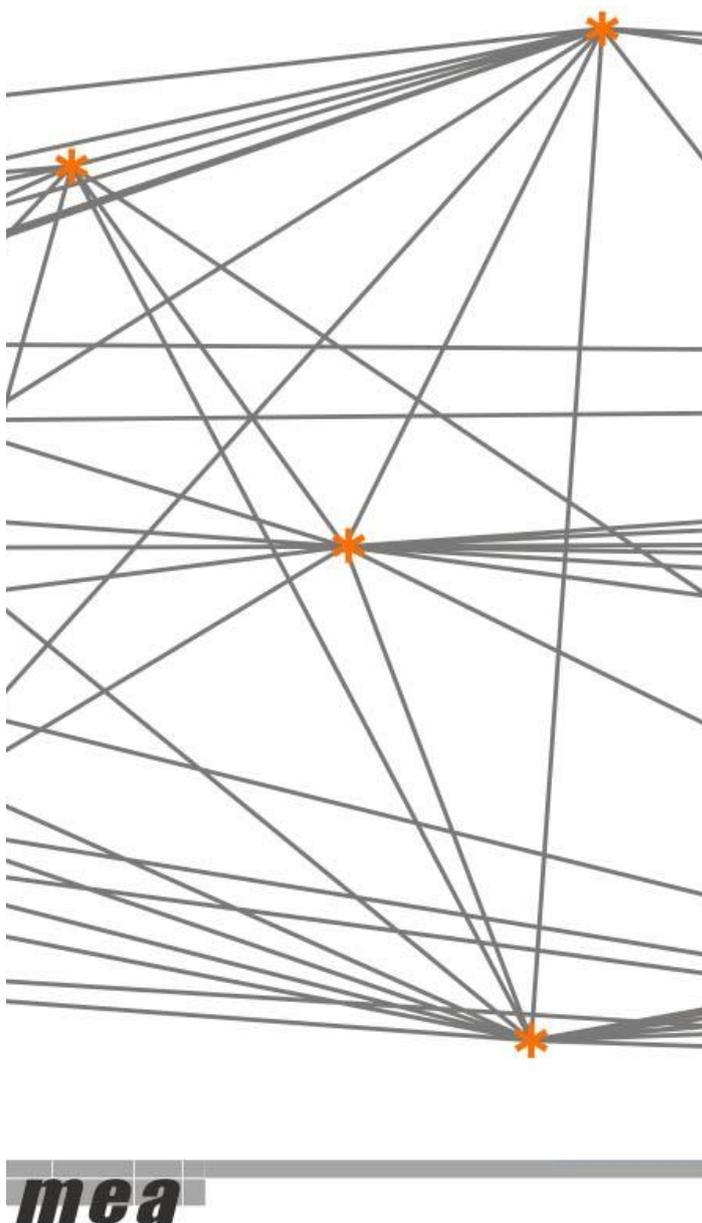




**Guide to
*easy*SHARE
release 1.0.0**



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Disclaimer

easySHARE is intended for student training and teaching purposes. For scientific publications we recommend using the main data set of SHARE, or to carefully study this documentation and the Stata program that extracts and generates *easySHARE* from the main release of SHARE.

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1. Introduction

The multitude of countries participating in SHARE with their institutional variety and different languages, combined with a large interdisciplinary set of variables stored in about 25 modules per wave, and the differentiation into individual-, couple- and household-level data, make SHARE a complex data set. The *easySHARE*-file is a simplified data set for researchers who are less experienced in the quantitative analysis of complex panel data. Its main purpose is student training and teaching.

easySHARE includes the same number of observations as the main release of SHARE but is restricted to a subset of variables. This allows storing *easySHARE* as one single file without the need for complex merging of waves and modules. *easySHARE* contains the regular panel waves of SHARE (wave 1, wave 2 and wave 4) and some information collected in the third wave on people's life histories (SHARELIFE). The file includes variables out of a variety of the SHARE CAPI-modules (CAPI stands for *Computer Assisted Personal Interview*) and in some instances the drop-off questionnaires that collect additional information via self-completion of a paper & pencil questionnaire. We also incorporated variables out of the generated variable datasets or created additional ones. Furthermore, adaptations in *easySHARE* make the file more comparable with the US Health and Retirement Study (HRS).

To facilitate analyzing the data we transferred the information that was collected on couple- and household-level to the individual level. Several generated variables, such as indexes and recoded health, demographic, social and economic measures allow direct analyses without the need for extensive data preparations. Furthermore, we added a series of additional missing value codes. These can help understanding how missing information evolved. E.g. we added extra missing value codes to tag observations that are missing due to questionnaire filtering.

This documentation gives a quick overview on how we constructed *easySHARE* and describes the included variables. It also contains examples of how to work with and analyze *easySHARE*.

2. Access

After completing a user statement, every person with a scientific affiliation can download the data for free as long as the data are used for no other than scientific purposes. For teaching purposes teachers are asked to complete a teacher statement. See <http://www.share-project.org/data-access-documentation.html> for more information on data access and data download.

3. Selection of variables

Central variables have been identified based on the existing modules and comparisons of SHARE and RAND-HRS. This renders variables suitable for comparisons and cross national analysis, particularly with HRS. Variables have been selected to cover each module and topic of SHARE. Problems and requests by researchers gathered from symposiums and meetings, collaborations with researchers and user questions served as a basis for the selection and recoding of variables. Variables have been selected according to the following guidelines:

- low rate of missing information
- cross-country comparability
- maximum cross-wave comparability, i.e. longitudinal measures (with the obvious exception of the retrospective life histories collected in SHARELIFE)
- indices instead of variables
- no complex filtering or documentation of filters in target variable

The following topics and variables have been selected for *easySHARE*:

- 1) **Demographics:** age, gender, country of birth, citizenship, education, religion, marital status, age and gender of partner
- 2) **Household composition:** living with partner in the same household, household size, children living in the household
- 3) **Social Support & Network:** mother/father alive, number of children, residential proximity of children, number of grandchildren, number of living siblings, social activities, received and given social support
- 4) **Childhood conditions:** number of books at age ten, occupation of main breadwinner at age ten, relative mathematical skills at age ten, relative language skills at age ten
- 5) **Health and health behavior:** self-perceived health, number of chronic diseases, mental health variables, depression scale EURO-D, CASP-12 index for quality of life and well-being, health care utilization, grip strength, body mass index, smoking and drinking behavior, vigorous activities/sports
- 6) **Functional limitation indices:** mobility index, large muscle index, activities of daily living index, gross motor skills index, fine motor skills index, instrumental activities of daily living index, cognitive functions
- 7) **Work & Money:** current job situation, term of main job, working hours per week, satisfaction with main job, early retirement plans, able to make ends meet, monthly expenditure on food, wave specific household income percentiles

4. Structure of the data

Panel data like *easySHARE* can be displayed in long or in wide format. The *easySHARE* data are stored in long format, i.e. observations in lines are the respondents, whereas respondents are included as often as they participated in the currently available four waves of SHARE. The variables or columns store reported information. If there are four observations with the same respondent identifier (`mergeid`), this respondent took part in all four waves of SHARE. One advantage of long format is that this form is generally expected for panel analysis.¹

Table 1 shows the structure of the data for two example respondents. The first respondent is male and was interviewed in Austria which can be derived from the prefix "AT" in `mergeid` or from the country variables (`country` and `country_mod`). This respondent took part in all four waves as represented by one line per wave. The second respondent who was interviewed in Sweden (prefix "SE") participated in wave 1, did not participate in wave 2 and wave 3, and then took part again in wave 4. For this respondent the data contain only two observations. The information on respondents' wave participation is stored in the variable `wavepart`. This variable can be used to select a balanced panel, e.g. of respondents who participated in all four waves.

