2-no 8-did not answer (only for the 2002 new-added) 9-missing
g102a	Length from the wrist to the shoulder.	(centimeters) 999-missing
g102b	Length from the right knee to the floor.	(centimeters) 999-missing

**Panel G3.3. Childhood SES**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
f63	Could you get adequate medical service when you were sick in childhood?	1-yes 2-no 3-not sick (only for the elderly from 1998) 8-didn't answer 9-missing
f84	The main occupation of your father before age 60.	0-professional or technical personnel 1-governmental, institutional or managerial personnel 2-staff/service worker/industrial worker 3-self-employed 4-agriculture, forestry, animal husbandry, fishery 5-housewife 6-military personnel 7-unemployed 8-other, please specify 9-missing

**Table G4. Adult Lifestyle (see note A)**

**Panel G4.1. Adult Smoking**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
d71	Do you smoke at the present time?	1-yes 2-no 9-missing
d72	Did you smoke in the past?	1-yes 2-no 9-missing
d73	How old were you when you began to smoke?	(age)

d74	How old were you when you stopped smoking if you don't smoke at present?	-1-not applicable 888-don't know 999-missing (age)
d75	If you smoke at the present time (or smoked in the past), how many times per day on average do (or did) you smoke?	-1-not applicable 888-don't know 999-missing (times)

---

**Panel G4.2. Adult Exercise (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>d91</b>	Do you do exercises regularly at present?	1-yes 2-no 9-missing
<b>d92</b>	Did you do exercises regularly in the past?	1-yes 2-no 9-missing
d93	How old were you when you began to do exercises?	(age) -1-not applicable 888-don't know 999-missing
d94	How old were you when you were stopped doing exercises if you don't do exercises at present?	(age) -1-not applicable 888-don't know 999-missing
d101	Have you done physical labor regularly?	1-yes 2-no 9-missing
d102	If yes, from which age?	(from age) -1-not applicable 888-missing 999-missing
d103	...to which age?	(to age) -1-not applicable 888-missing 999-missing

---

**Panel G4.3. Adult Alcohol Consumption**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>d81</b>	Do you drink alcohol at the present time?	1-yes 2-no 9-missing
<b>d82</b>	Did you drink alcohol in the past?	1-yes 2-no 9-missing
d83	How old were you when you began to drink alcohol?	(age) -1-not applicable 888-don't know 999-missing
d84	How old were you when you stopped drinking	(age)

	alcohol if you don't drink alcohol at present?	-1-not applicable 888-don't know 999-missing
d85	If you drink alcohol at the present time (or drank in the past), what kind of alcohol do (or did) you drink?	1-very strong liquor (>38%) 2-not very strong liquor (<38%) 3-wine 4-rice wine 5-beer 6-others -1-not applicable 9-missing
d86	If you drink alcohol at the present time (or drank in the past), how much alcohol per day on average do (or did) you drink?	(liang) -1-not applicable 88-don't know 99-missing

---

**Panel G4.4. Health Care Utilization (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
f5	When you are sick, who usually takes care of you?	0-spouse 1-son or daughter-in-law 2-daughter and son-in-law 3-son and daughter 4-grandchildren and their spouses 5-other family members 6-friends 7-social service 8-matron 9-nobody 99-missing
f61	Do you get adequate medical service at present?	1-yes 2-no 9-missing
f62	Could you get adequate medical service when you were sick at around age 60?	1-yes 2-no 3-not sick (only for the elderly from 1998 & 2000 waves) 9-missing 8-didn't answer (only for the 2002 new-added)
f64	Mainly who pays for your medical costs?	1-public medical care fund 2-self 3-family and children 4-others (please specify) 9-missing
f65	What's the primary reason that you didn't go to the hospital when it was necessary?	-1-not applicable 1-no money to pay for expenses 2-far away 3-inconvenient in movement 4-nobody with whom to go 5-didn't want to go 6-other

---

9-missing

**Table G5. Adult Health Outcomes (see note A)****Panel G5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>b12</b>	How do you rate your health at present?	1-very good 2-good 3-so so 4-bad 5-very bad 8-not able to answer
h3	The health of the interviewee as rated by the interviewer	1-surprisingly healthy 2-relatively healthy 3-moderately ill 4-very ill 9-missing

**Panel G5.2. Anthropometric and Performance Measures (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>g101</b>	Weight.	(kilograms)
g51	Systolic blood pressure.	(mm mercury) 999-missing
g52	Diastolic blood pressure.	(mm mercury) 999-missing
g3	Can the interviewee use chopsticks to eat?	1-yes 2-no 9-missing
g81	Can interviewee put hand behind neck?	1-right 2-left 3-both 4-neither 9-missing
g82	Can interviewee put hand behind lower back?	1-right 2-left 3-both 4-neither 9-missing
g83	Can interviewee raise arms upright?	1-left 2-right 3-both 4-neither 9-missing
g9	Can the interviewee stand up from sitting in a chair?	1-yes, without using hands 2-yes, using hands 3-no 9-missing
g11	Was the interviewee able to pick up a book from the floor?	1-yes, standing 2-yes, sitting 3-no 9-missing
g12	Was the interviewee able to turn around 360 degrees without help? If yes, please count the number of steps required to finish the turn.	(steps) 88-no 99-missing

### Panel G5.3. Functionality

Variable	Wording of Question/Description	Scale (if applicable)
e1	Bathing-either sponge bath, tub bath, shower or washing the body.	1-receives no assistance 2-receives some assistance with one part of the body 3-receives assistance with more than one part of the body 9-missing
e2	Dressing-gets clothes from closets and drawers—including underwear, outer garments and fasteners (including suspenders, if worn)	1-gets clothes and gets completely dressed without assistance 2-gets clothes and gets assistance without assistance except for tying shoes 3- receives assistance in getting clothes or in getting dressed, or stays partly or completely undressed 9-missing
e3	Toilet-going to the toilet; cleaning oneself afterwards.	1-goes to the toilet, cleans self, and arranges clothes without assistance 2-receives assistance in going to toilet or in cleaning self afterwards or in use of bedpan 3- doesn't use toilet
e4	Transfer.	1-gets in and out of bed as well as in and out of a chair without assistance 2- gets in and out of bed or chair w/ assistance 3-bedridden
e5	Continence.	1-has complete control of urination and bowel movement without assistance 2-has occasional accidents 3-supervision helps keep urine or bowel control; catheter used or elder incontinent 9-missing
e6	Feeding.	1-feeds self without assistance 2-feeds self w/ some help 3-receives assistance in feeding or is fed partly or completely intravenously 9-missing
e7	Can you visit your neighbors by yourself?	1-yes, independently 2-yes, needs some help 3-no, can't
e8	Can you go shopping by yourself?	1-yes, independently 2-yes, needs some help

<b>e9</b>	Can you cook a meal by yourself whenever necessary?	3-no, can't 1-yes, independently 2-yes, needs some help 3-no, can't 9-missing
<b>e10</b>	Can you wash clothing by yourself whenever necessary?	1-yes, independently 2-yes, needs some help 3-no, can't 9-missing
<b>e11</b>	Can you walk continuously for 1 kilometer at a time by yourself?	1-yes, independently 2-yes, needs some help 3-no, can't 9-missing
<b>e12</b>	Can you lift a weight of 5kg, such as a heavy bag of groceries?	1-yes, independently 2-yes, needs some help 3-no, can't 9-missing
<b>e13</b>	Can you continuously crouch and stand up 3 times?	1-yes, independently 2-yes, needs some help 3-no, can't 9-missing
<b>e14</b>	Can you take public transport by yourself?	1-yes, independently 2-yes, needs some help 3-no, can't 9-missing

---

#### **Panel G5.4. Chronic Conditions**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>g15a2</b>	Are you suffering from hypertension? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15b2</b>	Are you suffering from diabetes? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15c2</b>	Are you suffering from heart disease? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15d2</b>	Are you suffering from stroke, cerebrovascular disease? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15e2</b>	Are you suffering from bronchitis, emphysema, asthma, pneumonia? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15f2</b>	Are you suffering from pulmonary tuberculosis? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15i2</b>	Are you suffering from cancer? Diagnosed by hospital?	1-yes 2-no 9-missing
<b>g15n2</b>	Are you suffering from arthritis? Diagnosed by hospital?	1-yes 2-no 9-missing

---

#### **Panel G5.5. Adult Mortality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>d5bedday</b>	Days being bedridden before dying.	(days)

		-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -8888-do not know -9999-missing
d5bedrid	Bedridden or not before dying.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-no 2-yes 9-missing
d5cargiv	Primary caregiver before dying.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-spouse 2-children and their spouses 3-grandchildren and their spouses 4-other family members 5-friends 6-social workers 7-nurse 8-nobody to take care 9-no need to take care 99-missing
d5cause	Main cause of death.	(cause- please contact CLHLS survey team for codes) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -88-do not know -99-missing
d5diday3	Days suffering from such disease at the last time.	(days) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -1-not applicable -9999-missing
d5disea3	Name of disease suffering from at the last time.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -1-not applicable 1-hypertension 2-diabetes 3-heart disease



		4-stroke, CVD 5-bronchitis, emphysema, asthma, pneumonia 6-pulmonary tuberculosis 7-cancer 8-cataract or glaucoma 9-prostrate tumor 10-gynecological disease 11-gastric or duodenal ulcer 12-parkinson's disease 13-bedsore 14-dementia 15-psychosis 16-neurosis 17-arthritis 18-other -88-don't know -99-missing
d5doctor	If the deceased elder lived in rural, was there a doctor in the village?	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -1-not applicable 1-no 2-yes 9-missing
d5dplace	Place of death.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-home 2-hospital 3-institution 4-others 9-missing
d5financ	Main financial source before dying.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-retirement wage 2-spouse 3-children 4-grandchildren 5-other relatives 6-local government or community 7-own work 8-others 9-missing
d5gener	Number of generations living in the household when the elderly died.	-9-lost to follow-up in the 2005 survey

d5ill	Number of times suffering from serious illness.	-7-the deceased persons only, not applicable to survivors 1-one generation 2-two generations 3-three generations 4-four or more generations 9-missing (number) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -88-do not know -99-missing
d5income	Yearly per capita income of the family of the deceased elder.	(income) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 99999-missing
d5licdoc	Did the village doctor have a license?	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors -1-not applicable 1-licensed with college degree 2-licensed without college degree 3-unlicensed 9-missing
d5livarr	Primary living arrangement of the deceased elder in the last year of life.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-institution 2-alone due to never married 3-alone due to widowed or divorced 4-with spouse only 5-with married children and grandchildren 6-with grandchildren only 7-with unmarried children and offspring 8-other relatives 9-others 99-missing
d5marry	Marital status of the deceased elder at death.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors

		1-married living with spouse 2-married but not living with spouse 3-divorced 4-spouse dead 5-never married 9-missing -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-yes 2-no 3-was not sick 9-missing
d5medica	Got timely medication before dying.	(number)
d5person	Number of people who are living with the respondent before dying.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 99-missing
d5resid	Place of residence at death.	-9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 1-city 2-town 3-rural
d5sex	Sex of the deceased person.	1-male 2-female -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors
d5vday	Validated day of death of the sampled person.	(day) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 99-missing
d5vmonth	Validated month of death of the sampled person.	(month) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors 99-missing
d5vyear	Validated year of death of the sampled person.	(year) -9-lost to follow-up in the 2005 survey -7-the deceased persons only, not applicable to survivors

*Source:* Documentation from the following source was used to compile the tables above. Yi, Z., Vaupel, J.W., Zhenyu, X., Yuzi, L., & Chunyuan, Z. Chinese Longitudinal Healthy Longevity Survey (CLHLS), 1998-2005. ICPSR24901-v2. Center for the Study of Aging and Human Development: Duke University. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2009-06-19.

[http://centerforaging.duke.edu/index.php?option=com\\_content&view=article&id=115&Itemid=152](http://centerforaging.duke.edu/index.php?option=com_content&view=article&id=115&Itemid=152), <http://centerforaging.duke.edu/survey-datasets>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table G1.* Section H includes questions for the interviewer.

*Note A, Table G2.* There is more information about the household members in section A of the questionnaire. There are also several other questions regarding siblings included in section F.

*Note A, Panel G2.4.* There are questions (*f7* and *f8*) regarding parental death (how old was the respondent and how old their parents were when they died).

*Note A, Table G4.* There are questions on diet in Section D (D1-D6).

*Note A, Panel G4.2.* There are additional variables for physical activities including *u143-u156*.

*Note A, Panel G4.4.* It is unclear whether *f65* is to visit the doctor or to visit the hospital.

*Note A, Table G5.* Section B of the questionnaire contains other variables on life evaluation and personality. All of the chronic conditions have an additional question for self-reported illness (e.g., *g15a1*). This is a way to determine the degree to which these self-reports are underreported. Also associated with these questions are additional questions rating the disability in daily life that can correspond with the functionality questions. There are many questions about the deceased respondent in the section with variables starting with *d5*.

*Note A, Panel G5.2.* Section C of the questionnaire contains information on a mini mental examination (a cognitive test). There are additional questions (*g6* and *g7*) that ask about the rhythm of the heart and heart rate.

## Appendix H: Costa Rica-CRELES original variables

The tables below describe the original variables from the Bangladesh-MHSS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Bangladesh data that should be taken into account when examining the data.

**Table H1. Respondent**

Variable	Wording of Question/Description	Scale (if applicable)
am3	Interviewer: Is the interviewee...	1-able to respond to the questionnaire 2-has serious communication problems (needs proxy) (number)
<b>am5</b>	Of all the people who live here, who is the head (“boss” or “in charge”) of the home? Note number of the person in the register.	
<b>idsujeto</b>	Respondent ID.	
<b>ponderador</b>	Sampling weight.	
<b>proxy</b>	Proxy used?	0-no 1-yes
<b>URBAN</b>	Living in urban area now.	0-no 1-yes

**Table H2. Demographics**

**Panel H2.1. Gender, Age and Marital Status**

Variable	Wording of Question/Description	Scale (if applicable)
<b>a3</b>	What is your current marital status?	1-civil union 2-married 3-widow/er from civil union 4-widow/er from marriage 5-divorced 6-separated from civil union 7-separated from marriage 8-never married or in union 9-dk/nr
<b>age</b>	How old is ____?	(note age)
<b>id4</b>	What is the interviewee’s sex?	1-male 2-female

**Panel H2.2. Education, Income and Wealth (see note A)**

Variable	Wording of Question/Description	Scale (if applicable)
<b>a1</b>	Are you able to read and write a message?	1-yes 2-no
<b>a2a</b>	What was the last level and grade of your formal	9-ns/nr 0-none

	education that you completed?	1-elementary 2-secondary, academic 3-secondary, technical 4-para-university 5-higher education 9-ns/nr (years of study (grade))
<b>a2b</b>	What was the last level and grade of your formal education that you completed?	
am12	Do you receive a pension from social security or from the government?	1-yes 2-no 9-ns/ns
am13	How many pensions do you receive?	(number of pensions)
<b>h20</b>	During the last year, what has been your total monthly income?	(income) 0-none 999-dk/nr
<b>h21</b>	Then would you say your monthly income is: More than 170 thousand colones?	1-yes 2-no 9-dk/nr
<b>h22</b>	Then would you say your monthly income is: More than 80 thousand colones?	1-yes 2-no 9-dk/nr
<b>h23</b>	Then would you say your monthly income is: More than 250 thousand colones?	1-yes 2-no 9-dk/nr
<b>h24</b>	During the last 12 months, what has been the total monthly income of your spouse?	(income) 0-none 999-dk/nr
<b>h25</b>	Then would you say your spouse's monthly income is: More than 170 thousand colones?	1-yes 2-no 9-dk/nr
h26	Then would you say your spouse's monthly income is: More than 80 thousand colones?	1-yes 2-no 9-dk/nr
<b>h27</b>	Then would you say your spouse's monthly income is: More than 250 thousand colones?	1-yes 2-no 9-dk/nr
<b>j18</b>	Does this house have a room just for cooking?	1-yes 2-no 9-dk/nr
<b>j19</b>	What is the fuel most often used for cooking?	1-electricity 2-wood or charcoal 3-gas 4-other 5-none (doesn't cook) 9-dk/nr
<b>j20</b>	Does this house have: Refrigerator?	1-yes 2-no 9-dk/nr
<b>j21</b>	Does this house have: Landline telephone?	1-yes 2-no 9-dk/nr

<b>j23</b>	Does this house have: Washing machine?	1-yes 2-no 9-dk/nr
j24	Does this house have: Microwave?	1-yes 2-no 9-dk/nr
j25	Does this house have: Computer?	1-yes 2-no 9-dk/nr
<b>j26</b>	Does this house have: Potable water within the house?	1-yes 2-no 9-dk/nr
<b>j27</b>	Does this house have: Toilet within the house?	1-yes 2-no 9-dk/nr
<b>j28</b>	Does this house have: Television?	0-no 1-one 2-two 3-three or more 9-dk/nr
<b>j29</b>	Does this house have: Car?	0-no 1-one 2-two 3-three or more 9-dk/nr
<b>j30</b>	Interviewer, evaluate the state of: Exterior walls.	1-poor 2-fair 3-good 9-not able to evaluate
<b>j31</b>	Interviewer, evaluate the state of: Roof.	1-poor 2-fair 3-good 9-not able to evaluate
<b>j32</b>	Interviewer, evaluate the state of: Floor.	1-poor 2-fair 3-good 9-not able to evaluate

---

### **Panel H2.3. Family and Household**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
a16	Is your biological mother still living?	1-yes 2-no 9-dk/nr
a17	How old is your mother/how old was she when she died?	(age) 999-dk/nr
<b>am4</b>	How many people live in this home?	(number)
<b>am6</b>	Now I will ask you about your children. How many live-born children did you have?	(number) 0-none 99-dk/nr
<b>am7</b>	In all, how many children are still alive?	(number) 0-none 99-NS/NR

am8	How many grandchildren do you have?	(number of grandchildren) 98-98 or more grandchildren 99-dk/nr
-----	-------------------------------------	---

### Table H3. Early Life Conditions

#### Panel H3.1. Birthplace

Variable	Wording of Question/Description	Scale (if applicable)
<b>a22a</b>	In which canton were you born?	1-in this canton 2-other canton 3-Nicaragua 4-other country 9-dk/nr
a22b	Which [other canton]?	(list)
a23	How many years did you live in the place of your birth?	(number of years) 97-all his/her life 99-dk/nr
a24a	Where did you live most of your life?	1-in Costa Rica, in this canton 2-other canton of Costa Rica 3-other 4-Nicaragua 9-dk/nr
a24b	Where did you live most of your life? Which other canton of Costa Rica.	(list)
a25	How many years have you been living here?	(years) 99-dk/nr
a26a	Where were you living in 1984?	1-in Costa Rica, in this canton 2-other canton of Costa Rica 3-in another country
a27a	Where were you living in 1973?	1-in Costa Rica, in this canton 2-other canton of Costa Rica 3-in another country 9-dk/nr
<b>id2b</b>	On what day, month and year were you born?	(month) 99-missing (possible miscode)
<b>id2c</b>	On what day, month and year were you born?	(year) 0-possible miscode 9999-dk/nr
id3	How old are you?	(years) 999-dk/nr
<b>pc</b>	Combines code for province and canton.	
<b>gam</b>	Is respondent living in the greater San Jose metropolitan area?	1- Yes 0- No



<b>extranjero</b>	foreigner	1- Yes 0- No
<b>gamofbirth</b>	Was the respondent born in the greater San Jose metropolitan area?	1- Yes 0- No

---

### **Panel H3.2. Childhood Health**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a18</b>	What is (was) the level of education of your mother?	1-none 2-elementary 3-secondary 4-higher education 9-dk/nr
<b>in2</b>	How was your health for the majority of your childhood and adolescence?	1-excellent 2-very good 3-good 4-poor 9-dk/nr
<b>in3</b>	Did you have tuberculosis when you were a child or adolescent?	1-yes 2-no 9-dk/nr
<b>in4</b>	Did you have rheumatic fever when you were a child or adolescent?	1-yes 2-no 9-dk/nr
<b>in5</b>	Did you have poliomyelitis when you were a child or adolescent?	1-yes 2-no 9-dk/nr
<b>in6</b>	Did you have malaria when you were a child or adolescent?	1-yes 2-no 9-dk/nr
<b>in7</b>	Did you have asthma or chronic bronchitis when you were a child or adolescent?	1-yes 2-no 9-dk/nr
<b>in8</b>	During the first 15 years of your life, did your home have a bathroom or latrine?	1-yes 2-no 9-dk/nr
<b>in9</b>	During the first 15 years of your life, did you wear shoes regularly?	1-yes 2-no 9-dk/nr

---

### **Panel H3.3. Childhood Nutrition**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c48a</b>	Is there someone in your family who has or had diabetes? A parent?	1-yes 2-no 9-dk/nr
<b>c48b</b>	Is there someone in your family who has or had diabetes? A sibling?	1-yes 2-no 9-dk/nr
<b>c48c</b>	Is there someone in your family who has or had diabetes? A grandparent?	1-yes 2-no 9-dk/nr
<b>ev17</b>	What is your current height?	(height in centimeters)

<b>k4b</b>	Height.	999-dk/nr height (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k4c</b>	Height.	height (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k5b</b>	Height of the knee.	height (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k5c</b>	Height of the knee.	height (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k6b</b>	Circumference of the waist.	circumference (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k6c</b>	Circumference of the waist.	circumference (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k7b</b>	Circumference of the hip.	circumference (mm) 996-refused 997-attempted but unable 998-not attempted
<b>k7c</b>	Circumference of the hip.	circumference (mm) 996-refused 997-attempted but unable 998-not attempted

---

**Panel H3.4. Childhood SES**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>in1</b>	During the first 15 years of your life, did your family have problems or economic hardships that did not allow you to eat regularly, dress adequately or get necessary medical care?	1=yes 2=no 9-dk/nr
<b>in10</b>	During the first 15 years of your life, did your home have electricity?	1=yes 2=no 9-dk/nr
<b>in11</b>	During the first 15 years of your life, where did you sleep?	1-on the floor 2-on a bed alone 3-on a shared bed 4-other 9-dk/nr
<b>in12</b>	During the first 15 years of your life, did you live with your biological father?	1=yes 2=no 9-dk/nr

---

---

**Table H4. Adult Lifestyle (see note A)****Panel H4.1. Adult Smoking (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ev8</b>	Have you smoked more than 100 cigarettes or cigars in your life?	1-yes 2-no 9-dk/nr
<b>ev10</b>	Do you smoke now?	1-yes 2-no

---

**Panel H4.2. Adult Exercise**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ev14</b>	In the last 12 months, did you exercise regularly or do other physically rigorous activities like sports, jogging, dancing, or heavy work, three times a week?	1-yes 2-no 9-dk/nr

---

**Panel H4.3. Adult Alcohol Consumption (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ev1</b>	Have you ever drank alcoholic drinks on a regular basis?	1-drinks occasionally 2-drinks daily 3-drinks only on special occasions 4-does not currently drink but drank in the past 5-have never drunk 9-dk/nr

---

**Panel H4.4. Health Care Utilization**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>f1</b>	In the last 12 months, has someone from the EBAIS health team visited you?	1-yes 2-no 9-dk/nr
<b>f10</b>	How many appointments or health care visits with a doctor did you have in the last 3 months?	0-none (number) 99-dk/nr
<b>f15</b>	When was the most recent doctor's appointment?	1-less than one month 2-from one to three months 3-from four to six months 4-from seven to eleven months 5-from one year to less than two years 6-from two to four years 7-five or more years 9-dk/nr
<b>f16</b>	Who attended to you in your last visit?	1-doctor 2-nurse 3-pharmacist 4-other professional 5-other practitioner 9-dk/nr
<b>f18a</b>	How long does it take you to get from your home to the place of the office visit?	(hours) 99-NS/NR
<b>f18b</b>	How long does it take you to get from your home to the	(minutes)

---

**Table H5. Adult Health Outcomes (see note A)****Panel H5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c1</b>	How would you say your health is now: Excellent, Very Good, Good, Fair, Poor	1-excellent 2-very good 3-good 4-fair 5-poor 9-dk/nr
<b>c2</b>	How would you say your health is in comparison with other people of your age? Better, equal, worse?	1-better 2-equal 3-worse 9-dk/nr
<b>c3</b>	(Show card.) Now we are going to use a card from which you can choose a number from 1 to 7 to evaluate your state of health, wherein 7 signifies excellent health and 1 poor health. Please choose a number which best describes your state of health.	(number) 1-poor health 7-excellent health 9-dk/nr

**Panel H5.2. Anthropometric and Performance Measures (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>k3b</b>	Weight (in lbs.).	weight (decimal) 996-refused 997-attempted but unable 998-not attempted
<b>k3c</b>	Weight (in lbs.).	weight (decimal) 996-refused 997-attempted but unable 998-not attempted
<b>ev15a</b>	What is your current weight?	(weight in kilograms) 999-dk/nr
<b>ev15b</b>	What is your current weight?	(weight in pounds) 999-dk/nr
<b>c138a</b>	Now, if you will allow me I will check your blood pressure from your arm.	(systolic) 999/999-unable to measure
<b>c138b</b>	Now, if you will allow me I will check your blood pressure from your arm.	(diastolic) 999/999-unable to measure
<b>h28a</b>	Now, if you will allow me I would like to take your blood pressure.	(first reading) 999/999-unable to be taken
<b>h28b</b>	Now, if you will allow me I would like to take your blood pressure.	(second reading) 999/999-unable to be taken
<b>k13 (a-c)</b>	Have the interviewee sit for at least 3 minutes before the first measurement, on the dominant arm, then wait for another three minutes before the second measurement on the same arm. (see labels for k13 variants below)	95-tried but unable 96-not attempted for safety 97-interviewee disabled 98-refused to do it
<b>k13a</b>	Dynamometer (kgs).	(right hand)
<b>k13b</b>	Dynamometer (kgs).	(right hand, whole)
<b>k13c</b>	Dynamometer (kgs).	(right hand, decimal)

k14 (a-c)	Second time. (see labels for k13 variants below)	95-tried but unable 96-not attempted for safety 97-interviewee disabled 98-refused to do it
k14a	Dynamometer (kgs).	(left hand)
k14b	Dynamometer (kgs).	(left hand, whole)
k14c	Dynamometer (kgs).	(left hand, decimal)
k15	Hand strength (dynamometer, kgs). Note which hand was used.	(whole, decimal)
k16 (a-c)	Spirometry. Preferably, this test should be conducted while standing. This test measures how fast you are able to exhale the air in your lungs. It is important that you blow as strong and fast as you can; we will do it three times. (see labels for k16 variants below)	(first reading, L/min) (second reading, L/min) (third reading, L/min) 999-unable to complete
k16a	Spirometry.	(first reading)
k16b	Spirometry.	(second reading)
k16c	Spirometry.	(third reading)
l1	Do you have any problems that would impair you from doing a mobility and flexibility test?	1-yes 2-no
l2 (a-c)	Please stand with your feet together for ten seconds, keeping your eyes open. Stay in that position until I ask you to move. (see labels for l2 variants below)	95-tried, but unable 96-not attempted for safety 98-refused to do it (duration of exercise in seconds) (duration of exercise in hundredths)
l2a	Stand up.	
l2b	Stand up.	(seconds)
l2c	Stand up.	(hundredths)
l3 (a-c)	While keeping your arms crossed on your chest, please stand up as quickly as you can, five times without stopping. Inform the interviewee when to start. If she/he is unable to do it in less than 30 seconds, do not allow him/her to continue and note the number of attempts. (see labels for l3 variants below)	95-tried, but unable 96-not attempted for safety 98-refused to do it (number of attempts) (duration of exercise in seconds) (duration of exercise in hundredths) (height of chair in centimeters)
l3a	Stand up with arms folded.	
l3b	Stand up with arms folded.	(seconds)
l3c	Stand up with arms folded.	(hundredths)
l3d	Chair height.	(height)
l3e	Number of attempts.	(number)
l5 (a-c)	Bending over and picking up a pencil. From a standing position, please bend over and pick up a pencil and straighten yourself up. Interviewer: Put the pencil on the floor in front of the interviewee and let them know when to begin. If the interviewee is not able to do it in less than 30 seconds, do not allow them to continue. (see labels for l5 variants	95-tried, but unable to do it 96-not attempted for safety 98-refused to do it (duration of exercise in seconds) (duration of exercise in hundredths)

	below)	
l5a	Pick up pencil.	
l5b	Pick up pencil.	(seconds)
l5c	Pick up pencil.	(hundredths)
l6 (a-c)	Standing up and walking. From a sitting position on a chair, please stand up and walk to the location I indicate to you. Interviewer: the distance to walk is 3 meters. (See labels for l6 variants below).	95-tried, but unable 96-not attempted for safety 98-refused to do it (duration of exercise in seconds) (duration of exercise in hundredths)
l6a	Stand up and walk.	
l6b	Stand up and walk.	(seconds)
l6c	Stand up and walk.	(hundredths)

---

**Panel H5.3. Functionality (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
d1	Are you able to walk?	1-yes 2-no
<b>d2</b>	Is it difficult for you to walk a few blocks?	1-yes 2-no 3-not able 4-does not do it 9-dk/nr
<b>d3</b>	Is it difficult for you to climb up a few stories by stairway without resting?	1-yes 2-no 3-not able 4-does not do it 9-dk/nr
<b>d4</b>	Is it difficult for you to push or pull a large object such as a recliner chair?	1-yes 2-no 3-not able 4-does not do it 9-dk/nr
d5	Please stand up and lift your arm(s) above your shoulder(s).	1-lifted them completely 2-lifted them partially 3-not able to lift them 4-did not attempt the test
<b>d6</b>	Is it difficult for you to walk from one side of the room to the other?	1-yes 2-no 9-dk/nr
<b>d8</b>	Is it difficult for you to bathe yourself, including entering and exiting the bath tub?	1-yes 2-no 9-dk/nr
<b>d11</b>	Do you have difficulty in eating, including cutting your food, pouring drinks into glasses, etc.?	1-yes 2-no 9-dk/nr
<b>d13</b>	Do you have difficulty getting in or out of bed?	1-yes 2-no 9-dk/nr
<b>d16</b>	Do you have difficulty in using the bathroom, including sitting or getting up from the toilet?	1-yes 2-no 9-dk/nr
<b>d19</b>	Do you have difficulty cutting your toenails?	1-yes

<b>d21</b>	Do you have difficulty in preparing a hot meal?	2-no 9-dk/nr 1-yes
<b>d23</b>	Do you have difficulty managing your own money?	2-no 9-dk/nr 1-yes
<b>d25</b>	Do you have difficulty in shopping (for example, food or clothes)?	2-no 9-dk/nr 1-yes
<b>d27</b>	Do you have difficulty taking your medications?	2-no 9-dk/nr 1-yes

---

**Panel H5.4. Chronic Conditions**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c4</b>	Has a physician ever told you that you have high blood pressure (hypertension)?	1-yes 2-no 8-dk 9-nr
<b>c10</b>	Has a physician ever told you that you have diabetes (high levels of sugar in the blood)?	1-yes 2-no 8-dk 9-nr
c11a	How old were you when you were first told that you had diabetes?	(age) 9999-dk/nr
c11b	How old were you when you were first told that you had diabetes?	(year) 9999-dk/nr
c12	Are you taking pills to control your diabetes?	1-yes 2-no 9-dk/nr
c13	Are you using insulin injections to control your diabetes?	1-yes 2-no 9-dk/nr
c14	How often do you measure your blood sugar levels yourself?	1-more than once a day 2-once a day 3-once per week 4-less than once per week 5-never 7-other 8-dk 9-nr
c15	How often do you have medical check-ups for your diabetes?	1-once every 3 months 2-once every 6 months 3-once a year 4-less than once per year 5-does not have check-ups 8-dk 9-nr
c16	Did this problem make you change your daily activities in home or at work?	1-very much 2-little

c17	When was the last time that a physician did a test to know if you had sugar in your blood?	3-none 9-dk/nr 1-less than 6 months 2-from 6 to 11 months 3-from 1 to 2 years 4-more than 2 years 5-never 8-dk 9-nr
<b>c18</b>	Has a physician ever told you that you have cancer or a malignant tumor, not including small skin tumors?	1-yes 2-no 8-dk 9-nr
<b>c22</b>	Has a physician ever told you that you have a chronic respiratory or pulmonary disease, like emphysema, tuberculosis, asthma or chronic bronchitis?	1-yes 2-no 8-dk 9-nr
<b>c26</b>	Has a physician ever told you that you have had a heart attack?	1-yes 2-no 9-dk/nr
<b>c32</b>	Has a physician ever told you that you have a heart disease without having a heart attack?	1-yes 2-no 8-dk 9-nr
c33a	How old were you when this heart problem was diagnosed?	(age) 9999-dk/nr
c33b	How old were you when this heart problem was diagnosed?	(year) 9999-dk/nr
<b>c35</b>	Has a physician even told you that you have had a stroke?	1-yes 2-no 8-dk 9-nr
<b>c41</b>	Has a physician ever told you that you have arthritis, rheumatism or arthrosis?	1-yes 2-no 8-dk 9-nr
c44	Has a physician ever told you that you have osteoporosis (bone fragility)?	1-yes 2-no 8-dk 9-nr
DIABGLUC-CONTROL	Diabetes measured by level of glucose (SG $\geq$ 126 mg/dL). SG is the respondent's fasting serum glucose.	0-not diabetic 1-controlled diabetic 2-uncontrolled diabetic 3-hidden diabetic
DIABHEMO	Diabetes measured by level of glycosylated hemoglobin (HbA <sub>1c</sub> $\geq$ 6.5%).	0-not diabetic 1-controlled diabetic 2-uncontrolled diabetic 3-hidden diabetic

---

### Panel H5.5. Adult Mortality

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>muerto</b>	Respondent is either dead or assumed to be	1=dead, 0=alive

---



---

alive.

---

*Source:* Documentation from the following source was used to compile the tables above. Rosero-Bixby, L., FernándeX, X., & Dow, W.H. CRELES: Costa Rican Longevity and Healthy Aging Study, 2005 (Costa Rica Estudio de Longevidad y Envejecimiento Saludable). ICPSR26681-v2. Ann Arbor, MI: Inter-university Consortium for Political and Social Research; Costa Rica: The Central American Population Center [distributor], accessed 2007-07-09.

<http://www.icpsr.umich.edu/icpsrweb/NACDA/studies/26681/version/2>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Panel H2.2.* There are other questions about housing, including home ownership (*j1-j17*) in the questionnaire.

*Note A, Table H4.* There are several questions available in the questionnaire regarding adult diet.

*Note A, Panel H4.1.* There are other questions about smoking (*ev9, ev11-ev13*) in the questionnaire.

*Note A, Panel H4.3.* There are several other questions about drinking (*ev2-ev7*) in the questionnaire.

*Note A, Table H5.* There are several symptom questions (*c84-c100*) that could be related to diabetes included in the questionnaire. There are also several questions relating to well-being (*c119-c127*) and questions relating to preventive care (*c128-c134*).

*Note A, Panel H5.2.* There is a cognitive evaluation in Section B of Round 1 of the Costa Rican survey. WHO recommends serum glucose levels to identify diabetes while hemoglobin levels are used to control treatment (see Brenes, 2008).

*Note A, Panel H5.3.* There are additional questions about whether or not the respondent uses an apparatus or gets assistance in performing these activities.

## Appendix I: England-ELSA original variables

The tables below describe the original variables from the England-ELSA survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the England data that should be taken into account when examining the data.

**Table I1. Respondent (see note A)**

Variable	Wording of Question/Description	Scale (if applicable)
<b>askpx1</b>	Identifies proxy interviews.	1=yes; proxy 0=no; self-interview
cpid	Person number of partner.	-1-not applicable
finstat	Final status of respondent after Wave 2 interview.	C1CM-core sample member C1CP-core partner C1YP-younger partner (who responded at Wave 1) C1YP_unprod-younger partner (who did not respond at Wave 1) C1NP1-new partner (found at Wave 1 who responded at Wave 1) C1NP1_unprod-new partner (found at Wave 1 who did not respond at Wave 1) C1NP2-new partner (found at Wave 2)
hseyr	HSE source survey year.	
iapid	Identifies which financial unit member answered questions from IA.	-1-not applicable
idahhw1	Wave-specific (wave 1) household serial number.	(five digit serial number)
idahhw2	Wave-specific (wave 2) household serial number.	(five digit serial number)
idaindw1	Wave-specific (wave 1) individual serial number.	(individual serial number)
idaindw2	Wave-specific (wave 2) individual serial number.	(individual serial number)
<b>idauniq</b>	Unique individual serial number.	(number)
<b>w2wgt</b>	Used for weighting (non-response weight multiplied by Wave 1 weight, scaled to ensure average of 1 and that weight total sample size equaled unweighted).	
w2wtnur	Weight for nurse data (excluding blood sample analyses).	(weight)

**Table I2. Demographics (see note A)**

**Panel I2.1. Gender, Age and Marital Status**

Variable	Wording of Question/Description	Scale (if applicable)
<b>dimar</b>	What is [your/name's] current legal marital status?	1-single, that is never married 2-married, first and only marriage 3-remarried, second or later

<b>indager</b>	Computed from date of birth (indob) and date of interview (intdat), both of which have been dropped from the dataset. All respondents over age 90 have been classified as 99 years old for confidentiality reasons.	marriage 4-legally separated 5-divorced 6-widowed -8-don't know (list)
<b>indsex</b>	Definitive sex variable.	99-age on or before 29/02/1914 collapsed 1-male 2-female

---

### Panel I2.2. Ethnicity, Race and Language

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>fqethnr</b>	Can I check, to which of the groups on this card do you consider that [you/name] belong?	1-white 2-non-white-9-refusal -8-don't know

---

### Panel I2.3. Education, Income and Wealth (see note A)

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>edqual</b> (wave 1)	Highest educational qualification.	1- NVQ4/NVQ5 degree or equivalent 2-higher education below degree 3-NVQ3/GCE a level equivalent 4-NVQ2/GCE o level equivalent 5-NVQ1/CSE other grade equivalent 6-foreign/other 7-no qualification -1-not applicable -8-don't know -9-refusal
<b>eqtotinc_bu sclddr</b>	Benefit unit equalized total income. Think of this ladder as representing where people stand in our society. At the top of the ladder are the people who are the best off – those who have the most money, most education and best jobs. At the bottom are the people who are the worst off – who have the least money, least education and the worst jobs or no jobs. The higher up you are on this ladder, the closer you are to people at the very top and the lower you are, the closer you are to people at the very bottom. Please mark a cross on the rung on the ladder where you would place yourself.	-3-not imputed (range 0-100) 5-worst off 100-best off -9-not answered -1-not applicable
<b>topqual3</b> (wave 0)	Highest educational qualification.	1-NVQ4/NVQ5 degree or equivalent 2-higher education below degree 3-NVQ3/GCE a level equivalent 4-NVQ2/GCE o level equivalent 5-NVQ1/CSE other grade equivalent

<b>totinc_bu</b>	Benefit unit total income.	6-foreign/other 7-no qualification -1-item not applicable -3-not imputed
<b>Panel I2.4. Family and Household</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>dhnch</b>	In total, how many [BLANK/other] living children do you have? IF ASKED: Step, foster and adoptive children can be included.	(number, range: 0-20) -1-not applicable
<b>dignmy, dignmyW2</b>	How many living grandchildren or great-grandchildren [do you/does [name]] have?	(number, range: 0-97) -8-don't know -1-not applicable
<b>dignmyc</b>	Last time we interviewed [you/Name] on [date of last interview], [you/he/she] told us that [you/he/she] had [number of grandchildren or great-grandchildren reported at last interview] living grandchildren or great-grandchildren. Is this still the case?	1-yes 2-no -8-don't know -1-not applicable
<b>digran, digranW2</b>	[Do you/Does name] have any living grandchildren or great-grandchildren?	1-yes 2-no -8-don't know -1-not applicable
<b>disib</b>	How many living brothers or sisters [do you/does name] have? IF ASKED: Foster/adoptive/step-brothers/sisters can be included.	(number, range: 0-97) -8-don't know -1-not applicable
<b>hhtot</b>	Number of people in household/computed.	

### Table I3. Early Life Conditions

#### Panel I3.1. Birthplace

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>fqcbthr, fqcbthrW2</b>	In which country [were you/was [name]] born?	1-England 2-Scotland 3-Wales 4-Northern Ireland 5-Republic of Ireland 6-Elsewhere outside of UK -8-don't know -1-not applicable
<b>indoby</b>	Definitive year of date of birth.	-7-DOB collapsed to avoid disclosure if respondent at 90 plus
<b>pobr</b>	Country of birth.	1-England 2-Elsewhere
<b>countr</b>	Country of birth.	1-England 2-Elsewhere -9-refusal -8-don't know
<b>fqcbthr</b>	Country of birth.	1-England 2-Elsewhere -9-refusal -8-don't know

-1-not applicable

<b>Panel I3.2. Childhood Nutrition (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
bmi	BMI - inc. unreliable measurements (kg/m <sup>2</sup> ).	(BMI) -1-not applicable
bmiobe	Valid BMI grouped according to WHO definitions.	1-under 18.5, underweight 2-18.5 or over but less than 25, normal range 3-25 or over but less than 30, pre-obese 4-30 or over but less than 35, obese class I 5-35 or over but less than 40- obese class II 6-40 or over, obese class III
bmiok	Whether BMI measure is valid.	-1-not applicable 1-valid (according to nurse) 2-height/weight not usable (not valid according to nurse) 3-height/weight refused 4-height/weight attempted but not obtained 5-height/weight not attempted
bmival	Valid BMI – inc. estimated >130kg.	(BMI) -1-not applicable
hipokb	Whether hip measurements are valid.	1-usable 1 <sup>st</sup> & 2 <sup>nd</sup> measurements 2-usable 1 <sup>st</sup> & 3 <sup>rd</sup> measurements 3-usable 2 <sup>nd</sup> & 3 <sup>rd</sup> measurements 4-usable 1 <sup>st</sup> & 2 <sup>nd</sup> & 3 <sup>rd</sup> measurements 5-not usable: unreliable (according to nurse) 6-not usable: difference > 3cm 7-partial response 8-refused 9-not attempted (centimeters)
hipval	Valid mean hip.	(centimeters)
htok	Whether height measure is valid.	-1-not applicable 1-valid (according to nurse) 2-height not usable (not valid according to nurse) 3-refused 4-attempted but not obtained 5-not attempted
htval	Valid height.	(centimeters)
sithgt	Nurse: Record sitting height (in centimeters).	-1-not applicable (centimeters)
wstokb	Whether waist measurements are valid.	-1-not applicable 1-usable 1 <sup>st</sup> & 2 <sup>nd</sup> measurements 2-usable 1 <sup>st</sup> & 3 <sup>rd</sup> measurements 3-usable 2 <sup>nd</sup> & 3 <sup>rd</sup> measurements

<b>wstval</b>	Valid mean waist.	4-usable 1 <sup>st</sup> & 2 <sup>nd</sup> & 3 <sup>rd</sup> measurements 5-not usable: unreliable (according to nurse) 6-not usable: difference > 3cm 7-partial response 8-refused 9-not attempted (centimeters) -1-not applicable
---------------	-------------------	---

---

**Panel I3.3. Childhood SES**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>difjob, difjobW2</b>	What was [your/name's] [main carer's/father's/step father's/foster father's/adoptive father's/mother's] main occupation when [you were/he was/she was] 14?	01-armed forces 02-manager or senior official in someone else's business 03-running his own business 04-professional or technical 05-administrative, clerical or secretarial 06-skilled trade 07-caring, leisure, travel or personal services 08-sales or customer service 09-plant, process or machine drivers or operators 10-other jobs 11-something else 12-casual jobs 13-retired 14-unemployed 15-sick/disabled -9-refusal -8-don't know -1-not applicable

---

**Table I4. Adult Lifestyle**

**Panel I4.1. Adult Smoking (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>smkevr</b>	Have you ever smoke cigarettes, pipe, or cigar?	1-yes 2-no -9-no answer/refused -8-don't know
<b>hesmk</b>	Have you ever smoked cigarettes?	1-yes 2-no -9-refusal -8-don't know -4-did respond at W1 but were asked -3-did not respond at w1 but were not asked

<b>heska,</b> <b>heskaW2</b>	[Do you/Does name] smoke cigarettes at all nowadays?	-1-not applicable 1-yes 2-no -1-not applicable -8 don't know
---------------------------------	--	--

---

**Panel I4.2. Adult Exercise**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>heacta</b>	[Show card S.] We would like to know the type and amount of physical activity involved in your daily life. Do you take part in sports or activities that are vigorous...[Interviewer: Read out...]	1-...more than once a week, 2-once a week, 3-one to three times a month, 4-hardly ever, or never? -8-don't know -1-not applicable
heactb	[Show card S.] And do you take part in sports or activities that are moderately energetic...[Interviewer: Read out...]	1-...more than once a week, 2-once a week, 3-one to three times a month, 4-hardly ever, or never? -8-don't know -1-not applicable
heactc	[Show card S.] And do you take part in sports of physical activities that are mildly energetic...[Interviewer: Read out...]	1-...more than once a week, 2-once a week, 3-one to three times a month, 4-hardly ever, or never? -8-don't know -1-not applicable

---

**Panel I4.3. Adult Alcohol Consumption (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>scako</b>	Thinking now about all kinds of drink, how often have you had an alcoholic drink of any kind in the last 12 months?	1-almost every day 2-five or six days a week 3-three or four days a week 4-once or twice a week 5-once or twice a month 6-once every couple of months 7-once or twice a year 8-not at all in the last 12 months -9-not answered -1-item not applicable
scal7a	Did you have an alcoholic drink in the seven days ending yesterday?	1-yes 2-no -9-not answered -1-item not applicable
scal7b	On how many days out of the last seven did you have an alcoholic drink?	1-one 2-two 3-three 4-four 5-five 6-six 7-seven -9-not answered -1-item not applicable
scdri01-	Please tick all drinks drunk on that day.	(number of ticks)

scdrio8

scdrio1 - Normal strength beer, lager, stout, cider or shandy (less than 6% alcohol)-excludes bottles/cans of shandy.

