User’s Guide for the 2022 Korean Longitudinal Study of Ageing (KLoSA)

Wave 9

Team KLoSA



Table of Contents

1. Overview of the KLoSA 1

2. How to use KLoSA4

. Data type, Weight, Non-response imputation, Additions and Changes, etc.5

3. Descriptions of Generated Variables 16

. Household arrangement (The number of generation (fam1), The composition of household (fam2))17

. Spouse information (Birth year (year2), Educational background (edu\_s), Employment condition (ecoact\_s)23

. Children information 1 (The number of children living together (livewith), The number of children within 30 minutes (livenear), The number of unmarried children living 28

. Children information 2 (The number of children meeting at least once a week (contact1),

The number of children contacted at least once a week (contact2))32

. Siblings information (The number of alive sibling (s\_sum), The number of sibling living together (l\_sum))35

. Information on parents (Parents survival (w\_bp1))37

. Respondent currently living with parents or not (bp1\_1), Parents currently living with the respondent (bp1\_2)39

. Combined variables on parents/father/mother not living together (bp3~ / bm3~)43

. Household with activities of daily living (ADL) problem or instrumental activities of daily living (IADL) problem 47

. Amount of financial support received/offered (Children/Parent/Other family) (transferfrom/transferto)51

. Subjective health status (C001, C152)68

. Prevalence of chronic diseases (ex. high blood pressure)69

. Smoking status (smoke), Drinking status (alc)73

. Alcohol (soju/beer/makgeolli/whisky or liquor/wine), Drinking behavior76

. Depression (dep1, sumcesd)80

. Number of natural teeth (naturalteeth)82

. Geriatric Oral Health Assessment Index (GOHAI)83

. Days of hospitalization(n\_days), Expense for hospitalization paid by respondent(oopm1), Outpatient medical treatment expense paid by respondent (oopm2)85

. Economic activity status (w\_\_ecotype)91

. Retirement (retired)94

. Occupation code (job)97

. Current job characteristics (including Employment status (status))98

. Job name (jobwave, beforejob\_wave)102

4. Generated Variables in Section C. Health and Section Ea/F. Income/Assets and Debts

<Taken and adapted from 『2008 Generated Variables Guide』> 104

. Metropolitan/City/Town(region3)105

. Kaup index(BMI), Classification of obesity106

. ADL/IADL index107

. 109

. Grip strength111

. The first time of receiving pension <w\_\_name of pension\_start, starty, startm>112

. The total amount of personal income (The total amount of earned income + The total amount of assets income + The total amount of public transfer income + The total amount of financial support + The total amount of private pension benefit + Other incomes) <w\_\_pinc>113

. The total amount of earned income (= Wages or salaries income + Self-employment or own business income + Agricultural and fisheries business income + Income from second job) <w\_\_earned>114

. Wages or salaries income115

. The total amount of assets income (=The total amount of financial income + The total amount of Real estate income) <w\_assetinc>116

. The total amount of public transfer income (=The total amount of Public Pension Benefit + The total amount of social security income) <w\_\_publictrans>117

. The total amount of Public Pension Benefit (= National Pension Benefit + Specific Corporate1 Pension Benefit <w\_\_annuity>117

. The total amount of social security income (=Unemployment Compensation Benefit+ Industrial Accident Compensation Insurance Benefit+ National Basic Livelihood Security Benefit + Veterans Benefit + Other Welfare Benefit) <w\_\_socialsecurity>119

. Private pension benefit <w\_\_personal>122

. Other incomes <w\_\_other>123

. The total amount of household income (responded by representative household member) <w\_\_hhinc>124

. The total amount of personal assets (= The total amount of property assets + The total amount of financial assets + The amount of investment on farm or other business + Other assets) <w\_\_passets>125

. The total amount of real estate assets (= The asset value of current residence + The asset value of other real estate properties + real estate rentals) <w\_\_realestate>126

. Residence type < w\_\_F001type > 127

. The asset value of current residence < w\_\_residence >< w\_\_residence\_> 128

. The total amount of financial assets (The amount of cash in checking or saving accounts + The amount of money in fixed or time deposit accounts + The amount of stocks or investment funds + The amount of bonds + The total amount of insurance assets + The total amount of the money lent + The total amount of any private savings club(Gye) + The amount of other financial asset) <w\_\_financialasset>131

. The total amount of insurance assets (=Term life insurance assets + Annuity insurance assets + Whole life insurance assets) <w\_insurance>132

. The amount of investment on farm or other business135

. Other asset <w\_otherasset> 136

. The total amount of household assets <w\_hhassets>137

. The total amount of personal liabilities (=The amount of debt for current housing + The amount of security deposit for current housing + The amount of any private savings club (Gye) owing in the future + The amount of loans from financial institution + The amount of personal loans + The amount of other debt) <w\_\_pliabilities>138

. The sum of the amount of loan or liabilities for purchasing the house that currently live in<w\_\_F013\_N>138

. The amount of security deposit for JEON-WOL-SE<w\_\_house\_sum>139

. The total amount of household debt <w\_\_hhliabilities>140

. Personal net assets (=The total amount of personal assets – The total amount of personal liabilites) <w\_\_pnetassets>141

. Household net assets (=The total amount of household assets – The total amount of household liabilites) <w\_\_hhnetassets>142

Appendix 1. Generation process of Structurally Converted data (Section B, D)143

Appendix 2. Raw variable lists of combined variables in Section B/D155

**1. Overview of the KLoSA**

The main goal of the KLoSA is to provide data that can facilitate the collection of information on the social, economic, psychological and demographic status and health conditions of middle- and old-aged people as well as the development of effective social and economic policies.

The original panel sample is a random sample of 10,254 adults who are 45 or older (born in 1961 or earlier) and reside in Korea, excluding Jeju Island. The baseline survey was carried out every two years and 9 waves are completed so far. A refreshment sample of 920 individuals born in 1962 or 1963 was introduced in the Wave 5. Hereafter, the original panel sample of 2006 survey will be referred to as “Original sample” and the sample newly introduced in Wave 5 as “Refreshment sample”.

The retention rate of Original sample remained stable at 77.2% after as of Wave 9 survey and the number of samples valid for analysis is 5,835. Up to now, Refreshment sample completed five waves of survey, with a retention rate of 85.4% and a valid sample size of 757. In total, Combined sample (i.e., Original and Refreshment sample combined) of 6,592 and 535 deceased were surveyed in Wave 9. Supplemental surveys were carried out in the time between baseline surveys, but this user’s guide will only provide guide on the baseline survey data.

Interview questions cover a wide range of topics, including household background, demographics, family, health, employment, income and consumption, assets, subjective expectation and life satisfactions, and exit survey. The exit survey asks family members about the situation before the deceased passed away. This guide aims to help users understand the extensive survey topics and the complicated structure of the panel data. This guide is organized as follows. Section 2 provides an overall summary of caveats for using the data. The following sections contain details on the generation process of major variables in each survey section and which raw variables were used for generating these variables. This document aims to inform researchers of the concepts of variables and to facilitate research activities.

Cross-country analysis can be done with KLoSA. Multiple countries have established panel surveys on older adults. Researchers who are interested may refer to the websites provided in the table below.

<Aging Survey Data by Country>

| **Country** | **Survey** | **Website** |
| --- | --- | --- |
| The United States | HRS; Health and Retirement Study | [http://hrsonline.isr.umich.edu/](http://hrsonline.isr.umich.edu/%20) |
| England | ELSA; English Longitudinal Study of Ageing | <http://www.ifs.org.uk/ELSA> |
| Europe | SHARE; Survey of Health, Ageing and Retirement in Europe | [http://www.share-project.org/home0.html](http://www.share-project.org/home0.html%20) |
| Japan | JSTAR; Japanese Study of Ageing and Retirement | <http://www.rieti.go.jp/en/projects/jstar/index.html> |
| China | CHARLS; Chinese Health and Retirement Longitudinal Study | <http://charls.ccer.edu.cn/en> |

<KLoSA Survey Results and Retention Rates>

(Unit: Individuals, %)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Waves (Year)** | | **Target sample**  **(A)** | **No. of Successful Interviews**  **(B+C)** |  | | **Cumulative Sum of Failed Exit Interviews (D)** | **Sample Retention Rate**  **(B+C)/A** |
| **No. of Successful Survivor Interviews (B)** | **No. of Successful Exit Interviews (C)** |
| Wave 1 ('06) | | 10,254 | 10,254 | 10,254 | - | - | 100.0 |
| Wave 2 ('08) | | 10,254 | 8,875 | 8,688 | 187 | 66 | 86.6 |
| Wave 3 ('10) | | 10,067 | 8,229 | 7,920 | 309 | 100 | 81.7 |
| Wave 4 ('12) | | 9,758 | 7,813 | 7,486 | 327 | 112 | 80.1 |
| Wave 5 ('14) | | 10,436 | 8,387 | 7,949 | 438 | 142 | 80.4 |
|  | Original Sample | 9,431 | 7,467 | 7,029 | 438 | 142 | 79.2 |
| Refreshment Sample | 1,005 | 920 | 920 | 0 | 0 | 91.5 |
| Wave 6 ('16) | | 9,913 | 7,893 | 7,490 | 403 | 167 | 79.6 |
|  | Original Sample | 8,993 | 7,015 | 6,618 | 397 | 167 | 78.0 |
| Refreshment Sample | 920 | 878 | 872 | 6 | 0 | 95.4 |
| Wave 7 ('18) | | 9,510 | 7,491 | 6,940 | 551 | 139 | 78.8 |
|  | Original Sample | 8,596 | 6,674 | 6,136 | 538 | 138 | 77.6 |
| Refreshment Sample | 914 | 817 | 804 | 13 | 1 | 89.4 |
| Wave 8 (’20) | | 8,959 | 7,000 | 6,488 | 512 | 108 | 78.1 |
|  | Original Sample | 8,058 | 6,214 | 5,717 | 497 | 108 | 77.1 |
| Refreshment Sample | 901 | 786 | 771 | 15 | 0 | 87.2 |
| Wave 9 (’22) | | 8,447 | 6,592 | 6,057 | 535 | 114 | 78.0 |
|  | Original Sample | 7,561 | 5,835 | 5,310 | 525 | 114 | 77.2 |
| Refreshment Sample | 886 | 757 | 747 | 10 | 0 | 85.4 |

**2. How to use KLoSA**

We highly recommend users of KLoSA to read the following instructions.

**Which data type to use**

<Types of Released Data>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Raw data |  | **Structurally Converted Data** |  | **Light Version Data** |
| Raw variables | ⇒ | Raw variables  ※ Raw variables of Section B and D are only in Raw data | ⇒ | A selected set of variables across all sections (approximately 400 variables) |
|  | - Structurally Converted variables for Section B and D  - Generated variables |
|  |  |  |  | Additional generated variables |

Beginning from 6th wave, data files are released in three different types, unlike previous releases where only raw data files were available. The first type of data is raw data (w\_\_), the second type is Structurally Converted Data (str\_\_), and the third type is Light Version (lt\_\_) Data. These three data types differ in terms of data process. Raw data are files with no editing involved. Structurally Converted Data includes some generated variables from Section B and D as well as other major generated variables in each section. Light Version Data includes a selected set of approximately 400 variables across all sections and additional generated variables. Generated variables found in Light Version Data may not be included in Structurally Converted Data, meaning that Light Version Data underwent more editing process. Note that Light Version Data only has information on Original sample, and does not contain information on Refreshment sample.

When analyzing with processed data files, researchers may find themselves in need for variables that can be found only in raw data files. In this case, researchers can merge the raw data with other data files (i.e., Structurally Converted Data or Light Version Data) to make use of the wider set of information. Note that variables with a same name contain same information, regardless of which data file they belong to.

The names of raw variables (i.e., variables in raw data) of KLoSA are formatted as below:

w\_\_a001

Wave # Section

W is an abbreviation for Wave. Wave number comes after W, and then an alphabet character representing the survey section comes next. The numbers at the end indicate the question number. For the sake of efficiency, KLoSA unified the variable names across all waves. Note that the numeric part of the names had to be adjusted for this unification process. Thus, please note that some variable names in data files may not match the question numbers in the questionnaire.

The variable names of Structurally Converted Data and Light Version Data is formatted the same way as above. Generated variables, however, do not follow the above formatting but each of them are assigned with a name that is indicative of its meaning, instead of the three-digit question numbers.

w\_\_oopm

Wave # Name indicative of its meaning

(ex. out of pocket money)

After deciding on which data type to use, decide your level of analysis.

There are two types of sample in KLoSA. One is Original sample, consisting of 10,254 individuals recruited in the 2006 survey (Wave 1). The other one is Combined sample of 7,949 individuals, which includes 7,029 individuals from Original sample and 920 individuals from Refreshment sample who were newly introduced in the 2014 survey (Wave 5). Original sample has been tracked for 9 waves so far and its longitudinal weighting variable is constructed. Combined sample has been tracked for 4 waves and its longitudinal weighting variable is constructed. Therefore, a weighting variable should be selected depending on which sample is you are analyzing with. For example, for a dynamic analysis of Original sample across 9 waves, one should apply the Wave 9 longitudinal weight of Original sample (w09wgt\_p), the weight that is corrected for panel attrition. For a dynamic analysis of four waves using Combined sample, longitudinal weighting variable for Combined sample (w09wgt\_ap) should be applied. In sum, which weighting variable should be used for your analysis will vary depending on your sample type.

**< Longitudinal/Cross-sectional Weighting Variables by Wave>**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample Type | | Wave 1 | Wave 2 | Wave 3 | Wave 4 | Wave 5 | Wave 6 | Wave 7 | Wave 8 | Wave 9 |
| Original Sample | Longitudinal |  | w02wgt\_p | w03wgt\_p | w04wgt\_p | w05wgt\_p | w06wgt\_p | w08wgt\_p | w08wgt\_p | w09wgt\_p |
| Cross-sectional | w01wgt\_c | w02wgt\_c | w03wgt\_c | w04wgt\_c | w05wgt\_c | w06wgt\_c | w08wgt\_c | w08wgt\_c | w09wgt\_c |
| Combined Sample | Longitudinal |  |  |  |  |  | w06wgt\_ap | w08wgt\_ap | w08wgt\_ap | w09wgt\_ap |
| Cross-sectional |  |  |  |  | w05wgt\_ac | w06wgt\_ac | w08wgt\_ac | w08wgt\_ac | w09wgt\_ac |

Note that before Wave 5, two separate data files were released: One for Original sample and the other for Refreshment sample. However, beginning from Wave 6, Original sample and Refreshment sample (Combined sample) are included in the same raw data and a flag variable is added to distinguish between the two sample types. For this integration process, variable names of Wave 5 Refreshment sample data had to be adjusted, resulting in a discordance between variable names and its question numbers in Wave 5 questionnaire for Refreshment sample.

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| w\_\_oldnew | 1. Original panel  2. New panel |

Beginning from Wave 5, Structurally Converted Data contains information on both Original sample and Refreshment sample. When analyzing with Original sample only, users can identify Original sample using the flag variable ‘w\_\_oldnew’ (set to “1” for Original sample).

Finally, non-response imputation data are released separately. In non-response imputation files, variables that contained non-responses (variables related to income, for example) are imputed. So far we have non-response imputation data from Wave 1 to Wave 7 available. As of right now, non-response imputation data from Wave 8 and 9 are not available (available up to Wave 7). The way we construct non-response data is by replacing missing values of the raw data using statistical methods. Non-response imputation data of major variables have been released in separate files. If non-response rate of each item is negligible, some users may prefer using the raw data without bothering with missing values. However, users in need to derive more accurate results may find non-response imputation data useful. The imputation methods used in KLoSA is MI (Multiple imputation), which means that multiple methods were used to replace missing values from non-responses. Each imputation method creates its corresponding data set. Parameters are estimated by combining these data sets. Please refer to the documentation about non-response imputation for more detailed information.

KLoSA data is provided by substituting and providing non-response using a multiple imputation method of five times. In multiple imputations where one non-response is replaced with more than two values, multiple imputed values ​​reflect the uncertainty about the value in which the non-response occurred. When estimating the variance of an estimate with a multiple imputed sample, the variance resulting from the difference between several substituting values ​​is added, thus preventing the problem of underestimating the variance. However, many researchers are having difficulty using the multiple imputed data because it is not intuitive.

For this reason, when performing regression analysis and comparing the results of one imputed sample and the results of combining multiple imputed data (such as regression coefficients and standard errors estimated from the regression model), in conclusion, even if multiple imputations are performed, the results of using one of the five multiple imputed samples or a combination of five showed similar results. Therefore, for the convenience of researchers, it is also possible to consider using one of the five multiple imputed samples.

For those using KLoSA for the first time, we recommend the following steps to make the most of this extensive data set.

Step 1. Skim through Variable Matching Tables or Codebooks to grasp what variables are available in each section. Matching Tables and Codebooks are released respectively for Structurally Converted Data and Light Version Data.

Step 2. As the questionnaire includes a large number of items, we recommend users to first read a summary provided in the first page of each section and then to proceed to the questions of your interest, instead of reading the questionnaire from beginning to end.

Step 3. Decide which sample you will analyze with (Original sample or Combined sample), and as each data set (raw data, Structurally Converted Data, Light Version Data) contains different variables, select a data set that contains variables of your interest or merge the data sets.

Step 4. Detailed information on generated variables can be found in this user guide. Refer to Descriptions of Generated Variables.

The next section provides a guide on the generation process of each variable. Layout of the guide is provided in page 9 for your reference.

‘Topic’ at the top is a shared theme of the variables in each group. For example, The number of generation or The composition of household is classified under the topic “Household arrangement”. The data sets that have these variables are listed right below the topic. Variables explained in this layout are all generated variables, and these variables are not included in raw data files.

After reading a description of the variable generating process, check its variable names and values. Then, check the questions related to the variables and then read the caveats that arise from varying questions across waves. A list of raw variables that are used for the generating the variables are also provided.

Before jumping to the Description of Generated Variables, please take a look at a summary of caveats in each survey section in page 10. (page 10. [Summary] Caveats to Using KLoSA)

※ All variables of Section C. Health, E. Income, and F. Assets that are listed in this guide can be found in Structurally Converted Data. Some of these variables can be found in Light Version Data as well.

※ See [Appendices] to see how Structurally Converted Data was constructed.

Layout

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Topic : OOO  Name of the generated variable(s): OOO <- Variable(s) to be explained  Data containing these variables: Data name 1 / Data name 2 <- Data files that contain these variables  Description of the variable generation process   |  | | --- | | Description of the variable generation process and caveats  - Explanation of the variable concept and its generation process  - How questions vary across waves |  |  |  | | --- | --- | | Variable names | Variable description (values) | | OOOO | 1. OOO 2. OOO |   Examples of the questions   |  | | --- | | Examples of the questions by wave  - Questions of a certain wave(s) that differ from other waves.  - Questions that are newly added. |   Raw variables used   |  | | --- | | Raw variables by wave that were used for the variable generation process | |

**[Summary] Caveats to Using KLoSA**

□ **All Sections**

○ New data files are uploaded after data cleaning. Please re-download the updated version.

○ Longitudinal weights are recommended for time series analysis and cross-sectional weights for cross-sectional analysis

- If analyzing with Combined sample (i.e., Original sample and New sample combined), please use combined sample weights (available from Wave 5 onwards)

- Longitudinal weights for Combined sample are available for Wave 9 (Thus, longitudinal analysis is now possible.)

○ Non-response imputation data of major variables are released in separate files. Non-response imputation data from Wave 8 is not available (available up to Wave 7).

○ There are three types of time period in questions, so users must check the reference time from the questionnaire

- “The time of the survey” corresponds to the time between August and December in 2022.

- “Since the previous interview” corresponds to “from the respondent’s last participation in the survey until now”, and “During the past 12 months” corresponds to “from the current point of survey for one year”, and “In the last calendar year” corresponds to Jan. 2021 – Dec. 2021

○ For questions regarding the point of time, the month is set to “00” if the respondent did not know the month or refused to answer.

Ex) 200800, 201000, 201200

○ Lists of raw variables used for generating variables are provided up to Wave 5 in this guide—variables of Wave 6 and Wave7 are not shown here as they are very similar to variables of Wave 5. Also, if the list contains too many items, it will be abbreviated with a tilde (~).

**□ Family Section**

○ “Married” includes de facto marriage and “Separated” includes a long-term internment or a long-term sojourn in a foreign country.

○ Questions on children are asked to one representative parent and then the same value is assigned to both parents’ variables. (Ba018~Ba020, excluding questions on grandparents)

○ Financial supports includes helping to pay bills and covering specific costs for medical care, insurance, schooling, down payment for a home or rent, etc. Vouchers are classified as non-financial supports.

○ Parent(s) currently living together (Bp1\_2) and Period of living together (Bb009, Bb015) have different time references. Period of living together asks the number of co-residing months in 2015, and thus may not reflect the respondent’s current status.

○ (Generated) Parents survival (Bp1) and Parents-related combined variables (w\_\_target1, bp3~, bm3~) may have different frequencies. For example, if both parents are alive but living separately, the respondent is asked two respective sets of questions for mother and father. That is, even if Bp1 indicates that both parents are alive, w\_\_target1 can be set to “2. Father” instead of “1.Parents”, and related combined variables (bp3~) will have information on the respondent’s father. Plus, variables on mother will be non-missing as well. (Please refer to pages 39~51)

○ Private income transfer (financial support, etc.) from family members living with the respondent is investigated from Wave 2 onwards.

○ Responses on private income transfer are collected separately for family members living together and those living separately. If a certain member(s) co-resided for some months in the last calendar year and did not co-reside for the rest of the year, the respondent will respond to both sets of questions. For example, if the respondent lived with a child for one month and did not co-reside for the rest eleven months, the respondent will respond to the questions on transferred income from child(ren) not living together and also to the questions on transferred income from child(ren) living together.

**□ Health Section**

○ Questions on chronic diseases are about disease(s) that are diagnosed, not the respondent’s subjective judgment on his/her conditions.

○ Private insurances may include insurance(s) that are not bought by the respondent him/herself, but those that are bought by other family member(s) through special options.

Relevant variables: Insurance contributions for hospitalization (C322c), helper (C329c), dental treatment (C332c), oriental medicine clinic(C336c), other outpatient medical treatment (C339c), in-home care (C342c), regular prescription medications (C345c) and medical assistance equipment (C348c)

○ Different time references apply for questions on hospitalization in Wave 1 and other waves. In Wave 1, the respondent is asked only about the recent hospitalization while in other waves, the respondent is asked about hospitalization(s) that took place since the previous interview.

**□ Employment Section**

○ “Retirement” is defined as having stopped income-earning activities and currently not working or engaging only in pastime work. Also, she/he doesn’t have intention to do anything more serious than pastime work as long as there is no special change in circumstances.

○ The definition of job change:

- Moving to another workplace (wage workers), change in type of business (Non-wage workers). Job change also includes change in employment status (Wage worker 🡪 Non-wage worker. Non-wage worker 🡪 Wage worker)

○ For those who responded that she/he will not retire as long as he/she is physically capable, The ideal retirement age (D178, D249, D338, D436) is set to “0”.

○ The monthly average of a net profit (D214) is a net income excluding all the expenses, and is set to “0” if there is no net income and is set to “999997” if the respondent is running a deficit.

○ (New self-employed/Non-paid family worker) Reason for running a own business (w\_\_d\_com001) has different values between the questionnaire and Structurally Converted Data due to unification of category codes.

○ Only New sample of Wave 5 in Structurally Converted Data has In the previous (Occupational history survey) survey, Main job (before\_est) and In the previous Job (Occupational history survey), What numberth job in your life (jobseq). Questions on job history was asked in a preliminary interview which was conducted before the baseline survey of Refreshment sample. These variables are the results of this preliminary survey, and thus have different category codes.

**□ Income · Consumption Section and Assets Section**

○ Consumption information was collected from Wave 2 onwards, including the total living cost and its components: expenditure on food, dining out, public education, private education, housing, medical care, clothing, insurance, owning a car, communication, leisure, and family events/tribute fee.