Table 4.1: Data structure

<code>mergeid</code>	<code>wave</code>	<code>birth_country</code>	<code>wavepart</code>
AT-986403-01	1	Austria	1234
AT-986403-01	2	Austria	1234
AT-986403-01	3	Austria	1234
AT-986403-01	4	Austria	1234
SE-209636-01	1	Sweden	14
SE-209636-01	4	Sweden	14

¹ You can easily „reshape“ the data to the wide panel format. Please find code examples in the section on “Examples of how to analyze *easySHARE*”.

Missing codes

Compared to the SHARE main release we recoded the missing values in *easySHARE* to one of the following (partially new) codes:

- 3: "implausible value/suspected wrong"
- 7: "not yet coded"
- 9: "not applicable filtered"
- 12: "don't know / refusal"
- 13: "not asked in this wave"
- 14: "not asked in this country"
- 15: "no information"
- 16: "no drop-off (information in drop-off in this wave)"

There is only one combined missing value code for "don't know" and "refusal" in *easySHARE*. The reason is that when combining two or more variables of the main release of SHARE into a new *easySHARE* variable, we sometimes cannot distinguish between the possibly different missing codes of the original variables. For consistency within *easySHARE* we use the combined "don't know / refusal" code in all variables. The code -15 "no information" is used for missing values that are not explained by filtering or questionnaire design. There are multiple reasons for this code, for example respondents may not have completed the whole interview.

Not every question was asked in all available waves of SHARE. For that reason we implemented the missing code -13: "not asked in this wave". Note that the third wave on people's life histories (SHARELIFE) collected very different information compared to the regular waves (wave 1, 2 and 4) in structure and content. This is the reason for many variables set to the -13 code in wave 3.

5. Description of variables

Some variables in *easySHARE* are copies of the respective variables included in the main release of SHARE that were only complemented by recoding the system missing values due to country-/wave- missing patterns and questionnaire filtering. For these variables the name in *easySHARE* remains the same as in the main of SHARE.

Variables that have been modified beyond the above mentioned or have been specifically generated for *easySHARE* receive new or modified variable names. New indices or scores are named according to conventions (i.e. CASP score, IADLA), generated variables based on several other variables are named similarly to the variable names in the main of SHARE. Variables that have been modified, but do not represent a new concept, got an additional "_mod" identifier at the end of the variable name.

The overview of variables included in *easySHARE* in the next sections is intended to give a brief overview on the variable generation, the coding format and modifications implemented in *easySHARE*. Appendix A provides a short overview table of all variables included.

Identifiers and basic demographic information

<i>mergeid</i>	Person identifier	example "AT-123456-01"
-----------------------	-------------------	------------------------

As in the main release of SHARE *mergeid* is the person identifier. It is unique for each respondent and does not change across waves. It consists of the country abbreviation, a six digit household identifier that is assigned when the household is first sampled and a two digit person identifier.

<i>hhid</i>	Household identifier	example "AT-123456-A"
--------------------	----------------------	-----------------------

Respondents living in the same household can be identified by *hhid*. The format is similar to *mergeid* (and *coupleid*). For respondents may move out of the household they were originally sampled in, the *hhid* of an individual can change across waves. One part of the household that split gets the appendix "-B" instead of "-A".

Note: While in the coverscreen files (*cv_r*) of the SHARE main release all household members are represented by a data line, the *easySHARE* dataset only stores the observations of responding household members.

<i>coupleid</i>	Wave specific couple identifier	example "AT-123456-A-1_w1"
------------------------	---------------------------------	----------------------------

coupleid identifies couples within a household. Two respondents living together in the same household as a couple (regardless of their legal status) get assigned the same *coupleid*.

Note: As non-responding partners are not included in *easySHARE* there is not always a corresponding observation for every respondent with a non-missing *coupleid*. For individuals without partner or spouse in the household *coupleid* is set to plain missing. Because respondents may change partners between waves *coupleid* is a wave specific variable. Or in other words: if the *coupleid* stays the same this does not necessarily mean that the couple stays the same. The first part of its label equals *hhid* followed by a digit necessary for households in which more than one couple live. The digit equals 1 for the first household couple and is larger than 1 (usually 3) for other couples. The value does not implicate how many couples are living in the corresponding household. Finally the last digit indicates the wave.

wave	Wave identifier
-------------	-----------------

easySHARE contains all four waves of SHARE. If you want to select only the three regular waves (1, 2, and 4) the wave variable is the easiest way to do so. It is also needed to set up the data for longitudinal analyses.

wavepart	Wave participation pattern
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wavepart stores information on the wave participation pattern of each respondent. A respondent who participated in all four waves of SHARE gets the value "1234", while a respondent who skipped waves 2 and 3 would get the *wavepart* value "14". Hence, this variable can be used to select any kinds of balanced panels, e.g. of respondents who participated in all four waves. The same *wavepart* value is assigned to every single line of the respective respondent.

int_year	Year of interview
-----------------	-------------------

int_year contains the year in which the interview took place. In case the year of interview was missing we replaced the value by the country and wave specific modus year.

int_month	Month of interview
------------------	--------------------

This variable contains the month in which the interview took place. In case the month of interview was missing we replaced the value by the country and wave specific modus (in case the modus is not unique, we used the minimum month). The main reason to impute month and year of interview is to allow computing the age at interview variable for as many respondents as possible.

country	Country identifier
----------------	--------------------

All countries that participated in at least one of the four waves are included in *easySHARE*: Austria, Belgium, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Ireland, Israel, Italy, the Netherlands, Poland, Portugal, Slovenia, Spain, Sweden and Switzerland. The coding of *country* is the same as in the main release of SHARE.

country_mod	Modified country identifier
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country_mod is another country identifier. In contrast to *country* it is coded according to the ISO code scheme. Using the same ISO codes as in *birth_country* and *citizenship* allows combining the information more easily.

language	Language of questionnaire
-----------------	---------------------------

This variable indicates the language in which the interview was conducted. In some of the SHARE countries (like Switzerland or Israel) there is more than one language.

female	Gender of respondent
---------------	----------------------

`female` is the “dummy”-style coded gender variable. 0: male; 1: female. For very few respondents gender varies between waves. These are mostly cases that have not been fully checked yet. There is no way to determine the correct information, therefore we coded these respondents’ gender to -3 “implausible value” in all instances.

dn002_mod	Month of birth
------------------	----------------

`dn002_mod` stores the respondents’ month of birth. The original variable `dn002_` differs for quite some respondents between waves. Therefore, *easySHARE* stores the minimum mode month of birth in case of deviations within a respondent.

dn003_mod	Year of birth
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`dn003_mod` indicates the respondents’ year of birth. There are very few respondents for whom year of birth differs between waves. These are mostly cases that have not been fully checked yet. For year of birth is a crucial information and there is no way to determine the correct information, we recode `dn003_mod` to -3 “implausible value” for these respondents.

age	Age at interview
------------	------------------

`age` at the time of interview is calculated on the basis of the respondent’s month and year of birth (`dn002_mod` and `dn003_mod`) and month and year of interview (`int_year` and `int_month`). The month-exact age is divided by 12 to produce age in years.