0-no  
1-yes  
-9-not answered  
-1-item not applicable

scdrio2 - Strong beer, lager, stout or cider (6% alcohol or more, such as Tennants, Extra, Special Brew, Diamond White).

scdrio3 - Spirits or liqueurs, such as gin, whisky, rum, brandy, vodka, or cocktails.

scdrio4 - Sherry or martini (including port, vermouth, cinzano, dubonnet).

scdrio5 - Wine (including babycham and champagne).

scdrio6 - Alcoholic soft drinks or ‘alcopops’ (such as Bacardi Breezer, Smirnoff Ice).

---

## Table I5. Adult Health Outcomes

### Panel I5.1. Self-Reported Health

Variable	Wording of Question/Description	Scale (if applicable)
hehelf	Now I would like to ask you some questions about your health. Would you say your health is...INTERVIEWER: Read out...	1-excellent 2-very good 3-good 4-fair 5-poor -8-don't know -1-not applicable

### Panel I5.2. Anthropometric and Performance Measures (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
wtok	Whether weight measure is valid.	1-valid (according to nurse) 2-weight not usable (not valid according to nurse) 3-refused 4-attempted but not obtained 5-not attempted
wtval	Valid weight (Kg) inc. estimated>130kg.	(kilograms) -1-not applicable
bprespc	Whether BP readings are valid—not ate, drank, smoked or exercised recently.	1-valid blood pressure measurement 2-ate, drank, smoked, exercised in previous half hour 3-not known if ate, drank, smoked, or exercised 4-three valid readings not obtained 5-refused, attempted but not



dias	Enter [first/second/third] diastolic reading (mmHg).	obtained, not attempted (mmHg) 999-not obtained 996-not getting blood pressure readings
diaval	Valid mean diastolic blood pressure.	(mmHg) -1-either invalid or incomplete set of BP readings obtained
fev1 – fev3	Enter FEV reading. If no reading obtained enter 'o.'	(FEV reading) -9-no answer/refusal -3-few value likely to have been erroneous reading of fev/fvc -2-no reading obtained -1-not applicable
fv1 – fv3	Enter FVC reading. If no reading obtained enter 'o.' If you are not going to obtain any readings at all enter '9.95.'	(FVC reading in litres) -9-no answer/refusal -2-no reading obtained -1-not applicable
pf1 – pf3	Enter PF reading. If no reading obtained enter 'o.'	(range 0-995) -9-no answer/refusal -8-don't know -2-no reading obtained -1- not applicable
sys1 – sys3	Nurse: Take three measurements from right arm. Enter [first/second/third] systolic reading (mmHg).	(mmHg) 999-not obtained 996-not getting blood pressure readings -2-no reading obtained -1-not applicable
sysval	Valid mean systolic blood pressure.	(mmHg) -1-either invalid or incomplete set of bg readings obtained
mmsstt	When I want you to start, I will say: 'Ready, begin.' Nurse: Ask the respondent to stand up. Stand to the side of the respondent. Say: 'Ready, begin!' Press the start button to start the stopwatch as soon as the respondent gets into the position and removes their hand from the support. If necessary, provide gentle support to the respondent's arm to help [him/her] into the side-by-side stand. Say: 'Ready, begin!' and then let go of [his/her] arm. Stop the stopwatch and say 'Stop' after 10 seconds or when the participant steps out of position or grabs your arm. Nurse: Press 1 and Enter to continue.	(range 1-10)
mmsre	Nurse: Record the outcome of the side-by-side stand.	1-held for 10 seconds 2-held for less than 10 seconds 3-not attempted
mmssti	Nurse: Record the time in seconds to two decimal places (enter the large numbers on the stopwatch display before the decimal point and the small	(time in seconds to two decimal places) -1-not applicable

	numbers after it). Use the full stop as the decimal point, e.g. 6.55.	
mmloint	Nurse: First explain and then demonstrate the leg raise to the respondent: 'Now I will show you the next movement. I want you to try to stand on one leg, whichever one you want, and raise the other leg off the ground a few inches. Stand for as long as you can - I will stop you at 30 seconds. You may use your arms, bend your knees, or move your body to maintain your balance, but try not to move your feet. Try to hold this position until I tell you to stop. You may support yourself on a chair, table or wall while getting into position.' NURSE: Make sure there is a firm support nearby and allow the respondent to practice. Press <1> and <Enter> to continue.	(range 1..1)
mmlostt	When I want you to start, I will say: 'Ready, begin'. NURSE: Ask the respondent to stand up near to a firm support, e.g., wall or chair. Stand to the side of the respondent. SAY: 'Ready, begin!' Press the start button to start the stopwatch as soon as the respondent raises one foot off the ground and removes their hand from the support. If necessary, provide gentle support to the respondent's arm to help [^him / her] into position. SAY: 'Ready, begin!' and then let go of [^his / her] arm. Stop the stopwatch and say 'Stop!' either A) when the raised leg touches the floor as the respondent loses [^his / her] balance or B) after 30 seconds, whichever happens first. Press <1> and <Enter> to continue.	(range 1..1)
mmlore	Nurse: Record the outcome of the leg raise.	1-held for 30 seconds 2-held for less than 30 seconds 3-not attempted -1-ineligible: over 70 years/not held side-by-side for 10 seconds (time in seconds to two decimal places) -1-not applicable
mmloti	Leg raise (eyes open): time leg raise held (seconds).	
mmgswil	Now I would like to assess the strength of your hand in gripping action. I will count up to three and then ask you to squeeze this handle as hard as you can just for two or three seconds and then let go. Nurse: demonstrate. Read out: I will take alternately three measurements from your right and your left hand. Would you be willing to have your handgrip measured?	1-yes 2-no 3-unable to take measurement
mmgsdom	Nurse: Ask or code: Which is your dominant hand?	1-right hand 2-left hand -1-not applicable
mmgssta	Can I just check, have you had a recent hand injury	1-respondent has the use of both

	or surgery to either hand within the last six months? Nurse: If yes, do not attempt grip strength measure with affected hand(s). If respondent cannot use hand(s) for this or any other reason, code below. Record respondent status.	hands 2-respondents is unable to use (left/right (dominant)) hand 3-respondent is unable to use (left/right (non-dominant)) hand 4-respondent is unable to use either hand – test stopped 5-respondent is unwilling or unable to do test – test stopped (0-100) -1-not applicable
mmgsd1	Nurse: (left/right (dominant)) hand, first measurement. Say: “One, two, three, squeeze!” Enter to nearest whole value.	(0-100) -1-not applicable
mmgsn1	Nurse: (left/right (non-dominant) hand, first measurement. Say: “One, two, three, squeeze!” Enter to nearest whole value.	(0-100) -1-not applicable
mmgsd2	Nurse: (left/right (dominant)) hand, second measurement. Say: “One, two, three, squeeze!” Enter to nearest whole value.	(0-100) -1-not applicable
mmgsn2	Nurse: (left/right (non-dominant)) hand, second measurement. Say: “One, two, three, squeeze!” Enter to nearest whole value.	(0-100) -1-not applicable
mmgsd3	Nurse: (left/right (dominant)) hand, third measurement. Say: “One, two, three, squeeze!” Enter to nearest whole value.	(0-100) -9-no answer/refusal -8- don’t know -1-not applicable
mmgsn3	Nurse: (left/right (non-dominant)) hand, third measurement. Say: “One, two, three, squeeze!” Enter to nearest whole value.	(0-100) -9-no answer/refusal -8-don’t know -1-not applicable
mmgstp	Nurse: record respondent’s position.	1-standing without arm support 2-sitting without arm support 3-standing with arm support 4-sitting with arm support -1-not applicable
mmgsres	Number of grip strength measurements obtained	1-all measures obtained 2-some measures obtained 3-no measures obtained -1-not applicable
mmgspr1, mmgspr2	Nurse: give reasons why no or only some measures were obtained. Code all that apply. Multiple responses recorded in variables mmgspr1 to mmgspr2.	1-respondent refusal 2-respondent in pain in hand/joints/muscles 3-equipment failure 95-other (specify in <i>mmgspro</i> ) -1-not applicable
mmbsc	Nurse: check respondent’s status and availability. Ask: “Do you have any problems from recent surgery, injury or other health condition that might prevent you from standing up from a chair or balancing?”	1-yes 2-no
mmsssc	Do you feel that would be safe?	1-yes 2-no

mmssna	Nurse: Record reason side-by-side stand was not attempted.	1-tried but unable 2-participant could not hold position unassisted 3-not attempted, you felt unsafe 4-no attempted, participant felt unsafe 5-participant unable to understand instructions 6-other reason 7-participant refused -1-not applicable
mmstsc	Do you feel that would be safe?	1-yes 2-no -1-not applicable
mmstre	Nurse: record the outcome of the semi-tandem stand.	1-held for 10 seconds 2-held for less than 10 seconds 3-not attempted -1-not applicable
mmstti	Nurse: record the time in seconds to two decimal places. Enter the large numbers on the stopwatch display before the decimal point and the small numbers after it. Use the full stop as the decimal point.	-1-not applicable
mmstna	Nurse: code the reason why semi-tandem stand was not attempted.	1-tried but unable 2-participant could not hold position unassisted 3-not attempted, you felt unsafe 4-no attempted, participant felt unsafe 5-participant unable to understand instructions 6-other reason 7-participant refused -1-not applicable
mmftsc	Do you feel that would be safe?	1-yes 2-no -1-not applicable
mmftre, mmftre2	Nurse: record the outcome of the full tandem stand. Variable <i>mmftre2</i> indicates whether the respondent held the full tandem stand for 10 or 30 seconds (which depended on their age).	1-held for 10 seconds, respondent aged 70 or over 2-held for less than 10 seconds, respondent aged 70 or over 3-held for 30 seconds, respondent aged less than 70 4-held for less than 30 seconds, respondent aged less than 70 5-stand not attempted -1-ineligible-did not hold semi-tandem stand

mmftti	Nurse: record the time in seconds to two decimal places. Enter the large numbers on the stopwatch display before the decimal point and the small numbers after it. Use the full stop as the decimal point.	for ten seconds -1-not applicable
mmftna	Nurse: record reason full tandem stand was not attempted.	1-tried but unable 2-participant could not hold position unassisted 3-not attempted, you felt unsafe 4-not attempted, participant felt unsafe 5-participant unable to understand instructions 6-other reason 7-participant refused -1-not applicable
mmlosc	Leg raise (eyes open): whether respondent feels it is safe to attempt it	1-yes 2-no -1-not applicable
mmlona	Nurse: record reason leg raise was not attempted.	1-tried but unable 2-participant could not hold position unassisted 3-not attempted, you felt unsafe 4-not attempted, participant felt unsafe 5-participant unable to understand instructions 6-other reason 7-participant refused -1-not applicable
mmlssc	Leg raise (eyes shut): whether respondent feels it is safe to attempt it.	1-yes 2-no -1-not applicable
mmlsre	Nurse: record the outcome of the leg raise with eyes shut.	1-held for 30 seconds 2-held for less than 30 seconds 3-not attempted -1-not applicable
mmlsti	Nurse: record the time in seconds to two decimal places. Enter the large numbers on the stopwatch display before the decimal point and the small numbers after it. Use the full stop as the decimal point.	-8-don't know -1-not applicable
mmlsna	Nurse: record reason leg raise with eyes shut was not attempted.	1-tried but unable 2-participant could not hold position unassisted 3-not attempted, you felt unsafe 4-no attempted, participant felt unsafe 5-participant unable to understand instructions

		6-other reason 7-participant refused -1-not applicable 1-suitable chair available 2-no suitable chair available
mmcrav	Nurse: check the availability of a suitable chair.	
mmcrsc	Chair rise: whether respondent feels it is safe to attempt single chair rise. Nurse: if the participant cannot rise without using arms, say, "Okay, try to stand up using your arms."	1-yes 2-no -8-don't know -1-not applicable
mmcrre	Nurse: record the outcome of single chair rise measure.	1-participant stood without using arms 2-participant used arms to stand 3-test not completed -1-not applicable
mmcrna	Nurse: record reason why the test was not completed.	1-tried but unable 2-participant could not hold position unassisted 3-not attempted, you felt unsafe 4-not attempted, participant felt unsafe 5-participant unable to understand instructions 6-other reason 7-participant refused
mmrrsc	Nurse: record whether respondent feels it is safe to attempt multiple chair rises	1-yes 2-no -1-not applicable
mmrrre	Nurse: record the total number of rises completed.	(0-10) -1-not applicable
mmrrfti	Nurse: record the time in seconds to two decimal places to complete five chair rises. Enter the large numbers on the stopwatch display before the decimal point and the small numbers after it. Use the full stop as the decimal point.	-8-don't know -3-chair rises not timed correctly -1-not applicable
mmrrtti	Nurse: record the time in seconds to two decimal places to complete ten chair rises. Enter the large numbers on the stopwatch display before the decimal point and the small numbers after it. Use the full stop as the decimal point.	-8-don't know -3-chair rises not timed correctly -1-not applicable
mmrroc	Chair rise: outcome of multiple chair rises, split by age.	(0-10) 1-completed 5 rises, respondent Aged 70 or over 2-completed less than 5 rises, respondent aged 70 or over 3-completed 10 rises, respondent aged less than 70 4-completed less than 10 rises, respondent aged less than 70 5-not attempted, did not feel it was safe -1-not applicable-did not do single

mmrrna	Nurse: record reason why participant did not attempt or failed to complete all chair rises.	<p>rise successfully  1-tried but unable  2-participant could not hold position unassisted  3-not attempted, you felt unsafe  4-no attempted, participant felt unsafe  5-participant unable to understand instructions  6-other reason  7-participant refused</p>
mmschs	Interviewer: record respondent status.	<p>-1-not applicable  1-observed walking without help of another person or using support  2-observed walking with help of another person or using support  3-not observed-in wheelchair  4-not observed-bed bound  5-not observed-uncertain if respondent has impairment  -9-refusal  -8-don't know</p>
mmalone	I would like to test whether you can walk a very short distance comfortably. Can I just check, are you able to walk alone without holding on to another person (using a walking stick or other aid if necessary)?	<p>-1-not applicable  1-yes  2-yes but aid unavailable  3-no  -9-refusal  -8-don't know</p>
mmhss	I would now like to test whether you can walk a very short distance comfortably (using a walking stick or other aid if necessary). First, I would like to ask a few questions to check it is safe to carry out the test. Do you have any problems from recent surgery, injury, or other health conditions that might prevent you from walking?	<p>-1-not applicable  1-no apparent restriction  2-yes, recent surgery  3-yes, injury  4-yes, other health condition  -9-refusal  -8-don't know</p>
mmwill	Are you willing to do the walking test?	<p>-1-not applicable  1-yes  2-no  -9-refusal</p>
mmsaf	Interviewer: do you feel that it is safe to continue with the walking test?	<p>-1-not applicable  1-yes  2-no</p>
mmavsp	Interviewer: check availability of suitable space.	<p>-1-not applicable  1-suitable space available  2-no suitable space  -9-refusal  -8-don't know</p>

mmwala	This is our walking course. I want you to walk to the other end of the course at your usual walking pace, just as if you were walking down the street to go to the shops. Walk all the way past the other end of the tape before you stop. Interviewer: demonstrate the walk for the respondent. I will walk with you. Do you feel this would be safe?	1-yes 2-no -1-not applicable
mmtrya	Interviewer: record results of first trial. Enter time at next question.	1-completed successfully 2-attempted but unable to complete 3-stopped by interviewer because of safety reasons 4-respondent refused -9-refusal -1-not applicable
mmwlka	Interviewer: record time in seconds to two decimal places.	-9-refusal -8-don't know -1-not applicable
mmtryb	Interviewer: record result of second trial. Enter time at next question.	1-completed successfully 2-attempted but unable to complete 3-stopped by interviewer because of safety reasons 4-respondent refused -9-refusal -8-don't know -1-not applicable
mmwlkb	Interviewer: record time in seconds to two decimal places.	-9-refusal -8-don't know -1-not applicable
mmpain	Interviewer: code if respondent has commented on pain. Otherwise ask: did you have pain while you were performing the walking test?	1-yes 2-no -9-refusal -8-don't know -1-not applicable
mmrecre	Interviewer: record type of floor surface.	1-linoleum/tile/wood 2-low-pile carpet 3-thick-pile carpet 4-concrete 5-others 85-other answer-not codeable 01-04 86-irrelevant-not codeable 01-04 -9-refusal -8-don't know -1-not applicable
mmrecrec	Whether answer to mmrecre was recoded post-interview from text answer.	1-yes (recorded post-interview from other please specify) 2-no (unable to recode original answer) -1-not applicable



mmaid	Interviewer: record type of aid used.	1-none 2-walking stick or cane 3-elbow crutches 4-walking frame 5-others 85-other answer-not codeable 01-04 -9-refusal -8-don't know -1-not applicable
mmaidc	Whether answer to mmaid was recoded post-interview from text answer.	1-yes (recorded post-interview from other please specify) 2-no (unable to recode, original answer) -1-not applicable
mmcomz1	Interviewer: provide details about why the walking test was not completed successfully (i.e. why it was stopped for safety reasons, refused or not completed).	1-unable to walk (safely) 2-lack of space 3-respondent refused 4-interview not completed 5-respondent in pain 85-other answer (not codeable 01-05) 86-irrelevant response (not codeable 01-05) -1-not applicable
mmcomz2	Interviewer: provide details about why the walking test was not completed successfully (i.e. why it was stopped for safety reasons, refused or not completed).	1 unable to walk (safely) 2-lack of space 5-respondent in pain 85-other answer - not codeable 01-05 -1-not applicable
mmcomz3	Interviewer: provide details about why the walking test was not completed successfully (i.e. why it was stopped for safety reasons, refused or not completed).	85-other answer-not codeable 01-05 -1-not applicable

---

**Panel I5.3. Self-Reported Health and Vignettes (see note A)**

---

Variable	Wording of Question/Description	Scale (if applicable)
shache1, swache1	Overall in the last 30 days, what degree of aches and pains have you had?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shwake1, swwake1	In the last 30 days, how much difficulty have you had with sleeping, such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable

shmob1, swmob1	Overall in the last 30 days, how much of a problem have you had with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shmem1, swmem1	Overall in the last 30 days how much difficulty have you had with concentrating or remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shresp1, swresp1	In the last 30 days, how much of a problem have you had because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shsad1, swsad1	Overall in the last 30 days, how much of a problem have you had with feeling sad, low, or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shwork1, swwork1	How much are you limited in the kind or amount of work that you can do due to an impairment or health problem?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shache2, shache3, shache4	Pain vignettes. How much work could you do in last 30 days due to aches and pain?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
swache2, swache3, swache4	How much is [Geoffrey/Linda/Jennifer] limited in the kind or amount of work [he/she] could do?	1-not limited 2-mildly 3-moderately 4-severely 5-extremely -9-refusal -1-not applicable
shwake2, shwake3,	Sleeping vignettes. In the last 30 days, how much difficulty have you had with sleeping, such as	1-none 2-mild

shwake4	falling asleep, waking up frequently during the night or waking up too early in the morning?	3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shmob2, shmob3, shmob4	Mobility vignettes. Overall in the last 30 days, how much of a problem did [Tom/David/Robert /] have with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
swmob2, swmob3, swmob4	How much work could you do in the last 30 days limited due to mobility problems?	1-not limited 2-mildly 3-moderately 4-severely 5-extremely -9-refusal -1-not applicable
shmem2, shmem3, shmem4	Cognition vignettes. Overall in the last 30 days how much difficulty have you had with concentrating or remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shresp2, shresp3, shresp4	Respiratory vignettes. In the last 30 days, how much of a problem have you had because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
shsad2, shsad3, shsad4	Depression vignettes. Overall in the last 30 days, how much of a problem have you had with feeling sad, low, or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme -9-refusal -1-not applicable
swsad2, swsad3, swsad4	How much work could you do in the last 30 days limited due to depression?	1-not limited 2-mildly 3-moderately 4-severely 5-extremely -9-refusal -1-not applicable

---

**Panel I5.4. Functionality (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>headbo1- headbo6</b>	Because of a health or memory problem, do you have difficulty...	(if yes, specify)

---

(Katz and Akpom ADLs)	<ul style="list-style-type: none"> <li>1 - dressing, including putting on shoes and socks</li> <li>2 - walking across a room</li> <li>3 - bathing or showering</li> <li>4 - eating, such as cutting up your food</li> <li>5 - getting into or out of bed</li> <li>6 - using the toilet, including getting up or down</li> <li>7 - using a map to figure out how to get around a strange place</li> <li>8 - preparing a hot meal</li> <li>9 - shopping for groceries</li> <li>10 - making phone calls</li> <li>11 - taking medications</li> <li>12 - doing work around the house or garden</li> <li>13 - managing money, such as paying bills and keeping track of expenses</li> <li>96- none of these</li> <li>-9 - refusal</li> <li>-8 - don't know</li> <li>-1 - not applicable</li> </ul>	
<b>headb07-headb13</b>	Because of a health or memory problem, do you have difficulty...	(if yes, specify)
(IADLs)	<ul style="list-style-type: none"> <li>1 - dressing, including putting on shoes and socks</li> <li>2 - walking across a room</li> <li>3 - bathing or showering</li> <li>4 - eating, such as cutting up your food</li> <li>5 - getting into or out of bed</li> <li>6 - using the toilet, including getting up or down</li> <li>7 - using a map to figure out how to get around a strange place</li> <li>8 - preparing a hot meal</li> <li>9 - shopping for groceries</li> <li>10 - making phone calls</li> <li>11 - taking medications</li> <li>12 - doing work around the house or garden</li> <li>13 - managing money, such as paying bills and keeping track of expenses</li> <li>-9 - refusal</li> <li>-8 - don't know</li> <li>-1 - not applicable</li> </ul>	
<b>heada01-heada10</b>	Because of a health problem, do you have difficulty...	
	<ul style="list-style-type: none"> <li>1 - walking 100 yards</li> <li>2 - sitting for about 2 hours</li> <li>3 - getting up from a chair after sitting for long periods</li> <li>4 - climbing several flights of stairs without resting</li> <li>5 - climbing one flight of stairs without resting</li> <li>6 - stooping, kneeling, crouching</li> </ul>	

- 7 - reaching or extending your arms above shoulder level
- 8 - pulling or pushing large objects like living room chair
- 9 - lifting or carrying weights over 10 pounds, like a heavy bag of groceries
- 10 - picking up a 5p coin from a table
- 8 - don't know
- 1 - not applicable
- 96 - none of these

**Panel I5.5. Chronic Conditions (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>hediao1 – hediao7</b>	Has a doctor ever told you that you have (or have had) any of the conditions on this card (Card E)?	1- High blood pressure or hypertension 2-Angina 3-A heart attack (including myocardial infarction or coronary thrombosis) 4-Congestive heart failure 5-A heart murmur 6-An abnormal heart rhythm 7-Diabetes or high blood sugar 8-A stroke (cerebral vascular disease) 9-high cholesterol 95- Any other heart trouble (please say what) 96- None of these -8-don't know -1-not applicable
W1hediao1- W1hediao7		
<b>hedibo1- hedibo9</b>	Has a doctor ever told you that you have (or have had) any of the conditions on this card?	1-Chronic lung disease such as chronic bronchitis and emphysema 2-Asthma 3-Arthritis (including osteoarthritis or rheumatism) 4-Osteoporosis, sometimes called thin or brittle bones 5-Cancer or malignant tumor (excluding minor skin cancers) 6-Parkinson's disease 7-Any emotional, nervous, or psychiatric problems 8-Alzheimer's disease 9-Dementia, senility or another serious memory impairment -8-don't know 96-none of these -1 – Not applicable
W1hedibo1- W1hedibo9		

<b>hediam1- hediam9</b>	Reason disputed [CVD condition] diagnosis from Wave 1	1-never had 2-no longer has 3- did not have previously, but has now -1-not applicable
<b>hediam1- hediam5</b>	Reason disputed [chronic condition] diagnosis from Wave 1 1 <i>hediam1</i> = pulmonary  <i>hediam3</i> = arthritis  <i>hediam5</i> = cancer	1-never had 2-no longer has 3-did not have previously, but has now -8-don't know -1-not applicable
heacd	Has a doctor ever told you that you have diabetes?	1-yes 2-no -8-don't know
heana	Have you ever had any pain or discomfort in your chest?	-1-not applicable 1-yes 2-no -8-don't know
heanb	Do you get it when you walk uphill or hurry?	-1-not applicable 1-yes 2-no 3-sometimes/occasionally 4-never walks uphill or hurries 5-cannot walk
heanc	Does this happen on most occasions?	-1-not applicable 1-yes 2-no -8-don't know
heand	Do you get it when you walk at an ordinary pace on the level?	-1-not applicable 1-yes 2-no 3-sometimes/occasionally 4-never walks at an ordinary pace on the level
heane	Does this happen on most occasions?	-1-not applicable 1-yes 2-no
heanf	What do you do if you get it while you are walking? Do you... INTERVIEWER: Read out...	-1-not applicable 1-...stop 2-slow down, 3-or, do you carry on? -8-don't know
heang	If you stand still does the pain go away or not? INTERVIEWER: If respondent unsure, probe— What happens to the pain on most occasions?	-1-not applicable 1-pain goes away 2-pain doesn't go away -8-don't know
heanh	How soon does the pain go away? Does it go in...INTERVIEWER: Read out...	-1-not applicable 1-...10 minutes or less, 2-or, more than 10 minutes?

heanj	Please could you tell me where you get this pain or discomfort? INTERVIEWER: Write in.	-8-don't know -1-not applicable (string)
heani1- heani6	Show card N. Will you show me where you get this pain or discomfort? INTERVIEWER: Probe— Where else? (code all that apply)	1-sternum (upper or middle) 2-sternum lower 3-left anterior chest 4-left arm 5-right anterior chest 6-right arm 95-somewhere else -8-don't know -1-not applicable
heanim1- heanim6	Please could you tell me where you get this pain or discomfort? INTERVIEWER: Write in. (merged responses from <i>heanj</i> , <i>heani1-heani6</i> )	1-sternum (upper or middle) 2-sternum lower 3-left anterior chest 4-left arm 5-right anterior chest 6-right arm 85-other answer (not codeable) -1-not applicable
heanl	Have you spoken to a doctor or nurse about this pain or discomfort?	1-yes 2-no -1-not applicable
heank	Have you ever had a severe pain across the front of your chest lasting for half an hour or more?	1-yes 2-no -8-don't know -1-not applicable

---

### Panel I5.6. Adult Mortality

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>agedead2</b>	Age at death, with those aged 90 and over recoded to avoid disclosure.	(age) -2-information not available/applicable -3-details being checked 99-aged 90 or over
<b>maincod</b>	Main cause of death using ICD9 and 10.	1-cancer 2-cardiovascular disease 3-respiratory 4-other -1-alive or no permission given to check -2-ICD information not available
<b>mortfin</b>	Current mortality status (from all sources).	1-alive/not known to have died 2-dead
<b>mortwave</b>	Data source and when died in relation to survey wave.	(see codes 11-43) 0-alive/not known to have died 31- post-w2 issue & pre-w3 issue - w3 sampling 32- pre-w3 - w3 fieldwork 33- post-w2 issue & pre-w3 issue - external update

**yrdeath** Year of death.

43- post-w3 issue & pre-w4 issue - external update (year)  
 -2-information not available/applicable  
 -3-details being checked on

---

*Source:* Documentation from the following source was used to compile the tables above. National Centre for Social Research (NatCen), University College London, & Institute for Fiscal Studies (IFS). English Longitudinal Study of Ageing (ELSA). Economic and Social Data Service [distributor], accessed 2011-03-29. <http://www.ifs.org.uk/ELSA>, <http://www.esds.ac.uk/longitudinal/access/elsa/l5050.asp>.

*Notes:*

ELSA uses identical variables from wave to wave in some cases. As an example, the identification of chronic conditions is complicated in ELSA. To determine whether ELSA identified a chronic condition, the first wave had to be reviewed. Then, from the second wave (or the baseline for the cross national data set), all chronic conditions had to be double checked to see if respondents were still reporting the same condition. In the cross national data, variables were renamed with wave identifiers. For example, the variables *hedia\** and *hedib\** from wave 1 are now *W1hedia\** and *W1hedib\**.

The following variables were renamed to indicate from which wave they came.

<b>Wave 1 variable</b>	<b>Renamed as</b>	<b>Wave 2 variable</b>	<b>Renamed as</b>
hedia01-hedia07	W1hedia01-W1hedia07	hedia01-hedia07	
hedibo1-hedibo9	W1hedibo1-W1hedibo9	hedibo1-hedibo9	
heska		heska	heskaW2
hesmk		hesmk	hesmkW2
difjob		difjob	difjobW2
fqobthr		fqobthr	fqobthrW2
digran		digran	digranW2
dignmy		dignmy	dignmyW2

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table I1.* The variables *idahhw1* and *idaindw1* do not appear in the cross national data set because wave 2 data were used as the baseline.

*Note A, Table I2.* The creation of variables for health conditions, education, etc. required going back to previous waves to acquire this information.

*Note A, Panel I2.3.* Wave 0 (1998, 1999, 2001) and Wave 1 (2002).

*Note A, Panels I3.2 and I5.2.* Validated measures were used to construct variables for height, waist, hip, and weight. For example, rather than using the *height* variable itself, which included unreliable values, the *htval* variable was used to construct height for the cross national data set.

*Note A, Panel I4.1.* Wave 0 (1998, 1999, 2001) and Wave 1 (2002).



*Note A, Panel I4.3.* The variables *scdr107* and *scdr108* appear only in the questionnaire and not in the data files.

*Note A, Panel I5.2.* There is a cognitive test available in wave 2 of the ELSA questionnaire.

The variables *mmlostt*, *mmloint*, *mmstrt*, and *mmssstt* appear only in the questionnaire and not in the data files.

*Note A, Panel I5.3.* The third wave (2006-07) of ELSA has vignettes. Self-completion forms containing vignettes on six health domains were assigned to a (random) third of the ELSA sample, except for proxy respondents. The vignettes questionnaire consisted of two sections: one which asked questions regarding health and one which asked questions regarding work.

*Note A, Panel I5.4.* In the ELSA survey, respondents were asked a question about having difficulties with functionality and then presented with a card (cards O and P) which listed several difficulties with functionality from which to choose. Respondents were asked to report all possible items reflecting difficulty with functionality.

*Note A, Panel I5.5.* The *hedia* variables actually go up to *hedia10* but *hedia08-hedia10* were not included because they did not contain any relevant information. The *hedian2-hedian6* variables for heart disease include angina, heart attack (including myocardial infarction), coronary thrombosis, congestive heart failure, and heart murmur. The *hedib* variables actually go up to *hedib10* but *hedib06-hedib10* were not included because they did not contain relevant information.

In other words, chronic conditions in ELSA were identified in the following manner:

1. First calculated prevalence using *hedia* & *hedib* variables from wave 1
2. Updated these variables using the same variables from wave 2
3. Excluded anyone as missing if they denied ever being diagnosed with a particular illness at wave 1

In the ELSA survey respondents were asked a question about having chronic conditions and then presented with a card (card E) which listed several chronic conditions from which to choose. They indicated all of the chronic conditions that they had. Responses were then saved in several variables. This produced the situation that to identify those with a particular chronic condition one has to search through several variables according to the code for that particular health outcome. For example, the code for high blood pressure is 1 and to identify those with high blood pressure one must search for that code in all of the variables *hedia01* – *hedia08*.

Symptom questions for angina based on Rose (1962, 1977) appear in variables with a *hean* prefix.

The *hedia01* - *hedia07* row includes all the chronic conditions used based on *hedia* variables. *Arthritis*, *pulmon*, and *cancer* are based off of *hedib01-hedib09* variables. The other possible categories in the *hedib* variables (asthma, osteoporosis, Parkinson's, emotional, Alzheimer's and dementia) were not used. The code 96 (none of these) is used to indicate that a respondent did not have any of the conditions noted on the card presented to them.

The variable *heanj* appears only in the questionnaire and not in the data files.

## **NOTE B.**

Only the core members of ELSA and only the 50+ individuals were selected for the cross national data.

The second wave of ELSA data (2004-2005) was used as baseline for the cross national data because it had height and leg length information. The first wave of ELSA does not include height or weight because nurse's visits occurred every other wave.

The identification of chronic conditions is complicated in ELSA. To determine whether ELSA identified a chronic condition, the first wave had to be reviewed. Then, from the second wave (or the baseline for the cross national data set), all chronic conditions had to be double checked to see if respondents were still reporting the same condition. ELSA uses identical variables from wave to wave in some cases. In the cross national data, variables were renamed with wave identifiers. For example, the variables *hedia\** and *hedib\** from wave 1 are now *W1hedia\** and *W1hedib\**. If there were discrepancies between wave 1 and wave 2, the *hedian\** and *hediam\** variables were used to verify the reason for such discrepancies.

ELSA has several different ID numbers:

*idauniq* is a unique individual serial number used in linking individuals between waves

*idahhw1* is household number (wave specific analytical number)

*idaindw1* if individual number (wave specific analytical number)

There are also other id numbers and variables that indicate if interview was partial or complete.

## Appendix J: Indonesia-IFLS original variables

The tables below describe the original variables from the Indonesia-IFLS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Indonesia data that should be taken into account when examining the data.

**Table J1. Respondent**

Variable	Wording of Question/Description	Scale (if applicable)
aro1i_00	Interview's status.	1-yes 3-no
<b>hhidoo</b>	Household ID number.	
day2000	Day of interview in 2000.	(day)
month2000	Month of interview in 2000.	(month)
year2000	Year of interview in 2000.	(year)
day 2007	Day of interview in 2007.	(day)
month2007	Month of interview in 2007.	(month)
year2007	Year of interview in 2007.	(year)
ivwmth1	Date of the first interview in 2000.	(month)
ivwday1	Date of the first interview in 2000.	(day)
ivwyr1	Date of the first interview in 2000.	(year)
main	Main respondent selected to answer Books IIIA & IIIB?	0-not main respondent 1-main respondent
<b>pidoo</b>	Person ID number.	
pidlink	Key identification variable to link between waves.	
proxy	Proxy.	
pwoousxa	Sampling weight.	
pwoousxb	Sampling weight.	
<b>pwtooxa</b>	Sampling weight.	
pwtooxb	Sampling weight.	
resoob3a	Indicates whether Book IIIA was completed by respondent.	1-complete 2-partially complete 3-not completed
resoob3b	Indicates whether Book IIIA was completed by respondent.	1-complete 2-partially complete 3-not completed
resoous	Indicates whether Book US (health assessment) was completed by respondent.	1-yes 3-no
<b>rspndnt</b>	Respondent is:	1-head of household 2-spouse of head of household 3-other household member
mresp07	Main respondent 2007.	
sc01	Province.	(code – contact RAND for more info)
sc02	Municipality (Kabupaten/Kotamadya).	(code – contact RAND

sc03	Subdistrict (Kecamatan).	for more info)
<b>sc05</b>	Area:	(code)
		1-urban
		2-rural
sc17	Number of Householders IFLS 2000	(number)

---

**Table J2. Demographics (see note A)**

**Panel J2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>age_00</b>	How old are you (at survey year 2000)?	(years)
<b>marstat</b>	What is your marital status?	1-single 2-married 3-separated 4-divorced 5-widowed
<b>sex</b>	Sex	1-male 3-female
us01	Sex	1-male 3-female

---

**Panel J2.2. Ethnicity, Race and Language**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>dl01a</b>	What languages do you speak in your daily life at home? (Circle all that apply.)	W-Indonesian A-Javanese B-Sundanese D-Balinese G-Batak H-Bugis I-Chinese C-Maduranese E-Sasak F-Minang J-Banjar L-Bima M-Makassar N-Nias O-Palembang P-Sumbawa Q-Toraja R-Lahat S-Other South Sumatra T-Betawi U-Lampung K-Other (name)

<b>dlo1e</b>	Which ethnical group is primarily influential in daily activities of your household?	01-Jawa 02-Sunda 03-Bali 04-Batak 05-Bugis 06-Tionghoa 07-Madura 08-Sasak 09-Minang 10-Banjar 11-Bima-Dompu 12-Makassar 13-Nias 14-Palembang 15-Sumbawa 16-Toraja 17-Betawi 18-Dayak 19-Melayu-Deli 20-Komering 21-Ambon 22-Manado 23-Aceh 25-Other South Sumatera 95-other 96-Other (name) (other, specify)
langothr	Other language used (if any):	

**Panel J2.3. Education, Income and Wealth (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
dlo2	Can you read an Indonesian-language newspaper?	1-yes 3-no 9-missing
dlo2a	Can you read a newspaper in another language?	1-yes 3-no 9-missing
dlo3	Can you write a letter in Indonesian?	1-yes 3-no 9-missing
dlo3a	Can you write a letter in another language?	1-yes 3-no 9-missing
<b>dlo4</b>	Have you ever attended/are you attending school?	3-no 1-yes
<b>dlo6</b>	What is the highest education level attended? [Note to interviewer: If they are currently attending school, record the level they are currently attending.]	01-no school/not yet in school 02-elementary 03-junior high general 04-junior high vocational 05-senior high general 06-senior high vocational

		60-college (d1, d2, d3)
		61-university (bachelor)
		62-university (master)
		63-university (doctorate)
		11-adult education a
		12-adult education b
		13-open university
		14-Islamic school (Pesantren)
		17-school for disabled
		70-madrasah, general
		72-Islamic elementary school (Madrasah Ibitdaiyah)
		73-Islamic junior/high school (Madrasah Tsanawiyah)
		74-Madrasah senior high school
		90-kindergarten
		98-don't know
		10-other, specify
<b>dlo7</b>	What is the highest grade completed at that school?	00-did not complete first grade at that level
		01-1
		02-2
		03-3
		04-4
		05-5
		06-6
		07-graduated
		98-don't know
<b>kr13</b>	What is the main water source for drinking in this household?	01-pipe water
		02-well/pump (electric, hand)
		03-well water
		04-spring water
		05-rain water
		06-river/creek water
		07-pond/fishpond
		08-water collection basin
		09-other,specify
		10-aqua/air mineral, etc.
<b>kr20</b>	Where do the majority of the householders go to the toilet?	01-own toilet with septic tank
		02-own toilet without septic tank
		03-shared toilet
		04-public toilet
		05-creek/river/ditch (without toilet)

		06-yard/field (without toilet)
		07-sewer
		08-other, specify
		09-pond/fishpond
		10-animal stable
		11-sea/lake
<b>kr23</b>	Do you store your perishable food in a refrigerator?	1-yes
		3-no
		6-don't have a refrigerator
<b>kr24</b>	What is the main kind of fire/stove used for cooking?	01-electricity
		02-gas
		03-kerosene stove
		04-firewood
		05-charcoal
		06-other, specify
		07-do not cook
<b>kr24a</b>	Does this household have a television?	1-yes
		3-no
		9-missing
sw01	Please imagine a six-step ladder where on the bottom (the first step), stand the poorest people, and on the highest step (the sixth step), stand the richest people. On which step are you today?	(scale of 1-6, 1 being poorest and 6 being richest)
sw02	On which step were you one year ago?	8-don't know
		(scale of 1-6, 1 being poorest and 6 being richest)
sw03	On which step do you expect to find yourself one year from now?	8-don't know
		(scale of 1-6, 1 being poorest and 6 being richest)
sw04	Concerning your current standard of living, which of the following is true?	8-don't know
		1-it is less than adequate for my needs
		2-it is just adequate for my needs
		3-it is more than adequate for my needs
		8-don't know
sw05	Concerning your food consumption last month, which of the following is true?	1-it is less than adequate for my needs
		2-it is just adequate for my needs
		3-it is more than adequate for my needs
		8-don't know
sw06	Concerning your healthcare, which of the following is true?	1-it is less than adequate for my needs
		2-it is just adequate for my needs

sw07	Do you have children still residing in this household?	3-it is more than adequate for my needs 8-don't know 1-yes 3-no
sw08	Concerning your children's standard of living, which of the following is true?	1-it is less than adequate for my needs 2-it is just adequate for my needs 3-it is more than adequate for my needs 8-don't know
sw09	Concerning your children's food consumption last month, which of the following is true?	1-it is less than adequate for my needs 2-it is just adequate for my needs 3-it is more than adequate for my needs 8-don't know
sw10	Concerning your children's healthcare, which of the following is true?	1-it is less than adequate for my needs 2-it is just adequate for my needs 3-it is more than adequate for my needs 8-don't know
sw11	Concerning your children's education, which of the following is true?	1-it is less than adequate for my needs 2-it is just adequate for my needs 3-it is more than adequate for my needs 6-children not yet in school 8-don't know
sw12	Think back to 1997, before the 'crisis.' What change since those times provided the biggest benefit for you?	(description of change; string variable)
sw13	Think back to 1997, before the 'crisis.' What change since those times has been the biggest problem for you?	(description of change; string variable)
sw14	Are there any poor people in this village?	1-yes 3-no
sw15	If yes, are there many or only a few?	1-many 3-a few 9-missing
sw16a	In your opinion, why are they poor? Little/no education.	1-yes 3-no
sw16b	In your opinion, why are they poor? Not working hard.	1-yes 3-no
sw16c	In your opinion, why are they poor? From poor family.	1-yes 3-no



sw16d	In your opinion, why are they poor? The rich do not help the poor.	1-yes 3-no
sw16e	In your opinion, why are they poor? Government does not pay attention.	1-yes 3-no
sw16f	In your opinion, why are they poor? No opportunities.	1-yes 3-no
sw16g	In your opinion, why are they poor? Other, mention.	1-yes 3-no
Ylab	Individual labor income.	
totalYlab	Total labor income per household.	