○ While the KLoSA interview is conducted at the individual level, the Consumption Section is designed to represent the household-level information, and thus special attention is required when using variables from this section.

○ The responses to variables related to income and the like were initially collected on the unit of one hundred million won or ten thousand won, but all amounts are converted to the unit of ten thousand in the data files.

○ All questions in the income and consumption section asks about the amount of **last calendar** year.

○ Released data files have The person who knows the most about household income and Whether R is representative respondent for consumption section (Ea\_resp, Eb\_resp) for users’ reference.

○ Generated variables of an encompassing category is the sum of its sub-categorical items. If there is non-response(s) in any of the sub-categorical items, the encompassing variable is coded to missing.

**□ Added/Modified questions in Wave 5 and 6**

○ Demographic Section (Added)

- Added question on whether the respondent is a household head or not.

- Added question on the respondent’s subjective judgment on the number of household member(s) and the number of generation(s) in household.

○ Family Section (Modified)

- Questions on the type and the amount of private transfer from/to children – Modified from ‘choose all that apply’ question on the type(s) of private transfer to unfolding questions asking the amount of each type of transfer.

- Period of cohabitation and private income transfer – Modified from calendar-based questions to short-answer questions asking the total number of months.

○ Health Section (Added)

- Added questions on using Long-Term Care Insurance and Care Service for the Elderly

- Added questions on the digestive system disease in the subsection of chronic diseases.

○ Employment Section (Added)

- Added question on whether the respondent participated in any employment programs sponsored by the government.

○ Income Section (Added and Modified)

- Modified questions on whether the respondent earned any monthly income by income type: from calendar-based questions to short-answer questions asking the total number of months.

- From Wave 5 onwards, receipt of Basic Old-Age Pension and of Disabled Benefit are added to the existing set of social security income questions (Unemployment Compensation Benefit, Industrial Accident Compensation Insurance Benefit, National Basic Livelihood Security Benefit, Veterans Benefit, and Welfare benefits).

- Earned Income Tax Credit is added to the social security income questions in Wave 6. Question on National Basic Livelihood Security Benefit is divided into two questions, one asking the benefit received in the first half year and the other asking the benefit received in the second half year.

○ Consumption (Added)

- From Wave 5 onwards, questions about respective expenditure on insurance premium, vehicle maintenance, telecommunication, leisure, and family events/ tribute fee are added to the existing questions of the total living cost and the consumption on food.

**□ Added/Modified questions in Wave 7**

○ Demographic Section (Added and Modified)

- Added detailed question for each generation in the household composition

○ Health (Added and Modified)

- Terminology changes according to the revision of the Act on Welfare of Persons with Disabilities (mental retardation → intellectual disability)

- Added dementia to chronic diseases

- Added dental condition (number of nature teeth) and oral health-related quality of life questions

- Added new nursing grade (cognition support grade) according to the revision of the Long-Term Care Protection Act for the Elderly

- Added type of comprehensive elderly care service (dementia family vacation support service)

- Added health insurance premium unpaid/medical non-fulfillment experience questions

- Added depression scale question

○ Household Income Section (Added)

- Added questions that could identify credit delinquents

○ Household Consumption Section (Added)

- Added questions that could identify whether respondents experience difficulty paying public education expenses for children

- Added questions that could whether respondents experience difficulty paying housing and utility bills

- Added questions that could whether respondents have experience using heaters

**□ Added/Modified questions in Wave 8**

○ Employment Section (Added/ Modified)

- Added detailed questions on the Wage Peak System, Continuous Employment System, and Re-employment Education and Training regarding their general perception, types of policies, and respective impacts/effects on participants

- Added occupation codes to “unit groups” according to the 2018 Korean Employment Classification of Occupations (KECO)

\* Some occupation classifications from 2018 are incompatible with those of previous classifications

- Modified questions on Customized Care Service for older adults by specifying types of Customized Care Service available and detailing explanations for the newly implemented programs

○ Household Income Section (Modified)

- Excluded questions that could identify credit delinquents

○ Household Consumption Section (Modified)

- Excluded questions that could whether respondents experience difficulty paying public education expenses for children

- Excluded questions that could whether respondents experience difficulty paying housing and utility bills

- Excluded questions that could whether respondents have experience using heaters

○ Health Section (Modified)

- Excluded “sumcesd”, a generated variable which represents the sum of depression across all waves of Structurally Converted Data and Light Version Data)

\* As methods of determining depression diagnoses varied amongst researchers, the KLoSA team decided not to provide “sumcesd”, a formerly provided generated variable. If necessary, visit page 83 to create a type of depression diagnosis variable.

○ Enumeration District Variable (Added) (March 2021)

**□ Added/Modified questions in Wave 9**

○ Employment Section (Added/ Modified)

- Added detailed questions on the differentiation between “self-employed with employees” and “self-employed without employees,” enhancing the precision of employment status data.

- Added new categories to the employment type section, including “employees with no fixed-term contract,” “long-term fixed-term employees,” and “short-term fixed-term employees.”

- Added clarification to the definition of the wage peak system, specifying that while the system aims to reduce wages at a certain age, legal exceptions exist where the system is still valid under conditions of extended retirement or post-retirement reemployment.

- Updated descriptions of the wage peak system form, including the distinction between systems ruled invalid by the supreme court and those that can still be selected if previously implemented.

- Modified the response option for supporting elderly reemployment. The previous option “restructuring wage systems and implementing peak wage systems” has been changed to “supporting the restructuring of the wage systems (consulting etc).”

- Clarified the definition of continuous employment systems to specify the reemployment of workers within 6 months after reaching retirement age, as regulated in company rules.

- Modified questions related to re-employment after retirement age. The term “re-employment or continuing employment after the retirement age” has been simplified to “re-employment after retirement age” across the relevant questions. The structure and format of the questions remain essentially the same, with the primary change being the replacement of the term “continuing employment after retirement age” with “re-employment” for consistency.

- Updated the source of information regarding job training programs to include specialized employment websites and both public and private employment agencies.

- Added questions asking about respondents’ experience in participating in social contribution activities over the past year, utilizing their career, qualifications, or professional training.

- Added multiple-choice options for participation fields, including management and marketing, foreign languages, social services, administrative support, culture and arts, education and research, counseling and mentoring, and an “other” option for further specification.

- Added a question on frequency of participation in social contribution activities, with response options ranging from daily to yearly participation.

- Added a question asking if the respondent received compensation for these activities, with a space to specify monthly average earnings if applicable.

- Added a question assessing satisfaction with the social contribution activities, with response options ranging from “very satisfied” to “very dissatisfied.”

- Revised the question on volunteering to exclude activities related to careers, qualifications, or education training experience when reporting on participation.

- Modified the response option for participation frequency. The previous option “I do not participate in volunteer activities” has been changed to “Almost never did” to broaden the range of responses.

- Expanded the categories in pension plans to include “Defined Benefit (DB),” “Defined Contribution (DC),” and “Individual Retirement Pension (IRP),” providing a more comprehensive view of retirement income sources.

○ Household Income Section (Modified)

- Updated the year reference from 2019 to 2021.

- Adjusted the maximum pension amounts, with an increase for individuals from 300,000 KRW to 307,500 KRW, and for couples from 480,000 KRW, and for couples from 480,000 KRW to 492,000 KRW.

○ Expectations and Life Satisfaction Section (Modified)

- Added new options for selecting the pension application years 2021 and 2022, ensuring the inclusion of the most recent application periods.

**3. Descriptions of Generated Variables**

|  |
| --- |
| **Household Arrangement (The number of generation, The composition of household)** |

◆ The number of generation (w\_\_fam1), The composition of household (w\_\_fam2)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

Household arrangement variables are generated based on the relationship between the respondent and each household member. The two variables in this topic indicate major characteristics of the household. The number of generation (w\_\_fam1) indicates how many generations live together in the household, and The composition of household (w\_\_fam2) indicates whether the household is composed of a single, a couple, or grandparents and grandchildren.

How relationship between household members was collected varies across waves. In Wave 1, the respondent was asked about relationship with every person in the household, but from Wave 2 onwards, the respondent is asked only about relationship with non-participating members of the household. For example, if a couple are both survey participants, the couple will not be asked about their relationship beginning from Wave 2. However, a representative respondent will be still asked about the relationship with other non-participating household members. Thus, relationship between participating household members should be retrieved from Wave 1. In sum, household arrangement variables are generated by supplementing the relationship information retrieved from Wave 1 with the relationship of the non-participating members from each wave. (Branch household variables are derived in a different way.)

Also, note that relationship codes differ across waves. As shown in the table below, relationship codes in Wave 1 are different from those in other waves. When generating the variables, relationship codes of Wave 1 were recoded according to the codes of other waves.

The number of generation (w\_\_fam1) has categorical values of “one generation”, “two generations”, and so forth. The composition of household (w\_\_fam2) has categorical values of “single household”, “couple household”, and “grandparents-grandchildren household”. Couple household is defined as a household consisting only of a couple (husband and wife). Grandparents-grandchildren household includes household consisting of respondents’ parents, respondent, and grandchildren. (For reference, please see the example table of household arrangement on page 20.) The total number of household members (hhsize\_\_) are calculated based on the total number of non-missing relationship variables between the respondent and each household member.

※ Caveats: In Wave 5, variables of household arrangement are generated only for Original sample. From Wave 6 onwards, questions on the number of generations and the number of household members are directly asked to New/Original sample, and responses to the questions are used without any editing to generate the variables.

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| w\_\_fam1 | 1. One generation  2. Two generation  3. Three generation  4. Four generation  5. Others |
| w\_\_fam2 | 0. Single household  1. Couple household  2. Grandparents-grandchildren household  3. 1st generation  4. 2nd generation  5. 3rd generation  6. 4th generation  7. Others |
| hhsize\_\_ | \_\_\_\_\_\_\_\_\_ (unit: individual) |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 1 [Loop as many times as the total number of household members]  CV018. What is [HH MEMBER’s name]’s relationship to you?  [3] Son/daughter  [4] Son-in-law/daughter-in-law  [5] Father/mother  [6] Father-in-law/mother-in-law  [7] Brother/sister  [8] Grandchild  [9] Others  ⇒ CV022  Wave 5 [Loop as many times as the number of non-panel household members (loop)] < Same question for Wave 2, 3, and 4 >  CV007. What is [HH MEMBER’s name]’s relationship to you?  Father/mother →Go to CV009  Father‐in‐law/mother‐in‐law →Go to CV009  Spouse →Go to CV009  Son/daughter →Go to CV009  Son‐in‐law/daughter‐in‐law →Go to CV009  Brother/sister →Go to CV009  Grandchild →Go to CV009  Child of brother/sister →Go to CV009  Brother-in-law/sister-in-law →Go to CV009  Child of brother-in-law/sister-in-law →Go to CV009  Spouse of grandchild →Go to CV009  Great-grandchild →Go to CV009  Others →Go to CV008  \*\* New questions of Wave 6 that directly ask about the number of household members and the number of generation.  CV012\_sum. What is the total number of household members you currently live with, including all non-panel household members? Please tell the number of total household members including yourself.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [Range: 1 ~ 20]  CV012\_gn. How many generations are included in the number of total household members you just mentioned at [CV012\_sum]? ‘Generation’ means that ‘one generation is for a single person household or a couple household’, ‘two generation is for the parents with children’, and ‘three generation is for a grandparents, children and grandchildren’, etc.  ①One generation : Couple household, Single household, etc.  ②Two generation : Parents-children, Grandparents-grandchildren, etc.  ③Three generation : Grandparents-children-grandchildren  ④Four generation : Grandparents-children-grandchildren-great grandchildren |

◆ Raw variables used

| **Variable description** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| --- | --- | --- | --- | --- |
| Relationship between…  respondent and 1st non-panel HH member  respondent and 2nd non-panel HH member  respondent and 3rd non-panel HH member  respondent and 4th non-panel HH member  respondent and 5th non-panel HH member  respondent and 6th non-panel HH member  respondent and 7th non-panel HH member  respondent and 8th non-panel HH member  respondent and 9th non-panel HH member  respondent and 10th non-panel HH member | w02CV007\_01  w02CV007\_02  w02CV007\_03  w02CV007\_04  w02CV007\_05  w02CV007\_06  w02CV007\_07  w02CV007\_08  w02CV007\_09 | w03CV007\_01  w03CV007\_02  w03CV007\_03  w03CV007\_04  w03CV007\_05  w03CV007\_06  w03CV007\_07 | w04CV007\_01  w04CV007\_02  w04CV007\_03  w04CV007\_04  w04CV007\_05  w04CV007\_06  w04CV007\_07  w04CV007\_08  w04CV007\_09  w04CV007\_10 | w05CV007\_01  w05CV007\_02  w05CV007\_03  w05CV007\_04  w05CV007\_05  w05CV007\_06  w05CV007\_07  w05CV007\_08  w05CV007\_09  w05CV007\_10 |
| Relationship between respondent and panel HH member  < Collected only in Wave 1 > | W01 relationship | W01 relationship  W02 relationship | W01 relationship  W02 relationship  W03 relationship | W01 relationship  W02 relationship  W03 relationship  W04 relationship |

|  |  |
| --- | --- |
| **Variable description** | **Wave 1** |
| Relationship between …  respondent and 1st HH member  respondent and spouse of 1st HH member  respondent and 2nd HH member  respondent and spouse of 2nd HH member  respondent and 3rd HH member  respondent and spouse of 3rd HH member  respondent and 4th HH member  respondent and spouse of 4th HH member  respondent and 5th HH member  respondent and spouse of 5th HH member  respondent and 6th HH member  respondent and spouse of 6th HH member  respondent and 7th HH member  respondent and spouse of 7th HH member  respondent and 8th HH member  respondent and spouse of 8th HH member | CV018\_01  CV027\_01  CV018\_02  CV027\_02  CV018\_03  CV027\_03  CV018\_04  CV027\_04  CV018\_05  CV027\_05  CV018\_06  CV027\_06  CV018\_07  CV027\_07  CV018\_08  CV027\_08 |

Example table for ‘Household arrangement’

| **The number of generation (w\_\_fam1)** | **The composition of household (w\_\_fam2)** | **Examples of household members** |
| --- | --- | --- |
| One generation | Single household | Respondent |
| Couple household | Respondent, Spouse |
| One generation | Respondent, Sibling |
| Two generation | Grandparents-grandchildren household | Respondent(Spouse),(Great-)grandchild(ren) |
| Two generation | Respondent,Unmarried child(ren) |
| Respondent,Spouse,Unmarried child(ren) |
| Respondent,Married child(ren) |
| Respondent,Married/Unmarried child(ren) |
| Respondent,Married/Unmarried child(ren),Son/daughter-in-law |
| Respondent,Married child(ren),Son/daughter-in-law |
| Respondent,Son/daughter-in-law |
| Respondent,Spouse,Married child(ren) |
| Respondent,Spouse,Married child(ren),Son/daughter-in-law |
| Respondent,Spouse,Married/Unmarried child(ren) |
| Respondent,Sibling,Unmarried child(ren) |
| Respondent (Spouse),Single parent |
| Respondent (Spouse),Foster parent(s) |
| Three generation | Three generation | Respondent,Unmarried child(ren),Grandchild(ren) |
| Respondent,Spouse,Unmarried child(ren),Grandchild(ren) |
| Respondent,Son/daughter-in-law,Grandchild(ren) |
| Respondent,Married child(ren),Grandchild(ren) |
| Respondent,Married child(ren),Son/daughter-in-law,Grandchild(ren) |
| Respondent,Married/Unmarried child(ren),Grandchild(ren) |
| Respondent,Married/Unmarried child(ren),Son/daughter-in-law,Grandchild(ren) |
| Respondent,Unmarried child(ren),Son/daughter-in-law,Grandchild(ren) |
| Respondent,Married/Unmarried child(ren),Son/daughter-in-law,Grandchild(ren) |
| Respondent,Married child(ren),Great-grandchild(ren) |
| Respondent, Spouse ,Son/daughter-in-law,Grandchild(ren) |
| Respondent,Spouse,Married child(ren),Grandchild(ren) |
| Respondent,Spouse,Married child(ren),Son/daughter-in-law,Grandchild(ren) |
| Respondent,Spouse,Married/Unmarried child(ren),Son/daughter-in-law,Grandchild(ren) |
| Respondent,Spouse,Married/Unmarried child(ren),Grandchild(ren) |
| Respondent, Single parent,Unmarried child(ren) |
| Respondent, Single parent, Spouse,Unmarried child(ren) |
| Grandparents-grandchildren household | Respondent, Single parent,Grandchild(ren) |
| Respondent(Spouse), Single parent, Great-grandchild(ren) |
| Three generation | Respondent, Foster parent(s),Unmarried child(ren) |
| Respondent, Single parent,Married child(ren),Son/daughter-in-law |
| Respondent, Single parent,Married/Unmarried child(ren) |
| Four generation | Four generation | Respondent, Single parent,Married child(ren),Grandchild(ren) |
| Respondent, Single parent,Unmarried child(ren),Grandchild(ren) |
| Others | Others | Respondent, Another HH member  Respondent, Other HH members |

|  |
| --- |
| **Spouse information (Birth year, educational background, employment condition)** |

◆ Birth year(w\_\_year2), Educational background (w\_\_edu\_s), Employment condition (w\_\_ecoact\_s)

◆ Data containing these variables: Light Version Data

For spouse information, variables indicating the birth year, the current level of education, and the current condition of employment are generated. If the respondent’s spouse is an interview participant as well, the spouse is asked about her/his Birth year, Educational background, Employment condition in his/her own survey (for all waves). In such case, the respondent’s variables about his/her spouse were set to missing (NULL). In order to generate variables of spouse information, the respondent’s spouse is identified using the relationship variable, and then Birth year, Educational background and Employment condition of the respondent’s spouse are obtained from the spouse’s own survey data.

The KLoSA survey asks the respondent whether there are any errors in information reported in the previous interview and whether the respondent made any transitions to further education. Based on these questions, Current level of education (w\_\_edu) is derived. Thus, any errors found in the previous survey data and any further educational attainment are both reflected in this generated variable. If the respondent’s spouse is an interview participant as well, the spouse’s education is retrieved from Current level of education (w\_\_edu) of the spouse’s own survey data.

If the respondent’s spouse is not an interview participant, the respondent is directly asked about the education level, birth year, and employment condition of his/her spouse. In such case, the respondent is asked whether there are any errors from the previous survey data and whether the spouse achieved any further education. Birth year is asked using the same method. Beginning from Wave 2, based on the spouse information collected in Wave 1, the respondent is asked whether there were any changes to the information when the following conditions are met: First, the spouse is not an interview participant and second, the spouse is the same person as in the previous interview. Thus, if there were no changes in the spouse’s educational status, information should be retrieved from the previous survey data. From Wave 3 onwards, irregular participation in the KLoSA interviews may take place. For such respondents, spouse’s information (Birth year, Education) should be retrieved from the last participated interview. Note that the information of the spouse is retrieved from previous interviews only if no changes are made to the respondent’s marriage status. Questions on employment condition asks only about the current condition of employment, so no information is retrieved from the previous survey data.

For respondents who re-married, questions about the new spouse (Birth year, Education, Employment condition) are asked.

Educational background is derived using information on the completion of the education. This variable has values of “elementary school graduation or less”, “middle school graduation”, “high school graduation”, “college/university graduation or higher”. If the respondent’s spouse is an interview participant, Employment condition is a copy of Current economic activity from the spouse’s survey data in Section D. Employment (Please see “Economic activity status” in p.113 for reference). If the spouse is not an interview participant, responses to this question are classified into “employed”, “unemployed”, and “economically inactive”. When the spouse is employed “1. Full time. 2. Part time”, Employment condition is set to “employed”, if the spouse is “4. Currently looking for a job”, it is set to “unemployed”, if the spouse is 3, 5, or 6, it is set to “economically inactive”, and if the spouse is “97”, the variable is set to “others” (see the interview questions below.)

※ Caveats: Spouse information is available only for married respondents. If the respondent is not currently married or does not have a spouse (i.e., widowed, separated, or divorced), there is no spouse information. If the spouse was a target participant in Wave 1 but was not successfully interviewed, the spouse variables are set to “-888”. If the respondent was not married in Wave 1, the spouse variables (Education, Employment condition, Birth year) is set to “-6”

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| w\_\_year2 | Year \_\_\_\_\_\_ |
| w\_\_edu\_s | 1. ~Elementary school  2. Middle school  3. High school  4. College/ University ~ |
| w\_\_ecoact\_s | 1. Employed  2. Unemployed  3. Economically inactive population |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions identifying whether spouse is an interview participant.  Logic  • If a respondent has a spouse now, then go to A016.  A016. Did your current spouse participate in the previous KLoSA survey?  ①Yes →Go to A030  ⑤No →Go to A017 (In case the same spouse with the previous interview)  Logic  • A017~A029 are to get basic information on R’s spouse and only for the case that the spouse is currently married to R and non-panel.  A017. Is your spouse’s name [spouse’s name]?  ①Yes →Go to A019  ⑤No  \*A017~A029 : questions on educational background and employment condition of spouse  Wave 5. Questions on spouse employment condition  A028. Now I would like to know about your spouse’s current employment status. Please answer if your spouse is currently employed, temporarily laid off, looking for work, retired, or has never been employed. If she/he is employed, please answer if she/he works full time or part time.  [IWER: Retirement refers to having stopped income-earning activities and currently not working or engaging only in pastime work. Also, she/he doesn’t have intention to do anything more serious than pastime work as long as there is no special change in circumstances.]  ①Full-time worker →Go to A030  ②Part-time worker →Go to A030  ③Temporarily laid off on sick or other leave →Go to A030  ④Unemployed and looking for work →Go to A030  ⑤Retired →Go to A030  ⑥Haven’t worked after marriage →Go to A030  [97] Others |

◆ Raw variables used

[Birth year]

| **Variable description** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** | **Wave 6** |
| --- | --- | --- | --- | --- | --- | --- |
| Condition 1: spouse is non-participating panel member  Re-check spouse birth year  Spouse birth year |  | w02a019  w02a020 | w03a019  w03a020 | w04a019  w04a020 | w05a019  w05a020 | w06a019  w06a020 |
| Condition 2: (Condition 1 & no changes in spouse information) or spouse is participating panel member & did not participate in survey  Wave 1 spouse birth year  Wave 2 spouse birth year  Wave 3 spouse birth year  Wave 4 spouse birth year  Wave 5 spouse birth year | w01year2 | w01year2 | w01year2  w02year2 | w01year2  w02year2  w03year2 | w01year2  w02year2  w03year2  w04year2 | w01year2  w02year2  w03year2  w04year2  w05year2 |
| Condition 3: spouse is participating panel member  Respondent birth year |  | w02a002y | w03a002y | w04a002y | w05a002y | w06a002y |

[Educational background]

| **Variable description** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** | **Wave 6** |
| --- | --- | --- | --- | --- | --- | --- |
| Condition 1: spouse is non-participating panel member  Re-check spouse education  Spouse education (Level)  Spouse education (Completion)  Spouse further education  Spouse further education (Level) | w01a022  w01a024 | w02a021  w02a022  w02a024  w02a025  w02a026 | w03a021  w03a022  w03a024  w03a025  w03a026 | w04a021  w04a022  w04a024  w04a025  w04a026 | w05a021  w05a022  w05a024  w05a025  w05a026 | w06a021  w06a022  w06a024  w06a025  w06a026 |
| Condition 2: (Condition 1 & no changes in spouse information) or spouse is participating panel member & did not participate in survey  Wave 1 spouse highest level of edu  Wave 2 spouse highest level of edu  Wave 3 spouse highest level of edu  Wave 4 spouse highest level of edu  Wave 5 spouse highest level of edu | w01edu\_s | w01edu\_s | w01edu\_s  w02edu\_s | w01edu\_s  w02edu\_s  w03edu\_s | w01edu\_s  w02edu\_s  w03edu\_s  w04edu\_s | w01edu\_s  w02edu\_s  w03edu\_s  w04edu\_s  w05edu\_s |
| Condition 3: spouse is participating panel member  Respondent highest level of edu | w01edu | w02edu | w03edu | w04edu | w05edu | w06edu |

[Employment condition]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable description** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** | **Wave 6** |
| Condition 1: spouse is non-participating panel member  Spouse current employment condition | w01a028 | w02a028 | w03a028 | w04a028 | w05a028 | w06a028 |
| Condition 3: spouse is participating panel member  Respondent current employment condition | w01ecoact | w02ecoact | w03ecoact | w04ecoact | w05ecoact | w06ecoact |

|  |
| --- |
| **Children information 1 (The number of children living together, The number of children within 30 minutes, The number of unmarried children living together)** |

◆ The number of children living together (w\_\_livewith), The number of children within 30 minutes (w\_\_livenear), The number of unmarried children living together (w\_\_livewithnm)

◆ Data containing these variables: Light Version Data

Variables of this topic are summary variables based on the information collected about each child. For example, The number of children living together(w\_\_livewith) indicates the total number of co-residing children, which is constructed using the variables The 1st child is currently co-residing with me, The 2nd child is currently co-residing with me, up to The 10th child is currently co-residing with me. The number of children within 30 minutes is generated using the same method. The number of unmarried children living together (w\_\_livewithnm) is the total number of children living together with the respondent whose marital status is “5. Never married”

※ Caveats: For all variables of Section Ba. Children, values of one representing respondent are copied to the spouse’s variables.