Note: To reduce the number of missing values on this often used variable we imputed `int_year` and `int_month` if it was missing and we also imputed the month of birth variable (`dn002_`) if it was missing. However we did not impute missing year of birth information. This explains why there are still few respondents with missing age information in the file.

<i>birth_country</i>	Country of birth
-----------------------------	------------------

The variable combines information on whether respondents are born in the (current) country (`dn004_` in the SHARE main release) and the follow-up question in which country they were born (`dn005c` in the SHARE main release). We used the same ISO coding as in the `country_mod` variable.

Using the integrated `birth_country` variable and the accordingly coded `country_mod` you can easily generate a variable telling if the individual was born in the country of interview.

<i>citizenship</i>	Citizenship of respondent
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`citizenship` is generated based on the question whether the respondent has the citizenship of the country of interview and if not, which citizenship the respondent has (`dn007_` and `dn008c` in the SHARE main release).

<i>q34_re</i>	Religious denomination [only included in wave 1]
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The information about the respondents' religious denomination was part of the drop off questionnaire in wave 1. In waves 2, 3 and 4 this question was not included anymore.

- 1: Protestant
- 2: Catholic
- 3: Orthodox
- 4: Jewish
- 5: Muslim
- 7: other
- 8: none

<i>isced_r</i>	ISCED classification
-----------------------	----------------------

`isced_r` stores the ISCED-97 coding of education. The values of `isced_r` are:

- 0: none
- 1: Level 1 – Primary education or first stage of basic education
- 2: Level 2 – Lower secondary or second stage of basic education
- 3: Level 3 – (Upper) secondary education
- 4: Level 4 – Post-secondary non-tertiary education
- 5: Level 5 – First stage of tertiary education
- 6: Level 6 – Second stage of tertiary education
- 95: still in school
- 96: other

<i>eduyears_mod</i> Years of education

Years of education are only asked in the baseline interview of each respondent starting in wave 2. Because this question was not asked in wave 1 and 3 the answers collected in wave 2 and wave 4 were assigned. This leads to relatively high amounts of missing values especially for respondents who were not re-interviewed after their wave 1 interview.

<i>mar_stat</i> Marital status [not included in wave 3]
--

The marital status is only asked in the baseline interview of each respondent (*dn014_* in the SHARE main release). In later regular waves the respondents are asked if their status has changed or not (*dn044* in the SHARE main release). If it has not changed we forwarded the information of *dn014_* to later waves (except wave 3). If it has changed, respondents are asked again for their current status.

- 0: none
- 1: married and living together with spouse
- 2: registered partnership
- 3: married, living separated from spouse
- 4: never married
- 5: divorced
- 6: widowed

Household composition

<i>hhsize</i> Household size

hhsize contains information about the number of people living in the respondents' household.

<i>partnerinh</i> Living with spouse/partner

- 1: living with a spouse/partner in household
- 3: living without spouse/partner in household
- 97: other

<i>int_partner</i> Interview of partner available
--

int_partner indicates whether an interview of the respondent's partner is available. The variable is filtered when the respondent is living as single or when the partner does not live in the same household.

- 1: yes
- 5: no

<i>age_partner</i> Age at interview of respondent's partner
--

`age_partner` is assigned from the age of a respondent's partner using the wave specific `coupleid`. If they have an interview we use the partners self-report, otherwise `age_partner` is based on the `cv_r` information. Hence, for the age of the partner the same imputations were applied as for `age` of respondent, if it is based on self-report information. The variable is filtered when the respondent is living as single or when the partner does not live in the same household.

<i>gender_partner</i> Gender of respondent's partner

`gender_partner` is assigned from the gender of a respondent's partner using the wave specific `coupleid`. If the partners were interviewed, we use their self-report information, otherwise the variable is based on information given in the `cv_r`. It is filtered for singles or if the partner does not live in same household. The variable is filtered when the respondent is living as single or when the partner does not live in the same household.

0: male
1: female

Social Support & Network [not included in wave3]

<i>mother_alive</i> Is natural parent alive: mother
--

`mother_alive` is based on `dn026_1` of the SHARE main release and includes information on whether the respondent's mother is still alive. If available we combined it with information from previous waves and – in wave 4 – information from the social networks module. Latter is based on the assumption that persons belonging to the respondent's social network are still alive.

1: yes
5: no

<i>father_alive</i> Is natural parent alive: father
--

`father_alive` is based on `dn026_2` of the SHARE main release and includes information on whether the respondent's father is still alive. If available we combined it with information from previous waves and – in wave 4 – information from the social networks module. Latter is based on the assumption that persons belonging to the respondent's social network are still alive.

1: yes
5: no

<i>siblings_alive</i>	Number of siblings alive
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siblings counts the total number of siblings alive (sum of *dn036_* and *dn037_* in the SHARE main release). It is zero for respondents who had siblings but none of them is still alive and is filtered if a respondent never had siblings.

<i>ch001_</i>	Number of children
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ch001_ contains the number of children that are still alive including natural children, fostered, adopted and stepchildren. We do not integrate the wave 3 information on children, for the concept of collecting information in this wave is considerably different. In SHARE, information on children is asked to one respondent per couple only, but transferred to partners/spouses in the *easySHARE* data set.

<i>ch021_mod</i>	Number of grandchildren
-------------------------	-------------------------

ch021_mod contains the number of the respondent's grandchildren. Grandchildren of spouse or partner from previous relationships are included in this variable.

<i>ch007_hh</i>	At least one child in same household
------------------------	--------------------------------------

ch007_hh indicates whether at least one child lives in the same household or the same building as the respondent (based on *ch007_1* to *ch007_16* in the SHARE main release). It is filtered if respondents do not have children. For some cases this variable is not yet coded.

- 1: yes
- 5: no

<i>ch007_km</i>	Residential proximity of children
------------------------	-----------------------------------

ch007_km indicates whether at least one child lives less than one kilometer away from the respondent's household (based on *ch007_1* to *ch007_16* in the SHARE main release).

- 1: yes
- 5: no

<i>ac002d1– ac002dno</i>	(Social) Activities
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The variables *ac002d1* to *ac002dno* indicate social activities that have been done in the month before the interview.

- ac002d1 Done voluntary or charity work
- ac002d2 Cared for a sick or disabled adult
- ac002d3 Provided help to family, friends or neighbors
- ac002d4 Attended an educational or training course
- ac002d5 Gone to a sport, social or other kind of club
- ac002d6 Taken part in a religious organization (church, synagogue, mosque, etc.)
- ac002d7 Taken part in a political or community-related organization
- ac002dno None of these

<i>sp002_mod</i>	Received help from outside the household
-------------------------	--

sp002_mod contains information on whether the respondents (or if applicable their partners) have received help from any family member from outside the household, any friend or neighbor. Help in this context incorporates personal care (e.g. help with dressing, bathing, eating, getting out of bed, using the toilet), practical household help and help with paper work such as settling financial or legal matters. The question was only answered by the family respondent. We assigned the information also to the partners.

- 1: yes
- 5: no

<i>sp003_1_mod - sp003_3_mod</i>	Who gave help
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Respondents can name up to three persons outside the household from whom they (or their partners) received help. *sp003_1_mod* contains the first person mentioned by the respondent, *sp003_2_mod* the second and *sp003_3_mod* the third.

<i>sp008_mod</i>	Given help to others outside the household
-------------------------	--

sp008_mod contains information on whether the respondent has personally given help to any family member from outside the household, any friend or neighbor. Help in this context incorporates personal care (e.g. help with dressing, bathing, eating, getting out of bed, using the toilet), practical household help and help with paper work such as settling financial or legal matters.