---

#### **Panel J2.4. Family and Household**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
bro1	Now I would like to ask you about all children that you have so far. Have you ever given birth?	1-yes 3-no 9-missing
bro8	Have you ever given live birth to a son or daughter, who later passed away though only lived for a while?	1-yes 3-no 9-missing
bro9	How many sons were born alive but passed away later?	(number of males)
br10	How many daughters were born alive but passed away later?	(number of females)
<b>br15</b>	Total number of live births	(number)
<b>hhsiz</b>	Household size.	(number)

---

### **Table J3. Early Life Conditions (see note A)**

#### **Panel J3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
bth_day	Date of birth:	(day)
<b>bth_mnth</b>	Date of birth:	(month)
<b>bth_year</b>	Date of birth:	(year)
<b>2000</b>		
<b>dlo1b</b>	Where are you from?	A-Jawa B-Sunda C-Bali D-Batak E-Bugis F-Tionghoa G-Madura H-Sasak I-Minang J-Banjar K-Bima-Dompu L-Makassar M-Nias N-Palembang O-Sumbawa P-Toraja Q-Betawi R-Dayak

dlo1c

Where was your father from? (Circle all that apply.)

S-Melayu-Deli  
T-Komering  
U-Ambon  
W-Manado  
X-Aceh  
Y-Other South Sumatera  
V-Other (name)

A-Jawa  
B-Sunda  
C-Bali  
D-Batak  
E-Bugis  
F-Tionghoa  
G-Madura  
H-Sasak  
I-Minang  
J-Banjar  
K-Bima-Dompu  
L-Makassar  
M-Nias  
N-Palembang  
O-Sumbawa  
P-Toraja  
Q-Betawi  
R-Dayak  
S-Melayu-Deli  
T-Komering  
U-Ambon  
W-Manado  
X-Aceh  
Y-Other South Sumatera  
V-Other (name)

dlo1d

Where was your mother from? (Circle all that apply.)

A-Jawa  
B-Sunda  
C-Bali  
D-Batak  
E-Bugis  
F-Tionghoa  
G-Madura  
H-Sasak  
I-Minang  
J-Banjar  
K-Bima-Dompu  
L-Makassar  
M-Nias  
N-Palembang  
O-Sumbawa  
P-Toraja  
Q-Betawi  
R-Dayak  
S-Melayu-Deli

<b>mg01ex</b>	What is the [...] name of your birthplace when you were born?	T-Komering U-Ambon W-Manado X-Aceh Y-Other South Sumatera V-Other (name) (country) 1-other 3-same as current residence (Indonesia) 8-don't know 9-missing
<b>mg04</b>	Was the place when you were born a:	1-village 3-small town 5-big city 8-don't know 9-missing
<b>mg04a</b>	When you were 12 years old did you live in the same place as the place where you were born?	1-yes 3-no 8-don't know 9-missing
<b>mg08</b>	When you were 12, was the place a:	1-village 3-small town 5-big city 8-don't know 9-missing
<b>mg19b</b>	Have you ever moved since the age of 12?	1-yes 3-no 9-missing
<b>movenum</b>	How many times have you moved since the age of 12?	(number)
<b>proxy</b>	Proxy.	
<b>uso2mth</b>	When were you born?	(month)

---

### Panel J3.2. Childhood Health

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>ba07am</b>	Did [respondent's name] mother ever attend school?	1-yes 3-no 8-don't know 9-missing
<b>ba08m</b>	What is the highest level of education of [respondent's name] mother?	(highest level) 1-no school/not yet in school 2-elementary school 3-general junior secondary school 4-vocational junior secondary school 5-general senior high school 6-vocational senior high school 60-academy D1, D2, D3

		61-university (bachelor)
		62-university (master)
		63-university (doctorate)
		09-university, general
		10-other, specify
		11-adult education A
		12-adult education B
		13-open university
		14-Islamic school ( <i>Pesantren</i> )
		17-school for the disabled
		70-Madrasah, general
		72-islamic elementary school ( <i>madrasah ibtidaiyah</i> )
		73-islamic junior/high school ( <i>madrasah tsanawiyah</i> )
		74-madrasah senior high school
		90-kindergarten
		96-not applicable
		98-don't know
		99-missing
ba09m	What is the highest class that your mother finished?	0-didn't finish first class
		01
		02
		03
		04
		05
		06
		07-graduated
		98-don't know
		99-missing
ba11m	What is/was [respondent's name] mother's primary activity now/before her death?	01-working/trying to get work/ helping to earn income
		02-job searching
		03-attending school
		04-housekeeping
		05-retired
		06-stay at home/unemployed
		07-sick/disabled
		08-other, specify
		98-don't know
		99-missing
ba13m	What were [...] primary duties (now/one year before she died)?	01-professional or technical worker
		02-managerial, administrative, decision

making staff  
 03-clerical personnel and  
 the like  
 04-sales personnel  
 05-service personnel  
 06-farm, forestry, game  
 hunting, fishery worker  
 07-production line  
 worker  
 08-transportation vehicle  
 operator  
 09-blue collar worker  
 10-other, specify  
 98-don't know

---

**Panel J3.3. Childhood Nutrition**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>us04</b>	Height (cm).	(centimeters)
<b>us06a</b>	Waist circumference (>=40 years).	(centimeters)
<b>us06b</b>	Hip circumference (>=40 years).	(centimeters)

---

**Panel J3.4. Childhood SES**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ba07ap</b>	Did [respondent's name] father ever attend school?	1-yes 3-no 8-don't know
<b>ba08p</b>	What is the highest level of education of [respondent's name] father?	9-missing (highest level) 1-no school/not yet in school 2-elementary school 3-general junior secondary school 4-vocational junior secondary school 5-general senior high school 6-vocational senior high school 60-academy D1, D2, D3 61- university (bachelor) 62-university (master) 63-university (doctorate) 09-university, general 10-other, specify 11-adult education A 12-adult education B 13-open university 14-Islamic school ( <i>Pesantren</i> ) 17-school for the disabled 70-Madrasah, general 72-islamic elementary

		school ( <i>madrasah ibtidaiyah</i> )
		73-islamic junior/high school ( <i>madrasah tsanawiyah</i> )
		74-madrasah senior high school
		90-kindergarten
		96-not applicable
		98-don't know
		99-missing
ba09p	What is the highest class that your father finished?	0-didn't finish first class
		01
		02
		03
		04
		05
		06
		07-graduated
		98-don't know
ba11p	What is/was [respondent's name] father's primary activity now/before his death?	01-working/trying to get work/ helping to earn income
		02-job searching
		03-attending school
		04-housekeeping
		05-retired
		06-stay at home/unemployed
		07-sick/disabled
		08-other, specify
		98-don't know
		99-missing
ba13p	What were [...] primary duties (now/one year before he died)?	01-professional or technical worker
		02-managerial, administrative, decision making staff
		03-clerical personnel and the like
		04-sales personnel
		05-service personnel
		06-farm, forestry, game hunting, fishery worker
		07-production line worker
		08-transportation vehicle operator
		09-blue collar worker
		10-other, specify
		98-don't know

ba14ap	How is the health status of your father now/before his death?	99-missing 1-very healthy 2-somewhat healthy 3-somewhat unhealthy 4-very unhealthy 8-don't know 9-missing
ba14am	How is the health status of your mother now/before her death?	1-very healthy 2-somewhat healthy 3-somewhat unhealthy 4-very unhealthy 8-don't know 9-missing

## Table J4. Adult Lifestyle

### Panel J4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
km01a	Have you had the habit of chewing tobacco, smoking self-rolled cigarettes, or smoking cigarettes/cigars?	1-yes 3-no
km01b	Have you had the habit of chewing tobacco?	1-yes 3-no 9-missing
km01c	Have you had the habit of smoking a pipe?	1-yes 3-no 9-missing
km01d	Have you had the habit of smoking self-rolled cigarettes?	1-yes 3-no 9-missing
km01e	Have you had the habit of smoking cigarettes/cigars?	1-yes 3-no 9-missing
<b>km02</b>	Interviewer's Note: Is km01d or km01e=1	1-yes 3-no
<b>km04</b>	Do you still have the habit or have you totally quit?	1-still have 3-quit

### Panel J4.2. Health Care Utilization (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
rj00	In the last 4 weeks have you visited a public hospital, puskesmas, private hospital, clinic, health worker or doctor's practice or been visited by a health worker or doctor?	1-yes 3-no 9-missing
rj00a	Have you had a general checkup performed in the last 5 years?	1-yes 3-no
rj00b	Where did you go to have this general check-up? (Circle all that apply)	A-public hospital B-public health center C-private hospital D-polyclinic, private clinic, medical center E-private physician F-nurse, paramedic,

		midwife G-traditional practitioner H-don't know I-other, specify
rj01	Within the last 4 weeks, have you been to ( <i>rj1type</i> )/visited by ( <i>rj1type</i> )?	1-yes 3-no
rj02	How many times did you visit/been visited by ( <i>rj1type</i> ) during the last 4 weeks?	(number of times)
rj1type	Type of outpatient care.	A-public hospital (General or Specialty) B-public health center (puskesmas) /auxiliary center (puskesmas pembantu) E-private hospital F- polyclinic, private clinic, medical center G-private physician (General Practitioner, Specialist, Dentist) H-nurse, paramedic, midwife practitioner I-traditional practitioner (shaman, wise man, kyai, Chinese herbalist, masseur, acupuncturist, etc.) J-other, specify (number)
rj_num	Number of outpatient care visits.	
rn00	During the past 12 months have you ever received patient care at a hospital, puskesmas, clinic, or other?	1-yes 3-no 9-missing
rn01	During the past 12 months, have you ever received inpatient care at ( <i>rn1type</i> )?	1-yes 3-no
rn02	How many times have you received inpatient care at ( <i>rn1type</i> ) during the past 12 months?	(number of times)
rn1type	Type of inpatient care.	A-public hospital B-public health center C-private hospital D-private clinic E-other (number)
rn_num	Number of hospitalizations.	

**Table J5. Adult Health Outcomes (see note A)**

**Panel J5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>kko1</b>	In general, how is your health?	1-very healthy 2-somewhat healthy 3-somewhat unhealthy 4-unhealthy



kk02a	During the last 4 weeks, how many days of your primary daily activities did you miss due to poor health?	(days) 8-don't know 99-missing
kk02ax	Do you know the number of days of primary daily activities missed due to poor health in the last month?	1-knows number of days 8-don't know
kk02b	In the last 4 weeks, how many days have you stayed in bed due to poor health?	(days) 8-don't know
kk02c2	Compared with your health 12 months ago, would you say that your health is...?	1-much better now 2-somewhat better now 3-about the same 4-somewhat worse 5-much worse
kk02d2_1	Why has your health become, much better/somewhat better/somewhat worse/much worse?	(string variable) w-not applicable y-don't know z-missing
kk02d2_2	Why has your health become, much better/somewhat better/somewhat worse/much worse?	(string variable) z-missing
kk02e2	In the last 12 months have you experienced any serious health problems?	1-yes 3-no 9-missing
kk02i	How do you expect your health to be in next year?	1-much better than now 2-somewhat better than now 3-about the same 4-somewhat worse 5-much worse 9-missing
kk02j	Compared to another person of your age and sex, would you say that your health is...?	1-better than others 2-same as the others 3-worse than the others 9-missing
us14	According to the interviewer, how does the health of this person compare, in general, to the health status of other people of the same age and sex?	(a scale of 1-9; from much worse to about the same to very good)

---

**Panel J5.2. Anthropometric and Performance Measures (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
us06	Weight (kg).	(kilograms) 1-measured 2-disabled 3-reason not measured 4-not able 5-too old 6-age 7-refused 8-supplies/equipment problem 9-missing 10-sick/pregnant
us07a	Blood pressure (age ≥ 15 years).	(HHM)

us07b	Blood pressure (age ≥ 15 years).	(HHM)
us08	Pulse (≥ 15 years).	(pulse)
us10	Time to rise from sitting to a standing position 5 times (≥ 15 years).	1-yes 2-disable 3-no, other (specify) 4-not able 5-too old 6-age < 15 years 7-refused 8-supplies/equipment problem 9-missing 10-sick 11-pregnant 12-respondent not available
us11	How many times sit to stand? (≥ 15 years)	(number of times, if 5 → us14)

---

**Panel J5.2. Functionality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>kko3a</b>	If you had to [...] could you do it: carry heavy load (like pail of water) for 20 meters.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3b</b>	If you had to [...] could you do it: sweep house floor yard.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3c</b>	If you had to [...] could you do it: walk for 5 kilometers.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3d</b>	If you had to [...] could you do it: draw pail of water from well.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3e</b>	If you had to [...] could you do it: to bow, squat, kneel.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3f</b>	If you had to [...] could you do it: to dress without help.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3g</b>	If you had to [...] could you do it: to stand up from sitting position in a chair without help.	1-easily 3-with difficulty 5-unable to do it 8-don't know
<b>kko3h</b>	If you had to [...] could you do it: to go to the bathroom (BM) without help.	1-easily 3-with difficulty 5-unable to do it

<b>kk03i</b>	If you had to [...] could you do it: to stand up from sitting on floor without help.	8-don't know 1-easily 3-with difficulty 5-unable to do it
<b>kk03j</b>	If you had to [...] could you do it: walk for 1 kilometer.	8-don't know 1-easily 3-with difficulty 5-unable to do it 8-don't know

---

**Panel J5.3. Self-Reported Health and Vignettes**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
vg01a	Overall in the last 30 days, how much of a problem did you have with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer
vg02a	Overall in the last 30 days, how much of bodily aches or pains did you have?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer
vg03a	Overall in the last 30 days overall how much difficulty did you have remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer
vg04a	In the last 30 days, how much difficulty do you had with sleeping, such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer
vg05a	Overall in the last 30 days, how much of a problem did you have with feeling sad, low, or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer
vg06a	In the last 30 days, how much of a problem did you have because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer
vg01ba	Pak Taryono/Bu Taryini is able to walk distances of up to 200 metres without any problems but feels tired after walking one kilometer. He has no problems with day-to-day activities, such as carrying food from the	1-none 2-mild 3-moderate 4-severe

	market. Overall in the last 30 days, how much of a problem did [name of person] have with moving around?	5-extreme/cannot do 7-refused to answer
vg01bb	Pak Tumino/Bu Tumini does not exercise. He cannot climb stairs or do other physical activities because he is obese. He is able to carry the groceries and do some light household work. Overall in the last 30 days, how much of a problem did [name of person] have with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg01bc	Pak Sidik/Bu Endah has a lot of swelling in his legs due to his health condition. He has to make an effort to walk around his home as his legs feel heavy. Overall in the last 30 days, how much of a problem did [name of person] have with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg02ba	Pak Budiarto/ Bu Budiarti has a headache once a month that is relieved after taking a pill. During the headache she can carry on with her day-to-day affairs. Overall in the last 30 days, how much of bodily aches or pains did [name of person] have?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg02bb	Pak Sumarno/ Bu Sumarni has pain that radiates down her right arm and wrist during her day at work. This is slightly relieved in the evenings when she is no longer working on her computer. Overall in the last 30 days, how much of bodily aches or pains did [name of person] have?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg02bc	Pak Mulyono/ Bu Mulyanti has pain in his knees, elbows, wrists and fingers, and the pain is present almost all the time. Although medication helps, he feels uncomfortable when moving around, holding and lifting things. Overall in the last 30 days, how much of bodily aches or pains did [name of person] have?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg03ba	Pak Taryono/ Bu Taryini can concentrate while watching TV, reading a magazine or playing a game of cards or chess. Once a week he forgets where his keys or glasses are, but finds them within five minutes. Overall in the last 30 days overall how much difficulty did [name of person] have remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg03bb	Pak Suwarso/ Bu Suwarsih is keen to learn new recipes but finds that she often makes mistakes and has to reread several times before she is able to do them properly. Overall in the last 30 days overall how much difficulty did [name of person] have	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do

	remembering things?	7-refused to answer 9-missing
vg03bc	Pak Mugiono/ Bu Mugianti cannot concentrate for more than 15 minutes and has difficulty paying attention to what is being said to him. Whenever he starts a task, he never manages to finish it and often forgets what he was doing. He is able to learn the names of people he meets. Overall in the last 30 days overall how much difficulty did [name of person] have remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg04ba	Pak Partono/ Bu Partini falls asleep easily at night, but two nights a week she wakes up in the middle of the night and cannot go back to sleep for the rest of the night. In the last 30 days, how much difficulty does [name of person] had with sleeping, such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg04bb	Pak Darma/ Bu Darmi wakes up almost once every hour during the night. When he wakes up in the night, it takes around 15 minutes for him to go back to sleep. In the morning he does not feel well rested. In the last 30 days, how much difficulty does [name of person] had with sleeping, such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg04bc	Pak Parto/ Bu Parti takes about two hours every night to fall asleep. He wakes up once or twice a night feeling panicked and takes more than one hour to fall asleep again. In the last 30 days, how much difficulty does [name of person] had with sleeping, such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg05ba	Pak Arman/ Bu Lina enjoys her work and social activities and is generally satisfied with her life. She gets depressed every 3 weeks for a day or two and loses interest in what she usually enjoys but is able to carry on with her day-to-day activities. Overall in the last 30 days, how much of a problem did [name of person] have with feeling sad, low, or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg05bb	Pak Sukarso/ Bu Sukarsih feels nervous and anxious. He worries and thinks negatively about the future, but feels better in the company of people or when doing something that really interests him. When he is alone he tends to feel useless and empty. Overall in the last 30 days, how much of a problem did [name of person] have with feeling sad, low, or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg05bc	Pak Rano/ Bu Rina feels depressed most of the time. She weeps frequently and feels hopeless about the future. She feels that she has become a burden on others and that she would be better dead. Overall in the last 30 days, how much of a problem did [name of	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do

	person] have with feeling sad, low, or depressed?	7-refused to answer 9-missing
vg06ba	Pak Sugiarto/ Bu Suwarsih has no problems while walking slowly. He gets out of breath easily when climbing uphill for 20 meters or a flight of stairs. In the last 30 days, how much of a problem did [name of person] have because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg06bb	Pak Ramlan/ Bu Badriah suffers from respiratory infections about once every year. He is short of breath 3 or 4 times a week and had to be admitted in hospital twice in the past month with a bad cough that required treatment with antibiotics. In the last 30 days, how much of a problem did [name of person] have because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing
vg06bc	Pak Hamid/ Bu Karsini has been a heavy smoker for 30 years and wakes up with a cough every morning. He gets short of breath even while resting and does not leave the house anymore. He often needs to be put on oxygen. In the last 30 days, how much of a problem did [name of person] have because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 7-refused to answer 9-missing

---

**Panel J5.4. Chronic Conditions (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>cd05A</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had hypertension?	1-yes 3-no 9-unknown
<b>cd05B</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had diabetes or high blood sugar?	1-yes 3-no 9-unknown
cd05C	Have a doctor/paramedic/nurse/midwife ever told you that you had tuberculosis?	1-yes 3-no 9-unknown
cd05D	Have a doctor/paramedic/nurse/midwife ever told you that you had asthma?	1-yes 3-no 9-unknown
<b>cd05E</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had other lung conditions?	1-yes 3-no 9-unknown
<b>cd05F</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had heart attack, coronary heart disease, angina, or other heart problems?	1-yes 3-no 9-unknown
cd05G	Have a doctor/paramedic/nurse/midwife ever told you that you had a liver condition?	1-yes 3-no 9-unknown
<b>cd05H</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had a stroke?	1-yes 3-no 9-unknown
<b>cd05I</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had cancer or malignant tumor?	1-yes 3-no

<b>cd05J</b>	Have a doctor/paramedic/nurse/midwife ever told you that you had arthritis/rheumatism?	9-unknown 1-yes 3-no
cd05K	Have a doctor/paramedic/nurse/midwife ever told you that you had uric acid/gout?	9-unknown 1-yes 3-no
cd05L	Have a doctor/paramedic/nurse/midwife ever told you that you had depression?	9-unknown 1-yes 3-no
us18aa	Are you taking medicine for anemia?	9-unknown 1-yes 3-no
us18ab	Are you taking medicine for high blood pressure?	1-yes 3-no
us18ac	Are you taking medicine for diabetes?	1-yes 3-no

---

**Panel J5.5. Adult Mortality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>diedo7</b>	Respondent died between 2000 and 2007.	0-no 1-died
calive07	Respondent contacted alive in 2007.	0-no 1-alive

---

*Source:* Documentation from the following source was used to compile the tables above. Gertler, P., Frankenberg, E., & Karoly, L. Indonesia Family Life Surveys (IFLS). Los Angeles, CA: University of California-Los Angeles [distributor], accessed 2009-07-27.

<http://www.rand.org/labor/FLS/IFLS.html>,

<http://www.rand.org/labor/FLS/IFLS/access2.html>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table J2.* There is information on siblings and children in Section BA of Book IIIB, though it is complicated to identify the number of siblings and children (it must be obtained from roster information) and has been left out of this table.

*Note A, Panel J2.3.* There are several other questions that describe the household characteristics (*kro3-kr27*) in the questionnaire.

*Note A, Table J3.* For variable *mg01*, there is more specific information at the village level about where the respondent was born. There are additional questions about birthplace as well in Book IIIA. There are additional questions about where and when the respondent's mother and father died in Section BA of Book IIIB.

*Note A, Panel J4.1.* There are several other questions about smoking habits in Book IIIB (*km01-km10*).

*Note A, Panel J4.2.* All of the variables from the outpatient utilization section (Section RJ of Book IIIB) and inpatient utilization section (Section RN of Book IIIB) are saved.

*Note A, Panel J5.* There is a section on subjective wellbeing (*sw01-sw16*) in Book IIIA. There are also questions about depression included in Book IIIB (*kk04-kk11*). There are additional questions on symptoms in Section MA of Book IIIB (*ma01-ma08*), and those specific to the heart (*ma08c-ma08e*).

*Note A, Panel J5.2.* There are also additional health measurement questions on lung capacity (Section US of Book US I).

*Note A, Panel J5.4.* The variables beginning with “cd” are variables taken from the 4<sup>th</sup> wave of the Indonesian survey and were used to obtain information about chronic conditions. Although there are some missing data, Indonesia does not show a large prevalence of chronic conditions such as heart disease or diabetes. However, there is a large prevalence for hypertension.

## **NOTE B**

In the Indonesian study not all individuals were selected to answer all parts of the questionnaire (book 3A & 3B are individual and health related). Those who answered these sections are mostly main respondents although there were some other respondents who did answer these sections (Strauss, 2004, page 9). However, basic information was collected on all individuals. Apparently this was the case for mortality and other household information.

For this cross sectional data file, the case identifiers are *hhidoo* and *pidoo* and are used to merge any files within the 2000 data and then use *pidlink* if merging across waves.

Missing values may be an issue for education variables.

Identifying birth year and age is not always clear from the data. For example, the variable *bth\_year* from the tracker file in 2007 does not match up well with the *bth\_year* from the tracker file of the third wave in 2000 but the *bth\_year* and *age\_00* in the third wave tracker file are consistent. These latter variables were used to identify age.

## **Income**

Household income was based on labor income in 2000 and calculated from an economist working with Indonesian data. Therefore, use this variable with caution. A possible rule of thumb to evaluate the income numbers from the survey year 2000 is:

Less than 500,000 rupiah per month is about what a low income worker might expect to make  
1.5-2 million rupiah per month is middle income  
3-4 million rupiah per month is upper middle income  
>5 million rupiah per month is upper income



### Appendix K: Latin American and Caribbean cities-SABE original variables

The tables below describe the original variables from the Latin American and Caribbean cities-SABE survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Latin American and Caribbean cities data that should be taken into account when examining the data.

**Table K1. Respondent (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>country</b>	Country ID number (constructed variable)	11- Argentina 12-Barbados 13-Brazil 14-Chile 15-Cuba 16-Mexico 17-Uruguay
<b>var00001</b>	ID variable for Argentina	
<b>folio</b>	ID variable for all other SABE countries	
<b>ponder</b>	Sampling weight for all other countries.	
<b>ponder1</b>	Sampling weight for Chile.	
<b>go401</b>	What is (NAME)'s relationship to you?	01-spouse/partner 02-son/daughter 03-parent 04-parent-in-law 05-sibling 06-child-in-law 07-grandchild 08-step-child 09-other relative 10-non-relative 11-domestic worker 97-does not apply 98-does not know 99-no response

**Table K2. Demographics**

**Panel K2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a01b</b>	How old are you?	(years)
<b>c18</b>	Sex of the respondent.	1-woman 2-man
<b>marital</b>	Variable created by survey staff to determine marital status.	

**Panel K2.2. Ethnicity, Race and Language (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a12</b> (data for	(Optional question) Could you please tell me	1-white

all countries except Mexico)	what your race and ethnic background is?	2-mestizo (combination of white and indigenous) 3-mulatto (combination of black and white) 4-black 5-indigenous 6-asian 8-other 98-does not know 99-no response
------------------------------	--	--

**Panel K2.3. Education, Income and Wealth (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>yeduca</b>	Variable created by survey staff to determine years of education.	
a05a	Do you know how to read and write a message?	1-yes 2-no 9-no response
a05b	Did you ever attend school?	1-yes 2-no 8-does not know 9-no response
a06*	What was the highest level of schooling that you have completed? These variables include the level completed, grade completed, completion level status, etc. Circle only one response code and record the years completed at this level.	01-elementary and middle school 02-secondary/high school 03-technical, commercial or secretarial following elementary and/or middle school 04-technical, commercial or secretarial following secondary/high school 05-preparatory 06-teacher education 07-college (university) 08-graduate/post-grad 98- does not know 99- no response
<b>j04</b>	Is running water available to the occupants of this home: Read all options until you get an affirmative response.	1-inside the home? 2-outside the home, but underground? 3-from a public pump? 4-there is no running water available?
<b>j08</b>	Does this home have a room to cook in (kitchen)?	1-yes 2-no
<b>j09</b>	What type of heating do you use to cook? Read all options until you get an affirmative response.	1-natural piped gas 2-portable gas canister/container 3-electricity 4-keronsene or paraffin 5-charcoal or firewood

<b>j10</b>	Does your home have a toilet (bathroom)?	6-none 1-yes, inside the home 2-yes, outside of the home but on the same land 3-no
<b>j13a</b> (Cuba codes this variable differently)	Does this home have a refrigerator? Read each option and circle all that apply.	1-yes 2-no 9-no response
<b>j13b</b> (Cuba codes this variable differently)	Does this home have a clothes washer (automatic)? Read each option and circle all that apply.	1-yes 2-no 9-no response
<b>j13c</b> (Cuba codes this variable differently)	Does this home have a water heater? Read each option and circle all that apply.	1-yes 2-no 9-no response
<b>j13d</b> (Cuba codes this variable differently)	Does this home have a microwave? Read each option and circle all that apply.	1-yes 2-no 9-no response
<b>j121</b> (Cuba codes this variable differently)	Does anyone in this home have a bicycle? Read each option and circle all that apply.	1-yes 2-no 9-no response
<b>j122</b> (Cuba codes this variable differently)	Does anyone in this home have a motorcycle or moped? Read each option and circle all that apply.	1-yes 2-no 9-no response
<b>j123</b> (Cuba codes this variable differently)	Does anyone in this home have an automobile? Read each option and circle all that apply.	1-yes 2-no 9-no response
h25a (only Chile uses this variable)	Annual wage.	
h25d (only Chile uses this variable)	Daily wage.	
h25m (only Chile uses this variable)	Monthly wage.	
h25q (only Chile uses this variable)	Biweekly wage.	
h25s (only Chile uses this variable)	Weekly wage.	
h25i (all countries except Chile)	In total, how much do you earn from this and other jobs?	

use this coding) h25p (all countries except Chile use this coding)	...and with what frequency do you receive this amount?	1-per day 2-per week 3-biweekly 4-per month 5-per year 8-does not know 9-no response
h261	Do you receive income from retirement or pension?	1-yes 2-no 8-does not know 9-no response
h262	Do you receive income help from family in another country?	1-yes 2-no 8-does not know 9-no response
h263	Do you receive income help from family living in ---?	1-yes 2-no 8-does not know 9-no response
h264	Do you receive income from renting or banking income?	1-yes 2-no 8-does not know 9-no response
h265	Do you receive income from social welfare subsidy?	1-yes 2-no 8-does not know 9-no response
h266	Do you receive income from other? Specify.	1-yes 2-no 8-does not know 9-no response
h27a1	How much income do you receive from retirement or pension? For each affirmative answer in h26, ask h27a and h27b.	(amount from retirement or pension) 999998-does not know 999999-no response
h27a2	How much income do you receive from help from family in another country? For each affirmative answer in h26, ask h27a and h27b.	(amount from family in another country) 999998-does not know 999999-no response
h27a3	How much income do you receive from help from family living in ---? For each affirmative answer in h26, ask h27a and h27b.	(amount from family living in ---) 999998-does not know 999999-no response
h27a4	How much income do you receive renting or banking income? For each affirmative answer in h26, ask h27a and h27b.	(amount from renting or banking income) 999998-does not know 999999-no response
h27a5	How much income do you receive from social	(amount from social welfare

	welfare subsidy? For each affirmative answer in h26, ask h27a and h27b.	subsidy) 999998-does not know 999999-no response (amount from other) 999998-does not know 999999-no response
h27a6	How much income do you receive from other (specified)? For each affirmative answer in h26, ask h27a and h27b.	999998-does not know 999999-no response
h27bp1	How often do you receive income from retirement or pension?	1-per week 2-per month 3-biweekly 4-every year 8-does not know 9-no response
h27bp2	How often do you receive income help from family in another country?	1-per week 2-per month 3-biweekly 4-every year 8-does not know 9-no response
h27bp3	How often do you receive income help from family living in ---?	1-per week 2-per month 3-biweekly 4-every year 8-does not know 9-no response
h27bp4	How often do you receive income from renting or banking income?	1-per week 2-per month 3-biweekly 4-every year 8-does not know 9-no response
h27bp5	How often do you receive income from social welfare subsidy?	1-per week 2-per month 3-biweekly 4-every year 8-does not know 9-no response
h27bp6	How often do you receive income from other (specified)?	1-per week 2-per month 3-biweekly 4-every year 8-does not know 9-no response
h21	Working status. See questions H5 and H6	1-respondent actually works 2-respondent does not actually work
h28	How many people depend on this income? Include the respondent in the number of persons who depend on this income.	01-only the respondent (number of people) 98-does not know 99-no response
h05 (only asked in	During the last week, you... (Read all the options until you obtain an affirmative	01-worked? 02-had a job, but did not

Argentina)	response.)	work? 03-worked helping in a family business, estate or ranch without receiving payment? 04-looked for a job? 05-primarily did housework? 06-were retired or pensioned? 07-were temporarily disabled and could not work? 08-were permanently disabled and could not work? 09-did not work? 98-does not know 99-no response
h06 (only asked in Argentina)	In addition to this activity (condition in h05), in the last week, you... (Read all options until you get an affirmative response.)	01-sold some product? 02-made some product to sell? 03-washed, ironed or cooked, repaired electronic equipment, cared for children or some other task in exchange for payment? 04-helped work in agricultural activities or in the raising of animals? 05-(do not read) did not do any of these activities? 98-does not know 99-no response

---

**Panel K2.4. Family and Household (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
a18	How many children have you had?	(number of children) 98-does not know 99-no response
a19	Do you have step-children?	1-yes 2-no 8-does not know 9-no response
a20	How many step-children have you had?	(number of step-children) 98-does not know 99-no response
a21	Do you now have or have you ever had any adopted children?	1-yes 2-no→go to a23 8-does not know 9-no response
a22	How many adopted children have you had?	(number of adopted children) 98-does not know 99-no response
a23	In total, how many children, step-children or	(number of living children)

	adopted children that you mentioned are still alive?	98-does not know 99-no response
<b>g02</b>	Then, there are (number from previous question) people from that household?	1-yes 2-no
a07	Do you live alone or with someone now?	1-alone 2-with someone
a07a	Five years ago, were you living with exactly the same people that you live with now?	1- yes 2-no
a07b	Five years ago you lived...	1-alone 2-with a spouse or partner 3-with one or more married son(s) or daughter(s) 4-with one or more unmarried son(s) or daughter(s) 5-with other relative 6-with other non-family member 8-does not know
a07c	Why don't you live with same people that you were living with 5 years ago?	9-no response 1-problems related with your children- economic 2-problems related with your children-divorce or separation 3-problems related with your children- marriage or union 4-problems related with your children- to care for children 5-problems related with your own personal situation- economic 6-problems related with your own personal situation- divorce or separation 7-problems related with your own personal situation- death 8-problems related with your own personal situation- you felt lonely 9-problems related with your own personal situation- you needed help 10-problems related with your own personal situation- you got sick 11-other 98- does not know 99- no response

---

**Table K3. Early Life Conditions****Panel K3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a02</b>	Were you born in Barbados?	1-yes 2-no 8-does not know
a03	In what country were you born?	9-no response (country)
a04a	In total, how many years have you lived in ---?	(years) 998-does not know 999-no response
<b>a04b</b>	During the first 15 years of your life, did you live in a rural area for 5 years or more?	1-yes 2-no 8-does not know 9-no response
<b>a01am</b>	In what month and year were you born?	(month)
<b>a01aa</b>	In what month and year were you born?	(year)

**Panel K3.2. Childhood Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c27</b>	During the majority of the first 15 years of your life, would you say that your health was excellent, good, or poor?	1-excellent 2-good 3-poor 8-does not know 9-no response
c28a	During the first 15 years of your life, do you remember having any of the following illnesses? Nephritis (kidney disease)	1-yes 2-no 8-does not know 9-no response
c28b	During the first 15 years of your life, do you remember having any of the following illnesses? Hepatitis (liver disease or jaundice)	1-yes 2-no 8-does not know 9-no response
c28c	During the first 15 years of your life, do you remember having any of the following illnesses? Measles	1-yes 2-no 8-does not know 9-no response
c28d	During the first 15 years of your life, do you remember having any of the following illnesses? Tuberculosis	1-yes 2-no 8-does not know 9-no response
c28e	During the first 15 years of your life, do you remember having any of the following illnesses? Rheumatic fever	1-yes 2-no 8-does not know 9-no response
c28f	During the first 15 years of your life, do you remember having any of the following illnesses? Asthma	1-yes 2-no 8-does not know 9-no response
c28g	During the first 15 years of your life, do you remember having any of the following illnesses? Chronic bronchitis	1-yes 2-no 8-does not know



c28h1	Did you have any others? Specify. (Record up to three more sicknesses that were important for the respondent for the Brazil, Argentina, Cuba, Mexico, and Barbados datasets, but leave as “yes”/”no” response for the Chile dataset)	9-no response (specify) 2-no 8-does not know
c28h2	Did you have any others? Specify. (Record up to three more sicknesses that were important for the respondent.)	9-no response *see codebook (specify) 2-no 8-does not know 9-no response *see codebook
c28h3	Did you have any others? Specify. (Record up to three more sicknesses that were important for the respondent.)	(specify) 2-no 8-does not know 9-no response *see codebook
c29	During the first 15 years of your life, were you confined to a bed for a month or more because of a health problem?	1-yes 2-no 8-does not know 9-no response
c30	During the first 15 years of your life, would you say that there was a time in which you did not eat enough and that you were hungry?	1-yes 2-no 8-does not know 9-no response

---

### Panel K3.3. Childhood Nutrition

---

Variable	Wording of Question/Description	Scale (if applicable)
k05	To measure your height, I need you to take off your shoes. Put your feet and heels together. Look forward, standing with your back and head touching the wall. Look straight ahead.	(height in centimeters) 999-cannot stand up
k06	Knee height.	(height in centimeters) 999-cannot stand up
k07	Arm circumference.	(centimeters)
k08	Waist.	(waist in centimeters) 999-cannot stand up
k09	Hip.	(hip in centimeters) 999-cannot stand up
k12	Calf circumference (of the leg).	(centimeters)

---

### Panel K3.4. Childhood SES

---

c26	During the majority of the first 15 years of your life, what was the economic situation of your family? (Read all the options until you get an affirmative answer.)	1-good 2-average 3-poor 8-does not know 9-no response
a24	Is your father alive?	1-yes 2-no 8-does not know 9-no response
a26	How old was your father when he died?	(age) 998-does not know

a27	Is your mother alive?	999-no response 1-yes 2-no 8-does not know 9-no response
a29	How old was your mother when she died?	(age) 998-does not know 999-no response

## Table K4. Adult Lifestyle

### Panel K4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>c24</b>	You...	1-smoke at the present time? 2-smoked before, but do not now? 3-have never smoked? 8-does not know 9-no response

### Panel K4.2. Adult Exercise

Variable	Wording of Question/Description	Scale (if applicable)
<b>c25a</b>	In the past twelve months, have you exercised regularly or participated in vigorous physical activity such as playing a sport, dancing or heavy housework, 3 or more times a week?	1-yes 2-no 8-does not know 9-no response

### Panel K4.3. Adult Alcohol Consumption (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>c23</b>	In the last three months, on average, how many days per week have you had any alcohol to drink (for example, beer, wine, or another drink containing alcohol)?	1-did not consume any 2-less than one day a week 3-one day a week 4-two to three days a week 5-four to six days a week 6-everyday 8-does not know 9-no response

### Panel K4.4. Adult Diet

Variable	Wording of Question/Description	Scale (if applicable)
c22a	How many complete meals do you eat a day? (Consider breakfast to be a meal)	1-one meal 2-two meals 3-three or more meals 8-does not know 9-no response
c22b	Do you eat milk, cheese or similar products at least once a day?	1-yes 2-no 8-does not know 9-no response
c22c	Do you eat eggs, beans, peas or legumes at least once a week?	1-yes 2-no 8-does not know 9-no response
c22d	Do you eat meat, fish or poultry at least three	1-yes

	times a week?	2-no 8-does not know 9-no response
c22e	Do you eat fruit or vegetables at least 2 times a day?	1-yes 2-no 8-does not know 9-no response
c22f	Have you been eating less in the last twelve months than you were before due to loss of appetite or digestive problems?	1-yes 2-no 8-does not know 9-no response
c22g	How many cups or glasses of liquid do you drink a day (including water, coffee, tea, milk, juice, etc.)?	1-less than three glasses 2-from three to five glasses 3-more than five glasses 8-does not know 9-no response
c22h	In the last twelve months, have you lost weight without going on any diet?	1-yes, between 1 and 3 kg 2-yes, more than 3 kg 3-no 8-does not know 9-no response
c22i	In respect to your nutritional state, would you say that you are well nourished?	1-yes 2-no 8-does not know 9-no response

---

**Panel K4.5. Health Care Utilization (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
f031	During the last 12 months, where did you usually go when you felt sick or when you needed to consult someone about your health? Circle all the answers that the respondent spontaneously mentions.	00-no other 01-I did not go, although I needed it 02-I have not gotten sick, I have not needed a consultation/appointment 03-private physician's office 04-private clinic 05-public clinic 06-clinical designated by medical insurance 07-emergency room in a private health care institution 08-private hospital 09-public hospital 10-emergency room in public hospital 12-pharmacy 13-faith healer 96-other, specify 98-does not know 99-no response
f032	Any additional answer from f031.	

f033 f11	Any additional answer from f031. Not including the hospitalization, did you seek medical care or consultation of any type in the last four months?	1-yes 2-no 8-does not know 9-no response
f12	In total, how many times in the last four months did you seek medical care or consultation?	(times) 88-does not know 99-no response
f13	Thinking of the last time you sought medical attention, from whom did you seek care?	1-doctor 2-nurse 3-phamacist 4-faith healer 5-other 8-does not know 9-no response
f301	Why didn't you have a medical consultation/appointment in the last four months? Circle all of the answers that the respondent spontaneously mentions.	00-no other 01-did not need it 02-cost of the care 03-cost of the travel 04-time required for the trip and the wait 05-the problem was not serious 06-the care is usually poor 07-my family needed me 08-treated self 09-other, specify 98-does not know 99-no response
f302	Any additional answer from f301.	
f303	Any additional answer from f301.	