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| The number of children living together (w\_\_livewith) | \_\_\_\_\_\_ (Unit: individual) |
| The number of children within 30 minutes (w\_\_livenear) | \_\_\_\_\_\_(Unit: individual) |
| The number of unmarried children living together (w\_\_livewithnm) | \_\_\_\_\_\_(Unit: individual) |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on the current co-residence with nth child [Logic: Loop as many times as the number of children.]  Ba013. Is [child's name] currently co-residing with you?  [IWER: If the child lives away from home due to study or work, he/she is not co-residing with R.  Response in the previous interview: co-residing/not co-residing]  ①Yes  ⑤NO  Wave 5. Questions on the marital status of nth child [Logic: Loop as many times as the number of children.]  Ba016. What is [child's name]’s current marital status?  [IWER: Response in the previous interview: [child’s marital status]]  ①Married or living with a partner  ②Separated  ③Divorced  ④Widowed or missing (dispersed family)  ⑤Never married  ⑧Don’t know  ⑨Refuse to answer  Wave 5. Questions on the neighboring characteristic of nth child [Logic: Loop as many times as the number of children.]  Ba018. [Not live together\_ask to each member of the couple] How close does [child's name] live to you?  ①Within a 30‐minute distance by public transportation  ②Within a 1‐hour distance by public transportation  ③Within a 2‐hour distance by public transportation  ④More than a 2‐hour distance by public transportation |

◆ Raw variables used

[The number of children living together]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Current co-residence with nth child** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The 1st child is currently co-residing with me  The 2nd child is currently co-residing with me  The 3rd child is currently co-residing with me  The 4th child is currently co-residing with me  The 5th child is currently co-residing with me  The 6th child is currently co-residing with me  The 7th child is currently co-residing with me  The 8th child is currently co-residing with me  The 9th child is currently co-residing with me  The 10th child is currently co-residing with me | w01Ba013\_01  w01Ba013\_02  w01Ba013\_03  w01Ba013\_04  w01Ba013\_05  w01Ba013\_06  w01Ba013\_07  w01Ba013\_08  w01Ba013\_09  w01Ba013\_10 | w02Ba013\_01  w02Ba013\_02  w02Ba013\_03  w02Ba013\_04  w02Ba013\_05  w02Ba013\_06  w02Ba013\_07  w02Ba013\_08  w02Ba013\_09  w02Ba013\_10 | w03Ba013\_01  w03Ba013\_02  w03Ba013\_03  w03Ba013\_04  w03Ba013\_05  w03Ba013\_06  w03Ba013\_07  w03Ba013\_08  w03Ba013\_09  w03Ba013\_10 | w04Ba013\_01  w04Ba013\_02  w04Ba013\_03  w04Ba013\_04  w04Ba013\_05  w04Ba013\_06  w04Ba013\_07  w04Ba013\_08  w04Ba013\_09  w04Ba013\_10 | w05Ba013\_01  w05Ba013\_02  w05Ba013\_03  w05Ba013\_04  w05Ba013\_05  w05Ba013\_06  w05Ba013\_07  w05Ba013\_08  w05Ba013\_09  w05Ba013\_10 |

[The number of children within 30 minutes]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Neighboring characteristic of nth child** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The 1st child’s neighboring characteristic  The 2nd child’s neighboring characteristic  The 3rd child’s neighboring characteristic  The 4th child’s neighboring characteristic  The 5th child’s neighboring characteristic  The 6th child’s neighboring characteristic  The 7th child’s neighboring characteristic  The 8th child’s neighboring characteristic  The 9th child’s neighboring characteristic  The 10th child’s neighboring characteristic | w01Ba018\_01  w01Ba018\_02  w01Ba018\_03  w01Ba018\_04  w01Ba018\_05  w01Ba018\_06  w01Ba018\_07  w01Ba018\_08  w01Ba018\_09  w01Ba018\_10 | w02Ba018\_01  w02Ba018\_02  w02Ba018\_03  w02Ba018\_04  w02Ba018\_05  w02Ba018\_06  w02Ba018\_07  w02Ba018\_08  w02Ba018\_09  w02Ba018\_10 | w03Ba018\_01  w03Ba018\_02  w03Ba018\_03  w03Ba018\_04  w03Ba018\_05  w03Ba018\_06  w03Ba018\_07  w03Ba018\_08  w03Ba018\_09  w03Ba018\_10 | w04Ba018\_01  w04Ba018\_02  w04Ba018\_03  w04Ba018\_04  w04Ba018\_05  w04Ba018\_06  w04Ba018\_07  w04Ba018\_08  w04Ba018\_09  w04Ba018\_10 | w05Ba018\_01  w05Ba018\_02  w05Ba018\_03  w05Ba018\_04  w05Ba018\_05  w05Ba018\_06  w05Ba018\_07  w05Ba018\_08  w05Ba018\_09  w05Ba018\_10 |

[The number of unmarried children living together] : constructed from The number of children living together variable & Marital status of the children

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Marital status of nth child** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The 1st child’s marital status  The 2nd child’s marital status  The 3rd child’s marital status  The 4th child’s marital status  The 5th child’s marital status  The 6th child’s marital status  The 7th child’s marital status  The 8th child’s marital status  The 9th child’s marital status  The 10th child’s marital status | w01Ba016\_01  w01Ba016\_02  w01Ba016\_03  w01Ba016\_04  w01Ba016\_05  w01Ba016\_06  w01Ba016\_07  w01Ba016\_08  w01Ba016\_09  w01Ba016\_10 | w02Ba016\_01  w02Ba016\_02  w02Ba016\_03  w02Ba016\_04  w02Ba016\_05  w02Ba016\_06  w02Ba016\_07  w02Ba016\_08  w02Ba016\_09  w02Ba016\_10 | w03Ba016\_01  w03Ba016\_02  w03Ba016\_03  w03Ba016\_04  w03Ba016\_05  w03Ba016\_06  w03Ba016\_07  w03Ba016\_08  w03Ba016\_09  w03Ba016\_10 | w04Ba016\_01  w04Ba016\_02  w04Ba016\_03  w04Ba016\_04  w04Ba016\_05  w04Ba016\_06  w04Ba016\_07  w04Ba016\_08  w04Ba016\_09  w04Ba016\_10 | w05Ba016\_01  w05Ba016\_02  w05Ba016\_03  w05Ba016\_04  w05Ba016\_05  w05Ba016\_06  w05Ba016\_07  w05Ba016\_08  w05Ba016\_09  w05Ba016\_10 |

|  |
| --- |
| **Children information 2 (The number of children meeting at least once a week, The number of children contacted at least once a week)** |

◆ The number of children meeting at least once a week (w\_\_contact1), The number of children contacted at least once a week (w\_\_contact2)

◆ Data containing these variables: Light Version Data

The respondent is asked about the frequency of meeting in person with each child from the first child to the tenth, and The number of children meeting at least once a week (w\_\_contact1) indicates the total number of children whose frequency of meeting the respondent in person is once a week or more. “Once a week or more” corresponds to “1. Almost every day (more than 4 times per week)”, “2. Once a week”, or “3. 2~3 times a week”.

The number of children contacted at least once a week (w\_\_contact2) indicates the total number of children who contacts with the respondent through telephone, mail, or E-mail once a week or more. “Once a week or more” corresponds to “1. Almost every day (more than 4 times per week)”, “2. Once a week”, or “3. 2~3 times a week”

※ Caveats: For all variables of Section Ba. Children, values of one representing respondent are copied to the spouse’s variables.

|  |  |
| --- | --- |
| Variable name | Values |
| w\_\_contact1 | \_\_\_\_\_\_ (Unit: individual) |
| w\_\_contact2 | \_\_\_\_\_\_ (Unit: individual) |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on the frequency of meeting in person/contact with nth child [Logic: Loop as many times as the number of children.]  Ba019. [Not live together\_ask to each member of the couple] How often do you meet [child's name] in person?  ①Almost every day (more than 4 times per week)  ②Once a week  ③2~3 times a week  ④Once a month  ⑤Twice a month (every two weeks)  ⑥Once or twice a year  ⑦Three or four times a year (once every three or four months)  ⑧Five or six times a year (every two months)  ⑨Almost never a year  ⑩Never met  Ba020. [Not live together\_ask to each member of the couple] How often do you contact [child's name] by phone, mail or e-mail?  ①Almost every day (more than 4 times per week)  ②Once a week  ③2~3 times a week  ④Once a month  ⑤Twice a month (every two weeks)  ⑥Once or twice a year  ⑦Three or four times a year (once every three or four months)  ⑧Five or six times a year (every two months  ⑨Almost never a year  ⑩Never contacted |

◆ Raw variables used

[The number of children meeting at least once a week]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **The frequency of meeting** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The frequency which 1st child meets (in person)  The frequency which 2nd child meets (in person)  The frequency which 3rd child meets (in person)  The frequency which 4th child meets (in person)  The frequency which 5th child meets (in person)  The frequency which 6th child meets (in person)  The frequency which 7th child meets (in person)  The frequency which 8th child meets (in person)  The frequency which 9th child meets (in person)  The frequency which 10th child meets (in person) | w01Ba019\_01  w01Ba019\_02  w01Ba019\_03  w01Ba019\_04  w01Ba019\_05  w01Ba019\_06  w01Ba019\_07  w01Ba019\_08  w01Ba019\_09  w01Ba019\_10 | w02Ba019\_01  w02Ba019\_02  w02Ba019\_03  w02Ba019\_04  w02Ba019\_05  w02Ba019\_06  w02Ba019\_07  w02Ba019\_08  w02Ba019\_09  w02Ba019\_10 | w03Ba019\_01  w03Ba019\_02  w03Ba019\_03  w03Ba019\_04  w03Ba019\_05  w03Ba019\_06  w03Ba019\_07  w03Ba019\_08  w03Ba019\_09  w03Ba019\_10 | w04Ba019\_01  w04Ba019\_02  w04Ba019\_03  w04Ba019\_04  w04Ba019\_05  w04Ba019\_06  w04Ba019\_07  w04Ba019\_08  w04Ba019\_09  w04Ba019\_10 | w05Ba019\_01  w05Ba019\_02  w05Ba019\_03  w05Ba019\_04  w05Ba019\_05  w05Ba019\_06  w05Ba019\_07  w05Ba019\_08  w05Ba019\_09  w05Ba019\_10 |

[The number of children contacted at least once a week]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **The frequency of contact** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The frequency which 1st child contacts  The frequency which 2nd child contacts  The frequency which 3rd child contacts  The frequency which 4th child contacts  The frequency which 5th child contacts  The frequency which 6th child contacts  The frequency which 7th child contacts  The frequency which 8th child contacts  The frequency which 9th child contacts  The frequency which 10th child contacts | w01Ba020\_01  w01Ba020\_02  w01Ba020\_03  w01Ba020\_04  w01Ba020\_05  w01Ba020\_06  w01Ba020\_07  w01Ba020\_08  w01Ba020\_09  w01Ba020\_10 | w02Ba020\_01  w02Ba020\_02  w02Ba020\_03  w02Ba020\_04  w02Ba020\_05  w02Ba020\_06  w02Ba020\_07  w02Ba020\_08  w02Ba020\_09  w02Ba020\_10 | w03Ba020\_01  w03Ba020\_02  w03Ba020\_03  w03Ba020\_04  w03Ba020\_05  w03Ba020\_06  w03Ba020\_07  w03Ba020\_08  w03Ba020\_09  w03Ba020\_10 | w04Ba020\_01  w04Ba020\_02  w04Ba020\_03  w04Ba020\_04  w04Ba020\_05  w04Ba020\_06  w04Ba020\_07  w04Ba020\_08  w04Ba020\_09  w04Ba020\_10 | w05Ba020\_01  w05Ba020\_02  w05Ba020\_03  w05Ba020\_04  w05Ba020\_05  w05Ba020\_06  w05Ba020\_07  w05Ba020\_08  w05Ba020\_09  w05Ba020\_10 |

|  |
| --- |
| **Siblings information (The number of alive sibling, The number of sibling living together)** |

◆ The number of alive sibling (w\_\_s\_sum), The number of sibling living together (w\_\_l\_sum)

◆ Data containing these variables: Light Version Data

In Wave 1, the respondent is asked about the number of brothers/sisters who are alive, and information related to each sibling (relationship with the respondent, age, etc.) is collected. From Wave 2 onwards, the respondent is asked whether each brother/sister is alive based on the sibling information from Wave 1. The variables of this topic are generated by either using direct responses collected in Wave 1 or from Wave 2 onwards, by counting the number of siblings who are alive. (See interview questions below.)

The respondent is asked whether respondent is living with each of the sibling. Based on this variable, The total number of siblings living together is generated.

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| w\_\_s\_sum | \_\_\_\_\_\_ (Unit: individual) |
| w\_\_l\_sum | \_\_\_\_\_\_ (Unit: individual) |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Survival/Co-residence of nth sibling [Logic: Loop as many times as the number of siblings.]  Bb001. Now I am going to ask you about your sibling, [sibling's name]. Is [sibling's name] currently alive? [IWER: This question is intended to find out whether R’s sibling has died or not.]   1. Yes →Go to Bb003 ⑤ No (passed away)   Bb003. Does [sibling's name] live with you?  ①Yes ⑤ No  \*\* Wave 1. Survival/Co-residence of nth sibling  B001. Now I am going to ask you about your sibling. How many siblings are currently alive? (unit: the number of siblings)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (unit: number of siblings) [Range: 0~20] (If zero, go to B006)  [Logic: Loop as many times as the number of siblings.]  B187. Does [sibling's name] live with you?   1. Yes ⑤ No |

◆ Raw variables used

[The number of alive sibling]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Survival of nth sibling** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| 1st sibling survival  2nd sibling survival  3rd sibling survival  4th sibling survival  5th sibling survival  6th sibling survival  7th sibling survival  8th sibling survival  9th sibling survival  10th sibling survival  11th sibling survival  12th sibling survival  13th sibling survival  14th sibling survival | w01B001 | w02Bb001\_01  w02Bb001\_02  w02Bb001\_03  w02Bb001\_04  w02Bb001\_05  w02Bb001\_06  w02Bb001\_07  w02Bb001\_08  w02Bb001\_09  w02Bb001\_10  w02Bb001\_11  w02Bb001\_12  w02Bb001\_13  w02Bb001\_14 | w03Bb001\_01  w03Bb001\_02  w03Bb001\_03  w03Bb001\_04  w03Bb001\_05  w03Bb001\_06  w03Bb001\_07  w03Bb001\_08  w03Bb001\_09  w03Bb001\_10  w03Bb001\_11  w03Bb001\_12  w03Bb001\_13  w03Bb001\_14 | w04Bb001\_01  w04Bb001\_02  w04Bb001\_03  w04Bb001\_04  w04Bb001\_05  w04Bb001\_06  w04Bb001\_07  w04Bb001\_08  w04Bb001\_09  w04Bb001\_10  w04Bb001\_11  w04Bb001\_12  w04Bb001\_13  w04Bb001\_14 | w05Bb001\_01  w05Bb001\_02  w05Bb001\_03  w05Bb001\_04  w05Bb001\_05  w05Bb001\_06  w05Bb001\_07  w05Bb001\_08  w05Bb001\_09  w05Bb001\_10  w05Bb001\_11  w05Bb001\_12  w05Bb001\_13  w05Bb001\_14 |

[The number of sibling living together]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Co-residence with nth sibling** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Co-residing with 1st sibling or not  Co-residing with 2nd sibling or not  Co-residing with 3rd sibling or not  Co-residing with 4th sibling or not  Co-residing with 5th sibling or not  Co-residing with 6th sibling or not  Co-residing with 7th sibling or not  Co-residing with 8th sibling or not  Co-residing with 9th sibling or not  Co-residing with 10th sibling or not  Co-residing with 11th sibling or not  Co-residing with 12th sibling or not  Co-residing with 13th sibling or not  Co-residing with 14th sibling or not | w01B003\_01  w01B003\_02  w01B003\_03  w01B003\_04  w01B003\_05  w01B003\_06  w01B003\_07  w01B003\_08  w01B003\_09  w01B003\_10  w01B003\_11  w01B003\_12  w01B003\_13  w01B003\_14 | w02B003\_01  w02B003\_02  w02B003\_03  w02B003\_04  w02B003\_05  w02B003\_06  w02B003\_07  w02B003\_08  w02B003\_09  w02B003\_10  w02B003\_11  w02B003\_12  w02B003\_13  w02B003\_14 | w03B003\_01  w03B003\_02  w03B003\_03  w03B003\_04  w03B003\_05  w03B003\_06  w03B003\_07  w03B003\_08  w03B003\_09  w03B003\_10  w03B003\_11  w03B003\_12  w03B003\_13  w03B003\_14 | w04B003\_01  w04B003\_02  w04B003\_03  w04B003\_04  w04B003\_05  w04B003\_06  w04B003\_07  w04B003\_08  w04B003\_09  w04B003\_10  w04B003\_11  w04B003\_12  w04B003\_13  w04B003\_14 | w05B003\_01  w05B003\_02  w05B003\_03  w05B003\_04  w05B003\_05  w05B003\_06  w05B003\_07  w05B003\_08  w05B003\_09  w05B003\_10  w05B003\_11  w05B003\_12  w05B003\_13  w05B003\_14 |

|  |
| --- |
| **Information on parents** |

◆ Parents survival (w\_\_bp1)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

Parents survival (w\_\_bp1) is generated using two raw variables, Father survival (w\_\_Bb004) and Mother survival (w\_\_Bb010). The question on parental survival is skipped in the following waves if the respondent reported the death of the parent. Thus, if a variable on a parent’s survival is missing in a certain wave, the parent is assumed to have passed away at a prior wave and Parents survival (w\_\_bp1) is derived. Survival of both parents corresponds to responding “1. Yes” to both Father survival (w\_\_Bb004) and Mother survival (w\_\_Bb010).

※ Caveats:

1) For Wave 1, the values of Parental survival are different from those of other waves. The possible answers of Wave 1 were “Yes”, “No, dead”, and “Missing (Dispersed family)”, which differ from other waves where the third option is not given. If the respondent reported his/her parent(s) as “Missing”, the respondent is not asked about the parent’s survival in the following waves. Thus, for the consistency of data, “Missing (Separated family)” is considered equivalent to “No, dead” when generating Parents survival.

2) Also, Parents survival (w\_\_Bp1)’ and ‘Parents-related combined variables (w\_\_target1) may have different frequencies. For example, if both parents are alive but living separately, the respondent is asked respective questions for each of the parents. In this case, w\_\_target1 will contain information only about the father, not about both parents.

|  |  |
| --- | --- |
| **Variable Name** | **Values** |
| w\_\_bp1 | 1. Both survival  2. Father Survival  3. Mother Survival  4. Both dead or disappeared |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on parental survival  Bb004. Now I have some questions about your father. Is [father’s name] currently alive?  [IWER: This question is intended to find out whether R’s father has died or not.]  ①Yes →Go to Ba006 ⑤ No (passed away)  Bb010. Now I have some questions about your mother. Is [mother’s name] currently alive?  [IWER: This question is intended to find out whether R’s mother has died or not.]  ①Yes →Go to Ba012 ⑤ No (passed away)  \*\*Wave 1. Questions on parental survival  B010. Is your father alive?  ①Yes  ②Missing (Dispersed family) →Go to B016  ③No →Go to B014  B020. Is your mother alive?  ①Yes  ②Missing (Dispersed family) →Go to B065  ③No →Go to B024 |

◆ Raw variables used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parents survival** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Father survival  Mother survival | w01Bb004  w01Bb010 | w02Bb004  w02Bb010 | w03Bb004  w03Bb010 | w04Bb004  w04Bb010 | w05Bb004  w05Bb010 |

|  |
| --- |
| **Information on co-residence with parents (Respondent currently living with parents or not, Parents currently living with the respondent, The period of living together in the previous year)** |

◆ Respondent currently living with parents or not(w\_\_bp1\_1), Parents currently living with the respondent(w\_\_bp1\_2), The period of living with father/mother in the previous year (w\_\_Bb009, w\_\_Bb015)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

Respondent currently living with parents or not (bp1\_1) is generated based on the information from Parents survival (bp1) and co-residence variables. If at least one parent is living together with the respondent, Respondent currently living with parents or not (bp1\_1) is set to “1. Yes”, and the co-residing parent can be identified using bp1\_2. There may be cases where surviving parents of Parents survival (bp1) do not match Parents currently living with the respondent (bp1\_2).

Note that regarding Parents currently living with the respondent (bp1\_2) and Respondent currently living with parents or not (bp1\_1), the respondent is asked whether he/she is co-residing with his/her parents at the time of the interview. On the other hand, whether the respondent was living with his/her parent in the last calendar year can be determined using The period of living with father/mother in the previous year (w\_\_Bb009, w\_\_Bb015). If The period of living with father/mother in the previous year (w\_\_Bb009, w\_\_Bb015) has non-missing value(s), the respondent was living with the parent(s) for some time in the last calendar year.

The variables w\_\_Bb009 and w\_\_Bb015 that are used in variable generation can be found in Structurally Converted Data. These variables are derived from calendar-based responses in raw data (Wave 2-4). From Wave 5 onwards, responses are collected by asking the total duration of co-residence. In Wave 1, information on whether the respondent is currently living with parents is available in the data, but the duration of co-residence in the last calendar year is not available.