- 1: yes
- 5: no

sp009_1_mod - sp009_3_mod

To whom did you give help

Respondents can name up to three persons outside the household to whom they gave help. *sp009_1_mod* contains the first person mentioned by the respondent, *sp009_2_mod* the second and *sp009_3_mod* the third.

Childhood Conditions [wave 3 only]

sl_cs008_

Number of books when ten

This variable includes information about the number of books that existed in the place the respondents lived in when they were ten years old. Magazines, newspapers, or school books are excluded.

- 1: none or very few (0-10 books)
- 2: enough to fill one shelf (11-25 books)
- 3: enough to fill one bookcase (26-100 books)
- 4: enough to fill two bookcases (101-200 books)
- 5: enough to fill two or more bookcases (more than 200 books)

sl_cs009_

Occupation of main breadwinner when ten

sl_cs009_ asks for the occupation of the household's main breadwinner (the person providing the majority of income for the household) at the age of ten of respondent.

- 1: legislator, senior official or manager
- 2: professional
- 3: technician or associate professional
- 4: clerk
- 5: service, shop or market sales worker
- 6: skilled agricultural or fishery worker
- 7: craft or related trades worker
- 8: plant/machine operator or assembler
- 9: elementary occupation
- 10: armed forces
- 11: spontaneous only: there was no main breadwinner

sl_cs010_mod

Relative mathematical skills when ten

sl_cs010_ is about the performance in mathematics compared to other children when the respondent was at the age of ten. It is filtered if the respondent did not go to school.

- 1: much better

- 2: better
- 3: about the same
- 4: worse
- 5: much worse

<i>sl_cs010a_mod</i>	Relative language skills when ten
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sl_cs010a_ asks for relative language skills compared to other children when the respondent was at the age of ten. It is filtered if the respondent did not go to school.

- 1: much better
- 2: better
- 3: about the same
- 4: worse
- 5: much worse

Health: Physical Health

<i>sphus</i>	Self-perceived health (US version)
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In wave 1 respondents were randomized to answer the self-perceived health item either at the beginning (*ph003_*) or at the end of the physical health questionnaire module (*ph052_*). *sphus* combines both in one variable.

- 1: excellent
- 2: very good
- 3: good
- 4: fair
- 5: poor

<i>chronic_mod</i>	Number of chronic diseases [not included in w3]
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This variable is based on the multiple answer question *ph006_* that asks which of the listed chronic conditions the respondents had according to their doctors (“Has a doctor ever told you that you had ...”). The question was asked in waves 1, 2, and 4. However, the answer options have been modified twice between waves. Therefore, we created a new index called *chronic_mod* that only counts the conditions that were included as answer options in each wave. For the list of answer options varies, the “other condition” option does change its meaning between waves and hence is not taken into account for *chronic_mod*. The following list shows the conditions included in the index:

- 1. A heart attack
- 2. High blood pressure or hypertension

3. High blood cholesterol
4. A stroke or cerebral vascular disease
5. Diabetes or high blood sugar
6. Chronic lung disease (...)
8. Arthritis, including osteoarthritis, or rheumatism
10. Cancer or malignant tumor (...)
11. Stomach or duodenal ulcer, peptic ulcer
12. Parkinson disease
13. Cataracts
14. Hip fracture or femoral fracture

The following answer options are *not* included in `chronic_mod`:

- | | | | |
|------------------------|---|------------------------------|---|
| 7. Asthma | : | only available in waves 1, 2 | |
| 9. Osteoporosis | : | only available in waves 1, 2 | |
| 15. Other fractures | : | only available in wave | 4 |
| 16. Alzheimer's (...) | : | only available in wave | 4 |
| 17. Benign tumor (...) | : | only available in wave | 2 |

Difference to similar variables provided in SHARE main release: The variables `chronic` (wave 1), `chronicw2` and `chronicw4` in the main release are computed based on all answer options provided in the respective wave, including the "other condition" answer option.

Health: Mental health variables [not included in w3]

<i>casp</i>	CASP-12 Score (Quality of life)
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The CASP-12 score measures quality of life and is based on four subscales on control, autonomy, pleasure and self-realization. The CASP score is the sum of these four subscales and ranges from 12 to 48. The items were asked in the drop off questionnaire in wave 1 and then moved into the CAPI from wave 2 onwards. For drop off questionnaires not being filled in by all respondents there is a higher fraction of missing observations in wave 1.

<i>euro1</i>	Depression (part of EURO-D)
---------------------	-----------------------------

`euro1` is taken from the `gv_health` module. It is based on `mh002_` in the mental health module in the SHARE main release. It indicates whether the respondent has been sad or depressed in the last month.

- 0: not selected
- 1: selected

euro2 Pessimism (part of EURO-D)

euro2 refers to the respondent's hopes for the future. It is based on mh003_.

- 0: not selected
- 1: selected

euro3 Suididity (part of EURO-D)

This variable gives information on suicidal feelings based on mh004_. The question is: "In the last month, have you felt that you would rather be dead?"

- 0: not selected
- 1: selected

euro4 Guilt (part of EURO-D)

euro4 is based on mh005_ in the mental health module in the SHARE main release. It indicates whether the respondents tend to blame themselves or feel guilty about anything.

- 0: not selected
- 1: selected

euro5 Sleep (part of EURO-D)

Whether a person has trouble with sleeping is reported in euro5 respectively mh007_.

- 0: not selected
- 1: selected

euro6 Interest (part of EURO-D)

euro6 shows changes in the general interest in things (mh008_ in the mental health module).

- 0: not selected
- 1: selected

euro7 Irritability (part of EURO-D)

"Have you been irritable recently" is the question behind euro7 (mh010_ in the mental health module).

- 0: not selected
- 1: selected

euro8	Appetite (part of EURO-D)
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Changes in the respondent's appetite are shown in this variable that is based on `mh011_`.

- 0: not selected
- 1: selected

euro9	Fatigue (part of EURO-D)
--------------	--------------------------

This variable is based on `mh013_` that asks whether a respondent had too little energy to do the things she/he wanted to do in the previous month.

- 0: not selected
- 1: selected

euro10	Concentration (part of EURO-D)
---------------	--------------------------------

Information on difficulties with the concentration on a television program, film, radio program or reading is given in `euro10`. This variable combines `mh014_` and `mh015_` of the mental health module in the SHARE main release.

- 0: not selected
- 1: selected

euro11	Enjoyment (part of EURO-D)
---------------	----------------------------

"What have you enjoyed doing recently?" is the question behind `mh016_` which is the basis for `euro11`.

- 0: not selected
- 1: selected

euro12	Tearfulness (part of EURO-D)
---------------	------------------------------

`mh017_` asks whether the respondent has cried at all in the last month? Taken from the `gv_health` module this information is stored in `euro12`.

- 0: not selected
- 1: selected

eurod	Depression scale EURO-D
--------------	-------------------------

The EURO-D symptom scale measures the current depression and is constructed from questions in the mental health module (`mh002_` - `mh017_`) as a composite index of twelve items: depressed mood, pessimism, suicidality, guilt, sleep, interest, irritability, appetite, fatigue, concentration, enjoyment and tearfulness. The scale ranges from 0 "not depressed" to 12 "very depressed".