**Table K5. Adult Health Outcomes**  
**Panel K5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
c01	I would now like to ask you some questions about your health. Would you say that your health is excellent, very good, good, fair or poor?	1-excellent 2-very good 3-good 4-fair 5-poor 8-does not know 9-no response
c02	Compared to your health 12 months ago, would you say that it is better, the same or worse than it was then?	1-better 2-same 3-worse 8-does not know 9-no response
c3	Compared to other people your age, would you say that your health is better, the same or worse?	1-better 2-same 3-worse

8-does not know  
9-no response

<b>Panel K5.2. Anthropometric and Performance Measures (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>k11</b>	Weight.	(weight in kg) 999-cannot stand up
k15 (Argentina, Barbados, Brazil, Chile, Cuba, Mexico, Uruguay)	We are going to use an instrument called a dynamometer to test the strength of your hand. We can do this test only if you have NOT had any surgery on your arm or hand in the last three months. Using the arm you think is strongest, place its elbow on the table and turn the palm of your hand up. Take the two pieces of metal together like his (demonstrate). Tell me if I should adjust the device to your size. When I tell you, tighten your grip as strongly as you can. The two pieces of metal will not move, but I can read off the strength of your grip. We are going to do this test twice. We will stop if you feel any pain or discomfort. Note which hand was used (right or left).	First time: 95-tried but could not 96-did not try because of safety concerns 97-subject disabled 98-refused to do it (finished the exercise, kg) Second time: 95-tried but could not 96-did not try because of safety concerns 97-subject disabled 98-refused to do it (finished the exercise, kg)
k15 (Chile)	Did you have operations on your arms or hands?	1-yes 2-no
l01a	I want you to try to stand with your feet together while keeping your eyes open. Please keep this position until I tell you (ten seconds). You may use your arms, bend your knees or move your body to keep you balance, but try not to move your feet.	66-tried but failed 77-not attempted 88-refused to try
l02	Now I want you to try to stand heel-to-toe for ten seconds. You can use either foot, whichever you feel most comfortable with. You can use your arms, bend your knees, or move your body to keep your balance, but try not to move your feet. Please hold that position until I tell you (ten seconds).	66-tried but failed 77-not attempted 88-refused to try
l03d & l03i	From a standing position, I would like you to try to stand on one foot without touching or holding on to anything. You may begin with either leg, and then we will try with the other. I will count time, and will tell you when to start and when to finish (ten seconds). We can stop whenever you feel that you are losing your balance.	Right foot 66-tried but failed 77-not attempted 88-refused to try Left foot 66-tried but failed 77-not attempted 88-refused to try
l04	Do you feel capable of rising rapidly from the chair five times?	1-Yes 2-No
l05	Now I want you to try to stand up from and sit down in a chair five times.	66-tried but failed 77-not attempted 88-refused to try

l06	Do you feel confident enough to try to stand from the chair with your arms crossed over your chest five times?	1-Yes 2-No
l07s	Now, keeping your arms crossed over your chest, please stand up from the chair as fast as you can five times without pausing. Every time you stand up, sit down and stand up again.	66-tried but failed 77-not attempted 88-refused to try
l07c	Record height of chair seat from floor	1-Yes 2-No
l08	Have you had an operation for cataracts or surgery on your retina in the last six weeks?	8-Does not know 9-No Response
l09	For this next test you have to squat and pick up a pencil. This is a movement you will make only if you have NOT had an operation for cataracts in the last six weeks. From a standing position, please squat, pick up this pencil, and stand up again. (Place the pencil on the floor in front of the subject and tell him/her when to start. If the subject is unable to do it in less than 30 seconds, do not let him/her continue.	66-tried but failed 77-not attempted 88-refused to try

---

### **Panel K5.3. Functionality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>do1a</b>	Do you have any difficulty with running or jogging one and a half kilometers (1 mile)?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>do1b</b>	Do you have any difficulty with walking several hundred yards?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>do1c</b>	Do you have any difficulty with walking one hundred yards?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>do2</b>	Do you have any difficulty with sitting for two hours?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>do3</b>	Do you have any difficulty with getting up from a chair after sitting for long periods?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>do4</b>	Do you have any difficulty with climbing several flights of stairs without resting?	1-yes 2-no

		3-cannot do it 4-does not do it 9-no response
<b>d05</b>	Do you have any difficulty with climbing one flight of stairs without resting?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>d06</b>	Do you have any difficulty with stooping, kneeling, or crouching?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>d07</b>	Do you have any difficulty reaching or extending your arms above shoulder level?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>d08</b>	Do you have any difficulty with pulling or pushing a large object, like a living room chair?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>d09</b>	Do you have any difficulty with lifting or carrying weights over 5 kgs. (10 lbs.), like a heavy shopping bag?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>d10</b>	Do you have any difficulty with picking up a coin from a table?	1-yes 2-no 3-cannot do it 4-does not do it 9-no response
<b>d11</b>	Do you have difficulty with walking across a room?	1-yes 2-no 8-does not know 9-no response
d12a	Do you use any equipment or devices when walking across a room?	0 response
d12b	What type of equipment do you use? (respondents could have multiple answers, all of which are saved in several d12b* variables)	1-railing 2-walker 3-cane 4-crutches 5-orthopedic shelves 6- brace (leg or back) 7- prosthesis 8-oxygen or respirator 9-furniture or walls 10-wheelchair or cart 11-other, specify 12-does not know

d12c	Does anyone ever help you with walking across a room?	13-no response 1-yes 2-no 8-does not know 9-no response
<b>d13a</b>	Do you have difficulty with dressing (including putting on shoes and socks/stockings)?	1-yes 2-no 8-does not know 9-no response
d13b	Does anyone help you dress?	1-yes 2-no 8-does not know 9-no response
<b>d14a</b>	Do you have difficulty bathing (including getting in and out of the tub)?	1-yes 2-no 8-does not know 9-no response
d14b	Do you ever use any equipment or devices while bathing (such as a rail or a stool)?	1-yes 2-no 8-does not know 9-no response
d14c	Does anyone ever help you with bathing?	1-yes 2-no 8-does not know 9-no response
<b>d15a</b>	Do you have difficulty eating (including cutting food, filling glasses, etc.)?	1-yes 2-no 8-dose not know 9-no response
d15b	Does anyone help you with eating?	1-yes 2-no 8-does not know 9-no response
<b>d16a</b>	Do you have difficulty getting in and out of bed?	1-yes 2-no 8-does not know 9-no response
d16b	Do you ever use any equipment or devices when getting in or out of bed?	1-yes 2-no 8-does not know 9-no response
d16c	Does anyone help you with getting in or out of bed?	1-yes 2-no 8-does not know 9-no response
<b>d17a</b>	Do you have difficulty with using the toilet (including getting up and down from the toilet)?	1-yes 2-no 8-does not know 9-no response
<b>d18a</b>	Do you have difficulty with preparing a hot meal?	1-yes 2-no



		3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response -1-does not know -2-does not answer
d18b	Does anyone help you with preparing a hot meal?	1-yes 2-no 8-does not know 9-no response
<b>d19a</b>	Do you have difficulty managing your own money?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response
d19b	Does anyone help you with managing your own money?	-1-does not know -2-does not answer 1-yes 2-no 8-does not know 9-no response
<b>d20a</b>	Do you have difficulty going places alone, like to places such as the doctor, church, etc.?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response -1-does not know -2-does not answer
d20b	Does anyone ever accompany you to help you get in or out of a car/bus, bring you transportation or help you to catch some form of transportation (call a taxi, for example)?	1-yes 2-no 8-does not know 9-no response
<b>d21a</b>	Do you have difficulty with shopping for groceries?	1-yes 2-no 3-cannot do it 4-does not do it 8-does not know 9-no response -1-does not know -2-does not answer
d21b	Does anyone ever help you with shopping for groceries?	1-yes 2-no 8-does not know 9-no response

<b>d22a</b>	Do you have difficulty with making telephone calls?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response -1-does not know -2-does not answer
d22b	Does anyone ever help you with making telephone calls?	1-yes 2-no 8-does not know 9-no response
<b>d23a</b>	Do you have difficulty with doing light housework such as making beds, dusting, etc.?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response -1-does not know -2-does not answer
d23b	Does anyone ever help you with light housework?	1-yes 2-no 8-does not know 9-no response
<b>d24a</b>	Do you have difficulty with doing heavy housework, such as cleaning the bathroom, cleaning floors, etc.?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response -1-does not know -2-does not answer
d24b	Does anyone ever help you with heavy housework?	1-yes 2-no 8-does not know 9-no response
<b>d25a</b>	Do you have difficulty with taking your medications?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply 8-does not know 9-no response -1-does not know -2-does not answer

---

#### **Panel K5.4. Chronic Conditions**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c04</b>	Has a doctor or nurse ever told you that you	1-yes

---

	have high blood pressure or hypertension?	2-no 8-does not know 9-no response
<b>c05</b>	Has a doctor or nurse ever told you that you have diabetes, that is to say, high blood sugar levels?	1-yes 2-no 8-does not know 9-no response
c05a	Are you taking an oral medication in order to control your diabetes now?	1-yes 2-no 8-does not know 9-no response
c05b	In order to treat or control your diabetes, are you now using insulin injections?	1-yes 2-no 8-does not know 9-no response
c05c	In order to treat or control your diabetes, have you lost weight or followed a specific diet during the last 12 months?	1-yes 2-no 8-does not know 9-no response
c05d	Is your diabetes generally under control?	1-yes 2-no 8-does not know 9-no response
c05e	Compared to 12 months ago, has your diabetes gotten better, stayed the same or gotten worse?	1-better 2-same 3-worse 8-does not know 9-no response
<b>c06</b>	Has a doctor or nurse ever told you that you have cancer or a malignant tumour, excluding minor skin cancers?	1-yes 2-no 8-does not know 9-no response
<b>c07</b>	Has a doctor or nurse ever told you that you have chronic lung disease such as chronic bronchitis, emphysema or asthma?	1-yes 2-no 8-does not know 9-no response
<b>c08</b>	Has a doctor or nurse ever told you that you had a heart attack, coronary heart disease, angina, congestive heart failure or other heart problems?	1-yes 2-no 8-does not know 9-no response
<b>c09</b>	Has a doctor ever told you that you have had a cerebral embolism, stroke, attack or thrombosis?	1-yes 2-no 8-does not know 9-no response
<b>c10</b>	Have you ever had or has a doctor or nurse ever told you that you have arthritis, rheumatism or osteoarthritis?	1-yes 2-no 8-does not know 9-no response
c11e	In the past 12 months, has a doctor or nurse told you that you have osteoporosis?	1-yes 2-no 8-does not know

---

*Source:* Documentation from the following source was used to compile the tables above. Pelaez, M., Palloni, A., Albala, C., Alfonso, J.C., Ham-Chande, R., Hennis, A., et al. SABE – Survey on Health, Well-Being, and Aging in Latin America and the Caribbean, 2000. ICPSR03546-v1. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2004-08-13, accessed 2010-04-30. <http://www.ssc.wisc.edu/sabe/home.html>, doi:10.3886/ICPSR03546.v1

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table K1.* The variable *ponder1* was only used in Chile and was renamed in the cross national data set to *ponder* to match the other Latin American cities' data.

*Note A, Panel K2.3.* Chile coded income slightly differently from the other countries and provides the amount paid annually (*h25a*), daily (*h25d*), monthly (*h25m*), biweekly (*h25q*), and weekly (*h25s*). There are additional questions regarding housing characteristics in section J of the questionnaire. Cuba codes the questions regarding ownership differently (*j13a* is coded 1 meaning refrigerator, *j13b* is coded as 2 meaning clothes washer, *j13c* is coded as 3 meaning water heater, *j13d* is coded as 4 meaning microwave, *j121* is coded 1 meaning bicycle, *j122* is coded 2 meaning motorcycle or moped, and *j123* is coded 3 meaning automobile).

*Note A, Panel K2.4.* Variable *a07* was slightly different in Chile and included the following variables: *a07a*, *a07b1*, *a07b2*, *a07b3*, *a07c1*, *a07c2*, and *a07c3*. See the Chilean questionnaire for more detail.

*Note A, Panel K4.1.* There are additional smoking variables in the questionnaire (*c24a-c24c*).

*Note A, Panel K4.3.* Additionally, the questionnaire includes the variable *c23a* which asks about the average number of drinks on the days the respondent drank in the last three months.

*Note A, Panel K4.5.* The questionnaires for each country are slightly different in Section F. These are taken from the Barbados questionnaire. For Cuba, health utilization variables were coded slightly differently (see variables *f031-f0399*).

*Note A, Panel K5.2.* SABE has a cognitive evaluation in section B of the questionnaire. In Cuba, anthropometric measurements were averaged because each respondent was measured three times. The Cuban anthropometric variables were slightly different (height: *k5m1e*, *k5m2e*, *k5m3e*, *k5m3d*; knee height: *k6m1e*, *k6m1d*, *k6m2e*, *k6m2d*, *k6m3e*, *k6m3d*; waist circumference: *k8m1e*, *k8m1d*, *k8m2e*, *k8m2d*, *k8m3e*, *k8m3d*; hip circumference: *k9m1e*, *k9m1d*, *k9m2e*, *k9m2d*, *k9m3e*, *k9m3d*; weight: *k11m1e*, *k11m1d*, *k11m2e*, *k11m2d*, *k11m3e*, *k11m3d*). Argentina included none of the anthropometric measures in their questionnaire. Chile, Cuba, and Mexico measured blood pressure as part of their questionnaire (Chile: variables *k011* and *k012*; Cuba and Mexico: variables *k161s*, *k161d*, *k162s*, and *k162d*). There are other anthropometric measures available including triceps fold and width of the wrist.

The *l\** variables vary from the questionnaire to the data set. In the questionnaire, they are *l1*, *l2*, etc. while in the data set they are *l01*, *l02*, etc.

**NOTE B.**

Coding of variables varied slightly across SABE countries, especially in the case of Cuba. For example, Cuba measured height in three separate measurements and thus three separate variables. Review Cuba questionnaire for more information.

## Appendix L: Mexico-MHAS original variables

The tables below describe the original variables from the Mexico-MHAS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Mexico data that should be taken into account when examining the data.

---

**Table L1. Respondent**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
acthog	Updated household information for 2001.	30-one 2001 respondent died, no new spouse 31-one 2001 respondent died, new spouse 32-both 2001 respondents died
codent01	Person identification code 2001; should be the same as ps3.	1-sampled person 2-spouse of sampled person
codent03	Same variable as ent2.	
cunicah	Unique household ID for 2001; should be the same as unhhid.	
<b>ent_tip</b>	Type of individual interview.	11 and 12-direct interview 21 and 22-proxy
ent2	Individual code of respondent.	
ent4_1	Day of interview in wave 2 (2003).	(day)
ent4_2	Month of interview in wave 2 (2003).	(month)
<b>fac_per</b>	Person sample weight.	
<b>murb</b>	Community of residence has 100,000 people or more.	0-less urbanized regions 1-more urbanized regions
<b>ps3</b>	Person ID number for MHAS 2001.	1-sampled person 2-spouse of sampled person
ps31_1	Day of interview in wave 1 (2001).	(day)
ps31_2	Month of interview in wave 1 (2001).	(month)
<b>unhhid</b>	Unique Household ID number.	

---

**Table L2. Demographics (see note A)**

**Panel L2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>sexo</b>	Respondent's sex.	1-male 2-female
<b>edad</b>	Age.	(continuous)
<b>a10</b>	Currently are you...	1-single? 2-married? 3-in a consensual union? 4-divorced? 5-separated from a union? 6-separated from a marriage? 7-widowed from a union?

---

8-widowed from a marriage?

<b>Panel L2.2. Education, Income and Wealth (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
a25	Not counting vacations and short visits, have you ever worked or lived in the US?	0-invalid 1-yes 2-no 8-rf 9-dk
a26	In total, about how many years have you worked or lived in the US?	(years) 01-12 months or less 88-rf 99-dk
<b>a3_3</b>	How many years of education do you have?	[years] 99-don't know
a4	Do you know how to read and write a message?	1-yes 2-no 8-rf 9-don't know
a5	Can you count from 1 to 10?	1-yes 2-no 8-rf 9-don't know
a33	Are you currently a permanent resident or citizen of the United States? (Note: Not a lot of respondents answered this question.)	1-permanent resident 2-citizen 3-no, neither of the two 8-rf 9-dk
<b>am85</b>	Total consumption.	
<b>entmig</b>	State of residence is among 6 with highest out-migration to the US in 1990-95 (Durango, Guanajuato, Jalisco, Michoacán, Nayarit, Zacatecas).	0-other Mexican state 1-highest out-migration states
<b>income</b>	Individual total income.	
<b><u>i</u></b>		
<b>j1ob</b>	In this house do you have a television?	1-yes 2-no 8-rf 9-dk
j10c	In this house do you have a refrigerator?	1-yes 2-no 8-rf 9-dk
j10d	In this house do you have a washing machine?	1-yes 2-no 8-rf 9-dk
j10e	In this house do you have a telephone?	1-yes 2-no 8-rf 9-dk
<b>j1of</b>	In this house do you have a water heater?	1-yes

		2-no 8-rf 9-dk
<b>j5</b>	In this housing unit do you have...?	1-piped water inside your house 2-piped water outside your house but within your lot 3-other piped water 4-unpiped water (well, river, or other) 8-rf 9-dk
<b>j6</b>	Does your sanitary facility have...	1-a water connection? 2-a bucket filled with water? 3-no need for water? 4-do not have one 8-rf 9-dk
<b>j8</b>	The fuel that you use the most to cook is...?	1-gas 2-wood or coal 3-other (oil, electricity, other) 8-rf 9-dk
k75	Excluding income you have already mentioned, during the last year did you (and/or your spouse) receive any monetary or inkind help from relatives or friends who do not reside here with you?	1-yes 2-no 8-rf 9-dk
k85imp	If imputed value	1-yes 0-no
num_k	Number of individuals to whom section K referred.	(number)

---

**Panel L2.3. Family and Household**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a19</b>	How many live births have you had? (IF MALE: How many children have you fathered?)	(number) 00-none 88-rf 99-dk
<b>a20</b>	Of those live births, how many of them are still alive?	(number) 96-all 88-rf 99-dk
<b>f30</b>	How many siblings who were born alive do you have?	(number) 00-no one 88-rf 99-dk
<b>f31</b>	Of your siblings who were born alive, how many are living now?	(number) 96-all 88-rf 99-dk
<b>f32</b>	Not counting vacations and short visits, have any of your siblings ever worked or lived in the	1-yes 2-no

---

US?

8-rf  
9-dk**Table L3. Early Life Conditions****Panel L3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a21</b>	About how many years have you lived in this community or have you always lived here?	(years) 00-less than 6 months 01-6-11 months 97-has always live here 88-rf 99-dk
<b>murb</b>	Community of residence has 100,000 people or more.	0-less urbanized regions 1-more urbanized regions
<b>a1_2</b>	On what day, month, and year were you born?	(month) 99-don't know
<b>a1_3</b>	On what day, month, and year were you born?	(year) 9999-don't know

**Panel L3.2. Childhood Health, Nutrition, and SES**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a6</b>	Before you were age ten, did you ever live in the same house or neighborhood with your grandparent(s) for more than 6 months?	1-yes 2-no 8-rf 9-dk
<b>a7</b>	Before you were age ten, did your house have a toilet?	1-yes 2-no 8-rf 9-dk
<b>a8</b>	Before you were age ten, did you have a serious health problem that affected your normal activities for a month or more?	1-yes 2-no 8-rf 9-dk
<b>a9a</b>	Before you were age ten, did you ever have any of the following illnesses or problems? Tuberculosis	1-yes 2-no 8-rf 9-dk
<b>a9b</b>	Before you were age ten, did you ever have any of the following illnesses or problems? Rheumatic fever	1-yes 2-no 8-rf 9-dk
<b>a9c</b>	Before you were age ten, did you ever have any of the following illnesses or problems? Polio	1-yes 2-no 8-rf 9-dk
<b>a9d</b>	Before you were age ten, did you ever have any of the following illnesses or problems? Typhoid fever	1-yes 2-no 8-rf 9-dk
<b>a9e</b>	Before you were age ten, did you ever have any of the following illnesses or problems? A serious	1-yes 2-no



	blow to the head that made you faint?	8-rf 9-dk
<b>c72</b>	About how tall are you without shoes?	(meters and centimeters) 888-rf 999-dk
<b>f1</b>	What was the final level of school your mother completed?	1-none 2-some elementary 3-completed elementary 4-more than elementary 8-rf 9-dk
f10	Is your father alive now?	1-yes 2-no 8-rf 9-dk
f11	How old is your father?	(age) 888-rf 999-dk
f14	How old was your father when he died?	(age) 888-rf 999-dk
f2	Has your mother ever worked or lived in the US?	1-yes 2-no 8-rf 9-dk
f3	Is your mother alive now?	1-yes 2-no 8-rf 9-dk
f4	How old is your mother?	(age) 888-rf 999-dk
f7	How old was your mother when she died?	(age) 888-rf 999-dk
<b>f8</b>	What was the final level of school your father completed?	1-none 2-some elementary 3-completed elementary 4-more than elementary 8-rf 9-dk
f9	Has your father ever worked or lived in the US?	1-yes 2-no 8-rf 9-dk
<b>l4</b>	Height.	(centimeters) 995-tried, but couldn't do it 996-did not try 997-can't stand up 999-refused
<b>l5</b>	Waist circumference.	(centimeters)

16	Hip circumference.	995-tried, but couldn't do it 996-did not try 997-can't stand up 999-refused (centimeters)
18	Measurement of knee height from the ground.	995-tried, but couldn't do it 996-did not try 997-can't stand up 999-refused (centimeters)
		995-tried, but couldn't do it 996-did not try 997-can't stand up 999-refused

---

### Table L4. Adult Lifestyle

#### Panel L4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
c54	Have you ever smoked cigarettes? Include more than 100 cigarettes or five packs in your lifetime. Do not include pipes or cigars.	1-yes 2-no 8-rf 9-dk
c55	Do you smoke cigarettes now?	1-yes 2-no 8-rf 9-dk

#### Panel L4.2. Adult Exercise

Variable	Wording of Question/Description	Scale (if applicable)
c53	On average during the last two years, have you exercised or done hard physical work three or more times a week? Includes various activities such as sports, heavy household chores, or other physical work.	1-yes 2-no 8-rf 9-dk

#### Panel L4.3. Adult Alcohol Consumption (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
c60	Do you ever drink any alcoholic beverages such as beer, wine, liquor, or pulque?	1-yes 2-no 3-never have used alcohol 8-rf 9-dk

#### Panel L4.4. Health Care Utilization

Variable	Wording of Question/Description	Scale (if applicable)
d8_1	In the last year, about how many times have you seen a curandero?	(number of times) 000-none 888-rf 999-dk
d8_2	In the last year, about how many times have you consulted a homeopath?	(number of times) 000-none 888-rf

d8_3	In the last year, about how many times have you seen a dentist?	999-dk (number of times) 000-none 888-rf
d8_4	In the last year, about how many times have you had outpatient procedures, not counting stays in the hospital?	999-dk (number of times) 000-none 888-rf
d8_5	In the last year, about how many times have you visited or consulted a doctor or medical personnel?	999-dk (number of times) 000-none 888-rf

## **Table L5. Adult Health Outcomes (see note A)**

### **Panel L5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c1</b>	Now I have some questions about your health. Would you say your health is...	1-excellent 2-very good 3-good 4-fair 5-poor 8-rf 9-dk
<b>c2</b>	Comparing your health now with your health of two years ago, would you say your health now is...	1-much better 2-somewhat better 3-more or less the same 4-somewhat worse 5-much worse 8-rf 9-dk
<b>c3</b>	Have you ever seen a doctor or medical personnel?	1-yes 2-no 8-rf 9-dk

### **Panel L5.2. Anthropometric and Performance Measures (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
l9_1	To finish, I need for you to do an exercise to measure mobility. I'm going to show you how to do the following exercise. I would like you to try to do it. If you think that you cannot do it or that it is too dangerous, please tell me so. While standing up, please try to balance on one foot without holding onto or grabbing anything. You can start with either foot; then we'll try with the other one. I'm going to time it, so I'll tell you when to start and when to finish (TEN SECONDS). We can stop whenever you feel you are going to lose your balance. Let's start with the foot on which you feel safest.	(right foot, did the test in: number of seconds) 94-missing or injured extremity 95-tried, but couldn't do it 96-did not try for safety reason 97-can't stand up 99-refused

<b>l9_2</b>	Repeat left foot.	(left foot, did the test in: number of seconds) 94-missing or injured extremity 95-tried, but couldn't do it 96-did not try for safety reason 97-can't stand up 99-refused
<b>c71</b>	About how much do you weigh now?	(kilos) 888-rf 999-dk
<b>l3</b>	Now I'm going to weigh you.	(kilograms) 995-tried, but couldn't do it 996-did not try 997-can't stand up 999-refused

---

**Panel L5.3. Functionality (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>h1</b>	Because of health problems, do you have difficulty walking several blocks?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h2</b>	Because of health problems, do you have difficulty running or jogging 1 kilometer?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h3</b>	Because of health problems, do you have difficulty walking one block?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h4</b>	Because of health problems, do you have difficulty sitting for about 2 hours?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h5</b>	Because of health problems, do you have difficulty getting up from a chair after sitting for long periods?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h6</b>	Because of health problems, do you have difficulty climbing several flights of stairs without resting?	1-yes 2-no 6-can't do 7-doesn't do

<b>h7</b>	Because of health problems, do you have difficulty climbing one flight of stairs without resting?	8-rf 9-dk 1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h8</b>	Because of health problems, do you have difficulty stooping, kneeling, or crouching?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h9</b>	Because of health problems, do you have difficulty reaching or extending your arms above shoulder level?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h10</b>	Because of health problems, do you have difficulty pulling or pushing large objects like a living-room chair?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h11</b>	Because of health problems, do you have difficulty lifting or carrying objects weighing over 5kg, like a heavy bag of groceries?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h12</b>	Because of health problems, do you have difficulty picking up a 1 peso coin from the table?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h13</b>	Because of health problems, do you have difficulty dressing including putting on shoes and socks?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h15_1</b>	Because of health problems, do you have difficulty walking across a room?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h16_1</b>	Because of health problems, do you have	1-yes

	difficulty bathing or showering?	2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h17_1</b>	Because of health problems, do you have difficulty eating, such as cutting up your food?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h18_1</b>	Because of health problems, do you have difficulty getting in or out of bed?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h19_1</b>	Because of health problems, do you have difficulty using the toilet, including getting on and off the toilet or squatting?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h26_1</b>	Because of health problems, do you have difficulty preparing a hot meal?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h27_1</b>	Because of health problems, do you have difficulty shopping for groceries?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h28_1</b>	Because of health problems, do you have difficulty taking medications?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk
<b>h29_1</b>	Because of health problems, do you have difficulty managing your money?	1-yes 2-no 6-can't do 7-doesn't do 8-rf 9-dk

---

**Panel L5.4. Chronic Conditions**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c4</b>	Has a doctor or medical personnel ever told you that you have hypertension or high blood	1-yes 2-no

---

	pressure?	8-rf 9-dk
<b>c6</b>	Has a doctor or medical personnel ever told you that you have diabetes or a high blood sugar level?	1-yes 2-no 8-rf 9-dk
c7	Are you currently taking any oral medication in order to control your diabetes?	1-yes 2-no 8-rf 9-dk
c11_1	With what frequency do you measure your blood-sugar level or urine-sugar level?	(number of times) 88-rf 99-dk
c11_2	With what frequency do you measure your blood-sugar level or urine-sugar level?	(per period) 1-week 2-month 3-year 5-never 88-rf 99-dk
<b>c12</b>	Has a doctor or medical personnel ever told you that you have cancer or a malignant tumor, excluding minor skin cancer?	1-yes 2-no 8-rf 9-dk
<b>c19</b>	Has a doctor or medical personnel ever told you that you have a respiratory illness, such as asthma, or emphysema?	1-yes 2-no 8-rf 9-dk
<b>c22</b>	Has a doctor or medical personnel ever told you that you have had a heart attack?	1-yes 2-no 8-rf 9-dk
<b>c27</b>	Has a doctor or medical personnel ever told you that you have had a stroke?	1-yes 2-no 8-rf 9-dk
<b>c34</b>	Has a doctor or medical personnel ever told you that you have arthritis or rheumatism?	1-yes 2-no 8-rf 9-dk
c39a	Has a doctor or medical personnel ever told you that you have liver or kidney infection?	1-yes 2-no 8-rf 9-dk
c39b	Has a doctor or medical personnel ever told you that you have tuberculosis?	1-yes 2-no 8-rf 9-dk
c39c	Has a doctor or medical personnel ever told you that you have pneumonia?	1-yes 2-no 8-rf

---

<b>Panel L5.5. Adult Mortality</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>fallecid</b>	Mortality indicator (MHAS created variable).	0-alive in 2003
<b>o03</b>		1-died between 2001 and 2003
<b>sa8b</b>	Number of months between June 2001 and his/her death (calculated by MHAS).	(number of months)
<b>sa8a_1</b>	When did they die (month)?	(month)
<b>sa8a_2</b>	When did they die (year)?	(year)
<b>sa6</b>	Cause of death.	1-illness 2-accident or violence 3-other cause 8-rf 9-dk

*Source:* Documentation from the following source was used to compile the tables above. Soldo, B.J., Wong, R., Palloni, A., & Instituto Nacional de Estadística, Geografía e Informática (INEGI). Mexican Health and Aging Study (MHAS). Mexican Health and Aging Study [distributor], accessed 2008-05-29. <http://www.mhas.pop.upenn.edu/english/home.htm>, <http://www.mhas.pop.upenn.edu/english/documentation.htm>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table L2.* There are additional questions on migration to the United States in Section A of the Basic Questionnaire.

*Note A, Panel L2.2.* Several variables that begin with *imam* reflect imputed income. This was calculated by MHAS staff using the *imam\** variables. There is also consumption data in MHAS. There are several other questions about the respondent's housing situation, especially homeownership, in Section J of the Basic Questionnaire.

*Note A, Panel L4.1.* There are additional questions about smoking in Section C of the Basic Questionnaire (c56-c59).

*Note A, Panel L4.3.* There are additional questions about drinking alcohol in Section C of the Basic Questionnaire (c61-c68).

*Note A, Table L5.* For diabetes, there is no question regarding when it was diagnosed. Question c52 asks about respondent's depression. There are several symptom questions in Section C of the Basic Questionnaire. In Section SA, there are additional questions about the deceased.

*Note A, Panel L5.2.* There is a section on cognitive ability in Section E of the Basic Questionnaire. This is also a measurement for calf circumference (*l7*) in Section L of the Basic Questionnaire.

*Note A, Panel L5.3.* There are additional questions about whether or not the respondent gets assistance with these tasks in Section H of the Basic Questionnaire.

The variable *h12* was used to assess difficulty with eating.



**NOTE B.**

Height and weight were measured for a subset of respondents; all respondents gave self-reported health and weight. These two pieces of information were combined into the final height and weight measures.

## Appendix M: Netherlands-SHARE original variables

The tables below describe the original variables from the Netherlands-SHARE survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Netherlands data that should be taken into account when examining the data.

**Table M1. Respondent (see note A)**

Variable	Wording of Question/Description	Scale (if applicable)
<b>mergeid</b>	Respondent ID.	
<b>w1mci</b>	Sampling weight.	
<b>cvid,</b> <b>relrprs,</b> <b>mstat</b>	Variables used to identify household position.  Living with spouse/partner.	1-living with spouse 2-living with a partner 3-living as a single 97-other -1-don't know
HO037_	How would you describe the area where you live?	1-a big city 2-the suburbs or outskirts of a big city 3-a large town 4-a small town 5-a rural area or village
hhid	Variable created by SHARE staff to determine household identification. Fixed across modules and waves.	
hhid1	Household identifier, wave 1.	
status	Variable created by SHARE staff to determine type of respondent.	1-respondent 2-non-respondent, partner 3-other eligible person 4-other household member
int_year	Interview year.	(2004, 2005, 2006)
int_month	Interview month.	
int_year_w2	Interview year, wave 2.	
int_month_w2	Interview month, wave 2.	
w1vci	Weight for vignette sample.	
w1aci	Weight for two samples jointly.	
nowh_amh	Variable that explains missing values for the sample weights. No weights due to missing birth year.	
nowh_or	Variable that explains missing values for the sample weights. No weights, other reason.	
nowi_amr	Variable that explains missing values for the sample weights. No weights due to missing age of respondent.	

nowi_ne	Variable that explains missing values for the sample weights. No weights due to non-eligible respondent (born after 1954).	
ivo20_	A proxy respondent has answered some or all of the questions we had for [{name of respondent}]. How is the proxy respondent related to [{name of respondent}]?	1-spouse/partner 2-child/child-in-law 3-parent/parent-in-law 4-sibling 5-grandchild 6-other relative 7-nursing home staff 8-home helper 9-friend/acquaintance 10-other
ivo09_	In which type of area is the building located?	1-a big city 2-the suburbs or outskirts of a big city 3-a large town 4-a small town 5-a rural area or village
ho041_	Who answered the questions in ho	1 respondent only 2 respondent and proxy 3 proxy only -1 don't know

---

## Table M2. Demographics

### Panel M2.1. Gender, Age and Marital Status

Variable	Wording of Question/Description	Scale (if applicable)
<b>gender</b>	Variable created by SHARE staff to determine respondent's sex.	1-male 2-female
dn003_	In which month and year were you born?	(month and year) -1 don't know
<b>yrbirth</b>	Variable created by SHARE staff to determine year of birth.	(year)
<b>mobirth</b>	Variable created by SHARE staff to determine month of birth.	(month)
<b>dn014_</b>	Please look at card 4. What is your marital status?	1-married and living together with spouse 2-registered partnership 3-married, living separated from spouse 4-never married 5-divorced 6-widowed

### Panel M2.2. Ethnicity, Race and Language (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
dn006_	In which year did you come to live in the United Kingdom?	(year, 1874-2004) -1 don't know
dn007_	Do you have British citizenship?	1-yes 5-no

### Panel M2.3. Education, Income and Wealth (see note A)

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
dn010_	Please look at card 2. What is the highest school leaving certificate or school degree that you have obtained?	1-comprehensive school 2-grammar school (not fee-paying) 3-fee-paying grammar school 4-sixth form college/tertiary college 5-public or other private school 6-elementary school 7-secondary modern/secondary school 8-technical school (not college) 9 “education country-specific category 9” 10 “education country-specific category 10” 11 “education country-specific category 11” 95-no degree yet/still in school 96-none 97-other type (also abroad) -1 don’t know -2 refusal
dn012_	Please look at card 3. Which degrees of higher education or vocational training do you have? Interviewer: Code all that apply.	1-nurses’ training school 2-college of further/higher education 3-other college or training establishment 4-polytechnic/Scottish Central Institutions 5-university 95-still in higher education or vocational training 96-none 97-other (also abroad)
<b>edu</b>	Imputed education variable.	0-pre-primary education, none 1-primary education or first stage basic education 2-lower secondary education or second stage of basic

**iscedy\_r** Category of education according to the International Standard Classification of Education from 1997.

3-upper secondary education  
 4-post-secondary non-tertiary education  
 5-first stage of tertiary education  
 6-second stage of tertiary education  
 0-pre-primary education, none  
 1-primary education or first stage basic education  
 2-lower secondary education or second stage of basic education  
 3-upper secondary education  
 4-post-secondary non-tertiary education  
 5-first stage of tertiary education  
 6-second stage of tertiary education

**hgtincv** Household total gross income (imputed).  
**pppx2004** PPP-adjusted exchange rate in 2004 (imputed).  
**hgtincvi** Household total gross income—imputation flag.

**Panel M.4. Family and Household**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>dn034_</b>	Have you ever had any siblings?	1=yes 5=no -2 refusal
<b>dn035_</b>	Were you the oldest child, the youngest child, or somewhere in-between?	1-oldest 2-youngest 3-in-between -1 don't know
<b>dn036_</b>	How many brothers do you have that are still alive?	(0-20) -1 don't know -2 refusal
<b>dn037_</b>	And how many sisters do you have that are still alive?	(0-20) -1 don't know
<b>cho01_</b>	Now I will ask some questions about your children. How many children do you have that are still alive? Please count all natural children, fostered, adopted and stepchildren [, including those of] [your husband/your wife/your partner].	(number, range: 0-20)
<b>cho02_</b>	[Is this child a natural children/Are these children natural children] of your own [and your current spouse or partner]?	1=yes 5=no -2 refusal
<b>cho21_</b>	How many grandchildren do you [and your] [husband/wife/partner] have altogether? IWER:	(number, range: 0-20) -2 refusal

	Include grandchildren of spouse or partner from previous relationships.	-1 don't know
cho22_	Do you [or your] [husband/wife/partner] have any great-grandchildren?	1-yes 5-no
<b>hhsiz</b>	Variable created by SHARE staff to determine household size.	
ho034_	How many years have you been living in your present accommodation? Interviewer: Round up to full years.	(number of years; range 0-120) -2 refusal -1 don't know
ho035_	And approximately how many years have you been living in your present town? Interviewer: Round up to full years.	(number of years; range 0-120)
ho037_	Please look at card 30. How would you describe the area where you live? Interviewer: Read out.	1-a big city 2-the suburbs or outskirts of a big city 3-a large town 4-a small town 5-a rural area or village
<b>mstat</b>	Variable created by SHARE staff to determine living arrangements.	-1-don't know 1-living with a spouse 2-living with a partner 3-living as a single 97-other

### Table M3. Early Life Conditions (see note A)

#### Panel M3.1. Birthplace

Variable	Wording of Question/Description	Scale (if applicable)
<b>dn004_</b>	Were you born in the United Kingdom?	1-yes 5-no -1 don't know
<b>mobirth</b>	Variable created by SHARE staff to determine month of birth.	(month)
<b>yrbirth</b>	Variable created by SHARE staff to determine year of birth.	(year)

#### Panel M3.2. Childhood Health and Nutrition (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>ph013_</b>	How tall are you?	IWER: Length in centimeters, UK: Feet dot inches -1 don't know

#### Panel M3.3. Childhood SES

Variable	Wording of Question/Description	Scale (if applicable)
<b>isco_mo</b>	What is or was the last job [your] mother had? Please give the exact description.	(coded according International Standard Classification Occupation version 88 (ISCO-88) occupational categories)
<b>text_mo</b>	What is or was the last job [your] mother had? Please	(written label given to

<b>isco_fa</b>	give the exact description. What is or was the last job [your] father had? Please give the exact description.	isco_mo) (coded according International Standard Classification Occupation version 88 (ISCO-88) occupational categories)
text_fa	What is or was the last job [your] father had? Please give the exact description.	(written label given to isco_fa)
dn026_1	Is [your] [natural] mother still alive?	1-yes 5-no -2 refusal
dn026_2	Is [your] [natural] father still alive?	1-yes 5-no -1 don't know -2 refusal
dn027_1	How old was [your] mother when she died?	(age; range 10-120) -1 don't know -2 refusal
dn027_2	How old was [your] father when he died?	(age; range 10-120) -1 don't know -2 refusal
dn028_1	How old is [your] mother now?	(age; range 18-120)
dn028_2	How old is [your] father now?	(age; range 18-120)
dn033_	How would you describe the health of [your] [mother/father]? Would you say it is: Interviewer: Read out.	1-very good 2-good 3-fair 4-poor 5-very poor -1 don't know

---

## Table M4. Adult Lifestyle

### Panel M4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>bro01_</b>	The following questions are about smoking and drinking alcoholic beverages. Have you ever smoked cigarettes, cigars, cigarillos or a pipe daily for a period of at least one year?	1-yes 5-no
<b>bro02_</b>	Do you smoke at the present time?	1-yes 5-no, I have stopped

### Panel M4.2. Adult Exercise

Variable	Wording of Question/Description	Scale (if applicable)
<b>bro15_</b>	We would like to know about the type and amount of physical activity you do in your daily life. How often do you engage in vigorous physical activity, such as sports, heavy housework, or a job that involves physical labour? Interviewer: read out.	1-more than once a week 2-once a week 3-one to three times a month 4-hardly ever, or never
bro16_	How often do you engage in activities that require a low or moderate level of energy such as gardening,	1-more than once a week

cleaning the car, or doing a walk? Interviewer: read out.

2-once a week  
3-one to three times a month  
4-hardly ever, or never

---

**Panel M4.3. Adult Alcohol Consumption**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
bro10_	I am now going to ask you a few questions about what you drink-that is if you drink. Please look at card 11. During the last six months, how often have you drunk any alcoholic beverages, like beer, cider, wine, spirits or cocktails?	1-almost every day 2-five or six days a week 3-three or four days a week 4-once or twice a week 5-once or twice a month 6-less than once a month 7-not at all in the last 6 months
bro11_	Please look at card 11. During the last six months, how often have you had more than two glasses or cans of beer or cider in a single day?	1-almost every day 2-five or six days a week 3-three or four days a week 4-once or twice a week 5-once or twice a month 6-less than once a month 7-not at all in the last 6 months
bro12_	Please look at card 11. During the last six months, how often have you had more than two glasses of wine in a single day?	1-almost every day 2-five or six days a week 3-three or four days a week 4-once or twice a week 5-once or twice a month 6-less than once a month 7-not at all in the last 6 months
bro13_	Please look at card 11. During the last six months, how often have you had more than two cocktails or drinks of hard liquor in a single day?	1-almost every day 2-five or six days a week 3-three or four days a week 4-once or twice a week 5-once or twice a month 6-less than once a month 7-not at all in the last 6 months

---

**Panel M4.4. Health Care Utilization**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
hco02_	Now we have some questions about your health care. Please think about your care during the last twelve	(number from 0-98) -1 don't know



	months. Since [January/February/March/April/May/June/July/August/ September/October/November/December] [last year], about how many times in total have you seen or talked to a medical doctor about your health? Please exclude dentist visits and hospital stays, but include emergency room or outpatient clinic visits. (IWER: If more than 98, enter 98.)	
hc003_	How many of these contacts were with a general practitioner or with a doctor at your health care center? (IWER: If more than 98, enter 98.)	(number from 0-98)
hc004_	Please look at card 12. During the last twelve months, have you consulted any of the specialists mentioned on card 12?	1-yes 5-no -1 don't know
hc010_	During the last twelve months, have you seen a dentist or dental hygienist? (IWER: Visits for routine controls, for dentures and stomatology consultations included.)	1-yes 5-no -1 don't know
hc012_	During the last twelve months, have you been in a hospital overnight? Please consider stays in medical, surgical, psychiatric or in any other specialized wards.	1-yes 5-no -1 don't know

## Table M5. Adult Health Outcomes

### Panel M5.1. Self-Reported Health

Variable	Wording of Question/Description	Scale (if applicable)
ph002_	Would you say your health is...	1-very good 2-good 3-fair 4-bad 5-very bad
ph003_	Would you say your health is...	1-excellent 2-very good 3-good 4-fair 5-poor
<b>srhealtha</b>	Self-reported health (imputed from the first data set using the United States scale).	1-excellent 2-very good 3-good 4-fair 5-poor

### Panel M5.2. Anthropometric and Performance Measures (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
ph012_	Approximately how much do you weigh?	IWER: Weight in kilos, UK: Stone dot pounds -2 refusal -1 don't know
gs006_	Now I would like to assess the strength of your hand in a gripping exercise. I will ask you to squeeze this handle as hard as you can, just for a couple of	(result, range: 0-100)

	seconds and then let go. I will take two alternate measurements from your right and your left hand.	
	Interviewer: position the respondent correctly. Adjust dynamometer to hand size by turning the lever and reset arrow at zero. Explain the procedure once again. Let respondent have a practice with one hand. Use scorecard to record the results and enter results into computer after test is finished.	
	First measurement, left hand.	
gs007_	Second measurement, left hand.	(result, range: 0-100)
gs008_	First measurement, right hand.	(result, range: 0-100)
		-2 refusal
gs009_	Second measurement, right hand.	(result, range: 0-100)
		-2 refusal
ws010_	Now we have a different kind of exercise that involves walking a short distance. IWER: Take interviewer booklet, set up the walking course and demonstrate the walk for the respondent. Result of first trial.	1-completed successfully 2-attempted but unable to complete 3-stopped by the interviewer because of safety reasons 4-not attempted, respondent felt it would be unsafe 5-participant unable to understand instructions 6-respondent refused
ws011_	Time of first walking speed test.	(time in seconds to two decimal places, range: 0.00-20.00)
ws012_	Result of second trial.	1-completed successfully 2-attempted but unable to complete 3-stopped by the interviewer because of safety reasons 4-not attempted, respondent felt it would be unsafe 5-participant unable to understand instructions 6-respondent refused
ws013_	Time of second walking speed test.	(time in seconds to two decimal places, range: 0.00-20.00)

<b>Panel M5.3. Self-Reported Health and Vignettes (see note A)</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
v1	Overall in the last 30 days, how much of bodily aches or pains did you have?	1-none 2-mild 3-moderate 4-severe 5-extreme

v2	In the last 30 days, how much difficulty did you have with sleeping such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme
v3	Overall in the last 30 days, how much of a problem did you have with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme
v4	Overall in the last 30 days how much difficulty did you have with concentrating or remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme
v5	In the last 30 days, how much of a problem did you have because of shortness of breath?	1-none 2-mild 3-moderate 4-severe 5-extreme
v6	Overall in the last 30 days, how much of a problem did you have with feeling sad, low, or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme
v7	Do you have any impairment or health problem that limits the kind or amount of work you can do?	1-none 2-mild 3-moderate 4-severe 5-extreme
v8, v10, v12, v26, v27, v28, v32, v33, v34	Pain vignettes.	
v9, v11, v13	Sleeping vignettes.	
v14, v16, v18	Mobility vignettes.	
v15, v17, v19	Cognition vignettes.	
v20, v22, v24	Respiratory vignettes.	
v21, v23, v25, v29, v30, v31	Depression vignettes.	