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| w\_\_bp1\_1 | 1. Yes  2. No |
| w\_\_bp1\_2 | 1. Both parents  2. Father  3. Mother |
| w\_\_Bb009  w\_\_Bb015 | \_\_\_ months |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on co-residence of father(mother) < Same questions across all waves >  Bb008/Bb014. Does your father(mother) live with you?  ①Yes  ⑤NO  Wave 5. Period of co-residence with father(mother) in the last calendar year < Same questions from wave 5 onwards >  (CAPI: Whether R [was/was not co-residing] with parents appears on the screen based on the previous interview.  Bb009/Bb015. At the time of the previous interview, you [were/weren’t co-residing] with your father(mother). If you lived with your father(mother) in any month in the last calendar year (2013), how many months did you live with your father(mother) last year? (unit: month)  [IWER: If R didn’t live together with father(mother) last year, mark 0]  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ months [Range:0~12]  \*\*Wave 3. Period of co-residence with father(mother) in the last calendar year < Same questions across Wave 2~4, No corresponding questions were asked in Wave 1 >  Bb009/Bb015. At the time of the previous interview, you [were/weren’t co-residing] with your father (mother). Which months did you live with him in the last calendar year (2009)? Choose all that apply. (Select multiple responses)  ①January 2009  ②February 2009  ③March 2009  ④April 2009  ⑤May 2009  ⑥June 2009  ⑦July 2009  ⑧August 2009  ⑨September 2009  ⑩October 2009  ⑪November 2009  ⑫December 2009 |

◆ Raw variables used

[Respondent currently living with parents or not (w\_\_bp1\_1)] and [Parents currently living with the respondent (w\_\_bp1\_2)]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Currently living with parents or not** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Currently living with father or not  Currently living with mother or not | w01Bb008  w01Bb014 | w02Bb008  w02Bb014 | w03Bb008  w03Bb014 | w04Bb008  w04Bb014 | w05Bb008  w05Bb014 |

[The period of living with father/mother in the previous year (w\_\_Bb009, w\_\_Bb015)]

| **The period of living with father in the previous year** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| Whether R lived with father in January of the previous year | - | w02Bb009m01 | w03Bb009m01 | w04Bb009m01 | w05Bb009w5   From Wave 5 onwards, only responses on the total length of co-residence are collected |
| Whether R lived with father in February of the previous year | w02Bb009m02 | w03Bb009m02 | w04Bb009m02 |
| Whether R lived with father in March of the previous year | w02Bb009m03 | w03Bb009m03 | w04Bb009m03 |
| Whether R lived with father in April of the previous year | w02Bb009m04 | w03Bb009m04 | w04Bb009m04 |
| Whether R lived with father in May of the previous year | w02Bb009m05 | w03Bb009m05 | w04Bb009m05 |
| Whether R lived with father in June of the previous year | w02Bb009m06 | w03Bb009m06 | w04Bb009m06 |
| Whether R lived with father in July of the previous year | w02Bb009m07 | w03Bb009m07 | w04Bb009m07 |
| Whether R lived with father in August of the previous year | w02Bb009m08 | w03Bb009m08 | w04Bb009m08 |
| Whether R lived with father in September of the previous year | w02Bb009m09 | w03Bb009m09 | w04Bb009m09 |
| Whether R lived with father in October of the previous year | w02Bb009m10 | w03Bb009m10 | w04Bb009m10 |
| Whether R lived with father in November of the previous year | w02Bb009m11 | w03Bb009m11 | w04Bb009m11 |
| Whether R lived with father in December of the previous year | w02Bb009m12 | w03Bb009m12 | w04Bb009m12 |
| Whether R lived with mother in January of the previous year | - | w02Bb015m01 | w03Bb015m01 | w04Bb015m01 | w05Bb015w5  From Wave 5 onwards, only responses on the total length of co-residence are collected. |
| Whether R lived with mother in February of the previous year | w02Bb015m02 | w03Bb015m02 | w04Bb015m02 |
| Whether R lived with mother in March of the previous year | w02Bb015m03 | w03Bb015m03 | w04Bb015m03 |
| Whether R lived with mother in April of the previous year | w02Bb015m04 | w03Bb015m04 | w04Bb015m04 |
| Whether R lived with mother in May of the previous year | w02Bb015m05 | w03Bb015m05 | w04Bb015m05 |
| Whether R lived with mother in June of the previous year | w02Bb015m06 | w03Bb015m06 | w04Bb015m06 |
| Whether R lived with mother in July of the previous year | w02Bb015m07 | w03Bb015m07 | w04Bb015m07 |
| Whether R lived with mother in August of the previous year | w02Bb015m08 | w03Bb015m08 | w04Bb015m08 |
| Whether R lived with mother in September of the previous year | w02Bb015m09 | w03Bb015m09 | w04Bb015m09 |
| Whether R lived with mother in October of the previous year | w02Bb015m10 | w03Bb015m10 | w04Bb015m10 |
| Whether R lived with mother in November of the previous year | w02Bb015m11 | w03Bb015m11 | w04Bb015m11 |
| Whether R lived with mother in December of the previous year | w02Bb015m12 | w03Bb015m12 | w04Bb015m12 |

|  |
| --- |
| **Combined variables of parents/father/mother not living with the respondent** |

◆ (Not live together) (Parents/Father), Mother live together with other children (w\_\_bp3 /w\_\_bm3)

(Not live together) (Parents/Father), Mother neighboring characteristic (w\_\_bp4, w\_\_bm4)

(Not live together) The frequency which (Parents/Father), Mother meet(in person) (w\_\_bp5, w\_\_bm5)

(Not live together) The frequency which (Parents/Father) meet (by phone, mail or e-mail) (w\_\_bp6, w\_\_bm6)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

When same questions are asked respectively for (1) both parents, (2) father, and (3) mother, variables that combine all the information are generated. If parents are both alive but living separately (Bb016), questions for each of the parents were asked. In this case, creating a single combined variable for all parents/father/mother variables will result in a loss of information. To prevent the loss, parents and father variables are combined into a single variable while mother variables are kept intact. Also note that for the combined parents/father variables, Target variable is generated for users to distinguish whether the variable has information about both parents or just about the father.

Combined variables of parents/father/mother not living with the respondent include Live together with other children, Neighboring characteristic, The frequency of meeting in person and The frequency of contact by phone, mail, or e-mail.

※ Caveats: The frequency of meeting in person (or meeting on the phone, mail, or e-mail) is asked only about parent(s) currently not living with the respondent and about the frequency at the time of the interview. If both parents are alive but living separately, the respondent who does not live with both parents responds to respective questions for each of the parents.

|  |  |
| --- | --- |
| **Variable Name** | **Values** |
| w\_\_bp3,  w\_\_bm3 | 1. (Parents/Father) By themselves(himself) or By herself  3. With other children  5. Others |
| w\_\_bp4,  w\_\_bm4 | 1. Within a 30-miniute distance by public transportation  2. Within a 1-hour distance by public transportation  3. Within a 2-hour distance by public transportation  4. More than a 2-hour distance by public transportation |
| w\_\_bp5,  w\_\_bm5 | 1. Almost every day (more than 4 times per week)  2. Once a week  3. 2~3 times a week  4. Once a month  5. Twice a month (every two weeks)  6. Once or twice a year  7. Three or four times a year (once every three or four months)  8. Five or six times a year (every two months)  9. Almost never a year  10. Never met |
| w\_\_bp6,  w\_\_bm6 | 1. Almost every day (more than 4 times per week)  2. Once a week  3. 2~3 times a week  4. Once a month  5. Twice a month (every two weeks)  6. Once or twice a year  7. Three or four times a year (once every three or four months)  8. Five or six times a year (every two months)  9. Almost never a year  10. Never contacted |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions related to parents (Questions related to father/mother have the same question design) < Same questions across all waves >  Bb017. Do they live by themselves, or with other children?  ①By themselves →Go to Bb020  ③With other children  ⑤Others →Go to Bb019  Bb020. How close do you live to your parents?  ①Within a 30-minute distance by public transportation  ②Within a 1-hour distance by public transportation  ③Within a 2-hour distance by public transportation  ④More than a 2-hour distance by public transportation  Bb021. How often do you meet your parents in person?  ①Almost every day (more than 4 times per week)  ②Once a week  ③2~3 times a week  ④Once a month  ⑤Twice a month (every two weeks)  ⑥Once or twice a year  ⑦Three or four times a year (once every three or four months)  ⑧Five or six times a year (every two months)  ⑨Almost never a year  ⑩Never met  Bb022. How often do you contact your parents by phone, mail, or e-mail?  ①Almost every day (more than 4 times per week)  ②Once a week  ③2~3 times a week  ④Once a month  ⑤Twice a month (every two weeks)  ⑥Once or twice a year  ⑦Three or four times a year (once every three or four months)  ⑧Five or six times a year (every two months)  ⑨Almost never a year  ⑩Never contacted |

**◆ Raw variables used (Same raw variables are used for all waves)**

[Parents/Father combined variables]

|  |  |  |  |
| --- | --- | --- | --- |
| **Combined variables** | **Variable description** | **Raw variables**  **(Parents)** | **Raw variables**  **(Father)** |
| w\_\_\_target1 | Respondent answered to bp3~bp16 by each Wave | 1. Parents | 2.Father |
| w\_\_bp3 | (Not live together) (Parents/Father) live together with other children | w\_\_Bb017 | w\_\_Bb055 |
| w\_\_bp4 | (Not live together) (Parents/Father) neighboring characteristic | w\_\_Bb020 | w\_\_Bb058 |
| w\_\_bp5 | (Not live together) (Parents/Father) The frequency which (Mother) meet(in person) | w\_\_Bb021 | w\_\_Bb059 |
| w\_\_bp6 | (Not live together) (Parents/Father) The frequency which (Mother) meet(by phone, mail or e-mail) | w\_\_Bb022 | w\_\_Bb060 |

[Mother combined variables]

|  |  |  |
| --- | --- | --- |
| **Combined variables** | **Variable description** | **Raw variables**  **(Mother)** |
| w\_\_bm3 | (Not live together) (Mother) live together with other children | w\_\_Bb093 |
| w\_\_bm4 | (Not live together) (Mother) neighboring characteristic | w\_\_Bb096 |
| w\_\_bm5 | (Not live together) (Mother) The frequency which (Mother) meet(in person) | w\_\_Bb097 |
| w\_\_bm6 | (Not live together) (Mother) The frequency which (Mother) meet(by phone, mail or e-mail) | w\_\_Bb098 |

|  |
| --- |
| **Activities of daily living (ADL) and Instrumental activities of daily living (IADL)** |

◆ Have the member of unable to carry out activities of daily living(ADL) (w\_\_bb\_adl1), The number of the member of unable to carry out activities of daily living(ADL) (w\_\_bb\_adl\_num1) /

Have the member whom I help with activities of daily living(ADL) (w\_\_bb\_adl2), The number of the member whom I help with activities of daily living(ADL) (w\_\_bb\_adl\_num2) /

Have the member whom I help with instrumental activities of daily living(IADL)\_Not live together (w\_\_bb\_adl3), The number of the member whom I help with instrumental activities of daily living(IADL)\_Not live together(w\_\_bb\_adl3\_num3)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

The respondent is asked whether she/he has any household member having difficulties in carrying out ADL and if so, he/she is asked to identify the member(s). Based on this information, The number of the member of unable to carry out activities of daily living(ADL) (adl\_num1) and Has the member of unable to carry out activities of daily living(ADL) (adl1) are generated. Likewise, Has the member whom R help with activities of daily living (ADL) and The number of the member whom I help with activities of daily living(ADL) are generated. Also, Have the member whom I help with instrumental activities of daily living(IADL)\_Not live together and The number of the member whom I help with instrumental activities of daily living(IADL)\_Not live together are generated by combining responses about family members who are currently not living with the respondent and responses about members with IADL difficulties.

※ Caveats: The variables indicate the status during the past 12 months from the time of the interview.

|  |  |
| --- | --- |
| **Variable name** | **Values** |
| w\_\_bb\_adl1,  w\_\_bb\_adl2,  w\_\_bb\_adl3 | 1. Yes  5. No |
| w\_\_bb\_adl\_num1,  w\_\_bb\_adl\_num2,  w\_\_bb\_adl\_num3 | \_\_\_\_\_\_\_\_(Unit: individual) |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on the provision of care for the ADL/IADL <Same questions are asked across all waves>  Bb223. Are there any family members over the age of 10 (spouse, parents, siblings, children, and spouse’s parents and siblings) who have any difficulty doing each of the everyday activities? Everyday activities includes dressing, washing face and hair/brushing teeth, bathing or showering, eating, getting across a room from getting out of bed, using the toilet and controlling urination or defecation. Please identify all family members with those difficulties. Choose all that apply. (Select multiple responses.)  ②Spouse  ③Mother  ④Father  ⑤Mother-in-law  ⑥Father-in-law  [7~26] Children list  [27~46] Sibling list  [47] Brother-in-law/sister-in-law  [48] Son-in-law/daughter-in-law  [49] Grandchildren  [50] Other relatives  [52] No member with ADL difficulties →Go to Bb227  Bb224. Did you care for any of [names listed in Bb169] during the past one year (not calendar year)? If so, whom did you help? Choose all family members you cared for. (Select multiple responses.)  [IWER: Past one year means one year ago from now, not 2013.]  ②Spouse  ③Mother  ④Father  ⑤Mother-in-law  ⑥Father-in-law  [7~26] Children list  [27~46] Sibling list  [47] Brother-in-law/sister-in-law  [48] Son-in-law/daughter-in-law  [49] Grandchildren  [50] Other relatives  [53] No, didn’t help (others helped caring e.g. helpers) →Go to Bb227  Bb227. Are there any family members over the age of 10 (spouse, parents, parents-in-law, siblings and/or children) who are not living with you with any difficulty doing a few other activities due to physical, mental, emotional problems? Other activities include personal grooming, cleaning and tidying up the house, making bed and washing dishes, preparing meals, doing laundry, going out short distance, using transportation, shopping, managing money, making phone calls, and taking medications. If yes, did you help anyone for these activities during the past one year? If you did, whom did you help? Choose all family members you helped. (Select multiple responses.)  [IWER: Past one year means one year ago from now, not 2013.]  ②Spouse  ③Mother  ④Father  ⑤Mother-in-law  ⑥Father-in-law  [7~26] Children list  [27~46] Sibling list  [47] Brother-in-law/sister-in-law  [48] Son-in-law/daughter-in-law  [49] Grandchildren  [50] Other relatives  [54] No member with such difficulties →Go to Bb230 |

◆ Raw variables used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Family member unable to carry out ADL/IADL** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The member of unable to carry out activities of daily living(ADL)\_01  The member of unable to carry out activities of daily living(ADL)\_02  The member of unable to carry out activities of daily living(ADL)\_03  The member of unable to carry out activities of daily living(ADL)\_04  The member of unable to carry out activities of daily living(ADL)\_05  The member of unable to carry out activities of daily living(ADL)\_06 | w01Bb169a01  ~  w01Bb169a34 | w02Bb169a01  w02Bb169a02  w02Bb169a03  w02Bb169a04  w02Bb169a05  w02Bb169a06 | w03Bb169a01  w03Bb169a02  w03Bb169a03  w03Bb169a04  w03Bb169a05  w03Bb169a06 | w04Bb169a01  w04Bb169a02  w04Bb169a03  w04Bb169a04 | w05Bb169a01  w05Bb169a02  w05Bb169a03 |
| The member whom I help with activities of daily living(ADL)\_01  The member whom I help with activities of daily living(ADL)\_02 | w01Bb170a01  ~  w01Bb170a34 | w02Bb170a01  w02Bb170a02 | w02Bb170a01  w02Bb170a02 | w04Bb170a01 | w05Bb170a01  w05Bb170a02 |
| The member whom I help with instrumental activities of daily living(IADL)\_01 Not live together  The member whom I help with instrumental activities of daily living(IADL)\_02 Not live together  The member whom I help with instrumental activities of daily living(IADL)\_03 Not live together | w01Bb173a01  ~  w01Bb173a33 | w02Bb173a01  w02Bb173a02 | w02Bb173a01  w02Bb173a02 | w04Bb173a01 | w05Bb173a01  w05Bb173a02  w05Bb173a03 |

|  |
| --- |
| **Amount of financial support received/offered (Children/Parent/Other family) (transferfrom/transferto)** |

◆ The total amount of financial support from (children+parents+other family) (w\_\_transferfrom), The total amount of financial support offered to (children+parents+other family) (w\_\_transferto) /

The total amount of financial support from children (w\_\_fromchildren), The total amount of financial support offered to children (w\_\_tochildren) /

The total amount of financial support from parents (w\_\_fromparents), The total amount of financial support offered to parents (w\_\_toparents) /

The total amount of financial support from other family (w\_\_fromothers), The total amount of financial support offered to other family (w\_\_toothers)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

Respondents are asked separate questions on financial support and non-financial support, and financial support is asked separately by regular supports and occasional supports. Financial support includes direct transfers of cash or helping to pay bills. Non-financial support includes in-kind transfers or gifts. Regular support is a monetary transfer regularly repeated in a certain time interval, and occasional support is monetary transfer that irregularly occurred except for birthday allowance or holiday allowances. Note that these questions are about supports received/offered during the past 12 months, and The total amount financial support from family (children, parents, and other family) is generated based on these questions.

The total amount of financial support can be obtained by adding up the amount of regular support and the amount of occasional support. The amount of regular support is calculated by multiplying The number of months of receiving/offering regular support by The monthly average amount of financial support.

The total amount of financial support from (children + parents + other family) (transferfrom) is the sum of financial support received from children, parents, and the other family members who are either living together or living separately.

The total amount of financial support from children (fromchildren) is the sum of financial support received from each of the child. If the respondent is living with his/her spouse, each of the couple is assigned with half the total amount of financial support. Support from children is asked up to the 10th child.

The total amount of financial support from parents (fromparents) is the sum of financial support received from parents, father, and mother who are either living together or living separately. If the respondent alternated between co-residing and not co-residing, the amount of private transfer in the period of co-residence and the amount in the period of non-coresidence are asked separately. Users should note that regarding financial support from parents, all three cases of (1) Parents living together, (2) Father living separately, and (3) Mother living separately should be considered.

The total amount of financial support from other family (fromothers) is the sum of financial support received from each of the other family members. The number of other family members can differ by wave.

※ Caveats : Questions on the financial support from children/parents/other family members living with the respondent were not asked in Wave 1. Please note that the examples of KLoSA questions below only show questions about receipt from/offer to parents. Corresponding questions from/to children and other family members are looped as many times as the number of children/family members. The generation process of the variables is taken from 『2006, 2008 Guide on generated variables 2』

\* For brevity, description of Amount of financial support offered(w\_\_transferto) (w\_\_transferto) is omitted.

|  |  |
| --- | --- |
| **Variable Name** | **Variable description** |
| w\_\_transferfrom  w\_\_fromchildren  w\_\_fromparents  w\_\_fromothers  w\_\_transferto  w\_\_tochildren  w\_\_toparents  w\_\_toothers | The total amount of financial support from (children+parents+other family) ( = w\_\_fromchildren + w\_\_fromparents + w\_\_fromothers)  : The total amount of financial support from children  : The total amount of financial support from parents  : The total amount of financial support from the other family  The total amount of financial support offered to (children+parents+other family) ( = w\_\_tochildren + w\_\_toparents + w\_\_toothers)  : The total amount of financial support offered to children  : The total amount of financial support offered to parents  : The total amount of financial support offered to the other family |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Financial support from/to parents  Bb023. **[Not live together\_Receipt of regular financial support]** In the last calendar year (2013), while living separately did you receive from your parents any regular financial support such as pocket money, living expenses or medical expenses?  ①Yes →Go to Bb024 ⑤No →Go to Bb031  Bb024. **[Not live together\_Receipt of regular financial support]** What was the monthly average amount of regular financial support you received from your parents in the last calendar year (2013)? (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MW [Range: 1 ~ 9997] →Go to Bb030  Don’t know →Go to Bb025~Bb029 unfolding  Refuse to answer →Go to Bb025~Bb029 unfolding  Bb030. **[Not live together\_Receipt of regular financial support]** How many month(s) did you receive regular financial support from your parents in the last calendar year (2013)? (unit: month)  [IWER: If you alternated between co-residing and not co-residing in 2013, please consider only the financial support you received while you did not live together]  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ months [Range:0~12]  Bb031. **[Not live together\_ Receipt of occasional financial support]** In the last calendar year (2013), while living separately did you receive from your parents any occasional financial support such as pocket money, living expenses or medical expenses?  ①Yes →Go to Bb032 ⑤No →Go to Bb038    Bb032. **[Not live together\_ Receipt of occasional financial support]** What was the total amount of occasional financial support you received from your parents in the last calendar year (2013)?  [IWER: Please enter ‘100,000,000 Korean won (one hundred million won)’ first then, enter ’10,000 Korean won (MW)’.]  \_\_\_\_\_\_one hundred million won [Range: 1~9] \_\_\_\_\_\_\_\_ MW [Range: 0 ~ 9997] → Bb038  Don’t know →Go to Bb033~Bb037 unfolding  Refuse to answer →Go to Bb033~Bb037 unfolding  Bb041. **[Not live together\_ Offer of regular financial support]** In the last calendar year (2013), while living separately did you give to your parents any financial support such as pocket money, living expenses or medical expenses?  ①Yes →Go to Bb042 ⑤No →Go to Bb049  Bb042. **[Not live together\_Offer of regular financial support]** What was the monthly average amount of regular financial support you gave to your parents in the last calendar year (2013)? (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MW [Range: 1 ~ 9997] →Go to Bb048  Don’t know →Go to Bb043~Bb047 unfolding  Refuse to answer →Go to Bb043~Bb047 unfolding  Bb048. **[Not live together\_Offer of regular financial support]** How many months did you give regular financial support to your parents in the last calendar year (2013)?  [IWER: If you alternated between co-residing and not co-residing in 2013, please consider only the financial support you gave while you did not live together]  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ months [Range:0~12]  Bb049. **[Not live together\_Offer of non-financial support]** In the last calendar year (2013), while living separately did you give any occasional financial support such as pocket money, living expenses or medical expenses to your parents?  ②Yes →Go to Bb050 ⑤No →Go to Bb056  Bb050. **[Not live together\_ Offer of occasional financial support]** What was the total amount of occasional financial support given to your parents in the last calendar year (2013)?  [IWER: Please enter ‘100,000,000 Korean won (one hundred million won)’ first then, enter ’10,000 Korean won (MW)’.]  \_\_\_\_\_\_one hundred million won [Range: 1~9] \_\_\_\_\_\_\_\_\_MW [Range: 0 ~ 9997] → Bb056  Don’t know →Go to Bb051~Bb055 unfolding  Refuse to answer →Go to Bb051~Bb055 unfolding  Bb059. **[Live together\_Receipt of financial support]** In the last calendar year (2013), did you receive any financial support from your parents while living together?  [IWER: Provision of dwelling space, food, etc., is excluded. Financial support includes pocket money, medical expenses, travel expenses, business funds, etc. Paying for the bill instead is included.]  ①Yes ⑤No →Go to Bb066  Bb060. **[Live together\_Receipt of financial support]** If so, what was the total amount of financial support you received from your parents in the last calendar year (2013)?  [IWER: Please enter ‘100,000,000 Korean won (one hundred million won)’ first then, enter ’10,000 Korean won (MW)’.]  \_\_\_\_\_\_one hundred million won [Range: 1~9] \_\_\_\_\_\_\_\_\_MW [Range: 0 ~ 9997] → Bb066  Don’t know →Go to Bb061~Bb065 unfolding  Refuse to answer →Go to Bb061~Bb065 unfolding  Bb066. **[Live together\_Offer of financial support]** In the last calendar year (2013), did you give any financial support to your parents while living together?  [IWER: Provision of dwelling space, food, etc., is excluded. Financial support includes pocket money, medical expenses, travel expenses, business funds, etc. Paying for the bill instead is included.]  ①Yes ⑤No →Go to Bb185  Bb067. **[Live together\_Offer of financial support]** If so, what was the total amount of financial support you gave to your parents in the last calendar year (2013)?  [IWER: Please enter ‘100,000,000 Korean won (one hundred million won)’ first then, enter ’10,000 Korean won (MW)’.]  \_\_\_\_\_\_one hundred million won [Range: 1~9] \_\_\_\_\_\_\_\_\_MW [Range: 0 ~ 9997] → Bb185  Don’t know →Go to Bb068~Bb072 unfolding  Refuse to answer →Go to Bb068~Bb072 unfolding |

◆ Raw variables used for generating ‘Amount of financial support received (w\_\_transferfrom)’

[The total amount of financial support from parents, w\_\_fromparents]

| **The total amount of financial support from parents** | **Wave 1 \*** | **Wave 2 \*** | **Wave 3 \*** | **Wave 4 \*** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| (Not live together) The monthly average amount of regular financial support I received from parents  (Not live together) The monthly average amount of regular financial support I received from father  (Not live together) The monthly average amount of regular financial support I received from mother    (Not live together) The number of months of regular financial receipt from parents  (Not live together) The number of months of regular financial receipt from father  (Not live together) The number of months of regular financial receipt from mother  (Not live together) The total amount of occasional financial support I received from parents  (Not live together) The total amount of occasional financial support I received from father  (Not live together) The total amount of occasional financial support I received from mother  (Live together) The total amount of financial support from parents  (Live together) The total amount of financial support from father  (Live together) The total amount of financial support from mother | w01Bb024  w01Bb062  w01Bb100  w01Bb030  w01Bb068  w01Bb106  w01Bb031  w01Bb069  w01Bb107 | w02Bb024  w02Bb062  w02Bb100  w02Bb030  w02Bb068  w02Bb106  w02Bb031  w02Bb069  w02Bb107  w02Bb179  w02Bb193  w02Bb207 | w03Bb024  w03Bb062  w03Bb100  w03Bb030  w03Bb068  w03Bb106  w03Bb031  w03Bb069  w03Bb107  w03Bb179  w03Bb193  w03Bb207 | w04Bb024  w04Bb062  w04Bb100  w04Bb030  w04Bb068  w04Bb106  w04Bb031  w04Bb069  w04Bb107  w04Bb179  w04Bb193  w04Bb207 | w05Bb024  w05Bb062  w05Bb100  w05Bb030  w05Bb068  w05Bb106  w05Bb031  w05Bb069  w05Bb107  w05Bb179  w05Bb193  w05Bb207 |

\* The months of receiving financial support in Wave 1-4 were collected in calendar format, and the total number of months was calculated from these raw variables.