Health: Health care [not included in w3]

hc002_	Doctor visits
---------------	---------------

hc002_ contains the number of doctor visits within the past year. The question behind this variable is: "During the last twelve months, about how many times in total have you seen or talked to a medical doctor about your health?" (question text of wave 4 questionnaire).

hc012_	Hospital stay
---------------	---------------

hc012_ indicates whether respondents have been in a medical, surgical, psychiatric or any other specialized hospital overnight during the last twelve months.

- 1: yes
- 5: no

hc029_	Nursing home
---------------	--------------

Overnight stays in a nursing home during the last twelve months are indicated by hc029_.

- 1: yes, temporarily
- 3: yes, permanently
- 5: no

hc038_mod	Private care [available for wave 1 and 2 only]
------------------	--

hc038_mod contains information on receiving care from private providers that respondents had to pay privately or through a private insurance because of waiting times being too long or shortages in the National Health System.

- 1: yes
- 5: no

hc032c	Home care [available for wave 1 and 2 only]
---------------	---

This variable indicates whether the respondent has received home care during the last twelve months. This includes professional or paid nursing or personal care, professional or paid home help, e.g. meals-on-wheels. hc032c is based on received home care (hc032_) and having been in a nursing home (hc029_).

- 1: yes
- 5: no

Health: Physical measurements

<i>maxgrip</i>	Maximum of grip strength measure (from <code>gv_health</code>)
-----------------------	---

According to instructions two grip strength measurements on each hand were recorded using a so-called dynamometer. The variable `maxgrip` is defined as the maximum grip strength measurement of both hands (2x2) or of one hand (1x2).

Valid measurements are defined when the two measurements of one hand do not differ by more than 20kg. If the difference was above that limit (>20kg) the measurements for that hand were recoded as MISSING. If grip strength was only measured once on one hand, this measurement has also been recoded as MISSING. However, if there were two measurements on the other hand, these measurements have been included. Grip strength measurements of zero "0" or above 100 kg (≥ 100 kg) have been recoded as MISSING.

Health: Functional limitation indices [not included in w3]

Although SHARE provides a huge variety of indices on physical and mental health as well as health behavior, some of them are not directly comparable with US-measures and those in RAND HRS. Since one of the aims of *easySHARE* is to increase comparability with HRS and the use of SHARE outside of Europe, some new indices on health were recoded for *easySHARE*. If desired, additional indices provided in the SHARE main release files can be merged.

<i>adlwa</i>	Activities of Daily Living w&h Index
---------------------	--------------------------------------

`adlwa` is the sum of the three tasks: dressing (`ph049d1`), bathing or showering (`ph049d3`) and eating/cutting up food (`ph049d4`) (*Wallace and Herzog*). The higher the index is the more difficulties with these activities and the lower the respondent's mobility. `adlwa` ranges from 0 to 3.

<i>adla</i>	Activities of Daily Living Index
--------------------	----------------------------------

`adla` is the sum of the five tasks dressing (`ph049d1`), bathing or showering (`ph049d3`), eating, cutting up food (`ph049d4`), walking across a room (`ph049d2`) and getting in or out of bed (`ph049d5`). The higher the index is the more difficulties with these activities and the lower the mobility of the respondent. `adla` ranges from 0 to 5.

<i>iadla</i>	Instrumental Activities of Daily Living Indices
---------------------	---

iadla is the sum of telephone calls (*ph049d10*), taking medications (*ph049d11*) and managing money (*ph049d13*). The higher the index is the more difficulties with the activities and the lower the mobility of the respondent. *iadla* ranges from 0 to 3.

<i>iadlza</i>	Instrumental Activities of Daily Living Indices
----------------------	---

iadlza is the sum of telephone calls (*ph049d10*), taking medications (*ph049d11*), managing money (*ph049d13*), shopping for groceries (*ph049d9*) and preparing a hot meal (*ph049d8*). The higher the index is the more difficulties with the activities and the lower the mobility of the respondent. *iadlza* ranges from 0 to 5.

<i>mobilityind</i>	Mobility Index
---------------------------	----------------

mobilityind is the sum of walking 100 metres (*ph048d1*), walking across a room (*ph049d2*), climbing several flights of stairs (*ph048d4*) and climbing one flight of stairs (*ph048d5*). The higher the index, the more difficulties with these activities exist and the lower the mobility of the respondent. *mobilityind* ranges from 0 to 4.

<i>lgmuscle</i>	Large Muscle Index
------------------------	--------------------

lgmuscle is the sum of sitting two hours (*ph048d2*), getting up from chair (*ph048d3*), stooping, kneeling, crouching (*ph048d6*) and pulling or pushing large objects (*ph048d8*). The higher the index, the more difficulties with the activities and the lower the mobility of the respondent. *lgmuscle* ranges from 0 to 4.

<i>grossmotor</i>	Gross Motor Skills Index
--------------------------	--------------------------

grossmotor is the sum of walking 100 meters (*ph048d1*), walking across a room (*ph049d2*), climbing one flight of stairs (*ph048d5*) and bathing or showering (*ph049d3*). The higher the index is the more difficulties with the activities and the lower the gross motor skills of the respondent. *grossmotor* ranges from 0 to 4.

<i>finemotor</i>	Fine Motor Skills Index
-------------------------	-------------------------

finemotor is the sum of picking up a small coin (*ph048d10*), eating/cutting up food (*ph049d4*) and dressing (*ph049d1*). The higher the index is the more difficulties with the activities and the lower the fine motor skills of the respondent. *finemotor* ranges from 0 to 3.

Cognitive Function Indices [not included in w3]

<i>recall_1</i>	Recall of words, first trial
------------------------	------------------------------

recall_1 contains the number of words recalled in the first trial of the word recall task (*cf008tot* in the SHARE main release). It ranges from 0 to 10.

<i>recall_2</i>	Recall of words, first trial
------------------------	------------------------------

recall_2 contains the number of words recalled in the delayed word recall task (*cf016tot* in the SHARE main release). It ranges from 0 to 10.

<i>orienti</i>	Orientation to date
-----------------------	---------------------

Orientation to date, month, year and day of week is also a generated variable from the *gv_health* module on the basis of *cf003* - *cf006*. *orienti* ranges from 0 (good) to 4 (bad). The high amount of missing values in wave 4 is due to a routing filter: only baseline respondents get to the respective questions.

<i>numeracy</i>	Numeracy Score (from <i>gv_health</i>)
------------------------	---

numeracy gives information on the Mathematical performance of the respondents. The variable is based on *cf012* - *cf015* and ranges from 1 (good) to 5 (bad). The high amount of missing values in wave 4 is due to a routing filter: only baseline respondents get to the respective questions. Respondents who answered SHARE before, got a new set of questions.

Behavioral Risks [not included in w3]

<i>bmi_mod</i>	Body Mass Index
-----------------------	-----------------

This variable is based on individual weight (*ph012_*) and height (*ph013_*), and is calculated according to the this formula: $BMI = (ph012_ / (ph013_)^2) * 10\ 000$. Height (*ph013_*) is only asked once in SHARE in the first baseline interview of each respondent. To compute the BMI in later waves, when the weight might have changed, we forward the height information to the later waves.

<i>bmi2_mod</i>	Body Mass Index (categorized)
------------------------	-------------------------------

In *bmi2_mod* the values of *bmi_mod* are summarized into the following categories:

- 1: below 18.5 – underweight
- 2: 18.5 - 24.9 – normal
- 3: 25-29.9 – overweight
- 4: 30 and above – obese

smoking	Smoke at present time
----------------	-----------------------

This variable is based on `br002_` and indicates whether the respondents smoke cigarettes, cigars, cigarillos or a pipe at present.