---

**Panel M5.4. Functionality (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>pho48d1</b>	Because of a health problem, do you have difficulty walking 100 meters?	1-yes 0-no -1 don't know
<b>pho48d2</b>	Because of a health problem, do you have difficulty sitting for about 2 hours?	1-yes 0-no
<b>pho48d3</b>	Because of a health problem, do you have difficulty getting up from a chair after sitting for long periods?	1-yes 0-no
<b>pho48d4</b>	Because of a health problem, do you have difficulty	1-yes

<b>pho48d5</b>	climbing several flights of stairs without resting? Because of a health problem, do you have difficulty climbing one flight of stairs without resting?	0-no 1-yes 0-no
<b>pho48d6</b>	Because of a health problem, do you have difficulty stooping, kneeling, or crouching?	1-yes 0-no
<b>pho48d7</b>	Because of a health problem, do you have difficulty reaching or extending your arms above shoulder level?	1-yes 0-no
<b>pho48d8</b>	Because of a health problem, do you have difficulty pulling or pushing large objects like a living room chair?	1-yes 0-no
<b>pho48d9</b>	Because of a health problem, do you have difficulty lifting or carrying weights over 10 pounds/5 kilos, like a heavy bag of groceries?	1-yes 0-no
<b>pho48d10</b>	Because of a health problem, do you have difficulty picking up a small coin from a table?	1-yes 0-no
<b>pho49d1</b>	Because of a health or memory problem, do you have difficulty dressing, including putting on shoes and socks?	1-yes 0-no
<b>pho49d2</b>	Because of a health or memory problem, do you have difficulty walking across a room?	1-yes 0-no
<b>pho49d3</b>	Because of a health or memory problem, do you have difficulty bathing or showering?	1-yes 0-no
<b>pho49d4</b>	Because of a health or memory problem, do you have difficulty eating, such as cutting up your food?	1-yes 0-no
<b>pho49d5</b>	Because of a health or memory problem, do you have difficulty getting in or out of bed?	1-yes 0-no
<b>pho49d6</b>	Because of a health or memory problem, do you have difficulty using the toilet, including getting up or down?	1-yes 0-no
<b>pho49d7</b>	Because of a health or memory problem, do you have difficulty using a map?	1-yes 0-no
<b>pho49d8</b>	Because of a health or memory problem, do you have difficulty preparing a hot meal?	1-yes 0-no
<b>pho49d9</b>	Because of a health or memory problem, do you have difficulty shopping for groceries?	1-yes 0-no
<b>pho49d10</b>	Because of a health or memory problem, do you have difficulty making telephone calls?	1-yes 0-no
<b>pho49d11</b>	Because of a health or memory problem, do you have difficulty taking medications?	1-yes 0-no
<b>pho49d12</b>	Because of a health or memory problem, do you have difficulty doing work around the house or garden?	1-yes 0-no
<b>pho49d13</b>	Because of a health or memory problem, do you have difficulty managing money, such as paying bills and keeping track of expenses?	1-yes 0-no

---

**Panel M5.5. Chronic Conditions (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
pho04_	Some people suffer from chronic or long-term health problems. By long-term we mean it has troubled you over a period of time or is likely to	1-yes 5-no -1 missing or not

	affect you over a period of time. Do you have any long-term health problems, illness, disability or infirmity? (Interviewer: Including mental health problems.)	applicable -2 refused
ph005_	For the past six months at least, to what extent have you been limited because of a health problem in activities people usually do? (Interviewer: Read out.)	1-severely limited 2-limited, but not severely 3-not limited
<b>ph006d01</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. A heart attack including myocardial infarction or coronary thrombosis or any other heart problem including congestive heart failure.	1-yes 0-no -1 don't know -2 refusal
<b>ph006d02</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. High blood pressure or hypertension.	1-yes 0-no -1 don't know -2 refusal
ph006d03	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. High blood cholesterol.	1-yes 0-no -1 don't know -2 refusal
<b>ph006d04</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. A stroke or cerebral vascular disease.	1-yes 0-no -1 don't know -2 refusal
<b>ph006d05</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. Diabetes or high blood sugar.	1-yes 0-no -1 don't know -2 refusal
<b>ph006d06</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. Chronic lung disease such as chronic bronchitis or emphysema.	1-yes 0-no -1 don't know -2 refusal
ph006d07	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. Asthma.	1-yes 0-no -1 don't know -2 refusal
<b>ph006d08</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. Arthritis, including osteoarthritis, or rheumatism.	1-yes 0-no -1 don't know -2 refusal
ph006d09	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. Osteoporosis.	1-yes 0-no -1 don't know -2 refusal
<b>ph006d10</b>	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions. Cancer or malignant tumour, including leukaemia	1-yes 0-no -1 don't know -2 refusal

	or lymphoma, but excluding minor skin cancers.	
ph006d11	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	1=yes 0=no -1 don't know -2 refusal
	Stomach or duodenal ulcer, peptic ulcer.	
ph006d12	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	1=yes 0=no -1 don't know -2 refusal
	Parkinson disease.	
ph006d13	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	1=yes 0=no -1 don't know -2 refusal
	Cataracts.	
ph006d14	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	1=yes 0=no -1 don't know -2 refusal
	Hip fracture or femoral fracture.	
ph006dno	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	1=yes 0=no -1 don't know -2 refusal
	None.	
ph006dot	Please look at card 6. Has a doctor ever told you that you had any of the conditions on this card? Please tell me the number or numbers of the conditions.	1=yes 0=no -1 don't know -2 refusal
	Other conditions, not yet mentioned.	
ph009_1	About how old were you when you were first told by a doctor that you had a heart attack or any other heart problem?	(range: 0-125) -1 don't know -2 refusal
ph009_10	About how old were you when you were first told by a doctor that you had cancer?	(range: 0-125)
ph009_11	About how old were you when you were first told by a doctor that you had stomach or duodenal ulcer?	(range: 0-125) -1 don't know -2 refusal
ph009_12	About how old were you when you were first told by a doctor that you had Parkinson disease?	(range: 0-125) -1 don't know -2 refusal
ph009_13	About how old were you when you were first told by a doctor that you had cataracts?	(range: 0-125)
ph009_14	About how old were you when you were first told by a doctor that you had hip fracture or femoral fracture?	(range: 0-125)
ph009_2	About how old were you when you were first told by a doctor that you had high blood pressure?	(range: 0-125) -1 don't know -2 refusal
ph009_3	About how old were you when you were first told by a doctor that you had high blood cholesterol?	(range: 0-125) -1 don't know -2 refusal
ph009_4	About how old were you when you were first told by a doctor that you had a stroke or cerebral vascular disease?	(range: 0-125) -1 don't know -2 refusal
ph009_5	About how old were you when you were first told by	(range: 0-125)

	a doctor that you had diabetes?	-1 don't know -2 refusal
ph009_6	About how old were you when you were first told by a doctor that you had chronic lung disease?	(range: 0-125) -1 don't know -2 refusal
ph009_7	About how old were you when you were first told by a doctor that you had asthma?	(range: 0-125) -1 don't know -2 refusal
ph009_8	About how old were you when you were first told by a doctor that you had arthritis or rheumatism?	(range: 0-125) -1 don't know -2 refusal
ph009_9	About how old were you when you were first told by a doctor that you had osteoporosis?	(range: 0-125) -1 don't know -2 refusal

---

### Panel M5.6. Adult Mortality

Variable	Wording of Question/Description	Scale (if applicable)
<b>deadoralive</b>	Whether the respondent is dead or alive.	0-unknown 1-alive 2-dead
<b>xt008_</b>	Month of death.	(month)
<b>xt009_</b>	Year of death.	(year)
<b>xt010_</b>	Age at the moment of death.	(age)
<b>xt011_</b>	Main cause of death.	1-cancer 2-heart attack 3-stroke 4-other cardiovascular related illness 5-respiratory disease 6-disease of the digestive system 7-severe infectious disease 8-accident 9-other, specify -1-don't know

---

*Source:* Documentation from the following source was used to compile the tables above. Mannheim Research Institute for Economics of Ageing (MEA). Survey of Health, Ageing and Retirement in Europe (SHARE). Research Data Center [distributor], accessed 2011-05-12. <http://www.share-project.org/>, <http://www.share-project.org/data-access-documentation.html>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below. *Note A, Table M1.* In terms of current residence, the Netherlands has the variable *H0037* but response to this question was very low and it was not used to identify current residence.

There are household and individual weights available in the Netherlands data. There are also weights for the main sample, vignette sample, and those two samples jointly. The variable *wgtmic* (renamed *wimic*) is for the main sample only; variable *wgtvci* (renamed *wivci*) is for the vignette sample only; variable *wgtaci* (renamed *wiaci*) is for the two samples jointly. The

vignettes were randomly selected from the main sample and so *wgtaci* (renamed *w1aci*) was used as the sampling weight in the cross national data set to include both samples.

The variables *w1mci\_f*, *w1vci\_f*, and *w1aci\_f* act as indicators of cases for which there are no weights. The variable *nowh\_amh* indicates for which cases there were no weights due to the respondent's missing birth year data; *nowh\_or* indicates that there is an "other" reason for there being no weights; *nowi\_amr* indicates for which cases there were no weights due to the respondent's missing age data; and *nowi\_ne* indicates for which cases there were no weights to the respondent being non-eligible (i.e., born after 1954). See the Netherlands-SHARE user guide for a more detailed explanation.

*Note A, Panel M2.3.* Household income PPP-adjusted (*hincome\_p*) was created using *hgtincv/pppx2004*. There is consumption data in section CO of the questionnaire.

The variables *dn012\_*, *hgtincv*, *hgtincvi*, and *pppx2004* are available in the questionnaire but not in the Netherlands-SHARE data file. Variables *hgtincv*, *hgtincvi*, and *pppx2004* do not appear in the data file because there were multiple values per household and so averages were calculated across imputed income data to arrive at the final constructed variable for household income.

*Note A, Table M3.* Wave 3 of The Survey of Health, Ageing and Retirement in Europe, the retrospective survey (SHARE-LIFE), includes an extensive life history starting from early childhood. There is a childhood section, a childhood health care section which includes information on vaccinations and self-rated childhood health, and a section on childhood accommodation. All variables beginning with *sl\_\** reflect early childhood conditions.

*Note A, Panel M3.2.* There are extensive variables available in the questionnaire on childhood health and nutrition.

*Note A, Panel M4.1.* There are additional questions about smoking, including the years smoked, average amount, what the respondent smoked, and when the respondent quit.

*Note A, Panel M5.2.* There are cognitive questions included in Section CF of the questionnaire, and questions regarding depression in section MH of the questionnaire.

*Note A, Panel M5.3.* There are also vignettes for wave 2. Those variables range from *v1-v32* and are slightly different from wave 1 but are not included here in the database.

*Note A, Panel M5.4.* In some cases, the variables obtained from the questionnaire do not exactly match those in the Stata dta file. For example, variable *ph048d01* found in the questionnaire appears as *ph048d1* in the Stata dta file; variable *ph049d01* found in the questionnaire appears as *ph049d1* in the Stata dta file.

*Note A, Panel M5.5.* In some cases, the variables obtained from the questionnaire do not exactly match those in the Stata dta file. For example, variable *ph006d01* found in the questionnaire appears as *ph006d1* in the Stata dta file.



## Appendix N: Puerto Rico-PREHCO original variables

The tables below describe the original variables from the Puerto Rico-PREHCO survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Puerto Rico data that should be taken into account when examining the data.

**Table N1. Respondent**

Variable	Wording of Question/Description	Scale (if applicable)
<b>caseid</b>	ID for respondents.	
<b>fac_t</b>	Consideration Factor for data Principle Interview (calculated variable). Completion date of interview	
<b>fecha</b> proxy_PR	Type of proxy used for principal interview	Mm/dd/year 0-no proxy 2-minmental 3-interviewer
Proxy	Type of proxy.	0-there is no proxy 1-by principle interviewee 2-by spouse 3-by another person
tipo_e	Interview target type (calculated)	1-regular target 2-proxy target 3-target institutionalized 4-target deceased
wtype_II <b>qjefe</b>	Type of interview. Calculated from variable C3: Of all the people that you have named, who is the head of the household?	1-target Indicate the register number of the head of household.
pare_r61	What is the relationship of [NAME of sibling in position 1] to you? Read each until you obtain an affirmative response.	13-full-sibling—same mother and father 14-half-sibling—same father 15-half-sibling—same mother 16-step-sibling 17-non-blood related sibling -1-does not know -2-does not answer
pare_r62	What is the relationship of [NAME of sibling in position 2] to you? Read each until you obtain an affirmative response.	13-full-sibling—same mother and father 14-half-sibling—same father

pare_r63	What is the relationship of [NAME of sibling in position 3] to you? Read each until you obtain an affirmative response.	15-half-sibling—same mother 16-step-sibling 17-non-blood related sibling -1-does not know -2-does not answer 13-full-sibling—same mother and father 14-half-sibling—same father 15-half-sibling—same mother 16-step-sibling 17-non-blood related sibling -1-does not know -2-does not answer
----------	---	---

---

**Table N2. Demographics (see note A)**

**Panel N2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>sexo</b>	Sex of respondent.	1-male 2-female
<b>a1</b>	How old are you?	(years of age) -1-does not know -2-does not answer
<b>mari_r1</b>	Calculated from variable C11: What is the marital status of [NAME]?	1-Is he/she married? 2-Does he/she cohabituate without being married? 3-Is he/she widowed? 4-Is he/she divorced? 5-Is he/she separated? 6-Has he/she never been married? -1-does not know -2-does not answer

---

**Panel N2.2. Ethnicity, Race and Language**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>r2</b>	If you had to classify and describe yourself using one of the following categories, which would you choose?	1-black 2-mulatto/a, mixed or wheat-colored (black or white) 3-white 4-mestizo/a (Indian or white) 5-other -1-does not know -2-does not answer

---

**Panel N2.3. Education, Income and Wealth (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>c10r1</b>	What was the last grade in school completed by [NAME]? If C7>3, if older than 3 years of age.	00-did not go to school or has not completed any grade (grade completed 01-12) 13-other grade that requires advanced schooling (nurse practitioner, technical or vocational degree, 2 year secretarial) 14-bachelor's degree not obtained (did not graduate from college) 15-bachelor's degree obtained (college graduate) 16-graduate school 17-other -1-does not know -2-does not answer
<b>c8r1</b>	Does [NAME] know how to read? (If C7>3, if older than 3 years of age.)	1-knows how to read 2-does not know how to read -1-does not know -2-does not answer
<b>c9r1</b>	Does [NAME] know how to write? (If C7>3, if older than 3 years of age.)	1-knows how to write 2-does not know how to write -1-does not know -2-does not answer
<b>income</b>	Calculated from yn5* variables listed in the note.	
<b>n51a_2</b>	How much do you receive per source? Job.	
<b>n51a_3</b>	How often do you receive this income? Job.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51b_2</b>	How much do you receive per source? Social security.	
<b>n51b_3</b>	How often do you receive this income? Social security.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51c_2</b>	How much do you receive per source? Retirement or pension.	
<b>n51c_3</b>	How often do you receive this income? Retirement or pension.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer

<b>n51g_2</b>	How much do you receive per source? Help from family members in the USA.	
<b>n51g_3</b>	How often do you receive this income? Help from family members in the USA.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51h_2</b>	How much do you receive per source? Help from family members in Puerto Rico.	
<b>n51h_3</b>	How often do you receive this income? Help from family members in Puerto Rico.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51i_2</b>	How much do you receive per source? Rental of properties or rooms.	
<b>n51i_3</b>	How often do you receive this income? Rental of properties or rooms.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51j_2</b>	How much do you receive per source? Social welfare subsidy.	
<b>n51j_3</b>	How often do you receive this income? Social welfare subsidy.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51k_2</b>	How much do you receive per source? Nutritional assistance program.	
<b>n51k_3</b>	How often do you receive this income? Nutritional assistance program.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>n51l_2</b>	How much do you receive per source? Some other type of income source not mentioned.	
<b>n51l_3</b>	How often do you receive this income? Some other type of income source not mentioned.	1-weekly 2-biweekly 3-monthly 4-less than one month -1-does not know -2-does not answer
<b>p13</b>	The water in this house comes from...? Read each option until you get an affirmative response.	1-adeduct 2-reservoir 3-rural aqueduct

<b>p19</b>	What type of combustible is used to cook in this house? Allow the interviewee to answer spontaneously and if he/she doesn't know, read each option until you obtain an affirmative answer.	4-packaged water 5-other -1-does not know -2-does not answer 1-pipeline gas 2-liquid gas 3-electricity 4-carbon or wood 5-other -1-does not know -2-does not answer
<b>p20</b>	Does this house have a toilet inside the house, outside the house or does it not have a toilet?	1-yes, inside the house 2-yes, outside the house 3-does not have a toilet -1-does not know -2-does not answer
<b>p21b</b>	Does this house have a washing machine?	1-yes 2-no -1-does not know -2-does not answer
<b>p21c</b>	Does this house have a dryer?	1-yes 2-no -1-does not know -2-does not answer
<b>p21d</b>	Does this house have a water heater?	1-yes 2-no -1-does not know -2-does not answer
<b>p21g</b>	Does this house have a telephone?	1-yes 2-no -1-does not know -2-does not answer
<b>p21j</b>	Does this house have an air conditioning unit (at least one)?	1-yes 2-no -1-does not know -2-does not answer

---

**Panel N2.4. Family and Household**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>l20a</b>	How many siblings did you have in total?	(total siblings) -1-does not know -2-does not answer
l20a2	How many of them are alive?	(if l20a=0, -1 or -2, go to l21) (number of siblings alive) -1-does not know -2-does not answer
mari_r61	Civil status	(if l20a2=0, -1 or -2, go to l21) 1-is married with papers 2-cohabitates without having married 3-is widowed 4-is divorced

		5-is separated 6-has never been married -1- does not know -2- does not answer 1-is married with papers 2-cohabitates without having married 3-is widowed 4-is divorced 5-is separated 6-has never been married -1- does not know -2- does not answer
mari_r62	Civil status (n2)	
mari_r63	Civil status (n3)	1-is married with papers 2-cohabitates without having married 3-is widowed 4-is divorced 5-is separated 6-has never been married -1- does not know -2- does not answer
dd61	The position in which the sibling is duplicated in another roster.	0- not duplicated 2-duplicated in record 2 3-duplicated in record 3 4-duplicated in record 4 5- duplicated in record 5 7-duplicated in record 7
dd62	The position in which the second sibling is duplicated in another roster.	0- not duplicated 2-duplicated in record 2 3-duplicated in record 3 4-duplicated in record 4 5- duplicated in record 5 7-duplicated in record 7
pos62	Position 2 in siblings roster.	(position)
pos63	Position 3 in siblings roster.	(position)
sexo_r61	Is [NAME of sibling in position 1] a man or a woman? Interviewer: Ask only if you are unsure of the gender.	1-man 2-woman
sexo_r62	Is [NAME of sibling in position 2] a man or a woman? Interviewer: Ask only if you are unsure of the gender.	1-man 2-woman
sexo_r63	Is [NAME of sibling in position 3] a man or a woman? Interviewer: Ask only if you are unsure of the gender.	1-man 2-woman
edad_r61	How old is [NAME of sibling in position 1]?	(age in years) 000-less than one year old -1-does not know -2-does not answer
edad_r62	How old is [NAME of sibling in position 2]?	(age in years) 000-less than one year old

edad_r63	How old is [NAME of sibling in position 3]?	-1-does not know -2-does not answer (age in years) 000-less than one year old
dond_r61	Where does [NAME of sibling in position 1] live? Let the interviewee answer spontaneously and if you don't have specific enough information, read the options that apply.	-1-does not know -2-does not answer 1-here in this house 2-in another house but in this neighborhood 3-in another neighborhood but in this same town 4-in another town in Puerto Rico 5-in the United States 6-in another country
dond_r62	Where does [NAME of sibling in position 1] live? Let the interviewee answer spontaneously and if you don't have specific enough information, read the options that apply.	-1-does not know -2-does not answer 1-here in this house 2-in another house but in this neighborhood 3-in another neighborhood but in this same town 4-in another town in Puerto Rico 5-in the United States 6-in another country
dond_r63	Where does [NAME of sibling in position 1] live? Let the interviewee answer spontaneously and if you don't have specific enough information, read the options that apply.	-1-does not know -2-does not answer 1-here in this house 2-in another house but in this neighborhood 3-in another neighborhood but in this same town 4-in another town in Puerto Rico 5-in the United States 6-in another country
<b>d11</b>	How many live births did you have? Do not include stepchildren, adopted children, abortions, or stillbirths.	-1-does not know -2-does not answer number of children
d12	How many of these children are still alive?	-1-does not know -2-does not answer number of children alive
d13	How many stepchildren do you have who are still alive?	-1-does not know -2-does not answer number of stepchildren
d14	How many [of] your adopted children and children you raised (who were not your biological or adopted children) are still alive?	-1-does not know -2-does not answer number of adopted or raised children

<b>c1num</b>	So that there is/are [number] of individual(s) who form(s) a part of this household?	-2-does not answer (number of individuals in the household)
--------------	--	--

## Table N3. Early Life Conditions

### Panel N3.1. Birthplace

Variable	Wording of Question/Description	Scale (if applicable)
<b>a2_a</b>	In which month and year were you born?	(year) -1-does not know -2-does not answer
<b>a2_m</b>	In which month and year were you born?	(month) -1-does not know -2-does not answer
<b>a3</b>	In which country were you born?	1-in Puerto Rico in this municipality 2-another municipality in Puerto Rico 3-in the United States 4-in the Dominican Republic 5-in another country
<b>a3e_2</b>	In which country were you born? State in the US.	3- state in the United States -1-does not know -2-does not answer
<b>a3m_2</b>	In which country were you born? Another municipality in Puerto Rico	(name of municipality)
<b>a3m_2_update</b>	Constructed variable within PREHCO, refers to birth municipality.	(name of municipality)
<b>o1e_2</b>	Where did you live during most of your life before turning 18 years old? If he/she answers in Puerto Rico, inquire as to which municipality. If the interviewee indicates the United States, inquire as to which state. If the interviewee indicates another country, inquire as to which country. Use census codes for the municipality and the state.	(name of state in the United States)
<b>o1m_2</b>	Where did you live during most of your life before turning 18 years old? If he/she answers in Puerto Rico, inquire as to which municipality. If the interviewee indicates the United States, inquire as to which state. If the interviewee indicates another country, inquire as to which country. Use census codes for the municipality and the state.	(name of other municipality in Puerto Rico)
<b>o1</b>	Where did you live during most of your life before turning 18 years old?	1-in Puerto Rico in this municipality 2-in another municipality in Puerto Rico 3-in the United States 4-in the Dominican Republic 5-in another country -1-does not know -2-does not answer



o2	Would you say that before turning 18 years old you lived mostly in the countryside, in the city, in the suburbs or in another place?	1-in the countryside 2-in the city 3-in the suburbs 4-another place -1-does not know -2-does not answer
o10a	How many times did you live in the United States for three months or more after turning 18?	number of times -1-does not know -2-does not answer
o10b	How many years in total did you live in the United States?	number of years -1-does not know -2-does not answer
o3	Did you move to another city, to the United States or to some other country after turning 18 years old?	1-yes 2-no -1-does not know -2-does not answer
o4	How many times did you move from one city to another, to the United States or to another country after turning 18 years old?	(number of times) -1-does not know -2-does not answer
o6	Where did you live before moving to the town where you currently live?	1--in Puerto Rico in this municipality 2-in another municipality in Puerto Rico 3-in the United States 4-in the Dominican Republic 5-in another country -1-does not know -2-does not answer
o8	Where did you go live the first time you moved after turning 18?	1-in Puerto Rico in this municipality 2-in another municipality in Puerto Rico 3-in the United States 4-in the Dominican Republic 5-in another country -1-does not know -2-does not answer
o11	Do you currently spend three or more months per year outside of the United States, that is do you come and go for spells of time? For how many years did you live in [place named in o8]	
o9		1-Yes 2-No -1-Does not know -2-Does not answer
(years)		

---

### Panel N3.1. Childhood Health

---

Variable	Wording of Question/Description	Scale (if applicable)
h14	How would you describe your health as a child or	1-excellent

	adolescent? Would you say your health as a child or adolescent was excellent, very good, good, average, or bad?	2-very good 3-good 4-average 5-bad -1-does not know -2-does not answer
h15	When you were a child or adolescent, how many times were you unable to go to school for one month or more because you were ill? Would you say never, once, occasionally or many times?	1-never 2-once 3-occasionally 4-many times -1-does not know -2-does not answer
h16	When you were a child or adolescent, did you stop doing something that children your age commonly do because of health problems? Would you say this happened frequently, occasionally, or never?	1-frequently 2-occasionally 3-never -1-does not know -2-does not answer
h17a	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Typhus fever	1-yes 2-no -1-does not know -2-does not answer
h17b	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Hepatitis	1-yes 2-no -1-does not know -2-does not answer
h17c	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Tuberculosis	1-yes 2-no -1-does not know -2-does not answer
h17d	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Rheumatic fever	1-yes 2-no -1-does not know -2-does not answer
h17e	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Polio	1-yes 2-no -1-does not know -2-does not answer
h17f	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Malaria	1-yes 2-no -1-does not know -2-does not answer
h17g	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Dengue	1-yes 2-no -1-does not know -2-does not answer
h17h	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Measles	1-yes 2-no -1-does not know -2-does not answer
h17i	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you	1-yes 2-no

	were a child or adolescent? Chicken pox	-1-does not know -2-does not answer
h17j	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Mumps	1-yes 2-no -1-does not know -2-does not answer
h17k	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Small pox	1-yes 2-no -1-does not know -2-does not answer
h17l	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Pneumonia	1-yes 2-no -1-does not know -2-does not answer
h17m	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Asthma	1-yes 2-no -1-does not know -2-does not answer
h17n	I'm going to name some illnesses. Could you tell me if you remember suffering from any of these when you were a child or adolescent? Chronic bronchitis	1-yes 2-no -1-does not know -2-does not answer

---

### Panel N3.3. Childhood Nutrition

---

Variable	Wording of Question/Description	Scale (if applicable)
g171a_1	Could you tell me approximately how tall you are?	(measurement in feet)
g171a_2	Could you tell me approximately how tall you are?	(measurement in inches)
u1_p	Height in inches.	(inches)
u2_p	Circumference of waist in inches.	(inches)
u3_p	Circumference of hip in inches.	(inches)
u5_p	Height of knee in inches.	(inches)
wu6ch	Chair height.	(inches)
wu6e_1	Height from the head to the height of the chair.	(inches) -15-does not apply to the institutionalized target -14-does not apply to the deceased target
wu6e_2	Height from the head to the floor.	(inches) -15-does not apply to the institutionalized target -14-does not apply to the deceased target -3-undetermined, data unavailable
wu6l1	Computed length of the leg.	(inches)
wu6l2	Computed length of the leg.	(inches)

---

### Panel N3.4. Childhood SES

---

Variable	Wording of Question/Description	Scale (if applicable)
h1	In general, would you say that the economic conditions in the household in which you grew up were good, average or bad?	1-good 2-average 3-bad -1-does not know

h2	Did you suffer economic hardship that prevented you from eating regularly, adequately clothing yourself or receiving the necessary medical attention?	-2-does not answer 1-yes 2-no -1-does not know
h2a	Did your father know how to read? Interviewer: If necessary, clarify that you mean the father that raised him/her.	-2-does not answer 1-yes 2-no -1-does not know
h2b	Did your father know how to write?	-2-does not answer 1-yes 2-no -1-does not know
h3a	What level of education did your father complete?	-2-does not answer 0-he did not go to school 1-he went to school but he did not complete eighth grade 2-he went to school and he completed eighth grade or higher -1-does not know
code_h4	Father's occupation.	-2-does not answer (codified variable, write the occupation as indicated by the interviewee. For information on the codes, please refer to the PREHCO website: <a href="http://prehco.rcm.upr.edu">prehco.rcm.upr.edu</a> .)
rcode_h4	What type of occupation would you say was the primary occupation of your father?	(write the occupation as indicated by the interviewee) 1-management occupations 2-professional and related occupations 3-services and sales occupations 4-offices and administrative support occupations 5-farming, fishing, and forestry occupations 6-construction, extraction and maintenances occupations 7-production, transportation and material moving occupations 0-not applicable 99-missing
h6	Do you remember by chance if your father was unemployed for long periods of time? Would you say this occurred frequently, occasionally, never or when it was no longer harvest season? Interviewer: If necessary, clarify that long periods of time means a	1-yes 2-no -1-does not know -2-does not answer

	period of one month or more.	1-frequently 2-occasionally 3-never 4-when it was no longer harvest season -1-does not know -2-does not answer
h6_1	Do you remember by chance if your father was unemployed for long periods of time?	1-yes 2-no -1-does not know -2-does not answer
h6_2	Would you say this occurred frequently, occasionally, never or when it was no longer harvest season?	1-frequently 2-occasionally 3-never 4-when it was no longer harvest season -1-does not know -2-does not answer
h6a	Did your mother know how to read? Interviewer: If necessary, clarify that you mean the mother that raised him/her.	1-yes 2-no -1-does not know -2-does not answer
h6b	Did your mother know how to write?	1-yes 2-no -1-does not know -2-does not answer
h6c	What level of education did your mother complete?	0-she did not go to school 1-she went to school but she did not complete eighth grade 2-she went to school and she completed eighth grade or higher -1-does not know -2-does not answer
<b>h6d</b>	What type of occupation would you say was the primary occupation of your mother?	000-homemaker 1-other
<b>code_h6d</b>	What type of occupation would you say was the occupation of your mother (if answered 1-other to h6d, please specify)?	(codified variable, write the occupation as indicated by the interviewee) (specify)
h7_1	Do you remember by chance if your mother was unemployed for long periods of time?	1-yes 2-no -1-does not know -2-does not answer
h7_2	Would you say this occurred frequently, occasionally, never or when it was no longer harvest season?	1-frequently 2-occasionally 3-never 4-when it was no longer harvest season -1-does not know -2-does not answer

h8	When you were a child or adolescent, were there periods of time in which you and your siblings had to leave school and work in order to help your parents?	1-yes 2-no -1-does not know -2-does not answer
h8a	Did your parents get divorced before you turned 15 years old?	1-yes 2-no 3-my parents never lived together -1-does not know -2-does not answer
d15	Is your biological or blood-related father alive?	1-yes 2-no -1-does not know -2-does not answer
d17	How old was your biological or blood-related father when he died?	(age) -1-does not know -2-does not answer
d18	Is your biological or blood-related mother alive?	1-yes 2-no -1-does not answer -2-does not answer
d20	How old was your biological or blood-related mother when she died?	(age) -1-does not know -2-does not answer

---

## Table N4. Adult Lifestyle

### Panel N4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>g161</b>	Have you smoked one hundred cigarettes or more in your life?	1-yes 2-no -1-does not know -2-does not answer
<b>g162</b>	Do you currently smoke?	1-yes 2-no -1-does not know -2-does not answer

### Panel N4.2. Adult Exercise

Variable	Wording of Question/Description	Scale (if applicable)
<b>g167</b>	In the last year, have you engaged in any of the following activities: sports, jogging, walking, dancing or heavy labor, three or more times a week?	1-yes 2-no -1-does not know -2-does not answer

### Panel N4.3. Adult Alcohol Consumption (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>g155</b>	In the last 3 months, on average, how many days a week have you consumed alcoholic beverages (like for example beer, wine, rum or another drink that has alcohol)?	1-he/she did not consume any 2-less than one day a week 3-one day a week 4-two or three days a week 5-four to six days a week

---

6-every day  
 -1-does not know  
 -2-does not answer

**Panel N4.4. Adult Diet**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
g154	How many complete meals do you make a day, including breakfast?	(number of meals) -1-does not know -2-does not answer

**Panel N4.5. Health Care Utilization**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
k25	How many times have you gone to the doctor's office in the last twelve months?	(number of times) -1-does not know -2-does not answer
k30	How many times have you visited the office of one of these professionals in the last twelve months? These include therapists, dieticians, nutritionists, podiatrists, optometrists, audiologists, and chiropractors.	(number) -1-does not know -2-does not answer

**Table N5. Adult Health Outcomes (see note A)**

**Panel N5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
g1	Would you say that you're currently in excellent health, very good health, good health, average health, or bad health?	1-excellent 2-very good 3-good 4-average 5-bad -1-does not know -2-does not answer
g2	Compared to your health last year, would you say that your current health is better, the same or worse?	1-better 2-same 3-worse -1-does not know -2-does not answer
g3	Compared to other people your age, would you say that your health is better, the same or worse?	1-better 2-same 3-worse -1-does not know -2-does not answer

**Panel N5.2. Anthropometric and Performance Measures (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
g171b	Could you tell me approximately how much you weigh?	(weight in pounds)
u4_1	Weight in pounds.	(pounds)
u6*	Look at me first. Then choose the foot you will stand on to keep your balance and very gently raise the other leg from the floor. Try to keep this position for 10 seconds. u6_1- Were you able to take this measurement? u6_p- Which leg did the interviewee stand on?	

	<i>u6_s- Duration of time in seconds</i>	1-yes
	<i>u6_3- Reason you were unable to take measurement</i>	2-no
		1-right
		2-left
		(seconds)
		1-I tried but was unable to take measurement
		2-Unable to take measurement ; interviewer did not feel safe
		3-Unable to take measurement; interviewee did not feel safe
		4-Interviewee refused
		5-Unable to take measurement because interviewee is bedridden or in wheelchair
		6-Unable to take measurement because interviewee uses a walker, cane, or other such item
		9- Unable to take measurement for some other reason
u7*	Now we will do the final test of this section of the interview. This test is known as the “stand up and walk” and consists of your standing up from a chair without using your arms to support yourself and walking to the area I point out to you. Now I will show you how to do it.	1-yes
	<i>u7_1- Were you able to take this measurement?</i>	2-no
	<i>u7_p- Which leg did the interviewee stand on?</i>	1-right
	<i>u7_s- Duration of time in seconds</i>	2-left
	<i>u7_3- Reason you were unable to take measurement</i>	(seconds)
Wu6a	Leg length measure	1-I tried but was unable to take measurement
		2-Unable to take measurement ; interviewer did not feel safe
		3-Unable to take measurement; interviewee did not feel safe
		4-Interviewee refused
		5-Unable to take measurement because interviewee is bedridden or in wheelchair
		6-Unable to take measurement because interviewee uses a walker, cane, or other such item
		9- Unable to take measurement for some other reason



		1-see instructions for how to measure leg length 2-measure leg length
Wu6c	Measurement taken	1-yes 2-no -14-does not apply to the deceased target -15-does not apply to the institutionalized target
Wu6d	Reason for not performing	1 -decided it was not safe for the respondent 2-respondent did not feel safe 3-respondent refused 4-other reason (specify) -15-does not apply to the institutionalized target -14 -does not apply to the deceased target

---

**Panel N5.3. Self-Reported Health and Vignettes**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
WG3a	In general during the last 30 days, how much energy (ánimo) would you say you have had?	1-very much 2-a lot 3-some 4-a little 5-none -15-does not apply to institutionalized target -14-does not apply to deceased target -5 does not apply to proxy-target
WG3a1	In general during the last 30 days, how much energy (energía) would you say you have had?	1-very much 2-a lot 3-some 4-a little 5-none -15-does not apply to institutionalized target -14-does not apply to deceased target -5 does not apply to proxy-target
WG3a2	In general during the last 30 days, how much pain (dolor) have you felt in your body?	1-very much 2-a lot 3-some 4-a little 5-none -15-does not apply to institutionalized target -14-does not apply to deceased target

		target
		-5 does not apply to proxy-
		target
WG3a3	In general during the last 30 days, how much discomfort (malestar) have you felt in your body?	1-very much
		2-a lot
		3-some
		4-a little
		5-none
		-15-does not apply to institutionalized target
		-14-does not apply to deceased target
		-5 does not apply to proxy-
		target
WG3b1	In general during the last 30 days, how much trouble did you have moving from one place to another (moverse de un lugar a otro)?	1-very much
		2-a lot
		3-some
		4-a little
		5-none
		-15-does not apply to institutionalized target
		-14-does not apply to deceased target
		-5 does not apply to proxy-
		target
WG3b2	In general during the last 30 days, how much trouble did you have doing vigorous activities such as cutting the grass or washing windows (realizar actividades intensas como cortar la grama o lavar las ventanas)?	1-very much
		2-a lot
		3-some
		4-a little
		5-none
		-15-does not apply to institutionalized target
		-14-does not apply to deceased target
		-5 does not apply to proxy-
		target
WG3b3	In general during the last 30 days, how much trouble did you have concentrating or remembering things (concentrarse o recordar cosas)?	1-very much
		2-a lot
		3-some
		4-a little
		5-none
		-15-does not apply to institutionalized target
		-14-does not apply to deceased target
		-5 does not apply to proxy-
		target
WG3b4	In general during the last 30 days, how much trouble did you have learning a new thing (aprender una nueva tarea)?	1-very much
		2-a lot
		3-some
		4-a little

		5-none -15-does not apply to institutionalized target -14-does not apply to deceased target -5 does not apply to proxy-target
WG3b5	In general during the last 30 days, how much trouble did you have you felt sad or depressed (sintió triste, decaído o deprimido)?	1-very much 2-a lot 3-some 4-a little 5-none -15-does not apply to institutionalized target -14-does not apply to deceased target -5 does not apply to proxy-target
WG3b6wg 3c2a	In general during the last 30 days, how much trouble did you have you felt worried or anxious (preocupación o ansiedad)?	1-very much 2-a lot 3-some 4-a little 5-none -15-does not apply to institutionalized target -14-does not apply to deceased target -5 does not apply to proxy-target
wg3c2b, wg3c3a, wg3c3b	Body aches	-15 -Does not apply to the institutionalized target -14-Does not apply to the deceased target -5-Does not apply to proxy-target 1-very much 2-a lot 3-some 4-a little 5-none
wg3d1a, wg3d2a, wg3d3a	Encouragement	-15 -Does not apply to the institutionalized target -14-Does not apply to the deceased target -5-Does not apply to proxy-target 1-very much 2-a lot 3-some 4-a little 5-none

wg3d1b, wg3d2b, wg3d3b	Energy	-15 -Does not apply to the institutionalized target -14-Does not apply to the deceased target -5-Does not apply to proxy-target 1-very much 2-a lot 3-some 4-a little 5-none
wg3e1a, wg3e2a, wg3e3a	Difficulty concentrating	-15 -Does not apply to the institutionalized target -14-Does not apply to the deceased target -5-Does not apply to proxy-target 1-very much 2-a lot 3-some 4-a little 5-none
wg3f1a, wg3f2a, wg3f3a	Feel sad or depressed	-15 -Does not apply to the institutionalized target -14-Does not apply to the deceased target -5-Does not apply to proxy-target 1-very much 2-a lot 3-some 4-a little 5-none
wg3f1b, wg3f2b, wg3f3b	Feel worry or anxiety	-15 -Does not apply to the institutionalized target -14-Does not apply to the deceased target -5-Does not apply to proxy-target 1-very much 2-a lot 3-some 4-a little 5-none

---

**Panel N5.4. Functionality (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>i1</b>	Have you had difficulty using the telephone due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know

---

		-2-does not answer
<b>i1a</b>	Who is the person that most helps you?	(specify) -1- does not know
<b>i1b</b>	How many times in the last month has (NAME) helped you?	-2- does not answer 1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know
<b>i2</b>	Have you had difficulty getting anywhere you had to go using transportation due to a health problem?	-2- does not answer 1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know
<b>i2a</b>	Who is the person that most helps you?	-2-does not answer (specify) -1- does not know
<b>i2b</b>	How many times in the last month has (NAME) helped you?	-2 does not answer 1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know
<b>i3</b>	Have you had difficulty buying food or clothes due to a health problem?	-2- does not answer 1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know
<b>i3a</b>	Who is the person that most helps you?	-2-does not answer (specify) -1- does not know
<b>i3b</b>	How many times in the last month has (NAME) helped you?	-2 does not answer 1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know
<b>i4</b>	Have you had difficulty preparing food for yourself due to a health problem?	-2- does not answer 1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know
<b>i4a</b>	Who is the person that most helps you?	-2-does not answer (specify)

<b>i4b</b>	How many times in the last month has (NAME) helped you?	-1- does not know -2 does not answer 1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less
<b>i5</b>	Have you had difficulty doing household chores due to a health problem?	-1- does not know -2- does not answer 1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know -2-does not answer
<b>i5a</b>	Who is the person that most helps you?	(specify) -1- does not know -2 does not answer
<b>i5b</b>	How many times in the last month has (NAME) helped you?	1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know -2- does not answer
<b>i6</b>	Have you had difficulty taking medication due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know -2-does not answer
<b>i6a</b>	Who is the person that most helps you?	(specify) -1- does not know -2 does not answer
<b>i6b</b>	How many times in the last month has (NAME) helped you?	1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know -2- does not answer
<b>i7</b>	Have you had difficulty managing your money on your own due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know -2-does not answer
<b>i9</b>	Have you had difficulty eating due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply

<b>i9a</b>	Who is person that most helps you?	-1-does not know -2-does not answer (specify) -1- does not know -2 does not answer
<b>i9b</b>	How many times in the last month has (NAME) helped you?	1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know -2- does not answer
<b>i10</b>	Have you had difficulty getting dressed or undressing due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know -2-does not answer
<b>i10a</b>	Who is the person that most helps you?	(specify) -1- does not know -2 does not answer
<b>i10b</b>	How many times in the last month has (NAME) helped you?	1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know -2- does not answer
<b>i11</b>	Have you had difficulty using the toilet due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know -2-does not answer
<b>i11a</b>	Who is the person that most helps you?	(specify) -1- does not know -2 does not answer
<b>i11b</b>	How many times in the last month has (NAME) helped you?	1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less -1- does not know -2- does not answer
<b>i12</b>	Have you had difficulty walking from one side of your room to the other due to a health problem?	1-yes 2-no 3-cannot do it 4-does not do it/does not apply -1-does not know -2-does not answer
<b>i12a</b>	Who is the person that most helps you?	(specify) -1- does not know -2 does not answer

<b>i12b</b>	How many times in the last month has (NAME) helped you?	-1- does not know -2 does not answer 1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less
<b>i13</b>	Have you had difficulty getting up from or lying down in your bed due to a health problem?	-1- does not know -2- does not answer 1-yes 2-no 3-cannot do it 4-does not do it/does not apply
<b>i13a</b>	Who is the person that most helps you?	-1-does not know -2-does not answer (specify)
<b>i13b</b>	How many times in the last month has (NAME) helped you?	-1- does not know -2 does not answer 1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less
<b>i14</b>	Have you had difficulty taking a bath or showering due to a health problem?	-1- does not know -2- does not answer 1-yes 2-no 3-cannot do it 4-does not do it/does not apply
<b>i17</b>	How would you evaluate your ability to function day-to-day? Would you say that your ability to function day-to-day is excellent, very good, good, average, or bad?	-1-does not know -2-does not answer 1-excellent 2-very good 3-good 4-average 5-bad

---

**Panel N5.5. Chronic Conditions**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>g4</b>	Has a doctor ever told you that you have high blood pressure, that is, hypertension?	1-yes 2-no→go to g8 -1-does not know -2-does not answer
<b>g7</b>	Is your blood pressure generally under control?	1-yes 2-no -1-does not know -2-does not answer
<b>g8</b>	Has a doctor every told you that you have diabetes, that is, high levels of sugar in your blood?	1-yes 2-no→go to g22 -1-does not know



g8a_a	How old were you when you were diagnosed with diabetes for the first time? If the interviewee does not know the age, ask for the year and calculate the age.	-2-does not answer (year) -1-does not know
g8a_e	How old were you when you were diagnosed with diabetes for the first time? If the interviewee does not know the age, ask for the year and calculate the age.	-2-does not answer (age) -1-does not know
g8a_m	How old were you when you were diagnosed with diabetes for the first time? If the interviewee does not know the age, ask for the year and calculate the age.	-2-does not answer (month) -1-does not know
g8aedad	How old were you when you were diagnosed with diabetes for the first time? If the interviewee does not know the age, ask for the year and calculate the age.	-2-does not answer (age calculated by CASES)
g9	Are you currently taking any oral medication to control your diabetes?	1-yes 2-no -1-does not know -2-does not answer
g10	Do you receive insulin shots to control your diabetes?	1-yes 2-no -1-does not know -2-does not answer
g11	In order to control your diabetes, during the last year, have you lost weight or have you followed a special diet?	1-yes 2-no -1-does not know -2-does not answer
g12	Is your diabetes generally under control?	1-yes 2-no -1-does not know -2-does not answer
g13	Do you usually measure your own blood sugar level to see if it's high?	1-yes 2-no -1-does not know -2-does not answer
g14	How often do you do the blood sugar tests to see if your blood sugar is high?	1-every day of the week 2-2 or 3 times a week 3-once a week 4-2 or 3 times a month 5-once a month or less 6-other -1-does not know -2-does not answer
g15	During the last year, did you have blood work done to control your diabetes?	1-yes 2-no -1-does not know -2-does not answer
g16	Does taking care of your diabetes (like for example dieting, taking care of your feet or regulating your blood sugar level) interfere with your daily activities?	1-yes 2-no -1-does not know -2-does not answer
g17	Have you had any circulation problems in your feet, arms or legs because of your diabetes?	1-yes 2-no

g18	Have you had any vision problems because of your diabetes?	-1-does not know -2-does not answer 1-yes 2-no
g19	In the last year, have you had any problems with ulcers in your feet?	-1-does not know -2-does not answer 1-yes 2-no
g20	Has any part of your body been amputated because of your diabetes?	-1-does not know -2-does not answer 1-yes 2-no
g21	Have you ever had any renal complications (in your kidneys) because of your diabetes?	-1-does not know -2-does not answer 1-yes 2-no
<b>g24</b>	Has a doctor ever told you that you have some other form of cancer or a malignant tumor, not on your skin?	-1-does not know -2-does not answer 1-yes 2-no
<b>g31</b>	Has a doctor every told you that you have a chronic pulmonary disease like bronchitis, tuberculosis or emphysema?	-1-does not know -2-does not answer 1-yes 2-no → go to g35
g32_e	How old were you when you were diagnosed with that chronic pulmonary disease? If interviewee does not know the age, ask for the year and calculate the age.	-1-does not know -2-does not answer (age)
g32_a	How old were you when you were diagnosed with that chronic pulmonary disease? If interviewee does not know the age, ask for the year and calculate the age.	(year)
g32_m	How old were you when you were diagnosed with that chronic pulmonary disease? If interviewee does not know the age, ask for the year and calculate the age.	(month)
g32edad	How old were you when you were diagnosed with that chronic pulmonary disease? If interviewee does not know the age, ask for the year and calculate the age.	(age calculated with month and year)
g35	Have you ever suffered a heart attack?	1-yes 2-no -1-does not know -2-does not answer
<b>g36</b>	Has a doctor every told you that you have heart disease such as angina, coronary disease or congestive heart disease?	1-yes 2-no -1-does not know -2-does not answer
g37edad	How old were you when you were first diagnosed with your heart condition or defect?	(age) -1-does not know -2-does not answer
g38	Do you take any kind of medication for your heart condition?	1-yes 2-no

g39	During the last year, have you seen a doctor for your heart condition?	-1-does not know -2-does not answer 1-yes 2-no
g40	Has a doctor ever told you that you have had a brain hemorrhage?	-1-does not know -2-does not answer 1-yes 2-no
g49	Has a doctor ever told you that you have arthritis or rheumatism?	-1-does not know -2-does not answer 1-yes 2-no
g69	During the last year, have you felt chest pain or discomfort?	-1-does not know -2-does not answer 1-yes 2-no
g70	Have you ever felt pressure in your chest?	-1-does not know -2-does not answer 1-yes 2-no
g71	Do you feel this pain or discomfort in your chest when you walk quickly or go up inclines?	-1-does not know -2-does not answer 1-yes 2-no
g72	Do you feel this pain or discomfort in your chest when you walk at a normal pace and on level ground?	-1-does not know -2-does not answer 1-yes 2-no
g73	What do you do if you feel that pain or discomfort in your chest when you're walking? Do you stop walking, walk more slowly, or do you continue walking?	-1-does not know -2-does not answer 1-stops walking or walks more slowly 2-continues walking
g74	What happens if you stop walking? Is the pain or discomfort alleviated or does it continue?	-1-does not know -2-does not answer 1-the pain or discomfort is alleviated 2-the pain or discomfort continues
g75	How long does the pain or discomfort take to go away? Would you say it takes ten minutes or less or more than ten minutes?	-1-does not know -2-does not answer 1-the pain or discomfort is alleviated 2-the pain or discomfort continues
g76	In the last year, have you gone to see a doctor to get this pain or discomfort checked?	-1-does not know -2-does not answer 1-yes 2-no

g77_code (g77)	What did the doctor tell you this pain or discomfort was?	(codified variable) 0-doctor said nothing 1-angina 2- arthritis/costochondritis/osteoa rthritis 3-respiratory problems (asthma/bronchitis/allergy) 4-arrhythmia or tachycardia 5-nerve problems (tension/stress/depression, etc.) 6-hernia or esophageal 7-heart problems 8-gastritis or reflux 9-blood pressure 10-problem musculoskeletal 11-stroke 12-diabetes 13-obesity 14-gases 15-age 16-circulatory problems 17-prescribed medicines/lab studies or test 18-cholesterol/triglycerides 50-other 99-not codeable -12 not applicable, no spouse -7 -no spouse interview -6-doesnot apply to proxy- spouse -5-does not apply to proxy- target -3-indeterminate-wisconsin -2-does not answer -1-does not know
g107	In Puerto Rico there are many people suffering from biliarciosis. Have you ever been diagnosed with this illness?	1-yes 2-no -1-does not know -2-does not answer
g109	Is there anyone in your family that suffers from diabetes? Please include any deceased members of the family as well.	1-one of the parents 2-one of the siblings 3-no one (neither parents nor siblings) -1-does not know -2-does not answer
g110a	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Excessive thirst.	1-yes 2-no -1-does not know -2-does not answer

g110b	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Drinking many liquids.	1-yes 2-no -1-does not know -2-does not answer
g110c	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Always being hungry.	1-yes 2-no -1-does not know -2-does not answer
g110d	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Losing more than ten pounds without trying to.	1-yes 2-no -1-does not know -2-does not answer
g110e	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Frequent urination.	1-yes 2-no -1-does not know -2-does not answer
g110f	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Blurred vision.	1-yes 2-no -1-does not know -2-does not answer
g110g	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Easily fatigued.	1-yes 2-no -1-does not know -2-does not answer
g110h	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Numbness in your hands and legs.	1-yes 2-no -1-does not know -2-does not answer
g110i	I'm going to read you a list of symptoms. I would like for you to tell me if you've experienced any of them in the last year. Frequent urinary, skin or gum infections.	1-yes 2-no -1-does not know -2-does not answer
g37_e	How old were you when you were first diagnosed with your heart condition or defect?	(age) -1-does not know -2-does not answer
g37_a	How old were you when you were first diagnosed with your heart condition or defect?	(year) -1-does not know -2-does not answer
g37_m	How old were you when you were first diagnosed with your heart condition or defect?	(month) -1-does not know -2-does not answer

---

**Panel N5.6. Adult Mortality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
cause_re code_72	NDI recoded cause of death.	For details regarding codes, please refer to the PREHCO website: <a href="http://prehco.rcm.upr.edu">prehco.rcm.upr.edu</a>
wamor	Whether respondent is alive or not.	1-yes, alive 2-no, not alive
wy1_d	Date of death.	(day)
wy1_m	Date of death.	(month) -18-does not apply to the

		regular target
		-15-does not apply to the institutionalized target
		-5-does not apply to the proxy-target
wy1_a	Date of death.	(year)
ywy3	Cause of death.	1-heart disease
		2-cancer
		3-diabetes
		4-hypertension
		5-pulmonary disease
		6-stroke
		7-other cause

---

*Source:* Documentation from the following source was used to compile the tables above. Palloni, A., & Dávila, A.L. Puerto Rican Elderly: Health Conditions (PREHCO), Wave 2, 2006-2007. QM-504-002-1-2-Puerto Rico-DISC-2006. Madison, WI: Data and Information Services Center, University of Wisconsin-Madison [distributor], accessed 2007-07-17. [http://www.disc.wisc.edu/archive/prehco/index\\_prehco2.html](http://www.disc.wisc.edu/archive/prehco/index_prehco2.html).