[The total amount of financial support from children, w\_\_fromchildren]

| **The total amount of financial support from children** | **Wave 1 \*** | **Wave 2 \*** | **Wave 3 \*** | **Wave 4 \*** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| (Not live together) The monthly average amount of regular financial support I received from the 1st child  (Not live together) The monthly average amount of regular financial support I received from the 2nd child  (Not live together) The monthly average amount of regular financial support I received from the 3rd child  (Not live together) The monthly average amount of regular financial support I received from the 4th child  (Not live together) The monthly average amount of regular financial support I received from the 5th child  (Not live together) The monthly average amount of regular financial support I received from the 6th child  (Not live together) The monthly average amount of regular financial support I received from the 7th child  (Not live together) The monthly average amount of regular financial support I received from the 8th child  (Not live together) The monthly average amount of regular financial support I received from the 9th child  (Not live together) The monthly average amount of regular financial support I received from the 10th child  (Not live together) The number of months of regular financial receipt from the 1st child  (Not live together) The number of months of regular financial receipt from the 2nd child  (Not live together) The number of months of regular financial receipt from the 3rd child  (Not live together) The number of months of regular financial receipt from the 4th child  (Not live together) The number of months of regular financial receipt from the 5th child  (Not live together) The number of months of regular financial receipt from the 6th child  (Not live together) The number of months of regular financial receipt from the 7th child  (Not live together) The number of months of regular financial receipt from the 8th child  (Not live together) The number of months of regular financial receipt from the 9th child  (Not live together) The number of months of regular financial receipt from the 10th child | w01Ba022\_01  w01Ba022\_02  w01Ba022\_03  w01Ba022\_04  w01Ba022\_05  w01Ba022\_06  w01Ba022\_07  w01Ba022\_08  w01Ba022\_09  w01Ba022\_10  w01Ba028\_01  w01Ba028\_02  w01Ba028\_03  w01Ba028\_04  w01Ba028\_05  w01Ba028\_06  w01Ba028\_07  w01Ba028\_08  w01Ba028\_09  w01Ba028\_10 | w02Ba022\_01  w02Ba022\_02  w02Ba022\_03  w02Ba022\_04  w02Ba022\_05  w02Ba022\_06  w02Ba022\_07  w02Ba022\_08  w02Ba022\_09  w02Ba022\_10  w02Ba028\_01  w02Ba028\_02  w02Ba028\_03  w02Ba028\_04  w02Ba028\_05  w02Ba028\_06  w02Ba028\_07  w02Ba028\_08  w02Ba028\_09  w02Ba028\_10 | w03Ba022\_01  w03Ba022\_02  w03Ba022\_03  w03Ba022\_04  w03Ba022\_05  w03Ba022\_06  w03Ba022\_07  w03Ba022\_08  w03Ba022\_09  w03Ba022\_10  w03Ba028\_01  w03Ba028\_02  w03Ba028\_03  w03Ba028\_04  w03Ba028\_05  w03Ba028\_06  w03Ba028\_07  w03Ba028\_08  w03Ba028\_09  w03Ba028\_10 | w04Ba022\_01  w04Ba022\_02  w04Ba022\_03  w04Ba022\_04  w04Ba022\_05  w04Ba022\_06  w04Ba022\_07  w04Ba022\_08  w04Ba022\_09  w04Ba022\_10  w04Ba028\_01  w04Ba028\_02  w04Ba028\_03  w04Ba028\_04  w04Ba028\_05  w04Ba028\_06  w04Ba028\_07  w04Ba028\_08  w04Ba028\_09  w04Ba028\_10 | w05Ba022\_01  w05Ba022\_02  w05Ba022\_03  w05Ba022\_04  w05Ba022\_05  w05Ba022\_06  w05Ba022\_07  w05Ba022\_08  w05Ba022\_09  w05Ba022\_10  w05Ba028\_01w5  w05Ba028\_02w5  w05Ba028\_03w5  w05Ba028\_04w5  w05Ba028\_05w5  w05Ba028\_06w5  w05Ba028\_07w5  w05Ba028\_08w5  w05Ba028\_09w5  w05Ba028\_10w5 |
| (Not live together)The total amount of occasional financial support I received from the 1st child  (Not live together)The total amount of occasional financial support I received from the 2nd child  (Not live together)The total amount of occasional financial support I received from the 3rd child  (Not live together)The total amount of occasional financial support I received from the 4th child  (Not live together)The total amount of occasional financial support I received from the 5th child  (Not live together)The total amount of occasional financial support I received from the 6th child  (Not live together)The total amount of occasional financial support I received from the 7th child  (Not live together)The total amount of occasional financial support I received from the 8th child  (Not live together)The total amount of occasional financial support I received from the 9th child  (Not live together)The total amount of occasional financial support I received from the 10th child | w01Ba029\_01  w01Ba029\_02  w01Ba029\_03  w01Ba029\_04  w01Ba029\_05  w01Ba029\_06  w01Ba029\_07  w01Ba029\_08  w01Ba029\_09  w01Ba029\_10 | w02Ba029\_01  02Ba029\_02  w02Ba029\_03  w02Ba029\_04  w02Ba029\_05  w02Ba029\_06  w02Ba029\_07  w02Ba029\_08  w02Ba029\_09  w02Ba029\_10 | w03Ba029\_01  w03Ba029\_02  w03Ba029\_03  w03Ba029\_04  w03Ba029\_05  w03Ba029\_06  w03Ba029\_07  w03Ba029\_08  w03Ba029\_09  w03Ba029\_10 | w04Ba029\_01  w04Ba029\_02  w04Ba029\_03  w04Ba029\_04  w04Ba029\_05  w04Ba029\_06  w04Ba029\_07  w04Ba029\_08  w04Ba029\_09  w04Ba029\_10 | w05Ba029\_01w5  w05Ba029\_02w5  w05Ba029\_03w5  w05Ba029\_04w5  w05Ba029\_05w5  w05Ba029\_06w5  w05Ba029\_07w5  w05Ba029\_08w5  w05Ba029\_09w5  w05Ba029\_10w5 |
| (Live together) The total amount of financial support from the 1st child  (Live together) The total amount of financial support from the 2nd child  (Live together) The total amount of financial support from the 3rd child  (Live together) The total amount of financial support from the 4th child  (Live together) The total amount of financial support from the 5th child  (Live together) The total amount of financial support from the 6th child  (Live together) The total amount of financial support from the 7th child  (Live together) The total amount of financial support from the 8th child  (Live together) The total amount of financial support from the 9th child  (Live together) The total amount of financial support from the 10th child | - | w02Ba054\_01  w02Ba054\_02  w02Ba054\_03  w02Ba054\_04  w02Ba054\_05  w02Ba054\_06  w02Ba054\_07  w02Ba054\_08  w02Ba054\_09  w02Ba054\_10 | w03Ba054\_01  w03Ba054\_02  w03Ba054\_03  w03Ba054\_04  w03Ba054\_05  w03Ba054\_06  w03Ba054\_07  w03Ba054\_08  w03Ba054\_09  w03Ba054\_10 | w04Ba054\_01  w04Ba054\_02  w04Ba054\_03  w04Ba054\_04  w04Ba054\_05  w04Ba054\_06  w04Ba054\_07  w04Ba054\_08  w04Ba054\_09  w04Ba054\_10 | w05Ba054\_01  w05Ba054\_02  w05Ba054\_03  w05Ba054\_04  w05Ba054\_05  w05Ba054\_06  w05Ba054\_07  w05Ba054\_08  w05Ba054\_09  w05Ba054\_10 |

\* The months of receiving financial support in Wave 1-4 were collected in a calendar format, and the total number of months was calculated from these raw variables.

[The total amount of financial support from the other family, w\_\_fromothers]

| **The total amount of financial support from the other family** | **Wave 1 \*** | **Wave 2 \*** | **Wave 3 \*** | **Wave 4 \*** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| The average amount of regular financial supports from the 1st other family member  The average amount of regular financial supports from the 2nd other family member  The average amount of regular financial supports from the 3rd other family member  The average amount of regular financial supports from the 4th other family member  The average amount of regular financial supports from the 5th other family member  The average amount of regular financial supports from the 6th other family member  The average amount of regular financial supports from the 7th other family member  The average amount of regular financial supports from the 8th other family member  The average amount of regular financial supports from the 9th other family member  The number of months of regular financial receipt from the 1st other family member  The number of months of regular financial receipt from the 2nd other family member  The number of months of regular financial receipt from the 3rd other family member  The number of months of regular financial receipt from the 4th other family member  The number of months of regular financial receipt from the 5th other family member  The number of months of regular financial receipt from the 6th other family member  The number of months of regular financial receipt from the 7th other family member  The number of months of regular financial receipt from the 8th other family member  The number of months of regular financial receipt from the 9th other family member | w01Bb135\_01  ~  w01Bb135\_20  w01Bb141\_01  ~  w01Bb141\_20 | w02Bb135\_01  w02Bb135\_02  w02Bb135\_03  w02Bb135\_04  w02Bb135\_05  w02Bb135\_06  w02Bb135\_07  w02Bb135\_08  w02Bb135\_09  w02Bb141\_01  w02Bb141\_02  w02Bb141\_03  w02Bb141\_04  w02Bb141\_05  w02Bb141\_06  w02Bb141\_07  w02Bb141\_08  w02Bb141\_09 | w03Bb135\_01  w03Bb135\_02  w03Bb135\_03  w03Bb135\_04  w03Bb135\_05  w03Bb135\_06  w03Bb135\_07  w03Bb135\_08  w03Bb135\_09  w03Bb141\_01  w03Bb141\_02  w03Bb141\_03  w03Bb141\_04  w03Bb141\_05  w03Bb141\_06  w03Bb141\_07  w03Bb141\_08  w03Bb141\_09 | w04Bb135\_01  w04Bb135\_02  w04Bb135\_03  w04Bb135\_04  w04Bb135\_05  w04Bb135\_06  w04Bb135\_07  w04Bb135\_08  w04Bb135\_09  w04Bb141\_01  w04Bb141\_02  w04Bb141\_03  w04Bb141\_04  w04Bb141\_05  w04Bb141\_06  w04Bb141\_07  w04Bb141\_08  w04Bb141\_09 | w05Bb135\_01  w05Bb135\_02  w05Bb135\_03  w05Bb135\_04  w05Bb135\_05  w05Bb135\_06  w05Bb135\_07  w05Bb135\_08  w05Bb141\_01w5  w05Bb141\_02w5  w05Bb141\_03w5  w05Bb141\_04w5  w05Bb141\_05w5  w05Bb141\_06w5  w05Bb141\_07w5  w05Bb141\_08w5 |
| The total amount of occasional financial support I received to the 1st other family  The total amount of occasional financial support I received to the 2nd other family  The total amount of occasional financial support I received to the 3rd other family  The total amount of occasional financial support I received to the 4th other family  The total amount of occasional financial support I received to the 5th other family  The total amount of occasional financial support I received to the 6th other family  The total amount of occasional financial support I received to the 7th other family  The total amount of occasional financial support I received to the 8th other family  The total amount of occasional financial support I received to the 9th other family | w01Bb142\_03  ~  w01Bb142\_16 | w02Bb142\_01  w02Bb142\_02  w02Bb142\_03  w02Bb142\_04  w02Bb142\_05  w02Bb142\_06  w02Bb142\_07  w02Bb142\_08  w02Bb142\_09 | w03Bb142\_01  w03Bb142\_02  w03Bb142\_03  w03Bb142\_04  w03Bb142\_05  w03Bb142\_06  w03Bb142\_07  w03Bb142\_08  w03Bb142\_09 | w04Bb142\_01  w04Bb142\_02  w04Bb142\_03  w04Bb142\_04  w04Bb142\_05  w04Bb142\_06  w04Bb142\_07  w04Bb142\_08  w04Bb142\_09 | w05Bb142\_01  w05Bb142\_02  w05Bb142\_03  w05Bb142\_04  w05Bb142\_05  w05Bb142\_06  w05Bb142\_07  w05Bb142\_08  w05Bb142\_09 |

\* The months of receiving financial support in Wave 1-4 were collected in a calendar format, and the total number of months was calculated from these raw variables.

◆ The total amount of financial support offered to (children+parents+other family) (w\_\_transferto)

Raw variables used

(The total amount of financial support offered to parents, w\_\_toparents)

| **The total amount of financial support offered to parents** | **Wave 1 \*** | **Wave 2 \*** | **Wave 3 \*** | **Wave 4 \*** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| (Not live together) The monthly average amount of regular financial support I gave to parents  (Not live together) The monthly average amount of regular financial support I gave to father  (Not live together) The monthly average amount of regular financial support I gave to mother  (Not live together) The number of months of regular financial support I gave to parents  (Not live together) The number of months of regular financial support I gave to father  (Not live together) The number of months of regular financial support I gave to mother  (Not live together) The total amount of occasional financial support I gave to parents  (Not live together) The total amount of occasional financial support I gave to father  (Not live together) The total amount of occasional financial support I gave to mother  (Live together) The total amount of financial support to the parents  (Live together) The total amount of financial support to the father  (Live together) The total amount of financial support to the mother | w01Bb040  w01Bb078  w01Bb116  w01Bb046  w01Bb084  w01Bb122  w01Bb047  w01Bb085  w01Bb123 | w02Bb040  w02Bb078  w02Bb116  w02Bb046  w02Bb084  w02Bb122  w02Bb047  w02Bb085  w02Bb123  w02Bb186  w02Bb200  w02Bb214 | w03Bb040  w03Bb078  w03Bb116  w03Bb046  w03Bb084  w03Bb122  w03Bb047  w03Bb085  w03Bb123  w03Bb186  w03Bb200  w03Bb214 | w04Bb040  w04Bb078  w04Bb116  w04Bb046  w04Bb084  w04Bb122  w04Bb047  w04Bb085  w04Bb123  w04Bb186  w04Bb200  w04Bb214 | w05Bb040  w05Bb078  w05Bb116  w05Bb046  w05Bb084  w05Bb122  w05Bb047  w05Bb085  w05Bb123  w05Bb186  w05Bb200  w05Bb214 |

\* The months of receiving financial support in Wave 1-4 were collected in calendar format, and the total number of months was calculated from these raw variables.

(The total amount of financial support offered to children, w\_\_tochildren)

| **The total amount of financial support offered to children** | **Wave 1 \*** | **Wave 2 \*** | **Wave 3 \*** | **Wave 4 \*** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| The monthly average amount of regular financial support I gave to the 1st child  The monthly average amount of regular financial support I gave to the 2nd child  The monthly average amount of regular financial support I gave to the 3rd child  The monthly average amount of regular financial support I gave to the 4th child  The monthly average amount of regular financial support I gave to the 5th child  The monthly average amount of regular financial support I gave to the 6th child  The monthly average amount of regular financial support I gave to the 7th child  The monthly average amount of regular financial support I gave to the 8th child  The monthly average amount of regular financial support I gave to the 9th child  The monthly average amount of regular financial support I gave to the 10th child  (Not live together) The number of months of regular financial support I gave to the 1st child  (Not live together) The number of months of regular financial support I gave to the 2nd child  (Not live together) The number of months of regular financial support I gave to the 3rd child  (Not live together) The number of months of regular financial support I gave to the 4th child  (Not live together) The number of months of regular financial support I gave to the 5th child  (Not live together) The number of months of regular financial support I gave to the 6th child  (Not live together) The number of months of regular financial support I gave to the 7th child  (Not live together) The number of months of regular financial support I gave to the 8th child  (Not live together) The number of months of regular financial support I gave to the 9th child  (Not live together) The number of months of regular financial support I gave to the 10th child | w01Ba038\_01  w01Ba038\_02  w01Ba038\_03  w01Ba038\_04  w01Ba038\_05  w01Ba038\_06  w01Ba038\_07  w01Ba038\_08  w01Ba038\_09  w01Ba038\_10  w01Ba044\_01  w01Ba044\_02  w01Ba044\_03  w01Ba044\_04  w01Ba044\_05  w01Ba044\_06  w01Ba044\_07  w01Ba044\_08  w01Ba044\_09  w01Ba044\_10 | w02Ba038\_01  w02Ba038\_02  w02Ba038\_03  w02Ba038\_04  w02Ba038\_05  w02Ba038\_06  w02Ba038\_07  w02Ba038\_08  w02Ba038\_09  w02Ba038\_10  w02Ba044\_01  w02Ba044\_02  w02Ba044\_03  w02Ba044\_04  w02Ba044\_05  w02Ba044\_06  w02Ba044\_07  w02Ba044\_08  w02Ba044\_09  w02Ba044\_10 | w03Ba038\_01  w03Ba038\_02  w03Ba038\_03  w03Ba038\_04  w03Ba038\_05  w03Ba038\_06  w03Ba038\_07  w03Ba038\_08  w03Ba038\_09  w03Ba038\_10  w03Ba044\_01  w03Ba044\_02  w03Ba044\_03  w03Ba044\_04  w03Ba044\_05  w03Ba044\_06  w03Ba044\_07  w03Ba044\_08  w03Ba044\_09  w03Ba044\_10 | w04Ba038\_01  w04Ba038\_02  w04Ba038\_03  w04Ba038\_04  w04Ba038\_05  w04Ba038\_06  w04Ba038\_07  w04Ba038\_08  w04Ba038\_09  w04Ba038\_10  w04Ba044\_01  w04Ba044\_02  w04Ba044\_03  w04Ba044\_04  w04Ba044\_05  w04Ba044\_06  w04Ba044\_07  w04Ba044\_08  w04Ba044\_09  w04Ba044\_10 | w05Ba038\_01  w05Ba038\_02  w05Ba038\_03  w05Ba038\_04  w05Ba038\_05  w05Ba038\_06  w05Ba038\_07  w05Ba038\_08  w05Ba038\_09  w05Ba044\_01  w05Ba044\_02  w05Ba044\_03  w05Ba044\_04  w05Ba044\_05  w05Ba044\_06  w05Ba044\_07  w05Ba044\_08  w05Ba044\_09 |
| (Not live together) The total amount of occasional financial support I gave to the 1st child  (Not live together) The total amount of occasional financial support I gave to the 2nd child  (Not live together) The total amount of occasional financial support I gave to the 3rd child  (Not live together) The total amount of occasional financial support I gave to the 4th child  (Not live together) The total amount of occasional financial support I gave to the 5th child  (Not live together) The total amount of occasional financial support I gave to the 6th child  (Not live together) The total amount of occasional financial support I gave to the 7th child  (Not live together) The total amount of occasional financial support I gave to the 8th child  (Not live together) The total amount of occasional financial support I gave to the 9th child  (Not live together) The total amount of occasional financial support I gave to the 10th child | w01Ba045\_01  w01Ba045\_02  w01Ba045\_03  w01Ba045\_04  w01Ba045\_05  w01Ba045\_06  w01Ba045\_07  w01Ba045\_08  w01Ba045\_09  w01Ba045\_10 | w02Ba045\_01  w02Ba045\_02  w02Ba045\_03  w02Ba045\_04  w02Ba045\_05  w02Ba045\_06  w02Ba045\_07  w02Ba045\_08  w02Ba045\_09  w02Ba045\_10 | w03Ba045\_01  w03Ba045\_02  w03Ba045\_03  w03Ba045\_04  w03Ba045\_05  w03Ba045\_06  w03Ba045\_07  w03Ba045\_08  w03Ba045\_09  w03Ba045\_10 | w04Ba045\_01  w04Ba045\_02  w04Ba045\_03  w04Ba045\_04  w04Ba045\_05  w04Ba045\_06  w04Ba045\_07  w04Ba045\_08  w04Ba045\_09  w04Ba045\_10 | w05Ba045\_01  w05Ba045\_02  w05Ba045\_03  w05Ba045\_04  w05Ba045\_05  w05Ba045\_06  w05Ba045\_07  w05Ba045\_08  w05Ba045\_09 |
| (Live together) The total amount of financial support to the 1st child  (Live together) The total amount of financial support to the 2nd child  (Live together) The total amount of financial support to the 3rd child  (Live together) The total amount of financial support to the 4th child  (Live together) The total amount of financial support to the 5th child  (Live together) The total amount of financial support to the 6th child  (Live together) The total amount of financial support to the 7th child  (Live together) The total amount of financial support to the 8th child  (Live together) The total amount of financial support to the 9th child  (Live together) The total amount of financial support to the 10th child | - | w02Ba061\_01  w02Ba061\_02  w02Ba061\_03  w02Ba061\_04  w02Ba061\_05  w02Ba061\_06  w02Ba061\_07  w02Ba061\_08  w02Ba061\_09  w02Ba061\_10 | w03Ba061\_01  w03Ba061\_02  w03Ba061\_03  w03Ba061\_04  w03Ba061\_05  w03Ba061\_06  w03Ba061\_07  w03Ba061\_08  w03Ba061\_09  w03Ba061\_10 | w04Ba061\_01  w04Ba061\_02  w04Ba061\_03  w04Ba061\_04  w04Ba061\_05  w04Ba061\_06  w04Ba061\_07  w04Ba061\_08  w04Ba061\_09  w04Ba061\_10 | w05Ba061\_01  w05Ba061\_02  w05Ba061\_03  w05Ba061\_04  w05Ba061\_05  w05Ba061\_06  w05Ba061\_07  w05Ba061\_08  w05Ba061\_09  w05Ba061\_10 |

\* The months of receiving financial support in Wave 1-4 were collected in a calendar format, and the total number of months was calculated from these raw variables.