- 1: yes
- 5: no

ever_smoked	Ever smoked daily
--------------------	-------------------

`ever_smoked` is based on `br001_` of the SHARE main release and indicates if a respondent ever smoked daily (cigarettes, cigars, cigarillos or pipe).

- 1: yes
- 5: no

br010_mod	Drinking behavior
------------------	-------------------

The question behind `br010_m` is: "During the last six months, how often have you drunk any alcoholic beverages, like beer, cider, wine, spirits or cocktails?"

- 1: not at all
- 2: less than once a month
- 3: once or twice a month
- 4: once or twice a week
- 5: three or four days a week
- 6: five or six days a week
- 7: almost every day

br015_	Vigorous activities
---------------	---------------------

`br015_` gives information on the frequency of doing vigorous activities such as sports, heavy housework, or a job that involves physical labor.

- 1: more than once a week
- 2: once a week
- 3: one to three times a month
- 4: hardly ever, or never

Work and Money: Employment [not included in w3]

ep005_	Current job situation
---------------	-----------------------

"In general, how would you describe your current situation?" is the question behind ep005_.

- 1: retired
- 2: employed or self-employed (including working for family business)
- 3: unemployed
- 4: permanently sick or disabled
- 5: homemaker
- 97: other

ep009_	Employee or self-employed in (main) job
---------------	---

ep009_ specifies the current job situation if the respondent answered in ep005_ that she/he is currently employed.

- 1: employee
- 2: civil servant
- 3: self-employed

ep011_mod	Term of (main) job
------------------	--------------------

ep011_mod indicates whether the respondents have a short-term or a permanent contract. Short-term contract means less than 3 years here.

- 1: short-term
- 2: permanent

ep013_mod	Working hours per week
------------------	------------------------

The hours that the respondents usually work during a week are asked in ep013_mod – regardless of their basic contracted hours. Meal breaks should be excluded and paid or unpaid overtime included.

ep026_mod	Satisfaction with (main) job
------------------	------------------------------

The question behind ep026_mod is: "All things considered I am satisfied with my job. Would you say you strongly agree, agree, disagree or strongly disagree?"

- 1: strongly agree
- 2: agree
- 3: disagree
- 4: strongly disagree

ep036_mod	Look for early retirement in (main) job
------------------	---

The wish for early retirement is indicated by `ep036_mod`: "Thinking about your present [main/secondary] job, would you like to retire as early as you can from this job?"

- 1: yes
- 5: no

Work and Money: Household Expenditure [not included in w3]

We extracted the first impute of the imputations module for some income and amount measures. The amounts in the imputation datasets of the SHARE main release are expressed in local currency in non-euro countries and are not comparable across waves due to different price levels. To achieve comparability between countries and waves, adjustments have been made in *easySHARE*. First, the time period to which a question refers has been identified. Second, the appropriate exchange rate has been selected and applied to the nominal amount. The exchange rates 'pppx' for each year and country are provided in the imputation files of the SHARE main release. These variables also adjust for the difference in the purchasing power across countries. The nominal amounts are divided by these exchange rates to transform them into real amounts, denominated in prices obtaining in Germany in 2005. For a more detailed description see SHARE Release Guide 2.5.0 section 19.2.3.

fahcv_mod	Monthly expenditure on food at home (household)
------------------	---

`fahcv_mod` indicates monthly household expenditure on food at home within the last 12 months (PPP-adjusted).

fohcv_mod	Monthly expenditure on food outside the home (household)
------------------	--

`fohcv_mod` indicates how much the household spend in a typical month on food to be consumed outside home within the last 12 months (PPP-adjusted).

Work and Money: Household income [not included in wave 3]

Note that the income variables of the SHARE main release are indicating *gross values* in wave 1 and *net values* in wave 2 and wave 4. Because of this difference we generated wave and country specific household income percentiles. Every respondent is assigned to one of the ten income percentiles.

co007_	Household able to make ends meet
---------------	----------------------------------

The question is: "Thinking of your household's total monthly income, would you say that your household is able to make ends meet..." This variable is taken from the consumption module and not from the imputed variables.

- 1: with great difficulty
- 2: with some difficulty
- 3: fairly easily
- 4: easily

income_pct_w1	Household income percentiles for wave 1
----------------------	---

`income_pct_w1` contains the household income percentiles for respondents who participated in wave 1. The higher the percentile to which the household belongs, the higher is the household income. For Israel `income_pct_w1` is not yet generated.

income_pct_w2	Household income percentiles for wave 2
----------------------	---

`income_pct_w2` indicates the household income percentiles for respondents who participated in wave 2. The higher the percentile to which the household belongs, the higher is the household income. For Ireland `income_pct_w2` is not yet generated.

income_pct_w4	Household income percentiles for wave 4
----------------------	---

`income_pct_w4` indicates the household income percentiles for respondents who participated in wave 4. The higher the percentile to which the household belongs, the higher is the household income.

6. Examples of how to analyze *easySHARE*

... using Stata²

After downloading and saving *easySHARE* you can load the data set into the Stata memory with the `use` command followed by the storage location of the data (all SHARE datasets work with Stata 9.0 and later versions).

```
use D:\easySHARE\data\easyshare_re11-0-0.dta, clear
```

First we reduce our data set to the key variables of the following exemplar analyses using the `keep` command.

```
keep mergeid wave int_year ep005_maxgrip
```

Panel data can be stored in “wide format” or in “long format”. *easySHARE* is provided in long format because this is the common format for panel analyses. In the long format, the observations are the respondents at a specific point in time, and the variables are their observed characteristics. Each row represents one time point (or wave) per respondent. As *easySHARE* contains the three regular waves of SHARE (waves 1, 2 and 4) as well as some information from the third wave (SHARELIFE) there is a maximum of four rows per respondent. If a respondent participated in just one wave there is only one data line for this respondent.

In the wide format the observations are the respondents and the variables are their characteristics on the respective time points. There is only one row per respondent and each column represents one wave-specific variable.

Figure 6.1: long vs. wide data format

Long format			Wide format		
mergeid	wave	int_year	mergeid	int_year1	int_year2
AT-986403-01	1	2004	AT-986403-01	2004	2006
AT-986403-01	2	2006			

To reshape the data from long into wide format we use the `reshape` command. `mergeid` is the identifier variable (*i*) and the variable by which to organize the data is `wave` (*j*).

```
reshape wide int_year ep005_maxgrip, i(mergeid) j(wave)
```

² The example analysis is based on Stata version 12.1.

The corresponding Stata output shows that in wide format `wave` is dropped and that the number of observations decreases whereby the number of variables increases. Variables are set automatically to system-missing if respondents did not participate in a wave. Using the wide format often facilitates computing difference scores between time points or to give descriptive information on the analysis sample.

Figure 6.2: Stata output for reshaping the data from long to wide format

Data	long	->	wide
Number of obs.	152871	->	86290
Number of variables	5	->	13
j variable (4 values)	wave	->	(dropped)
xij variables:			
	int_year	->	int_year1 int_year2 ... int_year4
	ep005_	->	ep005_1 ep005_2 ... ep005_4
	sphus	->	sphus1 sphus2 ... sphus4

For our example analysis we need the data in long format. So we reshape the data back.

```
reshape long
```

This procedure leads to more observations than in the original data file because every respondent has one data line for each of the four waves now. The variable values are set to system-missing for waves in which the respondent did not participate.