*Notes:*

The data file for Puerto Rico also contains several variables pertaining to the respondents' occupation as an adult (section n), migration (section o), helping or receiving help (section i); vignettes collected in second wave of data collection (variables beginning with "w") and spousal information (all variables starting with a "y").

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table N2.* There are several variables on migration in Section O of the questionnaire.

*Note A, Panel N2.3.* There is an SES ladder question in Section E of the 2002 Questionnaire. These variables were used to compute income: *n51a\_2*, *n51a\_3*, *n51b\_2*, *n51b\_3*, *n51c\_2*, *n51c\_3*, *n51g\_2*, *n51g\_3*, *n51h\_2*, *n51h\_3*, *n51i\_2*, *n51i\_3*, *n51j\_2*, *n51j\_3*, *n51k\_2*, *n51k\_3*, *n51l\_2*, and *n51l\_3*.

There are numerous variables available in Section N that provide further detail on the respondents' work history and sources of income.

*Note A, Panel N4.1.* There are several additional questions on smoking in Section G of the 2002 Questionnaire (*g163-g166*).

*Note A, Panel N4.3.* There are several additional questions on alcoholism in Section G of the 2002 Questionnaire (*g156-g180*).

*Note A, Table N5.* There are additional symptom questions for heart disease starting at question *g78*. There are also questions on depression (*g148-g153* and *g171-g185*). There is also a depression scale calculated by PREHCO (*depre\_y*).

*Note A, Panel N5.2.* There are additional questions regarding whether the respondent receives help with these tasks and how often they need to receive help. There is a minimal cognition test in Section B of the 2002 Questionnaire.

There are five versions of vignettes available. Vignette one includes variables WG3c1-WG3d2, vignette two includes variables WG3c1-WG3d2, vignette three includes variables WG3e1-WG3f2, vignette four includes variables WG3g1-WG3f2, and vignette five includes variables WG3g2-WG3f3.

*Note A, Panel N5.4.* There are additional variables in Section I of the questionnaire which provide more detail on the respondents' functionality, including whether or not the respondent receives help with their daily tasks.

**NOTE B.**

Puerto Rico has additional variables on early life conditions such as infant mortality (IMR) during the 1920s through early 1940s in the county (*municipio*) where the respondent was born. It also includes information regarding vignettes.

## Appendix O: SAGE countries original variables

The tables below describe the original variables from the SAGE countries survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the SAGE countries data that should be taken into account when examining the data.

**Table O1. Respondent**

Variable	Wording of Question/Description	Scale (if applicable)
q0001	Research centre number.	101-China 106-India 140-Mexico 152-Russian Federation 155-South Africa 241-Ghana
<b>q0002</b>	Household ID.	
q0002a	Is this a (18-49 years) or (50+ years) household?	1-18 to 49 2-50+
q0003	Is this a new, second (follow-up from WHS), retest or proxy interview?	1-first (new) 2-second (follow-up) 3-retest 4-proxy 5-supervisor proxy
q0007a	Final result code Household Q:	(See Section 0350 [F] for codes) 1-completed interview 2-partial interview 6-final refusal by household informant
q0101a	Primary Sampling Unit (PSU)	
q0901	Was someone else present during the interview?	1-yes 2-no 8-don't know 9-not applicable
q0902	What is your evaluation of the accuracy of the informant's answers?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q0405	What is [Name]'s relationship to the household head?	1-spouse 2-son or daughter 3-son or daughter-in-law 4-grandchild 5-parent 6-parent-in-law



		7-brother or sister 8-co-wife 9-grandparent 10-other relative 11-not related (friends, servants, boarders, lodgers, other) 88-don't know 98-not applicable 1-individual respondent 2-proxy respondent 3-no one 8-don't know 9-not applicable
q1000b	Contact with:	
q1006	Household ID.	
<b>q1007</b>	Person (HH member) number from HH roster (number from column).	(number)
<b>pweight</b>	post-stratified person weight	
<b>q0104</b>	Setting (circle one). An urban area that has been legally proclaimed as being urban. Such areas include towns, cities and metropolitan areas. All other areas are not classified as being urban. This includes commercial farms, small settlements, rural villages and other areas which are further away from towns and cities.	1-urban 2-rural
q0105a	First Administrative Level Unit Name	
q0105b	First Administrative Level Unit Code	(code) 99-not applicable if unit is not in appendix list
q0106a	Second Administrative Level Unit Name	
q0106b	Second Administrative Level Unit Code	(code) 99-not applicable if unit is not in appendix list
q9001	Was someone else present during the interview?	1-yes 2-no 8-don't know 9-NA
q9002	Did respondent have a hearing problem?	1-yes 2-no 8-don't know 9-NA
q9003	Did respondent have a vision problem?	1-yes 2-no 8-don't know 9-NA
q9004	Did respondent use wheelchair?	1-yes 2-no 8-don't know 9-NA

q9005	Did respondent use cane/crutches/walker?	1-yes 2-no 8-don't know 9-NA
q9006	Did respondent have difficulties walking?	1-yes 2-no 8-don't know 9-NA
q9007	Did respondent have paralysis?	1-yes 2-no 8-don't know 9-NA
q9008	Did respondent cough continually?	1-yes 2-no 8-don't know 9-NA
q9009	Did respondent have shortness of breath?	1-yes 2-no 8-don't know 9-NA
q9010	Did respondent have mental problems?	1-yes 2-no 8-don't know 9-NA
q9011	Did respondent have other health problem?	1-yes 2-no 8-don't know 9-NA
q9012	Did respondent have amputated limb (arm or leg)?	1-yes 2-no 8-don't know 9-NA
q9013	What is your assessment of the respondent's cooperation?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q9014	What is your evaluation of the accuracy and completeness of the respondent's answers?	1-very high 2-high 3-average 4-low 5-very low

**Table O2. Demographics**  
**Panel O2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>q1009</b>	Interviewer: Record sex of the respondent.	1-male

q1010_dd	What day were you born?	2-female (day) -8-don't know
q1010_mm	What month were you born?	(month) -8-don't know
q1010_yyyy	What year were you born?	(year) -8-don't know
<b>q1011</b>	How old are you now? Interviewer: This would be age at last birthday. If don't know—probe.	age in years -8-don't know
<b>q1012</b>	What is your current marital status?	1-never married 2-currently married 3-cohabiting 4-separated/divorced 5-widowed 8-don't know 9-not applicable

---

**Panel O2.2. Ethnicity, Race and Language**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>q1018</b> (Ghana)	What is your background or ethnic group?	1-Akan 2-Ewe 3-Ga-Adangbe 4-Gruma 5-Grusi 6-Guan 7-Mande-Busanga 8-Mole-Dagbon 87-Other 88-Don't know
<b>q1018</b> (India)	What is your background or ethnic group?	1-Scheduled tribe 2-Scheduled caste 3-No caste or tribe 7-Other 98-Not applicable
<b>q1018</b> (Mexico)	What is your background or ethnic group?	0-None 2-Mixteco 3-Nahuatl 6-Zapoteco 87-Other 88-Don't know
<b>q1018</b> (South Africa)	What is your background or ethnic group?	0-White 1-Non-White 87, other specify 88-don't know 98-not applicable
q1008	What is your mother tongue? By mother tongue, we mean the language you learned first, the language that you can express yourself fully in, or voluntarily identify with.	1-country-specific 1 2-country-specific 2 3-country-specific 3 4...87-other, specify 88-don't know

---

*Note: Variable q1018 exists for Russia and China; value labels could not be found.*

---

---

**Panel O2.3. Education, Income and Wealth (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>q0506</b>	What is the main source of drinking water for members of this household?	1-piped water into dwelling 2-piped water to yard/plot 3-public tap/standpipe 4-tubewell/borehole 5-protected dug well 6-unprotected dug well 7-protected spring 8-unprotected spring 9-rainwater collection 10-bottle water 11-small scale vendor 12-tanker-truck 13-surface water (river, dam, lake, pond, stream, canal, irrigation channels) 87-other, specify 88-don't know 98-not applicable
<b>q0508</b>	What type of toilet facility do members of your household usually use? If respondent indicates "flush" or "pour flush," probe: Where does it flush to?	1-flush/pour flush to piped sewer system 2-flush/pour flush to septic tank 3-flush/pour flush to pit latrine 4-flush/pour flush to other location 5-flush/pour flush to unknown place/not sure 6-ventilated improved pit latrine (VIP) 7-pit latrine with slab 8-pit latrine without slab/open pit 9-composting toilet 10-bucket latrine 11-hanging toilet/hanging latrine 12-no facilities or bush or field 87-other, specify 88-don't know 98-not applicable
<b>q0510</b>	What type of fuel does your household mainly use for cooking?	1-gas 2-electricity 3-kerosene/paraffin 4-coal/charcoal 5-wood 6-agriculture/crop

		7-animal dung 8-shrubs/grass 87-other, specify 88-don't know 98-not applicable
<b>q0511</b>	In this household, is food cooked on an open fire, an open or closed stove? Interviewer: indicate main type.	1-open fire 2-open stove 3-closed stove 7-other, specify 8-don't know 9-not applicable
q0702 (Mexico)	Do you have a security system in your home?	1-yes 2-no -8-don't know
q0702 (Ghana)	How many tables are in the household?	-8-don't know
q0702 (South Africa)	How many tables are in the household?	-8-don't know
q0702 (Russia)	Do you have a security system in your home? (alarm, reinforced doors, guards, etc.)	1-yes 2-no -8-don't know
q0702 (China)	How many tables are in your household?	-8-don't know
q0702 (India)	How many tables are in your household?	-8-don't know
q0703	How many cars are there in your household? If none, enter "00."	(number) -8-don't know
q0704	Does your home have electricity?	1-yes 2-no 8-don't know
q0705	Does your household or anyone in your household have a bicycle?	1-yes 2-no 8-don't know
q0706 (South Africa)	Does your household or anyone in your household have a built-in kitchen sink?	1-yes 2-no 8-don't know
q0706 (Ghana)	Does your household or anyone in your household have a clock?	1-yes 2-no 8-don't know
q0706 (Mexico)	Does your household or anyone in your household have a built-in kitchen sink?	1-yes 2-no 8-don't know
q0706 (Russia)	Does your household or anyone in your household have a clock?	1-yes 2-no 8-don't know
q0706 (China)	Does your household or anyone in your household have a microwave?	1-yes 2-no 8-don't know
q0706 (India)	Does your household or anyone in your household have a clock?	1-yes 2-no 8-don't know

q0707 (South Africa, Mexico, China)	Does your household or anyone in your household have hot running water?	1-yes 2-no 8-don't know
q0707 (Ghana, Russia, India)	Does your household or anyone in your household have a bucket?	1-yes 2-no 8-don't know
<b>q0708</b> (Ghana, South Africa, Mexico, China)	Does your household or anyone in your household have a washing machine?	1-yes 2-no 8-don't know
<b>q0708</b> (Russia, India)	Does your household or anyone in your household have a cot bed or mattress?	1-yes 2-no 8-don't know
q0709	Does your household or anyone in your household have a dishwasher?	1-yes 2-no 8-don't know
<b>q0710</b>	Does your household or anyone in your household have a refrigerator?	1-yes 2-no 8-don't know
q0711 (Mexico)	Does your household or anyone in your household employ someone in house who is not a member of your family (gardener, cook, cleaner, driver,...)?	1-yes 2-no 8-don't know
q0711 (Ghana, South Africa, Russia, China, India)	Does your household or anyone in your household have a fixed line telephone?	1-yes 2-no 8-don't know
q0712	Does your household or anyone in your household have a mobile/cellular telephone?	1-yes 2-no 8-don't know
q0713 (Mexico)	Does your household or anyone in your household have a bullock cart/animal drawn car or sled?	1-yes 2-no 8-don't know
q0713 (Ghana, Russia, India)	Does your household or anyone in your household have a television?	1-yes 2-no 8-don't know
q0713 (South Africa)	Does your household or anyone in your household have a radio?	1-yes 2-no 8-don't know
q0713 (China)	Does your household or anyone in your household have a VCR or DVD player?	1-yes 2-no 8-don't know
q0714	Does your household or anyone in your household have a computer?	1-yes 2-no 8-don't know
q0715 (South Africa, Mexico)	Does your household or anyone in your household have a HiFi or music centre (stereo system)?	1-yes 2-no 8-don't know
q0715 (Ghana, China, India)	Does your household or anyone in your household have a radio?	1-yes 2-no 8-don't know

q0715 (Russia)	Does your household or anyone in your household employ someone in house who is not a member of your family (gardener, cook, cleaner, driver,...)?	1-yes 2-no 8-don't know
q0716 (Ghana, South Africa, Mexico, China)	Does your household or anyone in your household have livestock (cattle, goats, pigs, poultry)?	1-yes 2-no 8-don't know
q0716 (India)	Does your household or anyone in your household have livestock (cattle only)?	1-yes 2-no 8-don't know
q0717 (Mexico, Russia, China)	Does your household or anyone in your household have internet access in the home?	1-yes 2-no 8-don't know
q0717 (Ghana, South Africa, India)	Does your household or anyone in your household have a sewing machine?	1-yes 2-no 8-don't know
q0718 (South Africa, Mexico)	Does your household or anyone in your household have a motorbike?	1-yes 2-no 8-don't know
q0718 (Ghana)	Does your household or anyone in your household have a tractor?	1-yes 2-no 8-don't know
q0718 (China)	Does your household or anyone in your household have an air conditioning system in the home?	1-yes 2-no 8-don't know
q0718 (India)	Does your household or anyone in your household have a moped/scooter/motorcycle?	1-yes 2-no 8-don't know
q0719 (Ghana, Mexico, Russia)	Does your household or anyone in your household have a second home?	1-yes 2-no 8-don't know
q0719 (South Africa, India)	Does your household or anyone in your household have a bullock cart/animal drawn cart or sled?	1-yes 2-no 8-don't know
q0719 (China)	Does your household or anyone in your household have a heating system in the home?	1-yes 2-no 8-don't know
q0720	Please tell us if you own any land or jewelry and other items of value. Land or property?	1-yes 2-no 8-dk 9-refused
q0721	Please tell us if you own any land or jewelry and other items of value. Other valuable items, such as jewelry, books, art or other valuable items?	1-yes 2-no 8-dk 9-refused
q0720a	About how much is this worth in total? Land or property?	(cash equivalent) -8-don't know -9-refused
q0721a	About how much is this worth in total? Other valuable items, such as jewelry, books, art or other	(cash equivalent) -8-don't know

q0722	valuable items? Does your household have a regular source of income? Interviewer: Regular income over the last 12 months, meaning that the household can depend on a source to provide an income at intervals that can be used to base household budget decisions.	-9-refused 1-yes, regular source 2-yes, regular but seasonal 3-no 8-don't know 9-not applicable
q0724	So to verify this information, your approximate total household income from all sources over the last 12 months is about how much?	(income) -8-don't know
q0725	How many people depend on this income? (Interviewer: This number should include the respondent—so enter "01" if only the respondent depends on/is supported by this income.)	(number of people) -8-don't know
q1015	Have you ever been to school?	1-yes 2-no 8-don't know 9-not applicable
q1016	What is the highest level of education that you have completed?	1-less than primary school 2-primary school completed 3-secondary school completed 4-high school (or equivalent) completed 5-college/pre-university/university completed 6-post graduate degree completed 8-don't know 9-not applicable
q1017	How many years of school, including higher education have you completed?	(number of years) -8-don't know

---

**Panel O2.4. Family and Household**

---

Variable	Wording of Question/Description	Scale (if applicable)
q0401	What is the total number of people who live in this household?	(persons)

---

**Table O3. Early Life Conditions**

**Panel O3.1. Birthplace**

Variable	Wording of Question/Description	Scale (if applicable)
q1024	Where did you live for most of your childhood (age 9 or younger)?	1-in same community/locality/neighborhood 2-in another city in this region 3-in another rural area in this region 4-in another city outside this region but in country



		5-in another rural area outside this region but in country 6-outside the country 8-don't know 9-not applicable
<b>q1020</b>	Have you always lived in this village/town/city?	1-yes 2-no 8-don't know 9-not applicable
q1021	How long have you been living (continuously) in this area? Interviewer: If less than 1 year, enter "00."	(years) -8-don't know
q1022	Where were you living before?	1-in same community/locality/neighborhood 2-in another city in this region 3-in another rural area in this region 4-in another city outside this region in country 5-in another rural area outside this region but in country 6-outside the country 8-don't know 9-not applicable
q1023	Where have you lived for most of your adult life (18+ years)?	1-in same community/locality/neighborhood 2-in another city in this region 3-in another rural area in this region 4-in another city outside this region in country 5-in another rural area outside this region but in country 6-outside the country 8-don't know 9-not applicable
<b>q0104</b>	Setting (circle one). An urban area that has been legally proclaimed as being urban. Such areas include towns, cities and metropolitan areas. All other areas that are not classified as being urban. This includes commercial farms, small settlements, rural villages and other areas which are further away from towns and cities.	1-urban 2-rural
<b>q1010_dd</b>	What day were you born?	(day)

<b>q1010_mm</b>	What month were you born?	-8-don't know (month)
<b>q1010_yyyy</b>	What year were you born?	-8-don't know (year)
		-8-don't know

---

### **Panel O3.3. Childhood Nutrition**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q2504	What is your height in centimeters?	(centimeters) -8-don't know
q2505	What is your weight in kilograms?	(kilograms) -8-don't know
<b>q2506</b>	Measured height in centimeters.	(centimeters) 997-refused 998-not able
<b>q2507</b>	Measured weight in kilograms.	(kilograms) 997-refused 998-not able
<b>q2508</b>	Waist circumference.	(centimeters) 997-refused 998-not able
<b>q2509</b>	Hip circumference.	(centimeters) -8-don't know 997-refused 998-not able

---

### **Panel O3.4. Childhood SES**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q1025	Was your mother ever employed?	1-yes 2-no 8- DK
q1026	Who is/was your mother's main employer over her working life?	1-public sector (government) 2-private sector (for profit or not for profit) 3-self-employed 4-informal employment
q1027	What is/was her [your mother's] main occupation?	write exactly what the respondent says-clarify if you do not understand-write clearly in capital letters -8-don't know
q1028	What is the highest level of education that she [your mother] completed?	0-no formal education 1-less than primary school 2-primary school completed 3-secondary school completed 4-high school (or equivalent) completed 5-college/pre-university/university completed 6-post graduate degree completed

<b>q1032</b>	What is the highest level of education that he [your father] completed?	8-don't know 9-not applicable 0-no formal education 1-less than primary school 2-primary school completed 3-secondary school completed 4-high school (or equivalent) completed 5-college/pre-university/university completed 6-post graduate degree completed 8-don't know 9-not applicable
<b>q1029</b>	Was your father ever employed?	1-yes 2-no 8-don't know 9-not applicable
<b>q1030</b>	Who is/was your father's main employer over his working life?	1-public sector (government) 2-private sector (for profit or not for profit) 3-self-employed 4-informal employment 8-don't know 9-not applicable
q1031	What is/was his [your father's] main occupation?	write exactly what the respondent says-clarify if you do not understand--write clearly in capital letters -8-don't know

---

## Table O4. Adult Lifestyle

### Panel O4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
<b>q3001</b>	Have you ever smoked tobacco or used smokeless tobacco?	1-yes 2-no 8-don't know 9-not applicable
<b>q3002</b>	Do you currently use (smoke, sniff or chew) any tobacco products such as cigarettes, cigars, pipes, chewing tobacco or snuff?	1-yes, daily 2-yes, but not daily 3-no, not at all 8-don't know 9-not applicable
q3005	In the past, did you ever smoke tobacco or use smokeless tobacco daily?	1-yes 2-no 8-don't know 9-not applicable

---

### Panel O4.2. Adult Exercise

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>q3016</b>	Does your work involve vigorous-intensity activity that causes large increases in breathing or heart rate, [like heavy lifting, digging or chopping wood] for at least 10 minutes continuously?	1-yes 2-no 8-don't know 9-not applicable
q3017	In a typical week, on how many days do you do vigorous-intensity activities as part of your work?	(days) 8-don't know 9-not applicable
q3018	How much time do you spend doing vigorous-intensity activities at work on a typical day?	(hours and minutes) -8-don't know
q3019	Does your work involve moderate-intensity activity that causes small increases in breathing or heart rate (such as brisk walking, carrying light loads, cleaning, cooking, or washing clothes) for at least 10 minutes continuously?	1-yes 2-no 8-don't know 9-not applicable
<b>q3025</b>	Do you do any vigorous intensity sports, fitness or recreational (leisure) activities that cause large increase in breathing or heart rate [like running or football], for at least 10 minutes continuously?	1-yes 2-no 8-don't know 9-not applicable
q3026	In a typical week, on how many days do you do vigorous intensity sports, fitness or recreational (leisure) activities?	8-don't know 9-not applicable
q3027	How much time do you spend doing vigorous intensity sports, fitness or recreational activities on a typical day?	-8-don't know
q3028	Do you do any moderate-intensity sports, fitness or recreational (leisure) activities that causes a small increase in breathing or heart rate [such as brisk walking, cycling or swimming] for at least 10 minutes at a time? (Insert examples and use showcard.)	1-yes 2-no 8-don't know 9-not applicable

### **Panel O4.3. Adult Alcohol Consumption (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>q3007</b>	Have you ever consumed a drink that contains alcohol (such as beer, wine, spirits, etc.)?	1-yes 2-no, never 8-don't know 9-not applicable
<b>q3008</b>	Have you consumed alcohol in the last 30 days?	1-yes 2-no 8-don't know 9-not applicable
q3010	In the last 12 months, how frequently [on how many days] on average have you had at least one alcoholic drink?	0-no days 1-less than once a month 2-one to three days per month 3-one to four days per week 4-five or more days per week 8-don't know 9-not applicable
q3011	In the last 12 months, on the days you drank alcoholic beverages, how many drinks did you have	(drinks) -8-don't know

on average?

**Panel O4.4. Adult Diet**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q3012	How many servings of fruit (e.g. banana, mango, apple, orange, papaya, tangerine, grapefruit, peach, pear (country-specific)) do you eat on a typical day?	(servings) -8-don't know
q3013	How many servings of vegetables (e.g. tomato, cauliflower, potato, cucumber, peas, corn lettuce, squash, bean (country-specific)) do you eat on a typical day?	(servings) -8-don't know
q3014	In the last 12 months, how often did you ever eat less than you felt you should because there wasn't enough food?	1-every month 2-almost every month 3-some months, but not every month 4-only in 1 or 2 months 5-never 8-don't know 9-not applicable
q3015	In the last 12 months, were you ever hungry, but didn't eat because you couldn't afford enough food?	1-every month 2-almost every month 3-some months, but not every month 4-only in 1 or 2 months 5-never 8-don't know 9-not applicable

**Panel O4.5. Health Care Utilization (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q2020	When was the last time you had your eyes examined by a medical professional? (Interviewer: Enter years ago. Enter "00" if less than 1 year.)	(years ago) -8-don't know 98-never
q5001a	If 'don't know,' was it more than 3 years ago?	1-yes 2-no 8-don't know 9-not applicable
q5001mm	When was the last time that you needed health care?	(years ago, months ago) 88-DK 98-never -8-don't know
q5001yy	When was the last time that you needed health care?	(years ago, months ago) 88-DK 98-never -8-don't know
q5002	The last time you needed health care, did you get health care?	1-yes 2-no 8-don't know 9-not applicable
q50016a	Which reason best describes why you were last hospitalized?	1-Communicable 2-Maternal 3-Nutrition 4-Acute condition

		5-Injury
		6-Surgery
		7-Sleep problems
		8-Occupation
		9-Pain in joints
		10-Diabetes
		11-Problems with heart
		12-Problems with mouth
		13-Problems with breathing
		14-High BP
		15-Stroke
		16-Generalized pain
		17-Depression or anxiety
		18-Cancer
		87-Other
		88-Don't know
		98-Not applicable
q5026	Over the last 12 months, did you receive any health care NOT including an overnight stay in hospital or long-term care facility?	1-yes
		2-no
		8-don't know
		9-not applicable
q5027	In total, how many times did you receive health care or consultation in the last 12 months?	(times)
		-8-don't know
		-9-not applicable
q5028	What was the last (most recent) health care facility you visited in the last 12 months?	1-private doctor's office
		2-private clinic or health care facility
		3-private hospital
		4-public clinic or health care facility
		5-public hospital
		6-charity or church run clinic
		7-charity or church run hospital
		8-home visit
		87-other, specify
		88-don't know
		98-not applicable
q5029	Which was the last (most recent) health care provider you visited? Interviewer: After q5029 substitute the type of health care provider selected by the patient when you see [health care provider] in parentheses.	1-medical doctor (including surgeon, gynecologist, psychiatrist, ophthalmologist)
		2-nurse/midwife
		3-dentist
		4-physiotherapist or chiropractor
		5-traditional medicine practitioner (use local name)
		6-pharmacist, druggist
		7-home health care worker

q5039	For your last visit to a health care provider, how would you rate the following: the amount of time you waited before being attended to?	8-don't know 9-not applicable 1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know
q5040	For your last visit to a health care provider, how would you rate the following: your experience of being treated respectfully?	9-not applicable 1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q5041	For your last visit to a health care provider, how would you rate the following: how clearly health care providers explained things to you?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q5042	For your last visit to a health care provider, how would you rate the following: your experience of being involved in making decisions for your treatment?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q5043	For your last visit to a health care provider, how would you rate the following: the way the health services ensured that you could talk privately to providers?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q5044	For your last visit to a health care provider, how would you rate the following: the ease with which you could see a health care provider you were happy with?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know
q5045	For your last visit to a health care provider, how would you rate the following: the cleanliness in the health facility?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q5053	In general, how satisfied are you with how the health	1-very satisfied

	care services are run in your country [in your area] – are you very satisfied, satisfied, neither satisfied nor dissatisfied, fairly dissatisfied, or very dissatisfied?	2-satisfied 3-neither satisfied nor dissatisfied 4-fairly dissatisfied 5-very dissatisfied 8-don't know 9-not applicable
q5054	How would you rate the way health care in your country involves you in deciding what services it provides and where it provides them?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q8002	Over the last 12 months, have any members of your household, adults or children, needed care or support for any reason? This could include financial, physical, emotional, health or personal care or support.	1-yes 2-no 8-don't know 9-not applicable
q8003	In total, how many adult household (HH) members have needed care or support in the last 12 months?	(number) -8-don't know

**Table O5. Adult Health Outcomes (see note A)**  
**Panel O5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q2000	In general, how would you rate your health today?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q7001	Do you have enough energy for everyday life?	1-completely 2-mostly 3-moderately 4-a little 5-none at all 8-don't know 9-not applicable
q7002	Do you have enough money to meet your needs?	1-completely 2-mostly 3-moderately 4-a little 5-none at all 8-don't know 9-not applicable
q7003	How satisfied are you with your health?	1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied



q7004	How satisfied are you with yourself?	5-very dissatisfied 8-don't know 9-not applicable 1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable
q7005	How satisfied are you with your ability to perform your daily living activities?	1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable 1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable
q7006	How satisfied are you with your personal relationships?	1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable 1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable
q7007	How satisfied are you with the conditions of your living place?	1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable 1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable
q7008	Taking all things together, how satisfied are you with your life as a whole these days?	1-very satisfied 2-satisfied 3-neither satisfied nor dissatisfied 4-dissatisfied 5-very dissatisfied 8-don't know 9-not applicable 1-never 2-almost never 3-sometimes 4-fairly often 5-very often 8-don't know 9-not applicable
q7008a	How often have you felt that you were unable to control the important things in your life? (Read responses).	1-never 2-almost never 3-sometimes 4-fairly often 5-very often 8-don't know 9-not applicable 1-never
q7008b	How often have you found that you could not cope	1-never

	with all the things that you had to do? (Read responses).	2-almost never 3-sometimes 4-fairly often 5-very often 8-don't know 9-not applicable
q7009	How would you rate your overall quality of life?	1-very good 2-good 3-moderate 4-bad 5-very bad 8-don't know 9-not applicable
q7010	Taking all things together, how would you say you are these days? Are you...?	1-very happy 2-happy 3-neither happy nor unhappy 4-unhappy 5-very unhappy 8-don't know 9-not applicable

---

**Panel O5.2. Anthropometric and Performance Measures (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q2501	Blood pressure.	(systolic) -8-don't know -9-refused (diastolic) -8-don't know -9-refused
q2501a_p	Pulse rate.	(beats per minute) -8-don't know -9-refused
q2502	Blood pressure.	(systolic) -8-don't know -9-refused (diastolic) -8-don't know -9-refused
q2502a_p	Pulse rate.	(beats per minute) -8-don't know -9-refused
q2503	Blood pressure.	(systolic) -8-don't know -9-refused (diastolic) -8-don't know -9-refused
q2503a_p	Pulse rate.	(beats per minute) -8-don't know -9-refused
q2510	Timed walk. Did respondent complete the walk at	1-yes

	usual pace?	2-no, refused 3-no, cannot walk, even with support 8-don't know 9-not applicable
q2511	Time at 4 meters.	(seconds) -8-don't know -9-not applicable
q2512	Rapid walk. Did respondent complete the walk at rapid pace?	1-yes 2-no, refused 3-no, cannot walk, even with support 8-don't know 9-not applicable
q2513	Time at 4 meters.	(seconds) -8-don't know -9-not applicable
q2521	Grip strength. First test left hand.	(kilograms) -9-refused
q2522	Grip strength. Second test left hand.	(kilograms) -9-refused
q2523	Grip strength. First test right hand.	(kilograms) -9-refused
q2524	Grip strength. Second test right hand.	(kilograms) -9-refused
q2538	Lung function. FVC.	-8-don't know -9/999/9999-missing
q2539	Lung function. FEV1.	-8-don't know -9/999/9999-missing
q2540	Lung function. FEV1%.	-8-don't know -9/999/9999-missing
q2541	Lung function. PEF.	-8-don't know -9/999/9999-missing
q2542	Lung function. FEF25-75.	-8-don't know -9/999/9999-missing
q2543	Lung function. FET.	-8-don't know -9/999/9999-missing

---

**Panel O5.3. Self-Reported Health and Vignettes (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q1001	Does the respondent have obvious cognitive limitations that prevent him/her from being interviewed/	1-yes 2-no limitations 8-don't know 9-not applicable
q2001	Overall in the last 30 days, how much difficulty did you have with work or household activities?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2002	Overall in the last 30 days, how much difficulty did	1-none

	you have with moving around?	2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2003	Overall in the last 30 days, how much difficulty did you have in vigorous activities ('vigorous activities' require hard physical effort and cause large increases in breathing or heart rate)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2004	Overall in the last 30 days, how much difficulty did you have with self-care, such as bathing/washing or dressing yourself?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2005	Overall in the last 30 days, how much difficulty did you have in taking care of and maintaining your general appearance (for example, grooming, looking neat and tidy)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2006	Overall in the last 30 days, how much difficulty did you have in staying by yourself for a few days (3 to 7 days)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2007	Overall in the last 30 days, how much of bodily aches or pains did you have?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2008	Overall in the last 30 days, how much bodily discomfort did you have?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2009	Overall in the last 30 days, how much difficulty did you have in your daily life because of your pain?	1-none 2-mild 3-moderate

		4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2010	Overall in the last 30 days, how much difficulty did you have with concentrating or remembering things?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2011	Overall in the last 30 days, how much difficulty did you have in learning a new task (for example, learning how to get to a new place, learning a new game, learning a new recipe)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2012	Overall in the last 30 days, how much difficulty did you have with personal relationships or participation in the community?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2013	Overall in the last 30 days, how much difficulty did you have in dealing with conflicts and tensions with others?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2014	Overall in the last 30 days, how much difficulty did you have with making new friendships or maintaining current friendships?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2015	Overall in the last 30 days, how much difficulty did you have with dealing with strangers?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2016	Overall in the last 30 days, how much of a problem did you have with sleeping, such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do

		8-don't know 9-not applicable
q2017	Overall in the last 30 days, how much of a problem did you have due to not feeling rested and refreshed during the day (for example, feeling tired, not having energy)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2018	Overall in the last 30 days, how much of a problem did you have with feeling sad, low or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2019	Overall in the last 30 days, how much of a problem did you have with worry or anxiety?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2023	In the last 30 days, how much difficulty did you have in seeing and recognizing an object or a person you know across the road (from a distance of about 20 meters)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2024	In the last 30 days, how much difficulty did you have in seeing and recognizing an object at arm's length (for example, reading)?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2039	In the last 30 days, how much difficulty did you have in your day to day work?	1-none 2-mild 3-moderate 4-severe 5-extreme/cannot do 8-don't know 9-not applicable
q2101a_m,	Mobility vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable

q2105a_m,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2109a_m,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2113a_m,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2115a_m		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2102a_v,	Vigorous activities vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2106a_v,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2110a_v,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2114a_v,		1-none

		2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2116a_v		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2103a_d,	Depression vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2107a_d,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2111a_d,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2117a_d,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2119a_d		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2104a_a,	Anxiety vignettes.	1-none 2-mild 3-moderate



q2108a_a,		4-severe 5-extreme 8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2112a_a,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2118a_a,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2120a_a		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2101b_r,	Personal relationships vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2105b_r,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2111b_r,		1-none 2-mild 3-moderate 4-severe 5-extreme

q2113b_r,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2117b_r		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2102b_c,	Conflict vignettes.	8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2106b_c,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2112b_c,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2114b_c,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2118b_c		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme

q2103b_p,	Pain vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2107b_p,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2109b_p,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2115b_p,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2119b_p		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2104b_d,	Discomfort vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2108b_d,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2110b_d,		1-none 2-mild

q2116b_d,		3-moderate 4-severe 5-extreme 8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2120b_d		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2101c_s,	Sleeping vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2105c_s,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2111c_s,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2115c_s,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2119c_s		1-none 2-mild 3-moderate 4-severe

q2102c_e,	Energy vignettes.	5-extreme 8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know
q2106c_e,		9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know
q2112c_e,		9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know
q2116c_e,		9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know
q2120c_e		9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know
q2103c_p,	Long distance visibility vignettes.	9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know
q2107c_p,		9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know

q2109c_p,		9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2113c_p,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2117c_p		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2104c_o,	Short distance visibility vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2108c_o,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2110c_o,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2114c_o,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2118c_o		1-none 9-not applicable

		2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2101d_c,	Self-care vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2107d_c,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2111d_c,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2113d_c,		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2115d_c		1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2102d_a,	General appearance vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2108d_a,		1-none 2-mild 3-moderate

q2112d_a,	4-severe 5-extreme 8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2114d_a,	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2116d_a	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2103d_m, Memory vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2105d_m,	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2109d_m,	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable
q2117d_m,	1-none 2-mild 3-moderate 4-severe 5-extreme



q2119d_m		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2104d_l,	Learning vignettes.	8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2106d_l,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2110d_l,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2118d_l,		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme
q2120d_l		8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme

---

**Panel O5.4. Functionality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>q2025</b>	In the last 30 days, how much difficulty did you have...in sitting for long periods?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do

---

<b>q2026</b>	In the last 30 days, how much difficulty did you have...in walking 100 meters?	8-don't know 9-not applicable 1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2027</b>	In the last 30 days, how much difficulty did you have...in standing up from sitting down?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2028</b>	In the last 30 days, how much difficulty did you have...in standing for long periods?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2029</b>	In the last 30 days, how much difficulty did you have...with climbing one flight of stairs without resting?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2030</b>	In the last 30 days, how much difficulty did you have...with stooping, kneeling, or crouching?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2031</b>	In the last 30 days, how much difficulty did you have...picking up things with your fingers?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2032</b>	In the last 30 days, how much difficulty did you have...in taking care of your household responsibilities?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable

<b>q2033</b>	In the last 30 days, how much difficulty did you have...in joining community activities (for ex., festivities, religious or other activities) in the same way as anyone else can?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2034</b>	In the last 30 days, how much difficulty did you have...in extending your arms above shoulder level?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2035</b>	In the last 30 days, how much difficulty did you have...concentrating on doing something for 10 minutes?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2036</b>	In the last 30 days, how much difficulty did you have...in walking a long distance such as a kilometer?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2037</b>	In the last 30 days, how much difficulty did you have...in bathing/washing your whole body?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2038</b>	In the last 30 days, how much difficulty did you have...in getting dressed?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2040</b>	In the last 30 days, how much difficulty did you have...with carrying things?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2041</b>	In the last 30 days, how much difficulty did you have...with moving around inside your home (such as	1-none 2-mild

	walking across a room)?	3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2042</b>	In the last 30 days, how much difficulty did you have...with eating (including cutting up your food)?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2043</b>	In the last 30 days, how much difficulty did you have...with getting up from lying down?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2044</b>	In the last 30 days, how much difficulty did you have...with getting to and using the toilet?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2045</b>	In the last 30 days, how much difficulty did you have...with getting where you want to go, using private or public transport if needed?	1-none 2-mild 3-moderate 4-severe 5-extreme, cannot do 8-don't know 9-not applicable
<b>q2046</b>	In the last 30 days, how much difficulty did you have...getting out of your home?	1-none 2-mild 3-moderate 4-severe 5-extreme 8-don't know 9-not applicable

---

**Panel O5.5. Chronic Conditions**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
q2021	Do you use eyeglasses or contact lenses to see far away (for example, across the street)?	1-yes 2-no 8-don't know 9-not applicable
q2022	Do you use eyeglasses or contact lenses to see up close (for example at arm's length, like when you are reading?)	1-yes 2-no 8-don't know 9-not applicable
<b>q4001</b>	Have you ever been diagnosed with/told you have	1-yes

	arthritis (a disease of the joints, or by other names rheumatism or osteoarthritis)?	2-no 8-don't know 9-not applicable
<b>q4010</b>	Have you ever been told by a health professional that you have had a stroke?	1-yes 2-no 8-don't know 9-not applicable
<b>q4014</b>	Have you ever been diagnosed with angina or angina pectoris (a heart disease)?	1-yes 2-no 8-don't know 9-not applicable
q4015a	Have you been taking medications or other treatment for it during the last 2 weeks?	1-yes 2-no 8-don't know 9-not applicable
<b>q4015b</b>	Have you been taking medications or other treatment for it during the last 12 months?	1-yes 2-no 8-don't know 9-not applicable
<b>q4016</b>	During the last 12 months, have you experienced any pain or discomfort in your chest when you walk uphill or hurry?	1-yes 2-no 3-never walks uphill or hurries
<b>q4017</b>	During the last 12 months, have you experienced any pain or discomfort in your chest when you walk at an ordinary pace on level ground?	1-yes 2-no
<b>q4018</b>	What do you do if you get the pain or discomfort when you are walking? (Read choices).	1-stop or slow down 2-carry on after taking a pain relieving medicine that dissolves in your mouth 3-carry on walking
<b>q4019</b>	If you stand still, what happens to the pain or discomfort? (Read choices).	1-relieved 2-not relieved
<b>q4020</b>	Will you show me where you usually experience the pain or discomfort? (Circle number in each of the boxes in the areas of body mentioned or shown by the respondent).	1-yes 2-no 8-don't know 9-not applicable
q4021	These symptoms that you have said you experienced in the last 12 months, have you experienced them in the last 2 weeks?	1-yes 2-no 8-don't know 9-not applicable
<b>q4022</b>	Have you ever been diagnosed with diabetes (high blood sugar)? (not including diabetes associated with pregnancy)	1-yes 2-no 8-don't know 9-not applicable
q4023a	Have you been taking insulin or other blood sugar lowering medications in the last 2 weeks?	1-yes 2-no 8-don't know 9-not applicable
q4023b	Have you been taking insulin or other blood sugar	1-yes

	lowering medications in the last 12 months?	2-no 8-don't know 9-not applicable
q4024	Have you been following a special diet, exercise regime or weight control program for diabetes during the last 2 weeks? (As recommended by health professional).	1-yes 2-no 8-don't know 9-not applicable
<b>q4025</b>	Have you ever been diagnosed with chronic lung disease (emphysema, bronchitis, COPD)?	1-yes 2-no 8-don't know 9-not applicable
q4033	Have you ever been diagnosed with asthma (an allergic respiratory disease)?	1-yes 2-no 8-don't know 9-not applicable
q4040	Have you ever been diagnosed with depression?	1-yes 2-no 8-don't know 9-not applicable
<b>q4060</b>	Have you ever been diagnosed with high blood pressure (hypertension)?	1-yes 2-no 8-don't know 9-not applicable
q4061a	Have you been taking medications or other treatment for it during the last 2 weeks? (Other treatment might include weight loss program or change in eating habits).	1-yes 2-no 8-don't know 9-not applicable
q4061b	Have you been taking medications or other treatment for it during the last 12 months? (Other treatment might include weight loss program or change in eating habits).	1-yes 2-no 8-don't know 9-not applicable

---

*Source:* Documentation from the following source was used to compile the tables above. World Health Organization (WHO). SAGE: WHO Study on global AGEing and adult health (SAGE). World Health Organization [distributor], accessed 2011.  
<http://www.who.int/healthinfo/systems/sage/en/index1.html>,  
<http://www.who.int/healthinfo/systems/sage/en/>.