(The total amount of financial support offered to the other family, w\_\_toothers)

| **The total amount of financial support offered to the other family** | **Wave 1 \*** | **Wave 2 \*** | **Wave 3 \*** | **Wave 4 \*** | **Wave 5** |
| --- | --- | --- | --- | --- | --- |
| The average amount of regular financial supports to the 1st other family member  The average amount of regular financial supports to the 2nd other family member  The average amount of regular financial supports to the 3rd other family member  The average amount of regular financial supports to the 4th other family member  The average amount of regular financial supports to the 5th other family member  The average amount of regular financial supports to the 6th other family member  The average amount of regular financial supports to the 7th other family member  The average amount of regular financial supports to the 8th other family member  The average amount of regular financial supports to the 9th other family member  The average amount of regular financial supports to the 10th other family member  The number of months of regular financial support I gave to the 1st other family member  The number of months of regular financial support I gave to the 2nd other family member  The number of months of regular financial support I gave to the 3rd other family member  The number of months of regular financial support I gave to the 4th other family member  The number of months of regular financial support I gave to the 5th other family member  The number of months of regular financial support I gave to the 6th other family member  The number of months of regular financial support I gave to the 7th other family member  The number of months of regular financial support I gave to the 8th other family member  The number of months of regular financial support I gave to the 9th other family member  The number of months of regular financial support I gave to the 10th other family member | w01Bb154\_01  ~  w01Bb154\_20  w01Bb160\_01  ~  w01Bb160\_20 | w02Bb154\_01  w02Bb154\_02  w02Bb154\_03  w02Bb154\_04  w02Bb154\_05  w02Bb154\_06  w02Bb154\_07  w02Bb154\_08  w02Bb154\_09  w02Bb160\_01  w02Bb160\_02 | w03Bb154\_01  w03Bb154\_02  w03Bb154\_03  w03Bb154\_04  w03Bb154\_05  w03Bb154\_06  w03Bb154\_07  w03Bb154\_08  w03Bb154\_09  w03Bb160\_01  w03Bb160\_02  w03Bb160\_03  w03Bb160\_04  w03Bb160\_05  w03Bb160\_06  w03Bb160\_07  w03Bb160\_08  w03Bb160\_09 | w04Bb154\_01  w04Bb154\_02  w04Bb154\_03  w04Bb154\_04  w04Bb154\_05  w04Bb154\_06  w04Bb154\_07  w04Bb154\_08  w04Bb154\_09  w04Bb154\_10  w04Bb160\_01  w04Bb160\_02  w04Bb160\_03  w04Bb160\_04  w04Bb160\_05  w04Bb160\_06  w04Bb160\_07  w04Bb160\_08  w04Bb160\_09  w04Bb160\_10 | w05Bb154\_01  w05Bb154\_02  w05Bb154\_03  w05Bb154\_04  w05Bb154\_05  w05Bb154\_06  w05Bb154\_07  w05Bb154\_08  w05Bb160\_01  w05Bb160\_02  w05Bb160\_03  w05Bb160\_04  w05Bb160\_05  w05Bb160\_06  w05Bb160\_07  w05Bb160\_08 |
| The total amount of occasional financial support I gave to the 1st other family  The total amount of occasional financial support I gave to the 2nd other family  The total amount of occasional financial support I gave to the 3rd other family  The total amount of occasional financial support I gave to the 4th other family  The total amount of occasional financial support I gave to the 5th other family  The total amount of occasional financial support I gave to the 6th other family  The total amount of occasional financial support I gave to the 7th other family  The total amount of occasional financial support I gave to the 8th other family  The total amount of occasional financial support I gave to the 9th other family  The total amount of occasional financial support I gave to the 10th other family | w01Bb161\_01  ~  w01Bb161\_20 | w02Bb161\_01  w02Bb161\_02  w02Bb161\_03  w02Bb161\_04  w02Bb161\_05  w02Bb161\_06 | w03Bb161\_01  w03Bb161\_02  w03Bb161\_03  w03Bb161\_04  w03Bb161\_05  w03Bb161\_06  w03Bb161\_07  w03Bb161\_08  w03Bb161\_09 | w04Bb161\_01  w04Bb161\_02  w04Bb161\_03  w04Bb161\_04  w04Bb161\_05  w04Bb161\_06  w04Bb161\_07  w04Bb161\_08  w04Bb161\_09  w04Bb161\_10 | w05Bb161\_01  w05Bb161\_02  w05Bb161\_03  w05Bb161\_04  w05Bb161\_05  w05Bb161\_06  w05Bb161\_07  w05Bb161\_08 |

\* The months of receiving financial support in Wave 1-4 are collected in a calendar format, and the total number of months is calculated from these raw variables.

|  |
| --- |
| **Subjective health (Raw data variables)** |

◆ Respondent's subjective health (C001, C152)

◆ Data containing these variables: Structurally Converted Data / Light Version Data / Raw data

Respondents are asked about their subjective health using two types of scales. One scale is comparable to a scale used in the HRS of the United States and another is comparable to a scale used in the SHARE of Europe. For all waves, the proportion of respondents who reported that their health is “4. Fair” or better is higher when the HRS scale is used compared to the proportion from the SHARE scale.

· w\_\_c001(HRS): 1. Excellent, 2. Very good, 3. Good, 4. Fair, 5. Poor

· w\_\_c152(SHARE): 1. Very good, 2. Good, 3. Fair, 4. Bad, 5.Very bad

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_c001 | 1. Excellent  2. Very good  3. Good  4. Fair  5. Poor |
| w\_\_c152 | 1. Very good 2. Good 3. Fair 4. Bad 5. Very bad |

◆ Examples of the KLoSA questions

|  |
| --- |
| C001. Next I have some questions about your health. How would you describe your current healthy status?  ①Very good  ②Good  ③Fair  ④Bad  ⑤Very bad  C159. Next I have some questions about your health. How would you describe your current healthy status?  ①Excellent  ②Very good  ③Good  ④Fair  ⑤Poor |

|  |
| --- |
| **Prevalence of chronic diseases** |

◆ High blood pressure or hypertension or not (w\_\_chronic\_a), Diabetes or high blood sugar or not (w\_\_chronic\_b), Cancer or malignant tumor (excluding minor skin cancer) or not (w\_\_chronic\_c), Chronic lung disease or not (w\_\_chronic\_d), Liver disease (except fatty liver) or not (w\_\_chronic\_e), Heart related disease or not (w\_\_chronic\_f), Cerebrovascular disease or not (w\_\_chronic\_g), Emotional, nervous or psychiatric problems or not (w\_\_chronic\_h), Arthritis or rheumatism or not (w\_\_chronic\_i), Prostatic disease or not (w\_\_chronic\_j), Digestive system disease or not (w\_\_chronic\_k), Disc in neck or waist or not (w\_\_chronic\_l), Dementia or not (w\_\_chronic\_m), The number of chronic diseases (w\_\_chronic\_sum),

◆ Data containing these variables:

(Whether R was diagnosed or not) Structurally Converted Data / Light Version Data

(When R was diagnosed) Light Version Data

Respondents are asked whether she/he is diagnosed with each of the following 13 chronic diseases: high blood pressure, diabetes, cancer or malignant tumor, chronic lung disease, liver disease, heart related disease, cerebrovascular disease, psychiatric problems, arthritis or rheumatism, prostatic disease, digestive system disease, disc in neck or waist, and dementia. When the respondent was diagnosed with a disease(s) in a certain wave, the question regarding the disease is skipped in the following waves. Due to this survey design, responses from the previous waves were retrieved in order to identify respondents who have been diagnosed with the disease(s). For example, in order to identify respondents with the disease in Wave 2, chronic disease variables from Wave 1 and Wave 2 should be combined. Likewise, respondents with the disease in Wave 3 can be identified by combining (1) a generated variable indicating whether the respondent was diagnosed with the disease in Wave 1 or 2 with (2) a raw variable indicating whether the respondent was diagnosed with the disease in Wave 3.

Variables indicating the time of diagnosis are constructed in the same way: the variable indicating the time of the first diagnosis was combined with raw variables of each wave indicating whether the respondent was newly diagnosed or not. In the case of the number of chronic diseases, it was calculated by summing the diagnosis of w\_\_chronic\_a~i , and in wave 7, the variable was not created so that the user could directly set the total number of chronic diseases.

|  |  |  |
| --- | --- | --- |
| **Variable name** | **Variable description** | **Values** |
| w\_\_choronic\_sum | The number of chronic diseases | \_\_\_\_\_\_(Unit: diseases) |
| w\_\_choronic\_\_a  w\_\_choronic\_\_b  w\_\_choronic\_\_c  w\_\_choronic\_\_d  w\_\_choronic\_\_e  w\_\_choronic\_\_f  w\_\_choronic\_\_g  w\_\_choronic\_\_h  w\_\_choronic\_\_i  w\_\_choronic\_\_j  w\_\_choronic\_\_k  w\_\_choronic\_\_l  w\_\_choronic\_\_m | High blood pressure or hypertension or not  Diabetes or high blood sugar or not  Cancer or malignant tumor (excluding minor skin cancer) or not  Chronic lung disease or not  Liver disease (except fatty liver) or not  Heart related disease or not  Cerebrovascular disease or not  Emotional, nervous or psychiatric problems or not  Arthritis or rheumatism or not  Prostatic disease or not  Digestive system disease or not  Disc in neck or waist or not  Dementia or not | 1. Yes   5. No |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. ‘High blood pressure/ hypertension <Same across all waves >  •If R said that he/she didn’t receive a diagnosis of high blood pressure or 'Don’t know/ Refuse to answer' in the previous interview, then ask C006. If R received such a diagnosis, then ask C008.  C006. Has a doctor ever told you that you have high blood pressure or hypertension since the previous interview(\_\_\_ month \_\_\_ day \_\_\_ year)?  ①Yes ⑤ No →Go to C011  C007. When was your high blood pressure or hypertension diagnosed for the first time? (unit: year and month combined into 6 digits)  [IWER: Enter the year and month using 6 digits. For example, mark 201401 for January 2014. If the month is not clear, enter 201400.]  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  [Range: 200600~201411] →Go to C009 |

◆ Raw variables used

[Whether R was diagnosed with a chronic disease]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Whether R was diagnosed with a chronic disease** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Since the previous interview, whether or not high blood pressure or hypertension diagnostic  Since the previous interview, whether or not diabetes or high blood sugar diagnostic  Since the previous interview, whether or not cancer or malignant tumor diagnostic  Since the previous interview, whether or not chronic lung disease diagnostic  Since the previous interview, whether or not liver disease diagnostic  Since the previous interview, whether or not heart related disease diagnostic  Since the previous interview, whether or not cerebrovascular disease diagnostic  Since the previous interview, whether or not any emotional, nervous, or psychiatric problems diagnostic  Since the previous interview, whether or not arthritis or rheumatism diagnostic  Since the previous interview, whether or not prostatic disease diagnostic | w01C006  w01C011  w01C016  w01C023  w01C028  w01C033  w01C038  w01C043  w01C048  w01C063 | w02C006  w02C011  w02C016  w02C023  w02C028  w02C033  w02C038  w02C043  w02C048  w02C063 | w03C006  w03C011  w03C016  w03C023  w03C028  w03C033  w03C038  w03C043  w03C048  w03C063 | w04C006  w04C011  w04C016  w04C023  w04C028  w04C033  w04C038  w04C043  w04C048  w04C063 | w05C006  w05C011  w05C016  w05C023  w05C028  w05C033  w05C038  w05C043  w05C048  w05C063 |
| Whether or not diagnosed with each chronic disease in Wave 1  Whether or not diagnosed with each chronic disease in Wave 2  Whether or not diagnosed with each chronic disease in Wave 3  Whether or not diagnosed with each chronic disease in Wave 4 |  | w01chronic\_a  ~w01chronic\_j | w01chronic\_a  ~w01chronic\_j  w02chronic\_a  ~w02chronic\_j | w01chronic\_a  ~w01chronic\_j  w02chronic\_a  ~w02chronic\_j  w03chronic\_a  ~w03chronic\_j | w01chronic\_a  ~w01chronic\_j  w02chronic\_a  ~w02chronic\_j  w03chronic\_a  ~w03chronic\_j  w04chronic\_a  ~w04chronic\_j |

[When R was diagnosed with chronic disease]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **When R was diagnosed with chronic disease** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Time high blood pressure is diagnosed by first (year)  Time high blood pressure is diagnosed by first (month)  Time diabetes is diagnosed by first (year)  Time diabetes is diagnosed by first (month)  Time cancer or malignant tumor is diagnosed by first (year)  Time cancer or malignant tumor is diagnosed by first (month)  Time chronic lung disease is diagnosed by first (year)  Time chronic lung disease is diagnosed by first (month)  Time liver disease is diagnosed by first (year)  Time liver disease is diagnosed by first (month)  Time heart related disease is diagnosed by first (year)  Time heart related disease is diagnosed by first (month)  Time cerebrovascular disease is diagnosed by first (year)  Time cerebrovascular disease is diagnosed by first (month)  Time diabetes is diagnosed by first (year)  Time diabetes is diagnosed by first (month)  Time arthritis or rheumatism is diagnosed by first (year)  Time arthritis or rheumatism is diagnosed by first (month)  Time prostatic disease is diagnosed by first (year)  Time prostatic disease is diagnosed by first (month) | w01C007y  w01C007m  w01C012y  w01C012m  w01C017y  w01C017m  w01C024y  w01C024m  w01C029y  w01C029m  w01C034y  w01C034m  w01C039y  w01C039m  w01C044y  w01C044m  w01C049y  w01C049m  w01C064y  w01C064m | w02C007y  w02C007m  w02C012y  w02C012m  w02C017y  w02C017m  w02C024y  w02C024m  w02C029y  w02C029m  w02C034y  w02C034m  w02C039y  w02C039m  w02C044y  w02C044m  w02C049y  w02C049m  w02C064y  w02C064m | w03C007y  w03C007m  w03C012y  w03C012m  w03C017y  w03C017m  w03C024y  w03C024m  w03C029y  w03C029m  w03C034y  w03C034m  w03C039y  w03C039m  w03C044y  w03C044m  w03C049y  w03C049m  w03C064y  w03C064m | w04C007y  w04C007m  w04C012y  w04C012m  w04C017y  w04C017m  w04C024y  w04C024m  w04C029y  w04C029m  w04C034y  w04C034m  w04C039y  w04C039m  w04C044y  w04C044m  w04C049y  w04C049m  w04C064y  w04C064m | w05C007y  w05C007m  w05C012y  w05C012m  w05C017y  w05C017m  w05C024y  w05C024m  w05C029y  w05C029m  w05C034y  w05C034m  w05C039y  w05C039m  w05C044y  w05C044m  w05C049y  w05C049m  w05C064y  w05C064m |
| Time diagnosed with each chronic disease in Wave 1  Time diagnosed with each chronic disease in Wave 2  Time diagnosed with each chronic disease in Wave 3  Time diagnosed with each chronic disease in Wave 4 |  | w01C007y  ~w01C064m | w01C007y  ~w01C064m  w02C007y  ~w02C064m | w01C007y  ~w01C064m  w02C007y  ~w02C064m  w03C007y  ~w03C064m | w01C007y  ~w01C064m  w02C007y  ~w02C064m  w03C007y  ~w03C064m  w04C007y  ~w04C064m |

|  |
| --- |
| **Smoking status (w\_\_smoke) and Drinking status (w\_\_alc)** |

◆ Smoking status (w\_\_smoke), Drinking status (w\_\_alc)

◆ Data containing these variables : Structurally Converted Data / Light Version Data

Smoking status is classified into “Non-smoker”, “Past-smoker”, and “Current-smoker”. Respondents who answered “1. Yes” to the question “Do you smoke cigarettes now?” are classified as “Current-smoker”. Respondents who do not currently smoke, but ever smoked (or since the previous interview) more than 5 packs of cigarettes (100 cigarettes) are classified as “Past-smoker”. Respondents who never smoked more than 5 packs of cigarettes (100 cigarettes) and do not currently smoke are classified as “Non-smoker”.

Similarly, drinking status is classified into “Non-drinker”, “Past-drinker”, and “Current-drinker”. There are cross-wave differences: In Wave 1, respondents who drink from time to time or drunk recently were classified as “Current-drinker”. Those who never drunk were classified as “Non-drinker” and the other cases were classified as “Past-drinker. From Wave 2 onwards, those who sometimes or often drink currently are classified as “Current-drinker”, those who were “non-drinker” in prior waves and do not drink currently as “Non-drinker”, and the others as “Past-drinker”

※ The generation process of the variables is same as 『2006, 2008 Guide on generated variables 2』

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_smoke | 0. Non-smoker  1. Past-smoker  2. Current-smoker |
| w\_\_alc | 1. Current-drinker  2. Past-drinker  3. Non-drinker |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on smoking <Same questions are asked across all waves > (Note that the question numbers may differ across waves, but the variable names are unified.)  C124. Have you smoked more than 5 packs of cigarettes (100 cigarettes) in total since the previous interview (\_\_\_ month \_\_\_ day \_\_\_ year)?  ①Yes ⑤No  C125. Do you smoke cigarettes now?  ①Yes ⑤No →Go to C128  Wave 5. Questions on drinking <Same questions are asked across all waves >  C130. Do you sometimes or often drink any alcoholic beverages, such as beer, wine, or Makgeolli (rice wine)?  ①Yes →Go to C132 (Non-drinker in 2012) or C133 (Drinker in 2012)  ⑤No →Go to C131 (Drinker in 2012) or C149 (Non-drinker in 2012)  \*\* Wave 1 questions on drinking    C109. Do you ever drink any alcoholic beverages, such as beer, wine, or Makgeolli (rice wine)?  ①Yes, I drink →Go to C113  ⑤No, I don’t drink  C110. Have you never had alcoholic beverages due to some reasons (e.g., religious, health‐  related, etc), or you used to have some drinks in the past?  ①No, I never had a drink →Go to C131  ⑤Yes, I used to drink  C111. Do you still drink now?  ①Yes, I drink from time to time →Go to C113  ⑤No, I quit drinking |

◆ Raw variables used

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Variable name** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Smoking | Smoking experience more than 5 packs (100 cigarettes) since previous interview  Currently, whether or not smoking  Smoking status, Wave 1 (generated)  Smoking status, Wave 2 (generated)  Smoking status, Wave 3 (generated)  Smoking status, Wave 4 (generated) | w01C116  w01C117 | w02C116  w02C117  w01smoke | w03C116  w03C117  w01smoke  w02smoke | w04C116  w04C117  w01smoke  w02smoke  w03smoke | w05C116  w05C117  w01smoke  w02smoke  w03smoke  w04smoke |
| Drinking | Usually, whether or not drinking  Originally do not drink liquor  Currently, whether or not (these days) drinking  Drinking status, Wave 1 (generated)  Drinking status, Wave 2 (generated)  Drinking status, Wave 3 (generated)  Drinking status, Wave 4 (generated) | w01C122  w01C110a  w01C111a | w02C122  w01alc | w03C122  w01alc  w02alc | w04C122  w01alc  w02alc  w03alc | w05C122  w01alc  w02alc  w03alc  w04alc |

|  |
| --- |
| **Alcohol (soju/beer/makgeolli/whisky or liquor/wine), Drinking behavior** |

◆ Soju/Beer/Macgeolli/Whiskey/Wine drinking or not (w\_soju, w\_beer, w\_makgeolli, w\_wisk, w\_wine), Drinking behavior (Alcoholic/Over drinking/Normal drinking) (w\_addic)

◆ Data containing these variables: Structurally Converted Data

For drinking behavior, we constructed variables about whether the respondent drinks each type of alcohol and his/her drinking behavior. Whether the respondent drinks a type of alcohol is a binary variable. Respondents who reported drinking each type of alcohol “less than a once a month” or “never” were classified into “0. No, I don’t drink”, and otherwise, “1 Yes, I drink”.

The drinking behavior variable is constructed from the answers regarding others’ reaction on his/her drinking as well as his/her own reported feelings. Five questions are used in the variable generation, where a total score of 1 is classified into “Over drinking”, and 2 or more into “Alcoholic”.

※ Taken from 『2006, 2008 Guide on generated variables 1』

|  |  |  |
| --- | --- | --- |
| **Variable name** | **Variable description** | **Values** |
| w\_soju | Soju drinking or not | 0 = No, I don’t drink  1 = Yes, I drink |
| w\_beer | Beer drinking or not | 0 = No, I don’t drink  1 = Yes, I drink |
| w\_makgeolli | Macgeolli drinking or not | 0 = No, I don’t drink  1 = Yes, I drink |
| w\_wisk | Whiskey drinking or not | 0 = No, I don’t drink  1 = Yes, I drink |
| w\_wine | Wine drinking or not | 0 = No, I don’t drink  1 = Yes, I drink |
| w\_addic | Drinking behavior | 0 = Normal drinking  1 = Over drinking  2 = Severe drinking (Alcoholic) |

◆ Examples of the KLoSA questions

|  |
| --- |
| \* Questions on whether R drinks each type of alcohol  C134. How often did you drink Soju (Korean liquor) in a month?   1. None or less than once a month →Go to C136 2. Once a month 3. 2~3 times a month 4. Once a week 5. 2~3 times a week 6. 4~6 times a week 7. Everyday/ once a day 8. Everyday/ more than twice a day   C136. How often did you drink beer in a month?   1. None or less than once a month →Go to C138 2. Once a month 3. 2~3 times a month 4. Once a week 5. 2~3 times a week 6. 4~6 times a week 7. Everyday/ once a day 8. Everyday/ more than twice a day   C138. How often did you drink Makgeolli (rice wine) in a month?   1. None or less than once a month →Go to C140 2. Once a month 3. 2~3 times a month 4. Once a week 5. 2~3 times a week 6. 4~6 times a week 7. Everyday/ once a day 8. Everyday/ more than twice a day   C140. How often did you drink whisky and other liquors in a month?   1. None or less than once a month →Go to C142 2. Once a month 3. 2~3 times a month 4. Once a week 5. 2~3 times a week 6. 4~6 times a week 7. Everyday/ once a day 8. Everyday/ more than twice a day   C142. How often did you drink wine in a month?   1. None or less than once a month →Go to C144 2. Once a month 3. 2~3 times a month 4. Once a week 5. 2~3 times a week 6. 4~6 times a week 7. Everyday/ once a day 8. Everyday/ more than twice a day   \* Questions used for Drinking behavior  C144. Have you ever felt that you should quit drinking alcoholic beverages?   1. Yes ⑤ No   C145. Has anyone complained about your drinking habit?   1. Yes ⑤ No →Go to C147   C146. Have you ever been angry because other people complained about your drinking habit?   1. Yes ⑤ No   C147. Have you ever felt bad or guilty about drinking?   1. Yes ⑤ No   C148. Have you ever taken a drink as soon as you get up in the morning to calm your nerves or relieve a hangover?   1. Yes ⑤ No |

◆ Raw variables used

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Generated variables** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Whether drink or not\_by type | 1-month average  Whether drinking or not\_soju  Whether drinking or not\_beer  Whether drinking or not\_macgeolli  Whether drinking or not\_whiskey  Whether drinking or not\_wine | w01C126  w01C128  w01C130  w01C132  w01C134 | w02C126  w02C128  w02C130  w02C132  w02C134 | w03C126  w03C128  w03C130  w03C132  w03C134 | w04C126  w04C128  w04C130  w04C132  w04C134 | w05C126  w05C128  w05C130  w05C132  w05C134 |
| Drinking behavior | Experience that feel that will should quit drinking | w01C136 | w02C136 | w03C136 | w04C136 | w05C136 |
| Experience blamed about drinking habit | w01C137 | w02C137 | w03C137 | w04C137 | w05C137 |
| Experience that get angry because of criticism about drinking | w01C138 | w02C138 | w03C138 | w04C138 | w05C138 |
| Guilt experience about drinking | w01C139 | w02C139 | w03C139 | w04C139 | w05C139 |
| Experience drinking in the morning | w01C140 | w02C140 | w03C140 | w04C140 | w05C140 |

|  |
| --- |
| **Depression status (dep1)** |

◆ Whether depression or not (w\_\_dep1)

◆ Data containing the variable: Structurally Converted Data / Light Version Data

Whether respondent is depressed can be derived from C141(or Cadd\_19): by classifying respondents who reported having felt depressed for more than 2 weeks during the past 12 months or those who have taken anti-depressants into a group with depression, and the others as a group without depression. It was included from Wave 1 to 4 and excluded from Wave 5 to 6, but it is reconstructed in Wave 7 for the linkage.

|  |  |  |
| --- | --- | --- |
| **Variable name** | **Variable description** | **Values** |
| w\_\_dep1 | w\_dep1 is generated by Cadd\_19  ‘⑤ NO’ → No depression  ‘① YES’ or ‘③ Did not have such feelings because I was taking an anti-depressants’ → Have depression | 0. No depression  1. Have depression |

◆ sumcesd (Standard depression status, CES-D10) is a generated variable that was formerly available from Waves 1 to 7, is no longer provided across waves.