Figure 6.3: Stata output for reshaping the data from wide to long format

Data	wide	->	long
Number of obs.	86290	->	345160
Number of variables	13	->	5
j variable (4 values)		->	wave
xij variables:			
	int_year1 int_year2 ... int_year4	->	int_year
	ep005_1 ep005_2 ... ep005_4	->	ep005_
	sphus1 sphus2 ... sphus4	->	sphus

To get the original number of observations we drop the lines with missing information for the year of interview. Make sure you use a variable that had no missing values before the reshape for this step.

```
drop if int_year ==.
```

Before starting with the analysis we first look at the central variables. `maxgrip` is the maximum value of the grip strength test. It ranges from 1 to 99.

```
summarize maxgrip if maxgrip > 0
```

Figure 6.4: Stata output for the summarizing `maxgrip` (missing values excluded)

Variable	Obs	Mean	Std. Dev.	Min	Max
maxgrip	138722	34.00086	12.06538	1	99

`ep005_` contains information on the perceived current job/status situation of the respondents. The output shows that retirement is the most frequent employment status. This is not surprising keeping in mind that only persons age 50 and over (and their partners) are eligible for SHARE.

```
tabulate ep005_
```

Figure 6.5: Stata output for the tabulation of `ep005`

current job situation	Freq.	Percent	Cum.
-15. no information	1,402	0.92	0.92
-13. not asked in this wave	26,836	17.55	18.47
-12. don't know / refusal	84	0.05	18.53
1. retired	64,920	42.47	60.99
2. employed or selfemployed	35,356	23.13	84.12
3. unemployed	3,849	2.52	86.64
4. permanently sick or disabled	4,723	3.09	89.73
5. homemaker	14,493	9.48	99.21
97. other	1,208	0.79	100.00
Total	152,871	100.00	

Regression analyses require Stata to know what the missing codes are. Using the `mvdecode` command, we can set all *easySHARE* missing codes to system-missing.

```
mvdecode maxgrip ep005, mv(-1/-15)
```

Afterwards we recode a new variable `Retired` based on `ep005_`. The new variable `Retired` is set to "1" for respondents in retirement and to "0" for all other employment statuses.

```
recode ep005 (2/97=0) (1=1), gen(Retired)
```

Now we estimate a cross-sectional linear regression model, e.g. for the latest wave 4.

```
regress maxgrip Retired if wave ==4
```

Figure 6.6: Stata output for an exemplary linear regression

Source	SS	df	MS			
Model	171956.163	1	171956.163	Number of obs = 52909		
Residual	7384501.75	52907	139.575137	F(1, 52907) = 1232.00		
				Prob > F = 0.0000		
				R-squared = 0.0228		
				Adj R-squared = 0.0227		
Total	7556457.91	52908	142.822596	Root MSE = 11.814		

maxgrip	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Retired	-3.630953	.1034465	-35.10	0.000	-3.833709	-3.428197
_cons	35.95495	.0773443	464.87	0.000	35.80336	36.10655

To fully exploit the easySHARE panel data we now estimate a longitudinal model. For this purpose we first declare the data to be panel data. Unfortunately Stata does not accept person IDs in string format for this procedure. But there is a simple way for generating a new numerical ID variable:

```
bysort mergeid: gen mergeid_n = _n ==1
replace mergeid_n = sum(mergeid_n)
```

Using the new person identifier `mergeid_n`, the `xtset` command declares the data to be a panel.

```
xtset mergeid_n wave
```

Then we can estimate any panel model, here we choose a `mle` specification:

```
xtreg maxgrip Retired, mle
```

Figure 6.7: Stata output for an exemplary panel model

Random-effects ML regression	Number of obs	=	114064
Group variable: mergeid_n	Number of groups	=	78774
Random effects u_i ~ Gaussian	Obs per group: min	=	1
	avg	=	1.4
	max	=	3
Log likelihood = -424061.01	LR chi2(1)	=	1222.18
	Prob > chi2	=	0.0000

maxgrip	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Retired	-2.216206	.0633854	-34.96	0.000	-2.340439	-2.091973
_cons	35.08932	.053142	660.29	0.000	34.98516	35.19348
/sigma_u	10.89284	.0329635			10.82843	10.95764
/sigma_e	5.019994	.0189725			4.982946	5.057317
rho	.8248205	.0015407			.8217843	.8278237

Likelihood-ratio test of sigma_u=0: chibar2(01)= 4.1e+04 Prob>=chibar2 = 0.000

... using SPSS³

After downloading and saving *easySHARE* you can load the data set into the SPSS memory with the `get` command followed by the storage location of the data.

```
GET
FILE='D:\easySHARE\data\easyshare_rell1-0-0.sav'.
```

First we reduce our data set to the key variables of our analysis using the `SAVE` subcommand `KEEP`. Afterwards we load the reduced data set in the memory.

```
SAVE OUTFILE= 'D:\easySHARE\data\easyshare_reduced.sav'
/KEEP mergeid wave int_year ep005_maxgrip.
```

```
GET
FILE='D:\easySHARE\data\easyshare_reduced.sav'.
```

Panel data can be stored in wide format or in long format. *easySHARE* is provided in long format because this is the common format for panel analysis. In the long format, the observations are the respondents on a specific point in time, and the variables are their observed characteristics. Each row represents one time point (or wave) per respondent. As *easySHARE* contains the three regular waves of SHARE (wave 1, 2 and 4) as well as some information from the third wave (SHARELIFE) there is a maximum of four rows per respondent. If a respondent participated in just one wave there is only one data line for this respondent.

In the wide format the observations are the respondents and the variables are their characteristics on the respective time points. There is only one row per respondent and each column represents one wave-specific variable.

Figure 6.8: long vs. wide data format

Long format			Wide format		
mergeid	wave	int_year	mergeid	int_year1	int_year2
AT-986403-01	1	2004	AT-986403-01	2004	2006
AT-986403-01	2	2006			

To reshape the data from long into wide format we use the `CASESTOVARS` command. `mergeid` is the identifier variable and the variable by which to organize the data is `wave`. It seems a good idea to sort the dataset (again) in SPSS before running the `CASESTOVARS` command using `SORT CASES`.

³ The example analysis is based on SPSS version 19.

```

SORT CASES mergeid wave.

CASESTOVARS
/ID=mergeid
/INDEX = wave.

```

Figure 6.9: SPSS output for reshaping the data from long to wide format

Processing Statistics	
Cases In	152871
Cases Out	86290
Cases In/Cases Out	1,8
Variables In	5
Variables Out	13
Index Values	4

For our example analysis we need the data in long format. So we reshape the data back.

```

VARSTOCASES
/MAKE int_year from int_year.1 int_year.2 int_year.3 int_year.4
/MAKE ep005_ from ep005_.1 ep005_.2 ep005_.3 ep005_.4
/MAKE maxgrip from maxgrip.1 maxgrip.2 maxgrip.3 maxgrip.4
/INDEX = wave.

```

Regression analyses assume that there are no missing values in the variables. Here we set all *easySHARE* missing codes to system-missing using the `recode` command.

```

RECODE ep005_ maxgrip (-15 thru -1=SYSMIS).
EXECUTE.

```

Before starting with the analysis we first look at the central variables. `maxgrip` is the maximum value of the grip strength test. It ranges from 1 to 99.

```

DESCRIPTIVES VARIABLES = maxgrip
/STATISTICS=MEAN STDDEV MIN MAX.