*Notes:*

In some cases, there were slight differences in the way variables were named across SAGE countries.

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Panel O2.3.* SAGE has extensive questions on household expenditures in the Household Questionnaire. There are other questions regarding the house including type of floors and walls (questions *q0504* and *q0505*).

*Note A, Panel O4.1.* There are other questions related to duration, number of products smoked, and how old the respondent was when they quit in Section 3000 of the Individual Questionnaire (*q3003*, *q3004*, and *q3006*).

*Note A, Panel O4.3.* There is another question on the frequency (*q3009*) of drinking in Section 3000 of the Individual Questionnaire.

*Note A, Panel O4.5.* There are several questions about hospital stays and inpatient care in Section 5000 of the Individual Questionnaire.

*Note A, Table O5.* There is also a section with many questions on social cohesion and involvement in the community in Section 6000 of the Individual Questionnaire. There is an analysis of daily activities in Section 7000 of the Individual Questionnaire.

*Note A, Panel O5.2.* Self-reports for the respondent's health can be found in the adult health outcomes file.

Some of the performance measures (for example, lung function variables *q2538-q2543*) were performed numerous times. To indicate this, the variable name includes an *\_1*, *\_2*, and *\_3* (i.e. *q2538\_1*, *q2538\_2*, and *q2538\_3*).

*Note A, Panel O5.3.* SAGE has several questions on cognitive ability in Section Q1000 of the Individual Questionnaire and memory and verbal fluency in Section 2500 of the Individual Questionnaire.

**NOTE B.**

In some instances variables across SAGE countries are slightly different. For example, the variables for health care utilization are different for Ghana.

### Appendix P: Taiwan-SEBAS original variables

The tables below describe the original variables from the Taiwan-SEBAS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the Taiwan data that should be taken into account when examining the data.

<b>Table P1. Respondent</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>resp_id</b>	Unique respondent ID.	(number, range 1-1023)
<b>wgt_exam</b>	Weight variable, adjusts for over-sampling and for the differential participation in the health examination by age group.	
<b>rural</b>	2000 Residence: Urban or Rural township.	0-urban 1-rural
urban	2000 Residence: Large city or small town.	0-no 1-yes
lcity	2000 Residence: Large city.	0-no 1-yes
scity	2000 Residence: Small town.	0-no 1-yes
utown	2000 Residence: Urban township.	0-no 1-yes
rtown	2000 Residence: Rural township.	0-no 1-yes
<b>i1</b>	The interviewee for this questionnaire was:	1-respondent only 2-proxy report 3-respondent and proxy report
i2	What is the relationship of the person who helps the respondent to provide answers?	2-spouse 31-eldest son 32-second son 33-third son 34-fourth son 41-first daughter 42-second daughter 43-third daughter 45-fifth+ daughter 52-son's daughter 54-grandchild 88-Not applicable 91-first daughter-in-law 92-second daughter-in-law 93-third daughter-in-law 94-fourth daughter-in-law 95-fifth daughter-in-law
qtype	Distinguishes between respondents drawn from the	1-near elderly



1989 sample of elderly and those drawn from the 1996 extension sample of near elderly. 2-elderly

**Table P2. Demographics (see note A)**

**Panel P2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>sex</b>	Respondent's sex.	1-male 2-female
<b>age2000</b>	Respondent's age at 2000 interview (based on birthday).	(age)
<b>bir_m</b>	Month of birthdate.	(month)
<b>a1</b>	What is your current marital status? Are you never-married, married, (formally) separated, widowed, or divorced?	99-missing 1-never married 2-married, husband/wife alive 3-(formally) separated 4-divorced 5-widowed

**Panel P2.2. Ethnicity, Race and Language**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ethnicity</b>	Respondent's ethnicity.	1-Fukienes 2-Hakka 3-Mainland 4-Aborigin

**Panel P2.3. Education, Income and Wealth**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>educ00</b>	Respondent's education.	0-illiterate (no educ) 1-1 <sup>st</sup> yr primary 2-2 <sup>nd</sup> yr primary 3-3 <sup>rd</sup> yr primary 4-4 <sup>th</sup> yr primary 5-5 <sup>th</sup> yr primary 6-6 <sup>th</sup> yr primary 7-7 <sup>th</sup> yr junior high 8-8 <sup>th</sup> yr junior high 9-9 <sup>th</sup> yr junior high 10-10 <sup>th</sup> yr senior high 11-11 <sup>th</sup> yr senior high 12-12 <sup>th</sup> yr senior high 13-1 yr college 14-2 yrs college 15-3 yrs college 16-4 yrs college 17-17+ yrs (Grad school)
<b>d1</b>	Compared to others in Taiwan, respondent's rank on SES ladder.	90-literate (no educ) 1-worst-off 2 3 4 5

		6
		7
		8
		9
		10-best-off
		66-other response
		88-not applicable
		95-no opinion
		96-not sure
		97-don't know/don't understand
		98-refuse to answer
		99-unknown
<b>d2</b>	Compared to others in community, respondent's rank on SES ladder.	1-worst-off
		2
		3
		4
		5
		6
		7
		8
		9
		10-best-off
		88-not applicable
		95-no opinion
		96-not sure
		97-don't know/don't understand
		98-refuse to answer
		99-unknown
<b>majocc_r</b>	Respondent's major lifetime occupation.	(see SEBAS codebook for definitions of occupations, coded 1-99)

---

**Panel P2.4. Family and Household**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>a3a</b>	How many people, in total, usually live in this house with you?	(number of people including respondent) 99-missing

---

**Table P3. Early Life Conditions**

**Panel P3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>ethnicity</b>	Respondent's ethnicity.	1-Fukienes 2-Hakka 3-Mainland 4-Aborigin 99-missing
<b>bir_m</b>	Month of birthdate.	(month) 99-missing
<b>yrbirth</b>	Respondent's year of birth.	(year) 9999-missing

---

**Panel P3.2. Childhood Nutrition**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>height</b>	Respondent's height measurement.	(cm)
<b>waist</b>	Respondent's waist measurement.	(cm)
<b>hip</b>	Respondent's hip measurement.	(cm)
<b>waisthip</b>	Respondent's waist to hip ratio.	(ratio)
		99999-missing

### **Panel P3.3. Childhood SES**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>fdm</b>	Family history of diabetes?	0-no 1-yes
<b>fchd</b>	Family history of heart disease?	0-no 1-yes

## **Table P4. Adult Lifestyle**

### **Panel P4.1. Adult Smoking (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>smk</b>	Past 6 months, did you smoke?	0-no 1-when friends give me cigs/socially 2-only after meals 3-everyday 9-missing
<b>betel</b>	Past 6 months, did you chew betel nut?	0-no 1-sometimes 2-frequently 3-everyday 9-missing

### **Panel P4.2. Adult Exercise (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>b8</b>	Do you usually exercise? [If yes, continue.] On average, how many times do you exercise each week?	0-no 1-less than once a week 2-once to twice a week 3-three to five times a week 4-six or more times a week 9-missing

### **Panel P4.3. Adult Alcohol Consumption**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>alc</b>	Past 6 months, did you drink alcohol?	0-no 1-sometimes 2-frequently 3-everyday 9-missing
<b>alc_b1</b>	Past 6 months, consumed wine/beer daily?	0-no 1-yes 8-not applicable 9-missing

### **Panel P3.4. Adult Diet**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>milk</b>	Do you drink milk every day?	0-no

diet	Eat 3 veggies and 2 fruits every day?	1-yes 9-missing 0-no 1-yes 9-missing
------	---------------------------------------	--

**Panel P4.4. Health Care Utilization**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
b12	In the past year, have you gone to the hospital for an emergency?	1-yes 0-no
b13	In the past year, have you had a health examination or physical examination?	1-yes 0-no
b13b_a	Did you have the last health examination to simply learn your state of health? Or did you have the physical on your own initiative because you had discomfort, or did you have discomfort and the physician ordered it? Can choose more than one.	just to learn state of health (preventive) 0-no 1-yes 8-not applicable
b13b_b	Did you have the last health examination to simply learn your state of health? Or did you have the physical on your own initiative because you had discomfort, or did you have discomfort and the physician ordered it? Can choose more than one.	had discomfort so went to have physical on his/her own initiative 0-no 1-yes 8-not applicable
b13b_c	Did you have the last health examination to simply learn your state of health? Or did you have the physical on your own initiative because you had discomfort, or did you have discomfort and the physician ordered it? Can choose more than one.	had discomfort, so physician ordered the physical 0-no 1-yes 8-not applicable
b13b_d	Did you have the last health examination to simply learn your state of health? Or did you have the physical on your own initiative because you had discomfort, or did you have discomfort and the physician ordered it? Can choose more than one.	other (please explain) 0-no other reasons 1-was informed to take free health exam 2- company requirement 7-other reasons 8-not applicable

**Table P5. Adult Health Outcomes (see note A)**

**Panel P5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
b1	Regarding your current state of health, do you feel it is excellent, good, average, not so good, or poor?	1-excellent 2-good 3-average 4-not so good 5-poor 8-not applicable
b2	Compared to this time last year, is your health better, about the same, or worse?	1-better 2-about the same 3-worse 8-not applicable
b3	Compared to most people your age, do you feel your health is better, about the same, or worse?	1-better 2-about the same

3-worse  
8-not applicable

**Panel P5.2. Anthropometric Measures\Biomarkers (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>weight</b>	Respondent's weight measurement.	(kg)
bp_s1	Systolic blood pressure, 1 <sup>st</sup> reading by nurse.	(reading in mmHg)
bp_d1	Diastolic blood pressure, 1 <sup>st</sup> reading by nurse.	(reading in mmHg)
bp_s2	Systolic blood pressure, 2 <sup>nd</sup> reading by nurse.	(reading in mmHg)
bp_d2	Diastolic blood pressure, 2 <sup>nd</sup> reading by nurse.	(reading in mmHg)
bp_s	Systolic blood pressure average of first two readings.	(average)
bp_d	Diastolic blood pressure average of first two readings.	(average)
bp_s3	Systolic blood pressure, 3 <sup>rd</sup> reading by doctor.	(reading in mmHg)
bp_d3	Diastolic blood pressure, 3 <sup>rd</sup> reading by doctor.	999-missing (reading)
pulse	Pulse.	999-missing (beats per minute)
glucose	Glucose, AC. AC is an average measurement of blood glucose over an extended period of time.	(mg/dL)
hb_alc	Glycosylated hemoglobin.	(% of Hb)
hemoglo	Hemoglobin.	(g/dL)

**Panel P5.3. Functionality**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>b5_1</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Stand continuously for 15 minutes.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b5_2</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Stand continuously for 2 hours.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 4-don't know 9-missing
<b>b5_3</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Squat.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 9-missing
<b>b5_4</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Raise both hands over your head.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b5_5</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Grasp or turn objects with your fingers.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b5_6</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Lift or carry something weighing 11-21 kgs (like 2 bags of rice).	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 4-don't know
<b>b5_7</b>	If no one helps you and you have no aids to help you,	0-no difficulty

	would you have trouble doing the following activities by yourself? Run a short distance (20-30 meters).	1-some difficulty 2-great difficulty 3-unable to do it 4-don't know 9-missing
<b>b5_8</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Walk from 200-300 meters.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 9-missing
<b>b5_9</b>	If no one helps you and you have no aids to help you, would you have trouble doing the following activities by yourself? Walk up 2 or 3 flights of stairs.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 9-missing
<b>b6_1</b>	Based on your health and physical condition, do you have difficulty doing the following activities by yourself? Buy personal items (like soap, toothpaste, medicine, etc).	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b6_2</b>	Based on your health and physical condition, do you have difficulty doing the following activities by yourself? Manage money, pay bills, etc.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b6_3</b>	Based on your health and physical condition, do you have difficulty doing the following activities by yourself? Ride the bus or train by yourself.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 4-don't know 9-missing
<b>b6_4</b>	Based on your health and physical condition, do you have difficulty doing the following activities by yourself? Do physical work around home and surroundings (like cleaning gutters or washing windows).	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 9-missing
<b>b6_5</b>	Based on your health and physical condition, do you have difficulty doing the following activities by yourself? Sweeping, washing dishes, taking out garbage, other light tasks.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b6_6</b>	Based on your health and physical condition, do you have difficulty doing the following activities by yourself? Make a telephone call.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it 4-don't know
<b>b7_1</b>	Please tell me if you have any difficulty doing these activities by yourself? Bathing.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b7_2</b>	Please tell me if you have any difficulty doing these activities by yourself? Dressing and undressing.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b7_3</b>	Please tell me if you have any difficulty doing these	0-no difficulty

	activities by yourself? Eating.	1-some difficulty 2-great difficulty 3-unable to do it
<b>b7_4</b>	Please tell me if you have any difficulty doing these activities by yourself? Getting out of bed, standing up, sitting in a chair.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b7_5</b>	Please tell me if you have any difficulty doing the following activities by yourself? Moving about the house.	9-missing 0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
<b>b7_6</b>	Please tell me if you have any difficulty doing these activities by yourself? Going to the toilet.	0-no difficulty 1-some difficulty 2-great difficulty 3-unable to do it
b7d	Any difficulty with 6 ADL in B7?	0-no difficulty in any of the 6 activities in b7 1-at least 1 difficulty

---

**Panel P5.4. Chronic Conditions**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>b4a_1</b>	Has a doctor ever diagnosed you with this illness? High blood pressure.	1-yes 0-no or not sure 8-not applicable 9-missing
<b>b4a_2</b>	Has a doctor ever diagnosed you with this illness? Diabetes.	1-yes 0-no or not sure 8-not applicable
b4d_2	Are you currently taking medication or getting treatment for this illness?	0-no 1-occasionally or when needed 2-often or regularly 8-not applicable
dm	History of diabetes.	0-no 1-yes
<b>b4a_3</b>	Has a doctor ever diagnosed you with this illness? Heart disease (does not include palpitations).	1-yes 0-no or not sure 8-not applicable 9-missing
chd	History of heart disease.	0-no 1-yes
<b>b4a_4</b>	Has a doctor ever diagnosed you with this illness? Stroke (cerebral hemorrhage).	1-yes 0-no or not sure 8-not applicable
<b>b4a_5</b>	Has a doctor ever diagnosed you with this illness? Cancer or malignant tumor.	1-yes 0-no or not sure 8-not applicable 9-missing
<b>b4a_6</b>	Has a doctor ever diagnosed you with this illness? Bronchitis, emphysema, pneumonia, lung disease, asthma, other lower respiratory tract diseases.	1-yes 0-no or not sure 8-not applicable

b4a_7	Has a doctor ever diagnosed you with this illness? Arthritis/rheumatism.	1-yes 0-no or not sure 8-not applicable 9-missing
b4a_8	Has a doctor ever diagnosed you with this illness? Gastric ulcer/stomach ailment.	1-yes 0-no or not sure 8-not applicable
b4a_9	Has a doctor ever diagnosed you with this illness? Liver or gall bladder disease.	1-yes 0-no or not sure 8-not applicable
b4a_10	Has a doctor ever diagnosed you with this illness? Hip fracture.	1-yes 0-no or not sure 8-not applicable 9-missing
b4a_11	Has a doctor ever diagnosed you with this illness? Cataract.	1-yes 0-no or not sure 8-not applicable 9-missing
b4a_12	Has a doctor ever diagnosed you with this illness? Kidney disease (including stones).	1-yes 0-no or not sure 8-not applicable 9-missing
b4a_13	Has a doctor ever diagnosed you with this illness? Gout.	1-yes 0-no or not sure 8-not applicable
b4a_14	Has a doctor ever diagnosed you with this illness? Spinal/vertebrae spur.	1-yes 0-no or not sure 8-not applicable 9-missing
b4a_15	Has a doctor ever diagnosed you with this illness? Other current disease (specify).	1-yes 0-no or not sure 8-not applicable 9-missing
b4a_16	Has a doctor ever diagnosed you with this illness? Other current disease (specify).	1-yes 0-no or not sure 8-not applicable 9-missing

---

*Source:* Documentation from the following source was used to compile the tables above. Goldman, N., Weinstein, M., Chang, M-C., Lin, H-S., Chang, Y-L., Lin, S-J., & Wu, S-I. Social Environment and Biomarkers of Aging Study (SEBAS) in Taiwan, 2000 and 2006. ICPSR03792-v5. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], accessed 2003, accessed 2007-01-12.

<http://www.icpsr.umich.edu/icpsrweb/NACDA/studies/03792/version/5>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Table P2.* There are a few other variables that describe the size of the current residence.

There are quite a few questions about living conditions in terms of living with other people.

*Note A, Panel P4.1.* There are additional questions about smoking in the questionnaire.

*Note A, Panel P4.2.* There are several questions about involvement in community activities in Section B of the questionnaire.



*Note A, Table P5.* There are questions regarding stress and life satisfaction in Section C of the questionnaire. There are additional questions regarding the history of illnesses and family history of illnesses including high blood pressure, high cholesterol, lung disease, stroke, cancer, etc. There are additional depression and mood questions in Section B of the questionnaire.

*Note A, Panel P5.2.* There are cognitive questions in Section B of the questionnaire.

**NOTE B.** Many of the desired variables regarding early life conditions were asked in surveys prior to the SEBAS survey and are not yet available. Mortality data are also not yet available.

## Appendix Q: US-HRS original variables

The tables below describe the original variables from the US-HRS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the US data that should be taken into account when examining the data.

**Table Q1. Respondent**

Variable	Wording of Question/Description	Scale (if applicable)
<b>HHID</b>	Household identification number.	000002-213479-household identifier range
<b>PN</b>	Personal identification number. User note: Respondent person numbers ending in 0 are generally from the original sample; respondent person numbers ending in 1 or 2 are generally new spouses or partners added since the original sample.	010 011 012 020 021 022 030 031 032 040 041
<b>GWGTHH</b>	2000 Sample Weight; Household-Level.	
<b>GWGTR</b>	2000 Sample Weight; Respondent-Level.	missing 998 dk/NA missing 999 rf
<b>GWHYoWGT</b>	2000 Why Zero Weight.	1-not cohort eligible this wave 3-nursing home resident 5-birth cohort not observed 7-inap. xWGTR greater than zero or xIWTYPE greater than one
<b>G514</b>	Proxy or self-interview?	1-self-interview 2-proxy 3-proxy
<b>G767</b>	Interview date in 2000.	(day) 1-Sunday 2-Monday 3-Tuesday 4-Wednesday5-Thursday 6-Friday 7-Saturday
<b>G768</b>	Interview date in 2000.	(month)
<b>G770</b>	Interview date in 2000.	(year)
<b>GIWTYPE</b>	2000 Interview Type.	1-core interview obtained 5-core interview not obtained

		11-exit interview obtained
		15-exit interview not obtained
		21-post-exit interview obtained
		25-post-exit interview not obtained
GPROXY	2000 Proxy Type Status.	99-not in this wave
		1-core interview obtained, was a proxy, proxy was provided by spouse or partner
		2-core interview obtained, was a proxy, proxy was not provided by spouse or partner
		5-core interview obtained, was not a proxy
		9-core interview not obtained
		11-exit interview obtained, proxy provided by spouse/partner
		12-exit interview obtained, proxy was not provided by spouse or partner, or unknown who provided proxy interview
		19-exit interview not obtained
		21-post-Exit interview obtained, proxy provided by spouse/partner
		22-post-exit interview obtained, proxy was not provided by spouse or partner, or unknown who provided proxy interview
		29-post-exit interview not obtained
WTCOHORT	Birth Cohort Used for Creating Weights.	13- 1913
		23- 1914-1923
		30-1924-1930
		36- 1931-1936
		41- 1937-1941
		47- 1942-1947
		80- 1948+
KA500	Month of 2006 interview.	
KA501	Year of 2006 interview.	

---

---

**Table Q2. Demographics (see note A)****Panel Q2.1. Gender, Age and Marital Status**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>G757</b>	Gender.	1-male 2-female
<b>G1051</b>	In what month, day, and year were you born?	1-Jan 2-Feb 3-Mar 4-Apr 5-May 6-Jun 7-Jul 8-Aug 9-Sep 10-Oct 11-Nov 12-Dec 98-dk 99-rf
<b>G1053</b>	In what month, day, and year were you born?	1880-1899-actual value (verified) 1900-1970-actual value 1971-1985-actual value (verified) 9998-dk 9999-rf
<b>G1101</b>	Current age.	(actual value) 998-dk/na 999-rf
<b>G1158</b>	Assigned marital status.	0-dk, na, rf 1-married 3-separated 4-divorced 5-widowed 6-never married 7-other, specify

---

**Panel Q2.2. Ethnicity, Race and Language**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>RACE</b>	Race/ethnicity.	0-not obtained 1-white/Caucasian 2-Black or African American 7-other
<b>HISPANIC</b>	Hispanic type.	0-Hispanic, type unknown 1-Mexican American 2-other Hispanic 5-note Hispanic
<b>G1089</b>	Do you consider yourself Hispanic or Latino?	1-yes 5-no 8-dk, na 9-rf

G1092A	Do you consider yourself primarily white or Caucasian, Black or African American, American Indian, or Asian, or something else?	1-white/Caucasian 2-Black/African American 7-Other (specify); masked version includes American Indian, Asian 8-dk, na 9-rf
--------	---	--

---

**Panel Q2.3. Education, Income and Wealth (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G1074A	What is the highest grade of school or year of college you completed?	0-for no formal education 1-11-grades 12-high school 13-15-some college 16-college graduate 17-post-college (17+ years) 97-other 98-dk, na 99-rf
DEGREE	Highest degree of education.	0-no degree 1-GED 2-high school diploma 3-two-year college degree 4-four-year college degree 5-master degree 6-professional degree (PhD, MD, JD) 9-degree unknown
SCHLYRS	Number of years in school.	0-no formal education 1-11-grades 12-high school 13-15-some college 16-college graduate 17-post-college (17+ years) 99-na
GHHINC	Imputed household income.	

---

**Panel Q2.4. Family and Household**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G1093	I need to clarify some aspect of family history. How many children have (you fathered/you given birth to)? Please don't count miscarriages or still-births, or adopted or step-children for this question.	0-15-actual value 16-94-actual value (verified) 98-dk, na 99-rf
G562	Are you and your (new) (husband/wife/partner) living in the same (nursing home/health care facility) together?	1-yes 5-no 8-dk 9-rf
G805M	In what city and state is your (house or apartment/house/apartment) currently located?	(see codebook for regional details) 1-Northeast: New England Division (ME, NH, VT, MA, RI, CT) 2-Northeast: Middle

---

Atlantic Division (NY, NJ, PA)  
 3-Midwest: East North Central Division (OH, IN, IL, MI, WI)  
 4-Midwest: West North Central Division (MN, IA, MO, ND, SD, NE, KS)  
 5-South: South Atlantic Division (DE, MD, DC, VA, WV, NC, SC, GA, FL)  
 6-South: East South Central Division (KY, TN, AL, MS)  
 7-South: West South Central Division (AR, LA, OK, TX)  
 8-West: Mountain Division (MT, ID, WY, CO, NM, AZ, UT, NV)  
 9-West: Pacific Division (WA, OR, CA, AK, HI)  
 10-US, n/a state  
 11-foreign country (includes US territories)  
 98- don't know, n/a

**Table Q3. Early Life Conditions (see note A)**  
**Panel Q3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>USBORN</b>	Born in the United States.	1-born in the United States 5-born in a foreign country 9-country of birth unknown
<b>G1061M</b>	Region and state born.	1-Northeast 2-Northeast 3-Midwest 4-Midwest 5-South 6-South 7-South 8-West 9-West 10-US, n/a state 11-foreign country not in a census division (includes US territories)
<b>G1125</b>	Were you living in a rural area most of the time when you were [in grade school/in high school/about age 10]?	1-yes 5-no 8-dk, n.a. 9-rf
<b>BIRTHMO</b>	Birth month.	0-month of birth is

		unknown
		1-January
		2-February
		3-March
		4-April
		5-May
		6-June
		7-July
		8-August
		9-September
		10-October
		11-November
		12-December
<b>BIRTHYR</b>	Birth year.	0-year of birth is unknown (year of birth)

---

**Panel Q3.2. Childhood Health and Nutrition (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G1079	Consider your health while you were growing up, from birth to age 16. Would you say that your health during that time was excellent, very good, good, fair, or poor?	1-excellent 2-very good 3-good 4-fair 5-poor 8-dk 9-rf
<b>height</b> (constructed variable from several waves of data, see note below)	Height (inches).	
G1428	About how tall are you?	(feet) 8-don't know/na 9-rf
G1429	About how tall are you?	(inches) 8-don't know/na 9-rf

---

**Panel Q3.3. Childhood SES**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G1080	Now think about your family when you were growing up, from birth to age 16. Would you say your family during that time was pretty well off financially, about average, or poor?	1-pretty well off 2-very good 3- about average 4-fair 5-poor 6 it varied (vol) 8-dk 9-rf
G1081	While you were growing up, before age 16, did financial difficulties ever cause you or your family to move to a different place?	1-yes 5-no 8-dk 9-rf

G1082	Before age 16, was there a time when you or your family received help from relatives because of financial difficulties?	1-yes 5-no 8-dk 9-rf
G1083	Before age 16, was there a time of several months or more when your father had no job?	1-yes 5-no 6-father never worked/always disabled 7-never lived with father/father was not alive 8-dk 9-rf
G1084M	What was your father's occupation when you were age 16? [IWER: Probe] What kind of work did he do? What activities did he do at work?	(father's occupation, see codebook for details) 1-Managerial specialty operation (003-037) 2-Professional specialty operation and technical support (043-235) 3-Sales (243-285)" 4-Clerical, administrative support (303-389) 5-Service: private household, cleaning and building services (403-407) 6-Service: protection (413-427) 7-Service: food preparation (433-444) 8-Health services (445-447) 9-Personal services (448-469) 10-Farming, forestry, fishing (473-499) 11-Mechanics and repair (503-549) 12-Construction trade and extractors (553-617) 13-Precision production (633-699) 14-Operators: machine (703-799) 15-Operators: transport, etc. (803-859) 16-Operators: handlers, etc. (863-889) 17-Member of Armed Forces (900) 98-dk, na 98-dk, na



G1085	Did you ever live in the same household with a grandparent for a year or more before age 17?	1-yes 5-no 8-dk 9-rf
G1087	What is the highest grade of school your father completed?	0-no formal education 1-11-grades 12-high school 13-15-some college 16-college grad 17-post college (17+ years) 97-other 98 -dk 99 -rf
G1088	And what is the highest grade of school your mother completed?	0-no formal education 1-11-grades 12-high school 13-15-some college 16-college grad 17-post college (17+ years) 97-other 98 -dk 99 -rf
G1122M	In what state or country did you live most of the time you were [in grade school/in high school/about age 10]?	1-Northeast Region: New England Division 2-Northeast Region: Middle Atlantic Division 3- Midwest Region: West North Central Division 4-Midwest Region: West North Central Division 5-South Region: South Atlanta Division 6-South Region: East South Central Division 9-West Region: Pacific Region 11- Foreign Country: Not in a census survey 97-other (specify) 98-dk 99-rf
G1125	Were you living in a rural area most of the time when you were [in grade school/in high school/about age 10]?	1-yes 5-no 8-dk, na 9-rf

---

### Table Q4. Adult Lifestyle

#### Panel Q4.1. Adult Smoking (see note A)

Variable	Wording of Question/Description	Scale (if applicable)
V298	How would you describe yourself; as a current	1-current smoker

	smoker, as a former smoker, or as someone who has never smoked?	2-former smoker 3-never smoked 8-dk 9-rf
G1399	Have you ever smoked cigarettes?	1-yes 5-no 8-dk 9-rf
<b>V501, W452, D942, E942, F1266, G1400</b>	Do you smoke cigarettes now?	1-yes 5-no 8-dk 9-rf

#### **Panel Q4.2. Adult Exercise**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>G1395</b>	On average over the last 12 months have you participated in vigorous physical activity or exercise three times a week or more? By vigorous physical activity, we mean things like sports, heavy housework, or a job that involves physical labor.	1-yes 5-no 8-dk 9-rf

#### **Panel Q4.3. Adult Alcohol Consumption**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>G1415</b>	Do you ever drink any alcoholic beverages such as beer, wine, or liquor?	1-yes 3-never have used alcohol 5-no 8-dk 9-rf

#### **Panel Q4.4. Health Care Utilization**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G2603	Aside from any hospital stays, how many times have you seen or talked to a medical doctor about your health, including emergency room or clinic visits (since Q218-PR219 previous wave IW month/Q219-PR219 previous wave IW year/in the last two years)?	(number of times) 0-zero 998-dk/NA 999-rf
G2604	Did it amount to less than 20 times, more than 20 times, or what?	1-less than 20 times 3-about 20 times 5-more than 20 times 8-dk/NA 9-rf
G2605	Did it amount to less than 5 times, more than 5 times, or what?	1-less than 5 times 3-about 5 times 5-more than 5 times 8-dk/NA 9-rf
G2606	Do you think you have seen a medical doctor about your health at least once (since Q218-PR218 previous wave IW month/Q219-PR219 previous wave IW year/in the last two years)?	1-yes 5-no 8-dk/NA 9-rf
G2607	Did it amount to less than 50 times, more than 50 times, or what?	1-less than 50 times 3-about 50 times

5-more than 50 times  
8-dk/NA  
9-rf

**Table Q5. Adult Health Outcomes (see note A)**

**Panel Q5.1. Self-Reported Health**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G1226	Next I have some questions about your health. Would you say your health is excellent, very good, good, fair, or poor?	1-excellent 2-very good 3-good 4-fair 5-poor 8-dk (don't know), not ascertained 9-rf (refused)
G1229	Compared with your health when we talked to you in <i>respondent's last interview month, year</i> would you say that your health is better now, about the same, or worse?	1-better 2-about the same 3-worse 8-dk, na 9-rf
G1233	Is it much better or somewhat better?	1-much better 2-somewhat better 8-dk, na 9-rf
G1234	Is it much worse or somewhat worse?	4-somewhat worse 5-much worse 8-dk, na 9-rf

**Panel Q5.2. Anthropometric Measures (see note A)**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
G1425	About how much do you weigh?	(pounds) 998-dk 999-rf

**Panel Q5.3. Self-Reported Health and Vignettes**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
A01_07, B 06_07	Overall, in the last 30 days, how much pain or bodily aches did you have?	1-none 2-mild 3-moderate 4-severe 5-extreme
A02_07, B 05_07	In the last 30 days, how much difficulty did you have with sleeping such as falling asleep, waking up frequently during the night or waking up too early in the morning?	1-none 2-mild 3-moderate 4-severe 5-extreme
A03_07, B 04_07	Overall, in the last 30 days, how much of a problem did you have with moving around?	1-none 2-mild 3-moderate 4-severe

A04_07, B 03_07	Overall, in the last 30 days, how much difficulty did you have with concentrating or remembering things?	5-extreme 1-none 2-mild 3-moderate 4-severe
A05_07, B02_07	In the last 30 days, how much of a problem did you have because of shortness of breath?	5-extreme 1-none 2-mild 3-moderate 4-severe
A06_07, B01_07	Overall, in the last 30 days, how much of a problem did you have with feeling sad, low, or depressed?	5-extreme 1-none 2-mild 3-moderate 4-severe
A07_07, B 07_07	Do you have any impairment or health problem that limits the kind or amount of work you can do?	5-extreme 1-none 2-mild 3-moderate 4-severe
A08_07, A10_07, A12_07, A26_07, A27_07, A28_07, A32_07, A33_07, A34_07, B21_07, B23_07, B25_07, B26_07, B27_07, B28_07, B32_07, B33_07, B34_07	Pain vignettes.	
A09_07, A11_07, A13_07, B20_07, B22_07, B24_07	Sleeping vignettes.	
A14_07, A16_07, A18_07, B15_07, B17_07, B19_07	Mobility vignettes.	
A15_07, A17_07, A19_07, B14_07, B16_07, B18_07	Cognition vignettes.	
A20_07, A24_07, B09_07, B11_07, B13_07	Respiratory vignettes.	
A21_07, A22_07, A23_07, A25_07, A29_07, A30_07, B08_07, B10_07, B12_07, B29_07, B30_07, B31_07	Depression vignettes.	

---

**Panel Q5.3. Functionality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>G2692</b>	Because of a health or memory problem do you	1=yes

	have difficulty with walking one block?	5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2695</b>	Because of a health or memory problem do you have difficulty with sitting for about two hours?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2698</b>	Because of a health or memory problem do you have difficulty getting up from a chair after sitting for long periods?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2701</b>	Because of a health or memory problem do you have difficulty climbing several flights of stairs without resting?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2704</b>	Because of a health or memory problem do you have difficulty climbing one flight of stairs without resting?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2707</b>	Because of a health or memory problem do you have difficulty stooping, kneeling, or crouching?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2710</b>	Because of a health or memory problem do you have difficulty reaching or extending your arms above shoulder level?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2713</b>	Because of a health or memory problem do you have difficulty pulling or pushing large objects like a living room chair?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2716</b>	Because of a health or memory problem do you have difficulty lifting or carrying weights over 10 pounds, like a heavy bag of groceries?	1-yes 5-no 6-can't do 7-don't do

		8-dk 9-rf
<b>G2719</b>	Because of a health or memory problem do you have difficulty picking up a dime from a table?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2725</b>	Because of a health or memory problem do you have difficulty with walking across a room?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2689</b>	Because of a health problem do you have any difficulty with walking several blocks?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2690</b>	Do you have any difficulty with running or jogging about a mile?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2723</b>	Because of a health or memory problem do you have difficulty with dressing, including putting on shoes or socks?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2742</b>	Because of a health or memory problem do you have difficulty with bathing or showering?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2752</b>	Because of a health or memory problem do you have difficulty with eating, such as cutting up your food?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2762</b>	Because of a health or memory problem do you have difficulty with getting in or out of bed?	1-yes 5-no 6-can't do 7-don't do 8-dk
		9-rf
<b>G2775</b>	Because of a health or memory problem do you	1-yes5-no

	have difficulty with using the toilet, including getting up or down?	6-can't do 7-don't do 8-dk 9-rf
<b>G2851</b>	Because of a health or memory problem, do you have any difficulty using a map to figure out how to get around in a strange place?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2860</b>	Because of a health or memory problem, do you have difficulty preparing a hot meal?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2865</b>	Because of a health or memory problem, do you have difficulty shopping for groceries?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2870</b>	Because of a health or memory problem, do you have difficulty making phone calls?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2875</b>	Because of a health or memory problem, do you have difficulty taking medications?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf
<b>G2916</b>	Because of a health or memory problem, do you have difficulty managing your money—such as paying your bills and keeping track of expenses?	1-yes 5-no 6-can't do 7-don't do 8-dk 9-rf

---

**Panel Q5.4. Chronic Conditions**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>G1238</b>	(If new interview respondent:) Has a doctor ever told you that you have high blood pressure or hypertension? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had high blood pressure or hypertension:) Our records from your last interview show that you have had high blood sugar or hypertension.	1-yes 3-disputes previous wave record, but now has condition 4-disputes previous wave record, does not have condition 5-no 8-dk

	(If reinterview respondent and respondent did not report in last interview that had high blood pressure or hypertension:) Since we talked last in <i>respondent's last interview month, year</i> , has a doctor told you that you have high blood sugar or hypertension?	9-rf
<b>G1245</b>	(If new interview respondent:) Has a doctor ever told you that you have diabetes or high blood pressure? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had diabetes or high blood pressure:) Our records (from your last interview in <i>respondent's last interview month, year</i> ) show that you have had diabetes or high blood sugar. (If reinterview respondent and respondent did not report in last interview that had diabetes or high blood pressure:) Since we talked last in <i>respondent's last interview month, year</i> , has a doctor told you that you have diabetes or high blood sugar?	1-yes 3-disputes previous wave record, but now has condition 4-disputes previous wave record, does not have condition 5-no 8-dk 9-rf
G1248	In order to treat or control your diabetes, are you now taking medication that you swallow?	1-yes 5-no 8-dk 9-rf
G1249	Are you now using insulin shots or a pump?	1-yes 5-no 8-dk 9-rf
<b>G1262</b>	(If new interview respondent:) Has a doctor ever told you that you have cancer or a malignant tumor, excluding minor skin cancers? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had cancer:) Our records from your last interview in <i>respondent's last interview month, year</i> show that you have had cancer. (If reinterview respondent and respondent did not report in last interview that had cancer:) Since we talked last in <i>respondent's last interview month, year</i> , has a doctor told you that you have cancer or a malignant tumor, excluding minor skin cancer?	1-yes 3-disputes previous wave record, but now has condition 4-disputes previous wave record, does not have condition 5-no 8-dk 9-rf
<b>G1279</b>	(If new interview respondent:) Has a doctor ever told you that you have chronic lung disease such as chronic bronchitis or emphysema? (If reinterview respondent:) Previous wave (yes/no).	1-yes 3-disputes previous wave record, but now has condition 4-disputes previous



	(If respondent reported in last interview that had lung disease:) Our records from your last interview in <i>respondent's last interview month, year</i> show that you have had chronic lung disease, such as chronic bronchitis or emphysema.	wave record, does not have condition 5-no 8-dk 9-rf
	(If reinterview respondent and respondent did not report in last interview that had lung disease:) Since we last talked with you, (that is since <i>respondent's last interview month, year,</i> ) has a doctor told you that you have chronic lung disease, such as chronic bronchitis or emphysema? (Interviewer: Do not include asthma.)	
<b>G1289</b>	(If new interview respondent:) Has a doctor ever told you that you have had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had heart problem:) Our records (from your last interview in <i>respondent's last interview month, year</i> ) show that you have had a heart problem. (If reinterview respondent and respondent did not report in last interview that had heart problem:) (Since your interview in <i>respondent's last interview month, year,</i> has a doctor told you that you have had) a heart attack, (have) coronary heart disease, angina, congestive heart failure, or other heart problems?	1-yes 3-disputes previous wave record, but now has condition 4-disputes previous wave record, does not have condition 5-no 8-dk 9-rf
<b>G1309</b>	(If new interview respondent:) Has a doctor ever told you that you had a stroke? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had stroke:) Our records (from your last interview in <i>respondent's last interview month, year</i> ) show that you have had a stroke. (If reinterview respondent and respondent did not report in last interview that had stroke:) (Since your interview in <i>respondent's last interview month, year,</i> has a doctor told you that you have had) a stroke?	1-yes 2-possible stroke or TIA (transient ischemic attack) 3-disputes previous wave record, but now has condition 4-disputes previous wave record, does not have condition 5-no 8-dk 9-rf
<b>G1327</b>	(If new interview respondent:) Has a doctor ever told you that you have arthritis or rheumatism? (If reinterview respondent:) Previous wave (yes/no). (If respondent reported in last interview that had arthritis:) Our records (from your last	1-yes 3-disputes previous record, but now has condition 4-disputes previous record, does not have condition

interview in *respondent's last interview month, year*) show that you have had arthritis.  
 (If reinterview respondent and respondent did not report in last interview that had arthritis:)  
 (Since your interview in *respondent's last interview month, year*, have you had or has a doctor told you that you have) arthritis or rheumatism?

5-no  
 8-dk  
 9-rf

---

**Panel Q5.6. Adult Mortality**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
GALIVE	2000 Vital Status, based on HRS tracking efforts.	1-alive at this wave 2-presumed alive as of this wave 5-known deceased as of this wave 6-known deceased as of prior wave 9-vital status unknown
KALIVE	2006 Vital Status, based on HRS tracking efforts.	1-alive at this wave 2-presumed alive as of this wave 5-known deceased as of this wave 6-known deceased as of prior wave 9-vital status unknown
NSCORE	National Death Index Match Score.	0-not listed as deceased in variable xNDALIVE 21-997-probabilistic match score
NMONTH	National Death Index Month of Death.	0-not listed as deceased 1-January 2-February 3-March 4-April 5-May 6-June 7-July 8-August 9-September 10-October 11-November 12-December
NYEAR	National Death Index Year of Death.	0-not listed as deceased 1992-2004-year of death

---

*Source:* Documentation from the following source was used to compile the tables above. Juster, F.T. & Willis, R.J. Health and Retirement Study (HRS). University of Michigan: Institute for Social Research [distributor]: accessed 2008-07-01, accessed 2012.  
<http://hrsonline.isr.umich.edu/>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below along with other notes particular to the tables above.

The variables for HRS 2000 all begin with “G,” earlier years start with different letters. For example, “E” for 1996 and “F” for 1998. Variables from previous years do not appear in the table (with the exception of adult smoking variables), though data may have been used to gather responses.

*Note A, Table Q2.* Variable *G562* was in the household cover screen questionnaire and was used to calculate household size. There is a variable to determine in which state the respondent was born. The variable determining the number of children was created using several waves of HRS data (variables *V145* (wave 1993), *D668* (1995), *E668* (1996), *F1006* (1998), and *G1093* (2000)).