Instead, we now provide an alternative way to identify depression status. To accomplish this, we have guidelines which provide detailed instructions for how to create a generated variavle which is the standard depression status (CES-D10). The main dataset (w\_\_) contains ten variables from w\_C142 to w\_C151 to create the standard depression status. This is done by assigning a binary value of 1 or 0 to each variable from C142 to C151.

The method is as follows: We assign a value of 0 to “3)”, occasionally or a moderate amount of time (3-4 days) and “4)”, as most of all of the time (5-7 days). We assign a value of 1 to “1)”, rarely or none of the time (less than one day) and “2)” some or very little time (1-2 days). Before this recoding process, C146 (I was happy) and C149 (I enjoyed life) should be reversely coded. When the variables are recoded and reversely coded, w\_sumcesd is generated by adding all of the binary values. w\_sumcesd takes on a value between 0 and 10. From wave 5 onwards, all respondents are asked 10 questions regarding depression.

Again, the KLoSA team no longer offers “sumcesd”, as differing methods were used to create and identify depression status. Researchers need to further identify the ideal way of measuring depression status on their own.

※ Caveats: The ten questions about depression status in Wave 1-4 are a selected set of questions from Korean CES-D20 (Anderson form). From Wave 5 onwards, questions are taken from Korean CES-D10 (Boston form). Korean CES-D10 is an abridged and translated version of American CES-D20 which is developed for the elderly and people with chronic disease.

[CES-D10 questions on depression]

|  |  |
| --- | --- |
| **Wave 1 ~ Wave 4 (Anderson form)** | **From Wave 5 onwards (Boston form)** |
| 1. I was bothered by things that usually don’t bother me  2. I had trouble keeping my mind on what I was doing.  3. I felt depressed.  4. I felt that everything I did was an effort.  5. I was happy. [Note: Reverse scale]  6. I felt fearful.  7. My sleep was restless.  8. I enjoyed life [Note: Reverse scale]  9. I felt lonely.  10. I could not get “going” | 1. People were unfriendly.  2. I felt sad.  3. I felt depressed  4. I felt that everything I did was an effort  5. I was happy. [Note: Reverse scale]  6. I felt that people disliked me.  7. My sleep was restless.  8. I enjoyed life. [Note: Reverse scale]  9. I felt lonely.  10. I could not get “going” |

|  |
| --- |
| **Number of natural teeth (w\_\_naturalteeth)** |

◆ Number of natural teeth (w\_\_naturalteeth)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

The number of natural teeth variables was newly created by adding relevant questions (Cadd\_06) in Wave 7 to measure the quality of life related to oral health. The variable generation process calculated the number of natural teeth by subtracting the number of false teeth such as implants and dentures and the number of teeth left untreated from the current remaining number of wisdom teeth (up to four). It can be used as various oral health measures such as retention ratio of more than 20 natural teeth.

※ NOTE : Since it was not measured by a professional medical practitioner, the accuracy and expertise of the measurement method may be somewhat insufficient.

|  |  |  |
| --- | --- | --- |
| **Variable name** | **Variable description** | **Values** |
| w\_\_naturalteeth | (28 + number of wisdom teeth remaining)  - Number of implant teeth  - Number of dentures  - Number of teeth left untreated  = the number of natural teeth (including the wisdom teeth)  \*Total dentures (100)→calculated as 28 false teeth  \*The total dentures of the lower or upper teeth (55)→calculated as 14 false teeth. | Continuous  (0 ~ 32) |

|  |
| --- |
| **Geriatric Oral Health Assessment Index (w\_\_gohai)** |

◆ Geriatric Oral Health Assessment Index (GOHAI) (w\_\_gohai)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

The elderly oral health evaluation index variable was newly created by adding related items to Wave 7 (Cadd\_07~Cadd\_18, 12 questions) to measure the quality of life related to oral health. The commonly used Korean GOHAI scale was used, and 12 questions were added by measuring the 6-point scale (0-5 points), while 3 positive questions (Cadd\_09, Cadd\_11 and Cadd\_13) were calculated by reversing the scores. The higher the GOHAI score, the higher the quality of life related to positive oral health.

※ GOHAI (Geriatric Oral Health Assessment Index)

: Elderly oral health assessment index using Korean measuring tools adapted and verified by Shin Sun-jung and Jung Se-hwan (2011) from Atchion and Dolan (1990)

[Geriatric Oral Health Assessment Index Index (GOHAI) Questions]

|  |  |  |
| --- | --- | --- |
| 1 | How often did you limit the kinds or amounts of food you eat because of problems with your teeth or dentures? | Notes |
| 2 | How often did you have trouble biting or chewing different kinds of food, such as firm meat or apples? |  |
| 3 | How often were you able to swallow comfortably? | reverse scale |
| 4 | How often have your teeth or dentures prevented you from speaking the way you want? |  |
| 5 | How often were you able to eat anything without feeling discomfort? | reverse scale |
| 6 | How often did you limit contact with other people because of the condition of your teeth or dentures? |  |
| 7 | How often were you pleased or happy with the looks of your teeth and gums or dentures? | reverse scale |
| 8 | How often did you use medication to relieve pain or discomfort around your mouth? |  |
| 9 | How often were you worried or concerned about problems with your teeth, gums or dentures? |  |
| 10 | How often did you feel nervous or self- conscious because of problems with teeth, gums or dentures? |  |
| 11 | How often did you feel uncomfortable eating in front of other people because of problems with your teeth or dentures? |  |
| 12 | How often were your teeth or gums sensitive to hot, cold or sweet foods? |  |

|  |  |  |
| --- | --- | --- |
| **Variable name** | **Variable description** | **Values** |
| w\_\_gohai | All 12 questions should be added to the score, but three positive questions (Cadd\_09, Cadd\_11 and Cadd\_13) should be calculated by reversing the score.  (① Always→ 0, ② Very Often → 1, ③ Often → 2, ④ Sometimes → 3, ⑤ Almost none → 4, ⑥ None → 5)  \* Higher GOHAI scores mean higher quality of life related to positive oral health | Continuous  (0 ~ 60) |

|  |
| --- |
| **Days of hospitalization, Expense for hospitalization paid by respondent, Outpatient medical treatment expense paid by respondent** |

◆ Days of hospitalization(w\_\_days), Expense for hospitalization paid by respondent(w\_\_oopm1), Outpatient medical treatment expense paid by respondent (w\_\_oopm2), Nursing expenses paid per day (w01oopm1\_1)

◆ Data containing these variables: Light Version Data

If the respondent reported having been hospitalized at a hospital, nursing hospital, or convalescence clinic since the previous interview, the respondent is asked to provide, for each hospitalization, the type of health care facility (general hospital, government-designated nursing hospital, or other hospitals) and days of hospitalization. The questions are looped for each hospitalization, and Days of hospitalization(w\_\_days) is generated by the total sum of hospitalized days, across all types of facility. From Wave 2 onwards, respondents are asked to classify the hospitalization facilities into one of the two categories: government-designated nursing hospitals or other hospitals.

※ Caveats: Note that for Wave 1, respondents were asked how many times he/she was hospitalized during the past 12 months and days of hospitalization was asked for the most recent hospitalization only. Thus, note that Days of hospitalization in Wave 1 only pertains to the most recent hospitalization, and may not correspond to the total days of hospitalization. Also, payment for caregiving in Wave 1 is asked only about the most involved caregiver. (In other waves, Contribution for helper total expenses\_by myself is included in Expense for hospitalization paid by respondent (w\_\_oopm1)

Expense for hospitalization paid by respondent is defined as the respondent’s out-of-pocket payments for the hospitalization. In Wave 1, respondents are asked only about his/her out-of-pocket expenses, while from Wave 2 onwards, respondents are asked about the amount paid by him/herself, the amount paid by relatives including children and parents, and the amount paid by private health insurances. Only the expenses paid by the respondent is counted when generating Expense for hospitalization paid by respondent.

For nursing expenses per each helper, respondents are asked about the expenses for helper services paid by the respondent him/herself, the expenses paid by relatives including children and parents, and the expenses paid by private health insurances. When generating Expense for hospitalization paid by respondent, helper expenses paid by the respondent is included.

※ Caveats : Note that in Wave 1, respondents were asked about their most recent hospitalization while from Wave 2 onwards, respondents are asked about utilization of health care services since the previous interview. Thus, Days of hospitalization and Expense for hospitalization paid by respondent in Wave 1 only pertains to the most recent hospitalization. Also please note that if there is any missing value for hospitalization expenses, Expense for hospitalization is generated by summing only non-missing values (Average Helper expenses per day can only be found in Wave 1).

Respondents are also asked about their utilization of outpatient care. Respondents are asked to report the number of outpatient visits and the out-patient expenses since the previous interview. Outpatient treatments are categorized into the following types: dental clinic, public health clinic, oriental medicine clinic, other outpatient medical treatment (including visits to physician, otolaryngologist, ophthalmologist, and the like), and in-home health care. Respondents are asked only about his/her out-of-pocket expenses in Wave 1, while from Wave 2 onwards, respondents are asked about the expenses paid by him/herself, the expenses paid by relatives including children and parents, and the expenses paid by private health insurances. Only the expenses paid by the respondent is considered when generating Outpatient medical treatment expense paid by respondent. The total outpatient expense also includes the respondent’s out-of-pocket payments for regular prescription medicine and medical assistance equipment.

※ Caveats: Note that in Wave 1, respondents were asked about their outpatient care during the past 12 months. From Wave 2 onwards, respondents are asked about their outpatient care since the previous interview.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_days | \_\_\_\_\_\_ (Unit: a day) |
| w\_\_oopm1 | \_\_\_\_\_\_ (Unit: 10,000 Korean won) |
| w\_\_oopm2 | \_\_\_\_\_\_(Unit: 10,000 Korean won) |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5. Questions on ‘hospitalization’ <Loop through the following questions as many times as R was hospitalized (loop) >  C337. [Loop through the 1st/2nd/… hospitalization] In which health care facility were you hospitalized during your [1st/2nd/..] hospitalization?  ① General hospital  ③ Government-designated nursing hospital  ⑤ Other nursing hospitals  C338. [Loop through the 1st/2nd/… hospitalization] How many days did you stay at [C337]? (unit: a day)  [IWER: For example, enter 180 days for 6 months, and 450 days for 1 year and 3 months.]  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ days [Range: 1~2190]  C339. [Loop through the 1st/2nd/… hospitalization] You have said that you were hospitalized for [C338] days. At that time, how much did you pay for your hospitalization (medical treatment) in total? (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MW [Range: 1~9997]  Don’t know →Go to C341  Refuse to answer →Go to C341  C340. You have said that you paid [C339] MW (10,000 Korean won) for your [C336] rounds of hospitalization (medical treatment). How much did you pay out-of-pocket? Also, how much did your relatives or private health insurances pay on behalf of you? Please include in the private health insurance category any payments that you made and were reimbursed by private health insurances. (unit: 10,000 Korean won) Categories are ① out-of-pocket payment (C340a), ② payment by relatives including children and parents (C340b), ③ payment reimbursed by private health insurances (C340c).  < For each reported caregiver, loop through the following questions on the number of caregiving days, hours, and the amount of payment for caregiving.>  C347. You have said that you paid [C346] MW (10,000 Korean won) for the caregiver services. How much did you pay out-of-pocket? Also, how much did your relatives or private health insurances pay on behalf of you? Please include in the private health insurance category any payments that you made and were reimbursed by private health insurances. (unit: 10,000 Korean won) Categories are ① out-of-pocket payments (C347a), ② payments by relatives including children and parents (C347b), ③ payments reimbursed by private health insurances (C348c).  \*\*Wave 1. Questions on ‘hospitalization’  Cc18. In which health care facility were you hospitalized during your recent hospitalization?  ① General hospital  ⑤ Other nursing hospitals  Cc19. How many days did you stay at [Cc18]? (unit: a day)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ days [Range: 1~365]  Cc20.You have said that you were hospitalized for [Cc19] days. At that time, how much did you pay for your hospitalization (medical treatment) in total? Please do not include the amount covered by private insurance plan or other family members such as children or parents. Please only consider the payment you paid. (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MW [Range: 0~9997]  Cc26. If any, how much did you, yourself, pay for the care per day? Please do not include the amount covered by private insurance plan or other family members such as children or parents. Please only consider the payment you paid. (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MW [Range: 0~50]  Wave 5. Out-of-pocket payments for outpatient services (dental care)  C349. You have said that you received dental care [C330] times since the previous interview (\_\_\_ month \_\_\_ day \_\_\_ year). If so, how much did you pay for your dental care in total? (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MW [Range: 1~9997]  Don’t know →Go to C351  Refuse to answer →Go to C351  C350. You have said that you paid [C349] MW (10,000 Korean won) for your dental care. How much did you pay out-of-pocket? Also, how much did your relatives or private health insurances pay on behalf of you? Please include in the private health insurance category any payments that you made and were reimbursed by private health insurances. (unit: 10,000 Korean won) Categories are ① out-of-pocket payments (C350a), ② payments by relatives including children and parents (C350b), ③ payments reimbursed by private health insurances (C350c).  Questions on public health clinic, oriental medicine clinic, other outpatient medical treatment, in-home health care, prescription drug, and other medical assistance equipment are asked as well. (Please refer to the questionnaire)    \*\* Wave 1. Out-of-pocket payments for outpatient services (dental care)  Cc27. Have you ever received dental care (including denture care) in the past 12 months? If so, how many times did you go to a dental hospital/clinic? (unit: a time)  [IWER: Enter 0 if R has never made such a visit. Please consider the last 12 months, not the year 2005.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ time [Range: 0~365] (if zero, go to Cc29)  Cc28. You have said that you received dental care [Cc27] times in the past 12 months. If so, how much did you pay for your dental care in total? Please do not include the amount covered by private insurance plan or other family members such as children or parents. Please only consider the payment you paid. (unit: 10,000 Korean won)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MW [Range: 0~9997] |

◆ Raw variables used

[Days of hospitalization]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Days of hospitalization** | **Wave 1\*** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Days of 1st hospitalization (unit: a day)  Days of 2nd hospitalization (unit: a day)  Days of 3rd hospitalization (unit: a day)  Days of 4th hospitalization (unit: a day)  Days of 5th hospitalization (unit: a day)  Days of 6th hospitalization (unit: a day)  Days of 7th hospitalization (unit: a day)  Days of 8th hospitalization (unit: a day)  Days of 9th hospitalization (unit: a day)  Days of 10th hospitalization (unit: a day)  Days of 11th hospitalization (unit: a day)  Days of 12th hospitalization (unit: a day) | w01Cc19 | w02C320\_01  w02C320\_02  w02C320\_03  w02C320\_04  w02C320\_05  w02C320\_06  w02C320\_07  w02C320\_08  w02C320\_09  w02C320\_10  w02C320\_11  w02C320\_12 | w03C320\_01  w03C320\_02  w03C320\_03  w03C320\_04  w03C320\_05  w03C320\_06  w03C320\_07  w03C320\_08  w03C320\_09  w03C320\_10 | w04C320\_01  w04C320\_02  w04C320\_03  w04C320\_04  w04C320\_05  w04C320\_06 | w05C320\_01  w05C320\_02  w05C320\_03  w05C320\_04  w05C320\_05  w05C320\_06  w05C320\_07  w05C320\_08  w05C320\_09  w05C320\_10 |

[Expense for hospitalization paid by respondent]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Expense for hospitalization/nursing paid by respondent** | **Wave 1\*** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| In 1st hospitalization, contribution for expense\_(1) by myself  In 2nd hospitalization, contribution for expense\_(1) by myself  In 3rd hospitalization, contribution for expense\_(1) by myself  In 4th hospitalization, contribution for expense\_(1) by myself  In 5th hospitalization, contribution for expense\_(1) by myself  In 6th hospitalization, contribution for expense\_(1) by myself  In 7th hospitalization, contribution for expense\_(1) by myself  In 8th hospitalization, contribution for expense\_(1) by myself  In 9th hospitalization, contribution for expense\_(1) by myself  In 10th hospitalization, contribution for expense\_(1) by myself  In 11th hospitalization, contribution for expense\_(1) by myself  In 12th hospitalization, contribution for expense\_(1) by myself | w01Cc20 | w02C322\_01a  w02C322\_02a  w02C322\_03a  w02C322\_04a  w02C322\_05a  w02C322\_06a  w02C322\_07a  w02C322\_08a  w02C322\_09a  w02C322\_10a  w02C322\_11a  w02C322\_12a | w03C322\_01a  w03C322\_02a  w03C322\_03a  w03C322\_04a  w03C322\_05a  w03C322\_06a  w03C322\_07a  w03C322\_08a  w03C322\_09a  w03C322\_10a | w04C322\_01a  w04C322\_02a  w04C322\_03a  w04C322\_04a  w04C322\_05a  w04C322\_06a | w05C322\_01a  w05C322\_02a  w05C322\_03a  w05C322\_04a  w05C322\_05a  w05C322\_06a  w05C322\_07a  w05C322\_08a  w05C322\_09a  w05C322\_10a |
| Contribution for helper total expenses\_by myself |  | w02C329a | w03C329a | w04C329a | w05C329a |
| In recent hospitalizaion, nursing expenses by the person who takes care of mostly (unit : an hour)1) | w01Cc26 |  |  |  |  |

1) Generated variable found only in Wave 1 (w01oopm1\_1)

[Outpatient medical treatment expense paid by respondent]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Outpatient medical treatment expense paid by respondent** | **Wave 1\*** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| In 1st hospitalization, contribution for expense\_(1) by myself  In 2nd hospitalization, contribution for expense\_(1) by myself  In 3rd hospitalization, contribution for expense\_(1) by myself  In 4th hospitalization, contribution for expense\_(1) by myself  In 5th hospitalization, contribution for expense\_(1) by myself  In 6th hospitalization, contribution for expense\_(1) by myself  In 7th hospitalization, contribution for expense\_(1) by myself  In 8th hospitalization, contribution for expense\_(1) by myself  In 9th hospitalization, contribution for expense\_(1) by myself  In 10th hospitalization, contribution for expense\_(1) by myself  In 11th hospitalization, contribution for expense\_(1) by myself  In 12th hospitalization, contribution for expense\_(1) by myself | w01Cc20 | w02C322\_01a  w02C322\_02a  w02C322\_03a  w02C322\_04a  w02C322\_05a  w02C322\_06a  w02C322\_07a  w02C322\_08a  w02C322\_09a  w02C322\_10a  w02C322\_11a  w02C322\_12a | w03C322\_01a  w03C322\_02a  w03C322\_03a  w03C322\_04a  w03C322\_05a  w03C322\_06a  w03C322\_07a  w03C322\_08a  w03C322\_09a  w03C322\_10a | w04C322\_01a  w04C322\_02a  w04C322\_03a  w04C322\_04a  w04C322\_05a  w04C322\_06a | w05C322\_01a  w05C322\_02a  w05C322\_03a  w05C322\_04a  w05C322\_05a  w05C322\_06a  w05C322\_07a  w05C322\_08a  w05C322\_09a  w05C322\_10a |
| Contribution for helper total expenses\_by myself |  | w02C329a | w03C329a | w04C329a | w05C329a |
| In recent hospitalization, nursing expenses by the person who takes care of mostly (unit : an hour)  1) | w01Cc26 |  |  |  |  |

1) In Wave 1, respondents were asked about hospitalization and the expenses only for the most recent hospitalization

|  |
| --- |
| **Economic activity status (w\_\_ecotype)** |

◆ Economic activity status (w\_\_ecotype)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

Economic activity status is classified into three categories, “Employed”, “Unemployed”, and “Economically inactive population”. The questions related to employment status and job searching activity were used for the classification, which is done as follows: The “Employed” are individuals who are currently employed for income, and this category includes wage workers, self-employed individuals, and unpaid family workers working for 18 hours or more per week. The “Unemployed (Job seeker)” are individuals who are not currently employed for income, but looked for a job in the past week or in the past four weeks and were able to work last week if there had been an appropriate job or work. Plus, unpaid family workers working for less than 18 hours per week are also classified as “Unemployed (Job seeker)”.

Individuals who are not currently employed for income and reported being retired, reported having never worked, or reported having done a little work but not having a clear job are classified as “economically inactive”.

※ Taken and adapted from 『2006, 2008 Guide on generated variables 1』

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_ecotype | 1. Employed  2. Unemployed  3. Economically inactive population |

[Economic activity status]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | w\_\_d001  Currently work or not | w\_\_d002  I help my family / relative’s business without pay for less than 18 hours a week. | w\_\_d005  Job-searching activity | w\_\_d401  (Job seeker/ unemployed person) Job searching activity\_in the last one week | w\_\_d402  (Job seeker/ unemployed person) Job searching activity\_in the last four weeks | w\_\_d403  (Job seeker/ unemployed person) Possibility to start working if given to an appropriate job |
| Employed | 1. Yes | 5.No |  |  |  |  |
| Unemployed | 5. No |  | 1. Yes | 1. Yes |  | 1. Yes |
| 5. No |  | 1. Yes | 1. Yes | 1. Yes | 1. Yes |
| 1. Yes | 1. Yes | 1. Yes | 1. Yes |  | 1. Yes |

\* In Wave 1, additional question on Possibility to start working if given a job now is used to determine “Unemployed” status.