```

Figure 6.10: SPSS output for the description of `maxgrip`

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
max. of grip strength measure	138722	1	99	34,00	12,065
Valid N (listwise)	138722				

ep005_ contains information on the current job situation of the respondents. The output shows that retirement is the most frequent employment status. This is not surprising keeping in mind that only persons above the age of 50 are eligible for SHARE.

```
FREQUENCIES VARIABLES= ep005_
/ORDER=ANALYSIS.
```

Figure 6.11: SPSS output for the frequency distribution of ep005

ep005_.1: current job situation

		Frequen cy	Percent	Valid Percent	Cumulative Percent
Valid	1. retired	64920	42,5	52,1	52,1
	2. employed or self-employed	35356	23,1	28,4	80,5
	3. unemployed	3849	2,5	3,1	83,6
	4. permanently sick or disabled	4723	3,1	3,8	87,4
	5. homemaker	14493	9,5	11,6	99,0
	97. other	1208	,8	1,0	100,0
	Total	124549	81,5	100,0	
Missing	System	28322	18,5		
Total		152871	100,0		

Afterwards ep005_ is recoded. The newly generated variable Retired is 1 for respondents in retirement and 0 for all other employment statuses.

```
RECODE ep005_ (1=1) (2 thru 97=0) INTO Retired.
EXECUTE.
```

Now we estimate a cross-sectional linear regression model for wave 4.

```
REGRESSION
/SELECT=wave EQ 4
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT maxgrip
/METHOD=ENTER Retired.
```

Figure 6.12: SPSS output for an exemplary linear regression

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	35,955	,077		464,869	,000
	Retired	-3,631	,103	-,151	-35,100	,000

a. Dependent Variable: max. of grip strength measure
 b. Selecting only cases for which wave = 4

To fully exploit the easySHARE data we now apply a longitudinal model. In contrast to Stata, SPSS does accept person IDs in string format for this procedure. Here we use the MIXED command:

```
MIXED maxgrip WITH Retired
/FIXED=Retired | SSTYPE(3)
/METHOD=ML
/RANDOM=INTERCEPT | SUBJECT(mergeid)
/PRINT=SOLUTION.
```

Figure 6.13: SPSS output for an exemplary panel model

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	35,089321	,053016	105240,298	661,867	,000	34,985411	35,193231
Retired	-2,216206	,063011	100795,684	-35,172	,000	-2,339706	-2,092706

a. Dependent Variable: max. of grip strength measure.

7. Appendix A: List of variables

Variable	Description
mergeid	Person identifier (fix across modules and waves)
hhid	Household identifier (wave specific)
coupleid	Couple identifier (wave specific)
wave	Wave
wavepart	Wave participation pattern
int_year	Interview year
int_month	Interview month
country	Country identifier
country_mod	Country identifier (ISO coded)
language	Language of questionnaire
female	Gender of respondent
dn002_mod	Month of birth
dn003_mod	Year of birth
age	Age at interview (in years)
birth_country	Country of birth (ISO coded)
citizenship	Citizenship of respondent (ISO coded)
q34_re	What religion do you belong to or feel attached to mostly?
isced_r	Education of respondent in ISCED-97 Coding
eduyears_mod	Years of education
mar_stat	Marital status
hhsiz	Household size
partnerinhh	Living with spouse/partner
int_partner	Interview of partner available
age_partner	Age at interview of partner
gender_partner	Gender of partner
mother_alive	Is natural parent still alive: mother
father_alive	Is natural parent still alive: father

siblings_alive	Number of siblings alive (based on: dn036_, dn037_, dn034_)
ch001_	Number of children
ch021_mod	Number of grandchildren
ch007_hh	At least one child lives in household/building (based on ch007_1-ch007_16)
ch007_km	At least one child lives less than 1 km away (based on ch007_1-ch007_16)
ac002d1	Activities last month: voluntary or charity work
ac002d2	Activities last month: cared for a sick or disabled adult
ac002d3	Activities last month: provided help to family, friends or neighbors
ac002d4	Activities last month: attended educational or training course
ac002d5	Activities last month: gone to sport, social or other kind of club
ac002d6	Activities last month: taken part in religious organization
ac002d7	Activities last month: taken part of political or community organization
ac002dno	Activities last month: none of these
sp002_mod	Received help from outside the household
sp003_1_mod	Who gave help: person 1
sp003_2_mod	Who gave help: person 2
sp003_3_mod	Who gave help: person 3
sp008_mod	Given help to others outside the household
sp009_1_mod	To whom did you give help: person 1
sp009_2_mod	To whom did you give help: person 2
sp009_3_mod	To whom did you give help: person 3
s1_cs008_	Number of books when ten
s1_cs009_	Occupation of main breadwinner when ten
s1_cs010_mod	Relative position to others mathematically when ten
s1_cs010a_mod	Relative position to others language when ten
sphus	Self-perceived health – us version

chronic_mod	Number of chronic diseases (<i>easySHARE</i> version)
casp	CASP: quality of life and well-being index
euro1	Depression (part of EURO-D)
euro2	Pessimism (part of EURO-D)
euro3	Suicidality (part of EURO-D)
euro4	Guilt (part of EURO-D)
euro5	Sleep (part of EURO-D)
euro6	Interest (part of EURO-D)
euro7	Irritability (part of EURO-D)
euro8	Appetite (part of EURO-D)
euro9	Fatigue (part of EURO-D)
euro10	Concentration (part of EURO-D)
euro11	Enjoyment (part of EURO-D)
euro12	Tearfulness (part of EURO-D)
eurod	Depression scale EURO-D – high is depressed
hc002_	How often seen or talked to medical doctor last 12 months
hc012_	In hospital last 12 month
hc029_	In a nursing home
hc038_mod	Received care of private providers
hc032c	Utilization of home care last 12 month (based on hc032*, hc029)
maxgrip	Max. of grip strength measure
adlwa	Activities of daily living w&h index (high: has difficulties)
adla	Activities of daily living w&h index 2 (high: has difficulties)
iadla	Instrumental activities of daily living index (high: has difficulties)
iadlza	Instrumental activities of daily living index 2 (high: has difficulties)
mobilityind	Mobility index (high: has difficulties)
lgmuscle	Large muscle index (high: has difficulties)
grossmotor	Gross motor skills index (high: has difficulties)

finemotor	Fine motor skills index (high: has difficulties)
recall_1	Recall of words, first trial (based on c008tot)
recall_2	Recall of words, delayed (based on cf016tot)
orienti	Orientation to date, month, year and day of week
numeracy	Numeracy score: mathematical performance
bmi_mod	Body mass index (easySHARE version)
bmi2_mod	Body mass index categories (easySHARE version)
smoking	Smoke at the present time
ever_smoked	Ever smoked daily
br010_mod	Days a week consumed alcohol last 3 month
br015_	Sports or activities that are vigorous
ep005_	Current job situation
ep009_	Employee or self-employed in (main) job
ep011_mod	Term of (main) job
ep013_mod	Total hours worked per week (main) job
ep026_mod	Satisfied with (main) job
ep036_mod	Look for early retirement in (main) job
co007_	Is household able to make ends meet
fahcv_mod	Hhd monthly expenditure on food at home
fohcv_mod	Hhd monthly expenditure on food outside home
income_pct_w1	Hhd income percentiles wave 1
income_pct_w2	Hhd income percentiles wave 2
income_pct_w4	Hhd income percentiles wave 4