*Note A, Panel Q2.3.* Variable *G1074A* combines data from previous waves with data from variable *G1074* (includes only information from the 2000 wave).

*Note A, Table Q3.* Most of the childhood variables were created using a subset of the 1996, 1998, and 2000 HRS data. The 2000 variables are listed in the table above.

*Note A, Panel Q3.2.* Variables regarding childhood were asked in HRS to individuals in 1996, 1998 and 2000. To construct the final childhood variables, data from HRS 1996, 1998 and 2000 were combined. Shown in the table are examples of variables found in HRS 2000. Variables from 1996 (beginning with “E”) and 1998 (beginning with “F”) are not shown in this table but were similar.

In the case of height a similar situation occurred. Height was asked of respondent during the first HRS interview. Previous waves were used to ascertain the height of respondents in HRS 2000 who had participated in HRS prior to 2000 (variables *V517* and *V518* (wave 1992 imputed), *V306* (1993), *W463* and *W464* (1994), *D958* and *D959* (1995), *E958* and *E959* (1996), *F1295* and *F1296* (1998), and *G1428* (2000)).

*Note A, Panel Q4.1.* To create a variable for smoking, several different waves of HRS had to be examined (variables *V501* (wave 1992 imputed), *V298* (1993), *W452* (1994), *D942* (1995), *E942* (1996), *F1266* (1998), and *G1400* (2000)). In 1993, the question was worded slightly different from those of the other waves in that it distinguished between those who never smoked and those who formerly smoked (1993:1-current smoker, 2-former smoker, 3-never smoked and for all other waves: 1-smoking 5-never smoke).

*Note A, Table Q5.* Variables *G1250-G1256* provide additional questions regarding diabetes.

*Note A, Panel Q5.2.* The vignettes were part of the 2006 study and done as a mail out to a subsample of respondents. There are two versions, A and B, of the vignettes (see Juster & Willis, accessed 2012). The data for the vignettes were accessed in August 2012 from the 2007 HRS Mail out Disability Vignette Study (version 1.0).

**NOTE B.**

In some instances questions were asked only during the first time a respondent was interviewed in the HRS study. These included self-reported questions on height and early childhood. To

obtain this information for a particular survey year (e.g. HRS 2000) several previous waves had to be reviewed to compile the needed information.

## Appendix R: US-WLS original variables

The tables below describe the original variables from the US-WLS survey that were used to construct variables for the cross national data set. **These variables are marked in bold.** The list of variables in the tables also includes original variables that are included in the country-specific data files but not in the cross national data set. The variables are grouped according to the same groupings used in the table of contents of the technical report. After the tables there are notes specific to the US data that should be taken into account when examining the data.

---

**Table R1. Respondent**

---

Variable	Wording of Question/Description	Scale (if applicable)
<b>idpriv</b>	Identification number for public use. This ID is the same for all respondents: i.e. graduate and sibling respondents.	
ga006re	Did Graduate Respondent complete the entire phone interview in 2003-05 or partial?	1-completed questions for entire interview 2-partial, completed through BR3+
ga016rem	Month Graduate Respondent completed telephone interview.	1-January 2-February 3-March 4-April 5-May 6-June 7-July 8-August 9-September 10-October 11-November 12-December
ga016red	Day Graduate Respondent completed telephone interview.	1-7 8-13 14-20 21-27 28-31
ga016rey	Year Graduate Respondent completed telephone interview.	2003 2004 2005
ga029re	Date Graduate Respondent's telephone interview was delivered to WLS from UWSC.	
ia004dre	Day mail survey returned.	1-6 7-12 13-18 19-25 26-31 -4-missing/not ascertained

ia004mre	Month mail survey returned.	-4-missing/not ascertained 1-January 2-February 3-March 4-April 5-May 6-June 7-July 8-August 9-September 10-October 11-November 12-December
ia004yre	Year mail survey returned.	-4-missing/not ascertained 2003 2004 2005 2006
stat04m	Outcome of 2004 graduate respondent mail interview.	1-mail returned, entire phone interview completed 2-mail returned, partial useable phone completed 3-mail returned, no useable phone completed 4-mail questionnaire sent, not returned 5-mail questionnaire not sent

**Table R2. Demographics**  
**Panel R2.1. Gender, Age and Marital Status**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
sexrsp	Sex of respondent (1957).	1-male 2-female
brdxdy	Graduate's year of birth.	11-1911 30-1930 34-1934 35-1935 36-1936 37-1937 38-1938 39-1939 40-1940 41-1941 -3-not ascertained or nonrespondent in both 1975 and 1992/93 interviews

<b>ga003re</b>	Graduate respondent's age at time of interview.	(age; range: 62-73)
<b>gc001re</b>	Current marital status.	1-currently married 2-separated 3-divorced 4-widowed 5-never married -1-don't know -3-refused -4-not ascertained

---

**Panel R2.2. Ethnicity, Race and Language**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ie008re	Is your race/origin White?	1-yes 2-no -3-refused
ie019rec	Number of races/origins graduate respondent indicated being/having.	0-none, refused all 1-one race 2-two races 3-three races
ie009re	Is your race/origin Black, African American, or Negro?	1-yes 2-no -3-refused
ie010re	Is your race/origin American Indian or Alaskan Native?	1-yes 2-no -3-refused
ie012re	Is your race/origin Asian?	1-yes 2-no -3-refused
ie014re	Is your race/origin Pacific Islander?	1-yes 2-no -3-refused
ie016re	Is your race/origin Hispanic, Latino, or Spanish?	1-yes 2-no -3-refused
ie017re	Is your race/origin something other than White, Black, African American, Negro, American Indian, Alaskan Native, Asian, Pacific Islander, Hispanic, Latino, or Spanish?	1-yes 2-no -3-refused

---



---

**Panel R2.3. Education, Income and Wealth (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
-----------------	--	------------------------------

<b>gb103red</b>	How many years of education does the graduate have based on his or her highest degree?	12-less than one year of college 13-one year of college 14-asst. degree, two years of college 15-three or more years of college 16-bachelor's degree 17-master's degree 18-two-year master's 19-professional degrees, one or more years post two-year master's 20-PhD, MD 21-post doctorate education -3-refused
<b>gb104red</b>	How many years of education does the graduate have based on his or her most recent degree?	12-less than one year of college 13-one year of college 14-asst. degree, two years of college 15-three or more years of college 16-bachelor's degree 17-master's degree 18-two-year master's 19-professional degrees, one or more years post two-year master's 20-PhD, MD -3-refused
<b>gb005rec</b>	What is the graduate's highest degree since high school?	1-associate degree 2-bachelor's degree 3-master's degree 4-doctorate or professional degree -2-inappropriate (income) -5-partial interview
<b>gp250rec</b>	Total Person Income—TPI.	(income) -5-partial interview
<b>gp260hec</b>	Total Household Income—THI.	(income) -5-partial interview

---

**Panel R2.4. Family and Household**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
-----------------	--	------------------------------



<b>gk067ss</b>	Total number of siblings ever born.	0-no siblings 1-26-one to twenty six siblings -3-not ascertained, don't know
<b>gdoo1kd</b>	Total number of respondent's children. Include biological, adopted, step or foster children as well as other. Respondent considered to be a part of his/her family.	0-no children 1-one child 2-two children 3-three children 4-four children 5-five children 6-six children 7-seven children 8-eight children 9-nine children 10-17-ten to seventeen children -2-inappropriate -4-not ascertained
gd102kd	Were there any deceased children at time of 1993 or 2004 interview?	0-at least 1 child dead by '92 interview 1-at least one by 2003-2005 interview, none in 1992 2-no children deceased by 2003-2005 interview -2-inappropriate
<b>geoo1he</b>	Number of household members. Includes respondent.	(number of members)

**Table R3. Early Life Conditions  
Panel R3.1. Birthplace**

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ie001re	In what city were you born?	"Baltimore" "Browndeer" "Coloma" "Hancock" "Menominee" "Mucsi" "Packwaukee Township" "Waterbury" "Waukegan" "Wyocena"

ie002re      In what county were you born?

“Greenbay”  
“Hamlin”  
“Houston”  
“Menominee”  
“Metarie”  
“Rusk”  
“Saskatchewan”  
“Trempe.”  
“Ventura”  
“Wauksha”

**ie003re**      In what state were you born?

-3-refused  
0-international  
1-Alabama  
2-Alaska  
3-Arizona  
4-Arkansas  
5-California  
6-Colorado  
7-Connecticut  
9-District of Columbia  
10-Florida  
11-Georgia  
14-Illinois  
15-Indiana  
16-Iowa  
17-Kansas  
18-Kentucky  
19-Louisiana  
21-Maryland  
22-Massachusetts  
23-Michigan  
24-Minnesota  
25-Mississippi  
26-Missouri  
27-Montana  
28-Nebraska  
29-Nevada  
31-New Jersey  
32-New Mexico  
33-New York  
34-North Carolina  
36-Ohio  
37-Oklahoma  
38-Oregon  
39-Pennsylvania  
41-South Carolina  
42-South Dakota  
43-Tennessee

ie004re	Were you born in Wisconsin?	44-Texas 46-Vermont 48-Washington 49-West Virginia 50-Wisconsin 51-Wyoming 1-yes, born in Wisconsin 2-no, born outside Wisconsin -3-refused
rlur57	1957 population of town in which graduate attended high school with urban-rural distinction.	1-rural, graduate's father a farmer 2-under 1,000 3-1,000-2,499 4-2,500-9,999 5-10,000-24,999 6-25,000-49,999 7-50,000-99,999 8-100,000-150,000 (Madison) 9-Over 150,000 (Milwaukee)
cmbrdx	Graduate's century month of birthdate.	(century month; range: 139-499) -3-not ascertained or nonrespondent in both 1975 and 1992/93 interviews

---

### Panel R3.2. Childhood Health

---

Variable	Wording of Question/Description	Scale (if applicable)
ixc01rer	How would you rate your health as a child?	1-poor 2-fair 3-good 4-very good 5-excellent -3-refused
iv205rer	We would like to ask you about some of your experiences growing up—until you were 18 years old. My parents encouraged me to go to college.	1-never 2-rarely 3-sometimes 4-often 5-very often -3-refused
iv206rer	We would like to ask you about some of your experiences growing up—until you were 18 years old. I saw a parent or one of my brothers or sisters get beaten in my home.	1-never 2-rarely 3-sometimes 4-often 5-very often -3-refused

iv207rer	We would like to ask you about some of your experiences growing up—until you were 18 years old. I knew that there was someone to take care of me and protect me.	1-never 2-rarely 3-sometimes 4-often 5-very often -3-refused -1-don't know
iv208rer	The following questions are about how your father (or step/foster father) treated you while growing up—until you were 18 years old. My father (or step/foster father) insulted or swore at me.	1-not at all 2-a little 3-some 4-a lot -3-refused -1-don't know
iv209rer	The following questions are about how your father (or step/foster father) treated you while growing up—until you were 18 years old. My father (or step/foster father) slapped, shoved or threw things at me.	1-not at all 2-a little 3-some 4-a lot -3-refused -1-don't know
iv210rer	The following questions are about how your father (or step/foster father) treated you while growing up—until you were 18 years old. My father (or step/foster father) treated me in a way I would now consider physical abuse.	1-not at all 2-a little 3-some 4-a lot -3-refused -1-don't know
iv211rer	The following questions are about how your mother (or step/foster mother) treated you while growing up—until you were 18 years old. My mother (or step/foster mother) insulted or swore at me.	1-not at all 2-a little 3-some 4-a lot -3-refused
iv212rer	The following questions are about how your mother (or step/foster mother) treated you while growing up—until you were 18 years old. My mother (or step/foster mother) slapped, shoved or threw things at me.	1-not at all 2-a little 3-some 4-a lot -3-refused
iv213rer	The following questions are about how your mother (or step/foster mother) treated you while growing up—until you were 18 years old. My mother (or step/foster mother) treated me in a way I would now consider physical abuse.	1-not at all 2-a little 3-some 4-a lot -3-refused
ixco2rer	Did you have asthma as a child?	1-yes 2-no -1-don't know -3-refused
ixco3rer	Did you have frequent ear infections as a child?	1-yes 2-no -1-don't know -3-refused

ixc04rer	Did you have your tonsils and/or adenoids removed as a child?	1-yes 2-no -1-don't know -3-refused
ixc05rer	Did you have chronic bronchitis as a child?	1-yes 2-no -1-don't know -3-refused
ixc06rer	Did you have whooping cough/pertussis as a child?	1-yes 2-no -1-don't know -3-refused
ixc07rer	Did you have polio as a child?	1-yes 2-no -1-don't know -3-refused
ixc08rer	Did you have diphtheria as a child?	1-yes 2-no -1-don't know -3-refused
ixc09rer	Did you have hepatitis as a child?	1-yes 2-no -1-don't know -3-refused
ixc10rer	Did you have pneumonia as a child?	1-yes 2-no -1-don't know -3-refused
ixc11rer	Did you have meningitis as a child?	1-yes 2-no -1-don't know -3-refused
ixc12rer	Did you have mono/infectious mononucleosis as a child?	1-yes 2-no -1-don't know -3-refused
ixc13rer	Through age 16, did you ever miss school for 1 month or more because of a health condition?	1-yes 2-no -3-refused
ixc14rer	Through age 16, were you ever confined to bed or home for 1 month or more because of a health condition?	1-yes 2-no -1-don't know -3-refused
ixc15rer	Through age 16, were your sports or physical activities ever restricted for 3 months or more because of a health condition?	1-yes 2-no -3-refused

ixc16are	What was the most serious health condition that caused you to miss school for 1 month or more, be confined to bed or home for 1 month or more, or be restricted from sports or physical activities for 3 months or more? These are ICD-9 and ICF codes.	2-7081-ICD-9/ICF Code -1-don't know -2-inappropriate -3-refused -18-could not code
ixc16bre	What was the most serious health condition that caused you to miss school for 1 month or more, be confined to bed or home for 1 month or more, or be restricted from sports or physical activities for 3 months or more? These are collapsed ICD-9 and ICF codes.	10-infectious and parasitic diseases 20-neoplasms 30-endocrine, nutritional, metabolic, immunity 40-blood and blood-forming organs 50-mental disorders 60-nervous system and sense organs 70-circulatory system 80-respiratory systems 90-digestive system 100-genitourinary system 120-skin and subcutaneous tissue 130-musculoskeletal system and connective tissue 140-congenital anomalies 150-condition in the perinatal period 160-symptoms, signs, and ill-defined conditions 170-injury and poisoning 180-ICD-9 E Codes 190-ICD-9 V Codes 200-IDC-9 Volume 3 Headings 230-ICF Activities and Participation 240-ICF Environmental Factors -1-don't know -2-inappropriate -3-refused -18-could not code

---

**Panel R3.3. Childhood Nutrition (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ix010rec	Graduate respondent's total height in inches.	(height in inches) -2-inappropriate -4-not ascertained
ix010fre	How tall are you: feet component?	(feet) -3-refused -4-not ascertained

ix010ire	How tall are you: inches component?	(height in inches) -3-refused -4-not ascertained
ix011rec	Body Mass Index based on Graduate Respondent's weight and height.	(Body mass index, range: 12-64) -2-inappropriate -4-not ascertained

---

**Panel R3.4. Childhood SES**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
dadocc1	Father's occupation, by broad category. First category chosen.	1-office work 2-professional 3-executive 4-factory worker 5-salesman 6-owns/manages small business 7-owns/manages farm 8-other occupation (specify) -3-blank, no info provided
dadocc2	Father's occupation, by broad category. Second category chosen.	3-executive 4-factory worker 5-salesman 6-owns/manages small business 7-owns/manages farm 8-other occupation (specify) -3-blank, no info provided
<b>edfa57q</b>	Father's years of schooling.	7-did not attend high school 10-attended high school 12-graduated from high school 13-attended trade or business school 14-attended college 16-graduated from college 18-has masters or PhD -1-don't know -3-not ascertained
edm057q	Mother's years of schooling.	7-did not attend high school 10-attended high school 12-graduated from high school 13-attended trade or business school 14-attended college 16-graduated from college 18-has masters or PhD -1-don't know -3-not ascertained

<b>ocf57</b>	Father's occupation by general category.	1-unskilled or not ascertained 2-farming 3-skilled 4-white collar 5-professional or executive
--------------	--	---

## Table R4. Adult Lifestyle

### Panel R4.1. Adult Smoking

Variable	Wording of Question/Description	Scale (if applicable)
<b>ixt01rer</b>	Have you ever smoked a pipe or cigars, or used snuff or chewing tobacco regularly in your entire life?	1-yes 2-no -3-refused
<b>ix012rer</b>	Have you ever smoked cigarettes regularly in your entire life?	1-yes 2-no -3-refused
ix013rec	Does Graduate Respondent currently smoke?	1-yes 2-no -2-inappropriate
ix014rer	For how many years has Graduate Respondent smoked, or did Respondent smoke regularly?	(years, range: 1-57) -2-inappropriate
ix015rer	About how many packs did you usually smoke per day when you smoked regularly, or how many packs do you smoke a day now?	(number of packs) -2-inappropriate -3-refused
ixt02rer	Up until you were 16 years old, did anyone in your household, other than yourself, smoke?	1-yes 2-no -3-refused
ixt03rer	Up until you were 16 years old, did your mother smoke?	1-yes 2-no -3-refused
ixt04rer	Up until you were 16 years old, did your father smoke?	1-yes 2-no -3-refused
ixt05rer	Up until you were 16 years old, did someone in your household other than your parents smoke?	1-yes 2-no -3-refused
ixt06rer	How old were you when you started smoking regularly?	(age) -1-don't know -2-inappropriate -3-refused
<b>ixt07rer</b>	How often do you smoke now?	1-everyday 2-some days 3-not at all -2-inappropriate -3-refused



ixto8rer	On average, how many packs do you smoke a day?	(number of packs rounded to quarter packs) -2-inappropriate -3-refused
ixto9rer	For how many years have you been smoking the average number of packs a day you smoke now?	(number of years rounded to whole years) -1-don't know -2-inappropriate -3-refused
ixt10rer	About how many packs did you usually smoke per day when you smoked regularly?	(number of packs rounded to quarter packs) -2-inappropriate -3-refused
ixt11rer	How old were you when you last smoked cigarettes?	(age) -1-don't know -2-inappropriate -3-refused
ixt12rer	Does anyone, other than yourself, regularly smoke cigarettes or other tobacco products inside your home?	1-yes 2-no -3-refused

---

**Panel R4.2. Adult Exercise (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ixe01rer	How many hours per month do you participate in light physical activities, either alone or with others?	(number of hours) -2-inappropriate
<b>ixe02rer</b>	How many hours per month do you participate in vigorous physical activities, either alone or with others?	(number of hours) -2-inappropriate
iz165rer	During the past year, how many hours per month did you spend doing light physical activities that you do alone, such as light housework, gardening, or walking by yourself?	(number of hours) -3-refused -1-don't know
iz168rer	During the past year, how many hours per month did you spend doing light physical activities that you do with others, such as walking with friends, bowling, playing softball or other team sports with light activity?	(number of hours) -3-refused -1-don't know
iz171rer	During the past year, how many hours per month did you spend doing vigorous physical activities that you do alone, such as jogging, swimming, biking, or going to the gym by yourself?	(number of hours) -3-refused -1-don't know
iz174rer	During the past year, how many hours per month did you spend doing vigorous physical activities that you do with others such as jogging, swimming, biking, or going to the gym with friends or playing team sports?	(number of hours) -3-refused -1-don't know

---

<b>Panel R4.3. Adult Alcohol Consumption</b>		
<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ixabo1re	Do you ever drink alcoholic beverages?	1-yes 2-no -3-refused -4-not ascertained
ixab11re	When you feel lonely does having a drink help?	1-yes 2-no -2-inappropriate -3-refused
ixabo2re	When talking with others, do you ever underestimate how much you actually drink?	1-yes 2-no -2-inappropriate -3-refused
ixabo3re	After a few drinks, have you sometimes not eaten or been able to skip a meal because you didn't feel hungry?	1-yes 2-no -2-inappropriate -3-refused
ixabo4re	Does having a few drinks help decrease your shakiness or tremors?	1-yes 2-no -2-inappropriate -3-refused
ixabo5re	Does alcohol sometimes make it hard for you to remember parts of the day or night?	1-yes 2-no -2-inappropriate -3-refused
ixabo6re	Do you usually take a drink to relax or calm your nerves?	1-yes 2-no -2-inappropriate -3-refused
ixabo7re	Do you drink to take your mind off your problems?	1-yes 2-no -2-inappropriate -3-refused
ixabo8re	Have you ever increased your drinking after experiencing a loss in your life?	1-yes 2-no -2-inappropriate -3-refused
ixabo9re	Has a doctor or nurse ever said they were worried or concerned about your drinking?	1-yes 2-no -2-inappropriate -3-refused
ixab10re	Have you ever made rules to manage your drinking?	1-yes 2-no -2-inappropriate -3-refused

---

**Panel R4.4. Health Care Utilization**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ixhi01re	In the past 12 months, have you seen a doctor or health professional in an office, clinic, or health center, not including visits to mental health professionals?	1-yes 2-no -3-refused
ixhi03re	In the past 12 months, how many different times have you seen a doctor or health professional in an office, clinic, or health center, not including visits to mental health professionals?	(number of visits; range: 1-302) -1-don't know -2-inappropriate -3-refused
ix1201re	In the last 12 months, have you had a complete health exam or physical?	1-yes 2-no -3-refused

---

---

**Table R5. Adult Health Outcomes (see note A)**

---

**Panel R5.1. Self-Reported Health**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>gx201re</b>	In general, would you say your health is excellent, very good, good, fair, or poor?	1-excellent 2-very good 3-good 4-fair 5-poor -1-don't know -3-refused
<b>ix001rer</b>	How would you rate your health at the present time?	1-very poor 2-poor 3-fair 4-good 5-excellent -4-not ascertained -3-refused
ix002rer	How would you rate your health compared with other people your same age and sex?	1-very poor 2-poor 3-fair 4-good 5-excellent -1-don't know -3-refused
ix003rer	Compared with 10 years ago, how would you rate your health?	1-much worse 2-somewhat worse 3-about the same 4-somewhat better 5-much better -3-refused

ix004rer	Compared with 10 years ago, how would you rate your appearance?	1-much worse 2-somewhat worse 3-about the same 4-somewhat better 5-much better -3-refused
----------	---	--

---

**Panel R5.2. Anthropometric Measures (see note A)**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ix009rer	How much do you weigh in pounds?	-4-not ascertained -3-refused -1-don't know 85-146 169-189 190-212 213-375

---

**Panel R5.3. Self-Reported Health and Vignettes**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
ixaa1rer	Name of the person in the World Health Survey Affect A vignette.	1-James 2-Judith -4-not ascertained -2-inappropriate
ixab1rer	Name of the person in the World Health Survey Affect B vignette.	1-John 2-Barbara -4-not ascertained -2-inappropriate
ixac1rer	Name of the person in the World Health Survey Affect C vignette.	1-James 2-Judith 3-John 4-Barbara -4-not ascertained -2-inappropriate
ixad1rer	Name of the person in the World Health Survey Affect D vignette.	1-James 2-Judith 3-John 4-Barbara -4-not ascertained -2-inappropriate
ixma1rer	Name of the person in the World Health Survey Mobility A vignette.	1-Richard 2-Carol -4-not ascertained -2-inappropriate
ixmb1rer	Name of the person in the World Health Survey Mobility B vignette.	1-Robert 2-Mary -4-not ascertained -2-inappropriate
ixmc1rer	Name of the person in the World Health Survey Mobility C vignette.	1-Robert 2-Mary 3-Richard 4-Carol -4-not ascertained -2-inappropriate

ixmd1rer	Name of the person in the World Health Survey Mobility D vignette.	1-Robert 2-Mary 3-Richard 4-Carol -4-not ascertained -2-inappropriate
ix3001re	Overall in the last 30 days, how much of a problem did you have with moving around?	1-none 2-mild 3-moderate 4-severe 5-extreme -3-refused
ix3002re	Overall in the last 30 days, how much difficulty did you have in vigorous activities, such as running two miles or cycling?	1-none 2-mild 3-moderate 4-severe 5-extreme -3-refused -1-don't know
ix3003re	Overall in the last 30 days, how much of a problem did you have with feeling sad, low or depressed?	1-none 2-mild 3-moderate 4-severe 5-extreme -3-refused
ix3004re	Overall in the last 30 days, how much of a problem did you have with worry or anxiety?	1-none 2-mild 3-moderate 4-severe 5-extreme -3-refused
ixaa2rer, ixab2rer, ixac2rer, ixad2rer	Depression vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme -4-not ascertained -3-refused -2-inappropriate -1-don't know
ixaa3rer, ixab3rer, ixac3rer, ixad3rer	Anxiety vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme -4-not ascertained -3-refused -2-inappropriate -1-don't know

ixma2rer, ixmb2rer, ixmc2rer, ixmd2rer	Mobility vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme -4-not ascertained -3-refused -2-inappropriate -1-don't know
ixma3rer, ixmb3rer, ixmc3rer, ixmd3rer	Vigorous activities vignettes.	1-none 2-mild 3-moderate 4-severe 5-extreme -4-not ascertained -3-refused -2-inappropriate -1-don't know

---

**Panel R5.2. Functionality**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
gx340re	Because of any impairment or health problems, do you need the help of other persons in handling routine needs?	1-yes 2-no -3-refused
ixcho1re	Does your health limit moderate activities, such as moving a table, pushing a vacuum cleaning, bowling, or playing golf?	1-yes, limited a lot 2-yes, limited a little 3-no, not limited at all -3-refused
ixcho2re	Does your health limit climbing several flights of stairs?	1-yes, limited a lot 2-yes, limited a little 3-no, not limited at all -3-refused -1-don't know
<b>ixcho3re</b>	Does your health limit lifting or carrying something as heavy as 10 lbs., such as a bag of groceries?	1-yes 2-no -3-refused
<b>ixcho4re</b>	Does your health limit lifting or carrying something as heavy as 25 lbs., such as a bag of pet food?	1-yes 2-no -3-refused -1-don't know
<b>ixcho5re</b>	Does your health limit pushing or pulling large objects such as a living room chair?	1-yes 2-no -3-refused
<b>ixcho6re</b>	Does your health limit standing or being on your feet for one hour?	1-yes 2-no -3-refused

<b>ixcho7re</b>	Does your health limit sitting for one hour?	1-yes 2-no -3-refused
<b>ixcho8re</b>	Does your health limit stooping, crouching, or kneeling?	1-yes 2-no -3-refused
<b>ixcho9re</b>	Does your health limit reaching over your head?	1-yes 2-no -3-refused

---

**Panel R5.3. Chronic Conditions**

---

<b>Variable</b>	<b>Wording of Question/Description</b>	<b>Scale (if applicable)</b>
<b>gx341re</b>	Has a doctor every told you that you have high blood pressure or hypertension?	1-yes 2-no -1-don't know -3-refused
<b>gx342re</b>	Has a doctor ever told you that you have diabetes?	1-yes 2-no -1-don't know -3-refused
gx343re	In what year were you first diagnosed with diabetes?	(year) -1-don't know -2-inappropriate -3-refused
gx344re	In order to treat or control your diabetes, are you now taking medications that you swallow?	1-yes 2-no -2-inappropriate -3-refused
gx345re	In order to treat or control your diabetes, are you now using insulin shots or a pump?	1-yes 2-no -2-inappropriate -3-refused
gx346re	Has a doctor every told you that you have high blood sugar?	1-yes 2-no -1-don't know -2-inappropriate -3-refused
gx347re	In what year were you first diagnosed with high blood sugar?	(year) -1-don't know -2-inappropriate
<b>gx348re</b>	Has a doctor ever told you that you have cancer or a malignant tumor, not including minor skin cancers?	1-yes 2-no -1-don't know -3-refused
gx349re	In what year was your cancer or malignant tumor, not including minor skin cancers, diagnosed?	(year) -1-don't know -2-inappropriate

gx350ere	Organ or part of graduate's body first cancer or malignant tumor occurred. This is only the colon, female breast, or prostate.	1-malignant neoplasm of color 2-malignant neoplasm of female breast 3-malignant neoplasm or prostate -2-inappropriate
<b>ix085rer</b>	Has a medical professional ever said that you have asthma?	1-yes 2-no -1-don't know -3-refused
<b>ix089rer</b>	Has a medical professional ever said that you have chronic bronchitis/emphysema?	1-yes 2-no -3-refused
<b>gx351re</b>	Has a doctor ever told you that you had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems?	1-yes 2-no -1-don't know -3-refused
gx352re	Did you have a heart attack or myocardial infarction?	1-yes 2-no -1-don't know -2-inappropriate -3-refused
gx353re	In what year did you have your most recent heart attack or myocardial infarction?	(year) -1-don't know -2-inappropriate
gx354re	Have you ever had a special test or treatment of your heart where tubes were inserted into your veins or arteries—i.e. cardiac catheterization, coronary angiogram, or angioplasty?	1-yes 2-no -1-don't know -2-inappropriate
gx355re	Have you ever had surgery on your heart?	1-yes 2-no -1-don't know -2-inappropriate
<b>gx356re</b>	Has a doctor every told you that you had a stroke?	1-yes 2-no -1-don't know -3-refused
gx357re	In what year did you last have a stroke?	(year) -1-don't know -2-inappropriate
gx358re	Do you still have any remaining health problems because of your stroke, such as muscle weakness or difficulty speaking?	1-yes 2-no -2-inappropriate
gx359re	Do you sometimes have pain, stiffness, or swelling in your joints?	1-yes 2-no -1-don't know -3-refused



<b>gx360re</b>	Have you ever had, or has a doctor ever told you that you have, arthritis or rheumatism?	1-yes 2-no -1-don't know -3-refused
gx361re	Have you ever been diagnosed with a mental illness?	1-yes 2-no -1-don't know -3-refused
gx362bre	What was the specific diagnosis of your second mental illness? These are ICD-9 codes.	(codes; range: 290-780) -2-inappropriate
ix090rer	How much does your chronic bronchitis/emphysema currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix142rer	Has a medical professional ever said that you have chronic sinus problems?	1-yes 2-no -1-don't know -3-refused
ix142are	How old were you when you were first diagnosed with chronic sinus problems?	(age) -1-don't know -2-inappropriate -3-refused
ix143rer	How much do your chronic sinus problems currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix103rer	Has a medical professional ever said that you have circulation problems?	1-yes 2-no -3-refused
ix103are	How old were you when you were first diagnosed with circulation problems?	(age) -1-don't know -2-inappropriate -3-refused
ix104rer	How much do your circulation problems currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix144rer	Has a medical professional ever said that you have fibromyalgia?	1-yes 2-no -1-don't know -3-refused

ix144are	How old were you when you were first diagnosed with fibromyalgia?	(age) -1-don't know -2-inappropriate -3-refused
ix145rer	How much does your fibromyalgia currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix146rer	Has a medical professional ever said that you have high cholesterol?	1-yes 2-no -3-refused
ix146are	How old were you when you were first diagnosed with high cholesterol?	(age) -1-don't know -2-inappropriate -3-refused
ix147rer	How much does your high cholesterol currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix148rer	Has a medical professional ever said that you have irritable bowel syndrome?	1-yes 2-no -1-don't know -3-refused
ix148are	How old were you when you were first diagnosed with irritable bowel syndrome?	(age) -1-don't know -2-inappropriate -3-refused
ix149rer	How much does your irritable bowel syndrome currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix105rer	Has a medical professional ever said that you have kidney/bladder problems?	1-yes 2-no -3-refused
ix105are	How old were you when you were first diagnosed with kidney/bladder problems?	(age) -1-don't know -2-inappropriate -3-refused

ix106rer	How much do your kidney/bladder problems currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix111rer	Has a medical professional ever said that you have multiple sclerosis?	1-yes 2-no -3-refused
ix111are	How old were you when you were first diagnosed with multiple sclerosis?	(age) -2-inappropriate -3-refused
ix112rer	How much does your multiple sclerosis currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix150rer	Has a medical professional ever said that you have osteoporosis?	1-yes 2-no -3-refused
ix150are	How old were you when you were first diagnosed with osteoporosis?	(age) -2-inappropriate -3-refused
ix151rer	How much does your osteoporosis currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix097rer	Has a medical professional ever said that you have serious back trouble?	1-yes 2-no -3-refused
ix097are	How old were you when you were first diagnosed with serious back trouble?	(age) -1-don't know -2-inappropriate -3-refused
ix098rer	How much does your serious back trouble currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix107rer	Has a medical professional ever said that you have an ulcer?	1-yes 2-no -3-refused

ix107are	How old were you when you were first diagnosed with an ulcer?	(age) -2-inappropriate -3-refused
ix018rer	How much does you ulcer currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ix152rer	Has a medical professional ever said that you have prostate problems?	1-yes 2-no -1-don't know -2-inappropriate -3-refused
ix152are	How old were you when you were first diagnosed with prostate problems?	(age) -2-inappropriate -3-refused
ix153rer	How much do prostate problems currently interfere with what you like to do?	1-not at all 2-very little 3-some 4-quite a bit 5-a great deal -2-inappropriate -3-refused
ixfo8rer	Has your biological father had diabetes/high blood sugar?	1-yes 2-no -1-don't know -2-inappropriate -3-refused
ixmo8rer	Has your biological mother had diabetes/high blood sugar?	1-yes 2-no -1-don't know -2-inappropriate -3-refused
ixbo8rer	Have any of your biological brothers had diabetes/high blood sugar?	1-yes 2-no -1-don't know -2-inappropriate -3-refused
ixso8rer	Have any of your biological sisters had diabetes/high blood sugar?	1-yes 2-no -1-don't know -2-inappropriate -3-refused

---

### Panel R5.5. Adult Mortality

Variable	Wording of Question/Description	Scale (if applicable)
gw006ifc	Cause of Graduate's death. These are collapsed ICD-9	-18-unable to code

codes.

		-1-don't know 10-infectious & parasitic diseases 20-neoplasms 30-endocrine, nutritional, metabolic, immunity 40-blood & blood-forming organs 60-nervous system & sense organs 70-circulatory system 80-respiratory system 90-digestive system 160-symptoms, signs & ill-defined conditions 170-injury & poisoning 180-E codes
<b>livgrad</b>	Is the graduate alive as of current release as far as we know?	1-yes, respondent is not known to be deceased 2-no, respondent is deceased
<b>deatyr</b>	Year of graduate's death.	-9-missing -4-not ascertained -2-inappropriate 1957-2011-year of death
<b>deatmn</b>	Month of graduate's death.	-4-not ascertained -2-inappropriate 1-12-month of death
<b>ndio1</b>	Graduate's NDI state of death.	1-Alabama 2-Alaska 3-Arizona 4-Arkansas 5-California 6-Colorado 7-Conecticut 9-District of Columbia 10-Florida 11-Georgia 12-Hawaii 13-Idaho 14-Illinois 15-Indiana 16-Iowa 17-Kansas 18-Kentucky

19-Louisiana  
 21-Maryland  
 22-Massachusetts  
 23-Michigan  
 24-Minnesota  
 25-Mississippi  
 26-Missouri  
 27-Montana  
 28-Nebraska  
 29-Nevada  
 31-New Jersey  
 32-New Mexico  
 33-New York  
 34-North Carolina  
 35-North Dakota  
 36-Ohio  
 37-Oklahoma  
 38-Oregon  
 39-Pennsylvania  
 41-South Carolina  
 42-South Dakota  
 43-Tennessee  
 44-Texas  
 45-Utah  
 47-Virginia  
 48-Washington  
 49-West Virginia  
 50-Wisconsin  
 51-Wyoming

**ndio2** Graduate's NDI ICD-9/ICD-10 cause of death.

"2396"  
 "2740"  
 "4029"  
 "7100"  
 "8902"  
 "C20"  
 "C259"  
 "C831"  
 "L089"

**ndio3** Graduate's NDI ICD-9/ICD-10 selected causes of death  
282/358 recodes.

"04100"  
 "06300"  
 "093"  
 "20700"  
 "27800"  
 "29800"  
 "31800"  
 "32500"  
 "34200"

<b>ndio4</b>	Graduate's NDI ICD-9/ICD-10 selected causes of death 17/113 recodes.	"018" "028" "034" "040" "052" "071" "075" "120" "670"
<b>ndio5</b>	Graduate's NDI number of entity-axis conditions.	0 1 2 3 4 5 6 7 8 9 10 11 12
<b>ndio6</b>	Graduate's NDI 1 <sup>st</sup> entity-axis condition.	-2-inappropriate "11038990" "1134810" "114510" "11C300" "11C950" "11M009" "11R042" "11T864" "11T983"
<b>ndio7</b>	Graduate's NDI 2 <sup>nd</sup> entity-axis condition.	-2-inappropriate "2157280" "229331" "22C349" "3104490" "3142410" "3157110" "31E119" "31I10" "31I350"
<b>ndio8</b>	Graduate's NDI 3 <sup>rd</sup> entity-axis condition.	-2-inappropriate "2157280" "229331" "22C349" "3104490"

		“3142410”
		“3157110”
		“31E119”
		“31I10”
		“31I350”
<b>ndi09</b>	Graduate’s NDI 4 <sup>th</sup> entity-axis condition.	-2-inappropriate
		“3115090”
		“32D619”
		“41C259”
		“41Y832”
		“6199471”
		“6224490”
		“6294901”
		“62D738”
		“62N390”
<b>ndi10</b>	Graduate’s NDI 5 <sup>th</sup> entity-axis condition.	-2-inappropriate
		“413300”
		“6103100”
		“6144290”
		“6219690”
		“63G35”
		“63W10”
		“64I269”
		“64I719”
		“64J984”
<b>ndi11</b>	Graduate’s NDI 6 <sup>th</sup> entity-axis condition.	-2-inappropriate
		“248681”
		“3419700”
		“5120190”
		“61I255”
		“6219910”
		“62K529”
		“62N289”
		“63X59”
		“64Q120”
<b>ndi12</b>	Graduate’s NDI 7 <sup>th</sup> entity-axis condition.	-2-inappropriate
		“615860”
		“6170700”
		“62N179”
		“62N180”
		“63I500”
		“63J90”
		“6436900”
		“645660”
		“64I069”



<b>ndi13</b>	Graduate's NDI 8 <sup>th</sup> entity-axis condition.	-2-inappropriate "62J439" "6334830" "63E149" "63E669" "63G20" "63I739" "6534410" "65I059"
<b>ndi14</b>	Graduate's NDI 9 <sup>th</sup> entity-axis condition.	-2-inappropriate "3495871" "3635920" "5251880" "6357220" "6455330" "6487890" "64E149" "64I99" "64M139" "67R628"
<b>ndi15</b>	Graduate's NDI 10 <sup>th</sup> entity-axis condition.	-2-inappropriate "617990" "619241" "6424490" "65F171" "68F179"
<b>ndi16</b>	Graduate's NDI 11 <sup>th</sup> entity-axis condition.	-2-inappropriate "629191" "66F179"
<b>ndi17</b>	Graduate's NDI 12 <sup>th</sup> entity-axis condition.	-2-inappropriate "6381190"
<b>ndi18</b>	Graduate's NDI 13 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi19</b>	Graduate's NDI 14 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi20</b>	Graduate's NDI 15 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi21</b>	Graduate's NDI 16 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi22</b>	Graduate's NDI 17 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi23</b>	Graduate's NDI 18 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi24</b>	Graduate's NDI 19 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi25</b>	Graduate's NDI 20 <sup>th</sup> entity-axis condition.	-2-inappropriate
<b>ndi26</b>	Graduate's NDI number of record-axis conditions.	0 1 2 3 4 5 6 7

		8
		9
		10
		11
<b>ndi27</b>	Graduate's NDI 1 <sup>st</sup> record-axis condition.	-2-inappropriate "19690" "20280" "27730" "27800" "33300" "C20" "C259" "C831" "L089"
<b>ndi28</b>	Graduate's NDI 2 <sup>nd</sup> record-axis condition.	-2-inappropriate "20280" "27800" "95500" "97791" "C20" "C259" "I442" "K922" "T909"
<b>ndi29</b>	Graduate's NDI 2 <sup>nd</sup> record-axis condition.	-2-inappropriate "56980" "58290" "72740" "95500" "E112" "I442" "I469" "K922" "R570"
<b>ndi30</b>	Graduate's NDI 4 <sup>th</sup> record-axis condition.	-2-inappropriate "57330" "74550" "95500" "95991" "97791" "G35" "I469" "L089" "R570"

<b>ndi31</b>	Graduate's NDI 5 <sup>th</sup> record-axis condition.	-2-inappropriate "57890" "95500" "99681" "I442" "I469" "K922" "M480" "R570" "W08"
<b>ndi32</b>	Graduate's NDI 6 <sup>th</sup> record-axis condition.	-2-inappropriate "42750" "78720" "79910" "95841" "99661" "I490" "K650" "M519" "R570"
<b>ndi33</b>	Graduate's NDI 7 <sup>th</sup> record-axis condition.	-2-inappropriate "51190" "55330" "57280" "57380" "9120" "I679" "R529" "R570" "R579"
<b>ndi34</b>	Graduate's NDI 8 <sup>th</sup> record-axis condition.	-2-inappropriate "51880" "57890" "58450" "79190" "79910" "8731" "9331" "R579" "R628" "W80" "X04" "Y832"

<b>ndi35</b>	Graduate's NDI 9 <sup>th</sup> record-axis condition.	-2-inappropriate "57680" "5860" "79910" "8821" "99811" "T818"
<b>ndi36</b>	Graduate's NDI 10 <sup>th</sup> record-axis condition.	-2-inappropriate "78550" "9191" "Y839"
<b>ndi37</b>	Graduate's NDI 11 <sup>th</sup> record-axis condition.	-2-inappropriate "9241"
<b>ndi38</b>	Graduate's NDI 12 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi39</b>	Graduate's NDI 13 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi40</b>	Graduate's NDI 14 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi41</b>	Graduate's NDI 15 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi42</b>	Graduate's NDI 16 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi43</b>	Graduate's NDI 17 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi44</b>	Graduate's NDI 18 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi45</b>	Graduate's NDI 19 <sup>th</sup> record-axis condition.	-2-inappropriate
<b>ndi46</b>	Graduate's NDI 20 <sup>th</sup> record-axis condition.	-2-inappropriate

---

*Source:* Documentation from the following source was used to compile the tables above. Herd, P., Hauser, R.M., Herd, P., & Sewell, W.H. Wisconsin Longitudinal Study (WLS) [graduates, siblings, and spouses]. 1957-2005 Version 12.27 [machine-readable data file]. Madison, WI: University of Wisconsin-Madison, WLS [distributor], accessed 2012-07-01.  
<http://www.ssc.wisc.edu/wlsresearch/>, <http://www.ssc.wisc.edu/wlsresearch/documentation/>.

*Notes:*

**NOTE A.** There are several additional variables which may be of interest but which are not included in the country-specific data file. A description of these variables appears below.

*Note A, Panel R2.3.* The mailed survey has two versions of the SES ladder, comparing the respondent to others in the United States and others in the respondent's community.

*Note A, Panel R3.3.* To get total height, the feet and inches components must be combined. There are several questions about how the respondent is feeling in the mailed survey.

*Note A, Panel R4.2.* There is an additional question in the mailed survey which asks, "Overall in the last 30 days, how much difficulty did you have with vigorous activities, such as running 2 miles or cycling?"

*Note A, Table R5.* WLS includes several questions about health symptoms in its questionnaire. Variables beginning with "ix" come from the mailed survey; variables beginning with "gx" come from the telephone survey.

*Note A, Panel R5.2.* The mailed survey has several other functionality questions. Additionally, WLS collected saliva from respondents which will be used for DNA analyses. This information is

only available via the WLS secure server. In version 12.27 which was used in the cross national data set there are no variables regarding the DNA data.

**NOTE B.**

The WLS data used in the cross national data set come from the private access data file and last used version released in spring 2012.