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5 questions  D001. Are you currently employed for income? Being employed refers to working for an employer, being self‐employed, or working for your family or relative’s business.  ①Yes ⑤No →Go to D005  D002. I would like to ask about your current main job. Which of the following best describes your main job?  ①I am employed by another person or a company and receive wages. →Go to D007 or D008  ②I am self-employed. →Go to D007 or D008  ③I help my family / relative’s business without pay for 18 hours or more per week. →Go to D007 or D008  ④I help my family / relative’s business without pay for less than 18 hours a week.  D005. Are you looking for a job?  ①Yes ⑤No  D006. Which of the following best describes your current employment status with regard to working in the labor market?  [IWER: Retirement refers to having stopped income-earning activities and currently not working or engaging only in second job. Also, she/he doesn’t have intention to do anything more serious than second job as long as there is no special change in circumstances.]  ①I have never worked as being employed for income  ③I have done a little work this and that but I have never had a clear job  ⑤Currently retired (no intend to work in the future unless circumstances change)  ⑦Intend to work if wages and working conditions meet my expectations under adequate circumstances  ⑨Intend to work if wages and working conditions meet my expectations  ⑪Intend to work if a proper job is provided now even if wages and working conditions are slightly below my expectations  Logic  •If R has answered D006, go to D401. (If R reported currently not working in job history survey, go to D401)  D401. Did you look for a job or other work to earn money in the past week?  ①Yes →Go to D403 ⑤No  D402. Did you look for a job or other work to earn money in the past four weeks?  ①Yes ⑤No →Go to D404  D403. Would you have been able to work last week if there had been an appropriate job or work?  ①Yes →Go to D410 ⑤No →Go to D405 |

◆ Raw variables used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Economic activity status** | **Wave 1 \*** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| Currently work  Main job  Job-searching activity  The current employment status in the job market  (Job seeker/ unemployed person) Job searching activity\_in the last one week  (Job seeker/ unemployed person) Job searching activity\_in the last four weeks  (Job seeker/ unemployed person) Possibility to start working if given to an appropriate job  (Wave 1 only) Possibility to start working if given a job now | w01d001  w01d002  w01d005  w01d010  w01d501  w01d502  w01d503  w01d006 | w02d001  w02d002  w02d005  w02d006  w02d401  w02d402  w02d403 | w03d001  w03d002  w03d005  w03d006  w03d401  w03d402  w03d403 | w04d001  w04d002  w04d005  w04d006  w04d401  w04d402  w04d403 | w05d001  w05d002  w05d005  w05d006  w05d401  w05d402  w05d403 |

\* Variable names in Wave 1 differ from the other waves.

|  |
| --- |
| **Retirement (retired)** |

◆ Whether or not retired (w\_\_retired)

◆ Data containing these variables: Light Version Data

Respondents are asked about her/his current employment status in the labor market each year. Below examples show questions from Wave 5. Of those who reported being “⑤ currently retired”, those who reported that they looked for a job (in the past week or in the past four weeks), did a second job for pay, or want to work for pay are classified as “Partial retirement”. All the other cases are classified into the “Retirement” category. Plus, those who currently do not work and reported their employment status as ⑦, ⑨, or ⑪ are classified as “Partial retirement”. Those who reported their employment status as ① or ③ are classified as “Non-participant of labor market”. Note that questions from Wave 2 to Wave 4 are the same while in Wave 5, more detailed options were added to the question.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_retired | 0. Non-participant of labor market  1. Retirement  2. Partial Retirement |

◆ Examples of the KLoSA questions

|  |
| --- |
| Wave 5 questions  D005. Are you looking for a job?  ①Yes ⑤No  D006. Which of the following best describes your current employment status with regard to working in the labor market?  [IWER: Retirement refers to having stopped income-earning activities and currently not working or engaging only in second job. Also, she/he doesn’t have intention to do anything more serious than second job as long as there is no special change in circumstances.]  ①I have never worked as being employed for income  ③I have done a little work this and that but I have never had a clear job  ⑤Currently retired (no intend to work in the future unless circumstances change)  ⑦Intend to work if wages and working conditions meet my expectations under adequate circumstances  ⑨Intend to work if wages and working conditions meet my expectations  ⑪Intend to work if a proper job is provided now even if wages and working conditions are slightly below my expectations  Logic  • If R has answered D006, go to D401. (If R reported currently not working in job history survey, go to D401)  D401. Did you look for a job or other work to earn money in the past week?  ①Yes →Go to D403 ⑤No  D402. Did you look for a job or other work to earn money in the past four weeks?  ①Yes ⑤No →Go to D404  D403. Would you have been able to work last week if there had been an appropriate job or work?  ①Yes →Go to D410 ⑤No →Go to D405  D601. Are you currently engaged in a paid second job?  ①Yes ⑤No →Go to D607  D607. Do you want to work for pay regardless of retirement status?  ①Yes ⑤No →Go to D612  \*\*\* Cross-wave differences (Current employment status in the labor market)  Wave 2-4 Question.  D006. Which of the following best describes your current employment status with regard to working in the labor market?  ① Never had a job before (I have done a little work this and that but I have never had a clear job)  ③ Currently retired (no intend to work in the future unless circumstances change)  ⑤ Intend to work if wage and working conditions meet my expectations under adequate circumstances  ⑦ Intend to work if wage and working conditions meet my expectations  ⑨ Intend to work if a proper job is provided now even if wage and working conditions are slightly below my expectations  Wave 1 Question.  D010. Which of the following best describes your current employment status with regard to working in the labor market?  ① Worked before but current retired →Go to D601  ③ Worked before and intend to work, but not looking for a job right now →Go to D701  ⑤ Never had a job before (I have done a little work this and that but I have never had a clear job) →Go to D011 |

◆ Raw variables used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Whether retired** | **Wave 1** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| The current employment status in the job market  Job-searching activity  (Job seeker/ unemployed person) Job searching activity\_in the last one week  (Job seeker/ unemployed person) Job searching activity\_in the last four weeks  Whether or not doing a second job for pay  Work for pay regardless of retirement\_intention to work | w01d010  w01d005 w01d501  w01d502  w01d609  w01d616 | w02d006  w02d005 w02d401  w02d402  w02d601  w02d607 | w03d006  w03d005 w03d401  w03d402  w03d601  w03d607 | w04d006  w04d005 w04d401  w04d402  w04d601  w04d607 | w05d006  w05d005 w05d401  w05d402  w05d601  w05d607 |

|  |
| --- |
| **Occupation code (job)** |

◆ Occupational classification of the current job (w\_\_job), Occupational classification of in the previous interview (w\_\_beforejob\_job), Changed occupational classification since previous interview (w\_\_job\_01 ~)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

Occupation codes used in the KLoSA is Korean Standard Classification of Occupations (hereafter, KSCO). Occupation codes of Wave 1 correspond to the 5th KSCO and the occupation codes from Wave 2 to Wave 5 correspond to the 6th KSCO (2007 KSCO). Discrepancies of the categorical classification between the two versions of KSCO are corrected according to the 6th version.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_job  w\_\_beforejob\_job  w\_\_job\_01  w\_\_job\_02 | Occupational classification of the current job  Occupational classification of in the previous interview  Changed occupational classification since previous interview\_1st  Changed occupational classification since previous interview\_2nd |

[Categorical classification of occupations]

|  |  |
| --- | --- |
| **5th version** | **6th version** |
| 0. Legislators, senior officials and managers | 1. Managers |
| 1. Professionals | 2 (Associate) Professionals |
| 2. Technicians and associate professionals |
| 3 Clerical support workers  4 Service workers  5 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 | 3 Clerical support workers  4 Service workers  5 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 |

|  |
| --- |
| **Current job characteristics (including Employment status (status))** |

◆ In current job\_an official position or job title (w\_\_position), In current job\_the number of employees (w\_\_size\_c, w\_\_size\_n), In current job\_employment status (w\_\_status), In current job\_working hour type (w\_\_full\_parttime), In current job\_industrial classification (w\_\_ind), In current job\_occupational classification (w\_\_job), In current job\_the beginning time of the job (year/month) (w\_\_job\_starty, w\_\_job\_startm)

◆ Data containing these variables: Structurally Converted Data / Light Version Data

If a respondent is employed in the same job as in the previous interview, the respondent is asked only whether there are changes in job characteristics since the previous interview. Therefore, major characteristics of the current job (including occupation, industry, employment status, job title, full- or part-time, and firm size) may have missing values in the following waves. In order to obtain job characteristics for the current job, major characteristics of the job should be retrieved from the prior wave when the changes were first reported. In sum, the generated variables of this topic are created by combining main job characteristics of the current job with its history of changes that are scattered across survey waves.

Job movers are defined as individuals who quitted the job reported in the previous interview and started a new job. Current job is defined as the job that the individual has at the time of the interview. Job movers are asked about job characteristics of the new job, and the responses are used for generating variables of current job characteristics.

[ Generation process of current job characteristic variables ]

|  |
| --- |
| If Current job = Previously reported job (Job retainers)  1) If the respondent was not interviewed in the previous wave, check in which wave the respondent was interviewed most recently.  2) If the respondent reported no changes in his/her job in the most recent interview, check in which wave the job was first reported, and retrieve its main characteristics.  3) By combining the characteristics with the changes that took place between the previous and current waves, generate the final job characteristic variables of the current job.  If Current job = New job (Job movers)  For job movers, job characteristics of the new job are used for the variable generation. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [ Job retainers ]   |  | | --- | | Retained job | | + Changes in characteristics | | ⇓ | | **Generated variable** | | [ Job movers ]   |  |  |  |  | | --- | --- | --- | --- | | Previous job 1 | Previous job 2 |  | Previous job n | | + Changes in characteristics | + Changes in characteristics | + Changes in characteristics | | ⇓ | ⇓e | ⇓ | | **Generated variable** | **Generated variable** | **Generated variable** | |

| **Variable name** | **Variable description** |
| --- | --- |
| w\_\_position | 1. Staff member  2. Assistant foreman  3. Foreman  4. Assistant manager  5. Manager  6. Deputy general manager  7. General manager  8. Board member |
| w\_\_size\_n | \_\_\_\_\_\_\_\_\_\_\_\_ (Unit: a person) |
| w\_\_status | 1. Regular worker  3. Temporary worker  5. Daily worker  7. Self-employed  9. Unpaid family worker |
| w\_\_full\_parttime | 1. Part-time basis  5. Full-time basis |
| w\_\_ind | 1. Agriculture/forestry  2. Fishing  3. Mining and quarrying  4. Manufacturing  5. Electricity, gas, and water supply  6. Construction  7. Wholesale and retail trade  8. Hotels and restaurants  9. Transport  10. Post and telecommunications  11. Financial and insurance activities  12. Real estate and renting and leasing  13. Other services  14. Public administration, defense, and compulsory social security  15. Education  16. Health and social work  17. Recreation, culture, and sports related services  18. Other community, repair, and personal services  19. Housekeeping services  20. International organizations |
| w\_\_job | 1. Managers  2. (Associate) Professionals  3. Clerical support workers  4. Service workers  5. 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  10. Career soldier |
| w\_\_job\_starty / w\_\_job\_startm | \_\_\_\_\_\_\_\_\_\_\_\_(Year) / \_\_\_\_\_\_\_\_ (Month) |

◆ Raw variables used for generating In current job\_employment status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Employment status** | **Wave 1 \*** | **Wave 2** | **Wave 3** | **Wave 4** | **Wave 5** |
| <Job retainers>  Since previous interview, any changes for R's employment status (Wage/Non-wage)\_1st  Since previous interview, any changes for R's employment status (Wage/Non-wage)\_2nd  Since previous interview, any changes for R's employment status (Wage/Non-wage)\_3rd |  | w02D027\_01  /w02D034\_01  w02D027\_02  /w02D034\_02  w02D027\_03  /w02D034\_03 | w03D027\_01  /w03D034\_01  w03D027\_02  /w03D034\_02  w03D027\_03  /w03D034\_03 | w04D027\_01  /w04D034\_01  w04D027\_02  /w04D034\_02  w04D027\_03  /w04D034\_03 | w05D027\_01  /w05D034\_01  w05D027\_02  /w05D034\_02  w05D027\_03  /w05D034\_03 |
| <Job movers>  Since previous interview, 1st new job (Wage/Non-wage) \_employment status  (Wage/Non-wage worker) Since previous interview, 1st new job\_changed employment status \_1st |  | w02D059\_01  /w02D071\_01  w02D066\_01\_01  /w02D079\_01\_01 | w03D059\_01  /w03D071\_01  w03D066\_01\_01  /w03D079\_01\_01 | w04D059\_01  /w04D071\_01  w04D066\_01\_01  /w04D079\_01\_01 | w05D059\_01  /w05D071\_01  w05D066\_01\_01  /w05D079\_01\_01 |
| Wave 1, In current job\_employment status (generated variable) |  | w01status | w01status | w01status | w01status |
| Wave 2, In current job\_employment status (generated variable)\* |  |  | w02status | w02status | w02status |
| Wave 3, In current job\_employment status (generated variable)\* |  |  |  | w03status | w03status |
| Wave 4, In current job\_employment status (generated variable)\* |  |  |  |  | w04status |

\* Other generated variables of the current job (job title, full- or part-time, etc.) are created in the same way. Raw variables used for the generation are not listed here.

※ Caveats:

1) Wage workers and non-wage workers have their own respective variables of employment status. Here they are combined into a single variable. If any changes were made to employment status of the “retained job” since the previous interview, the changes are reflected in the generated variable. (In Section D (Employment), many of the generated variables are combined variables of wage workers’ variables and non-wage workers’ variables.

2) In Structurally Converted Data, both the current job and the job reported in the previous interview can be found in each wave. For job retainers, job characteristic variables may take the same values for the current job and the last reported job. However, job characteristics may vary by wave even for a job retainer, if characteristics of the same job changed.

3) Employment status in each wave are generated by the same process described above (w02status~w04status)

\* Job retainers: Retrieving relevant data from the prior wave when the job was first reported, and then reflecting the changes in job characteristics.

\* Job movers: Retrieving relevant data from the new job which the respondent is currently working for.

4) Other characteristic variables (Occupation, Job title, and others) are generated by a similar process.

|  |
| --- |
| **Job name (jobwave, beforejob\_wave)** |

◆ In current job\_job name (w\_\_jobWave), In the previous interview, job name (w\_\_beforejob\_Wave)

◆ Data containing these variables: Structurally Converted Data

Variables in the Employment Section of Structurally Converted Data are classified by job types. Job types are determined by using job history data and the respondent’s current status in the labor market. Job history of respondents fall into three categories of “Last job”, “Between last job and current job”, and “Current job”. “Last job” is defined as the job that was reported in the respondent’s most recent interview. “Between last job and current job” is defined as job(s) that the respondent had between his/her “Last job” and the current job. Main job characteristics including employment status, occupation, industry and the like are constructed for all job types. For each job characteristic, history of changes can be retrieved from the variable ch\_. Please note that for data efficiency, only the number of changes and the content of the changes are included in Structurally Converted Data. The time of the changes and other related information can only be found in raw data files.

In Structurally Converted Data, job name variables are generated (w\_\_jobWave, w\_\_beforejob\_Wave) so that users could retrieve detailed information of the job by using raw data files.

The table below shows how to interpret job name variables. For example, if w05jobWave (current job name variable) is set to “w02bj01”, job characteristics of the current job can be retrieved from the charactersitics of the first new experienced job in Wave 2.

| **Variable name** | **Variable description** |
| --- | --- |
| w\_\_beforejob\_Wave  w\_\_jobWave | In the previous interview, job name  In current job\_job name  <Values>  w01jobs current job in the 1st survey  w02bj01 1st new experienced job in the 2nd survey  w02bj02 2nd new experienced job in the 2nd survey  w02bj03 3rd new experienced job in the 2nd survey  w02bj04 4th new experienced job in the 2nd survey  w03bj01 1st new experienced job in the 3rd survey  w03bj02 2nd new experienced job in the 3rd survey  w04bj01 1st new experienced job in the 4th survey  w04bj02 2nd new experienced job in the 4th survey  w05bj01 1st new experienced job in the 5th survey  w05bj02 2nd new experienced job in the 5th survey |

1. Generated Variables in Section C. Health and Section Ea/F. Income/ Assets and Debts

<Taken and adapted from

“2008 Guide on Generated Variables 1, 2” >

**Classification of Metropolitan, City, and Town**

A new regional variable is constructed by combining two regional variables, w\_\_region1 and w\_\_region2. W\_\_region1 falls in one of the following 15 provinces: “Seoul”, 7 metropolitan cities (“Busan”, “Deagu”, “Incheon”, “GwangJu”, “Deajeon”, “Ulsan”, and “Sejong”), and 8 provinces (“Gyeonggi”, “Gangwon”, “Chungbuk”, “Chungnam”, “Jeonbuk”, “Jeonam”, “Gyeongbuk”, and “Gyeongnam”). w\_\_region2 has two categoris, “vilage” or “town”. By combining these two variables, w\_\_region3 is generated which have three categories: “Metropolitan”, “City”, and “Town”. If w\_\_region1 is “Seoul” or other metropolitan cities and w\_\_region2 is “Village”, w\_\_region3 is set to “Metropolitan”. If w\_\_region1 is one of the 8 provinces and w\_\_region2 is “Village”, w\_\_region3 is set to “City”. If w\_\_region2 is “Town”, w\_\_region3 is set to “Town”.

/\* Classification of Metropolitan, City, and Town \*/

if w02region2=1 and w02region1<= 26 then w02region3=1; \*Metropolitan;

else if w02region2=1 and w02region1>=31 then w02region3=2; \*City;

else if w02region2=2 then w02region3=3; \*Town;

**Kaup Index(BMI) and obesity classification by BMI**

Kaup Index(BMI) refers to the body mass index(BMI), and is constructed by using respondents’ height and weight. The degree of obesity can be evaluated by the BMI. BMI is calculated by dividing weight in kilograms by height in meters squared.

“Severe obesity” is defined as Kaup Index over 30, “Obesity” as 25-29.9, “Overweight” as 23-24.9, “Normal” as 18.6-22.9, “Underweight” as below 18.5. The weight is taken from w02C105(weight) and the height from w02C107(height) of Section C1. Health. Note that height units are in centimeters, so it needs to be converted into meters when deriving Kaup Index.

/\* Kaup Index(BMI) and obesity classification by BMI \*/

if C105<30 then C105=.;

if C107<70 then C107=.;

nw02C107=C107/100;

w02bmi=C105/(nw02C107\*nw02C107);

if w02bmi>=30 then w02body=1; \*Severe obesity\*;

else if 25<=w02bmi<30 then w02body=2; \* Obesity \*;

else if 23<=w02bmi<25 then w02body=3; \* Overweight \*;

else if 18.6<=w02bmi<23 then w02body=4; \* Normal \*;

else if 0<=w02bmi<18.6 then w02body=5; \* Underweight \*;

else if w02bmi=. then w02body=.;

**The ADL/IADL indices**

To provide objective measures for respondents’ health status, indices of ADL and IADL are constructed. The ADL (Activities of Daily Living) is a scale that measures functional independency (whether the respondent needs help from another person) in six basic activities: dressing, washing face and hair and brushing teeth, bathing and showering, eating prepared food, getting in/out of bed and walking across a room, using the toilet, and continence.

The IADL(Instrumental Activities of Daily Living) is a scale evaluating the autonomy to perform the instrumental activities of daily living (i.e., grooming, household chores, preparing meals, doing laundry, going out to nearby places, using transportation, shopping at a shop, managing money, making and taking a call, and taking medications.

Variables from w\_\_C201 to w\_\_C217 of Section C2(Functional limitations and helpers) are used for constructing the indices. If the respondent needs to be helped partially or fully in order to complete each task, each variable is set to “1”, otherwise the variable is set to “0”. Then the ADL index is generated by the total number of ADL tasks that the respondent needs help with, and similarly, IADL index is generated by the total number of IADL tasks that the respondent needs help with. Thus, the ADL index takes on values ranging from 0 to 7, and the IADL index takes on values ranging from 0 to 10.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_adl | The ADL index |
| w\_\_iadl | The IADL index |

The ADL/IADL indices

cloth=(3<=C201<=5)+C201\*0; \* dressing;

wash=(3<=C202<=5)+C202\*0; \* washing face and hair and brushing teeth;

bath=(3<=C203<=5)+C203\*0; \* bathing and showering;

eat=(3<=C204<=5)+C204\*0; \* eating prepared food;

getup=(3<=C205<=5)+C205\*0; \* getting in/out of bed and walking across a room;

toilet=(3<=C206<=5)+C206\*0; \* using the toilet;

urin=(3<=C207<=5)+C207\*0; \* continence;

\*Generating the ADL index;

w\_\_adl=sum(cloth, wash, bath, eat, getup, toilet, urin) ;

gloom=(3<=C208<=5)+C208\*0; \* grooming;

clean=(3<=C209<=5)+C209\*0; \* household chores;

meal=(3<=C210<=5)+C210\*0; \* preparing meals;

laun=(3<=C211<=5)+C211\*0; \* doing laundry;

out=(3<=C212<=5)+C212\*0; \* going out to nearby places;

bus=(3<=C213<=5)+C213\*0; \* using transportation;

shop=(3<=C214<=5)+C214\*0; \* shopping at a shop;

money=(3<=C215<=5)+C215\*0; \* managing money;

phone=(3<=C216<=5)+C216\*0; \* making and taking a call;

drug=(3<=C217<=5)+C217\*0; \* taking medications;

\* Generating the IADL index;

w\_\_iadl=sum(gloom, clean, meal, laun, out, bus, shop, money, phone, drug);

**Grip strength**

The grip strength is obtained from Section C5 (Grip strength). Grip strength was measured twice for each hand using a grip strength meter and the results are recorded in variables from w\_\_c507 to w\_\_510. The generated variable, w\_\_mgrip, is an average value of all the measurements of grip strength.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_mgrip | Grip strength |

/\* Grip strength \*/

if c507 in (-8 -9) then c507=.;

if c508 in (-8 -9) then c508=.;

w\_\_mgrip=mean(of C507-C510);

**The first time of receiving pension**

In the case of the first time of major pensions such as the national pension and basic pension, each new recipient is asked about the first time of receiving pension, and therefore, there was an inconvenience of confirming the coagulation for each wave in the time of receipt of the existing recipients.

Therefore, in Wave 7, separate variables (w\_\_pension name\_start, startm) were created to ensure that the first time or receiving each type of pension could be identified in Wave 7 data at a time, and if the first time of receiving the same pension was partly duplicated with the response in previous Wave, the more initial response was considered true.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w07national\_start  w07national\_starty  w07national\_startm | Initial time of receipt of the National Pension (unit: yyyy+mm)  Initial time of receipt of the National Pension (unit: yyyy)  Initial time of receipt of the National Pension (unit: mm) |
| w07particular\_start  w07particular\_starty  w07particular\_startm | Initial period of supply and demand for special job pensions (unit: yyyy+mm)  Initial period of supply and demand for special job pensions (unit: yyyy)  Initial period of supply and demand for special job pensions (unit: mm) |
| w07personal\_start  w07personal\_starty  w07personal\_startm | Initial time of receipt of personal pension (unit: yyyy+mm)  Initial time of receipt of personal pension (unit: yyyy)  Initial time of receipt of personal pension (unit: mm |
| w07guarantee\_start  w07guarantee\_starty  w07guarantee\_startm | Initial period of receipt of National Basic Living Security Benefits (unit: yyyy+mm)  Initial period of receipt of National Basic Living Security Benefits (unit: yyyy)  Initial period of receipt of National Basic Living Security Benefits (unit: mm) |
| w07exploit\_start  w07exploit\_starty  w07exploit\_startm | Initial period of receipt of veteran pension benefits (unit: yyyy+mm)  Initial period of receipt of veteran pension benefits (unit: yyyy)  Initial period of receipt of veteran pension benefits (unit: mm) |
| w07basic\_start  w07basic\_starty  w07basic\_startm | Initial time of receipt of basic pension benefits (unit: yyyy+mm)  Initial time of receipt of basic pension benefits (unit: yyyy)  Initial time of receipt of basic pension benefits (unit: mm) |
| w07disabled\_start  w07disabled\_starty  w07disabled\_startm | First time to receive pension benefits for the disabled (unit: yyyy+mm)  First time to receive pension benefits for the disabled (unit: yyyy)  First time to receive pension benefits for the disabled (unit: mm) |

**The total amount of personal income**

The total amount of personal income is the sum of The total amount of earned income(w\_\_earned), The total amount of assets income(w\_\_assetinc), The total amount of public transfer income(w\_\_publictrans), The total amount of financial support (w\_\_transferfrom), and The total amount of private pension benefit(w\_\_personal), and Other incomes(w\_\_other). The calculation method for each item is described in detail below.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_pinc | The total amount of personal income |

|  |
| --- |
| /\* The total amount of personal income \*/  w\_\_pinc=sum(w\_\_earned, w\_\_assetinc, w\_\_publictrans, w\_\_transferfrom, w\_\_personal, w\_\_other); |

**The total amount of earned income (Wage or salary income/Self-employment or own business income/Agricultural and fisheries business income/Income from second job)**

Earned income is defined as wage income from work. Regarding the earned income of the previous year, the respondents were asked about the wage or salary income, self-employment or own business income, agricultural and fisheries business income and the income from second job. Wage or salary income is earned from working for an employer or a company. Self-employment or own business income is income earned from the respondent’s own business, but does not include income from agricultural and fisheries business. Agricultural and fisheries business income is income from agricultural and fisheries business, and income from second job is earned income from the respondent’s second job. Note that each type of income is a net amount, excluding taxes and expenses.

Wage or salary income is calculated by multiplying The number of months of earning wages or salaries income (E002) by The monthly average amount of wages or salaries income (excluding expenses and taxes) (E003). Self-employment or own business income is calculated in the same way, by multiplying The number of months of earning self-employment or own business income (E011) by The monthly average amount of self-employment or own business income (excluding expenses and taxes) (E012). Agricultural and fisheries business income and Income from second job takes the value from E020 and E027, respectively.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_earned | The total amount of earned income (=Wage or salary income + Self-employment or own business income + Agricultural and fisheries business income + Income from second job) |
| w\_\_wage | Wage or salary income |
| w\_\_selfemployed | Self-employment or own business income |
| w\_\_agriculture | Agricultural and fisheries business income |
| w\_\_sideline | Income from second job |

**Wages or salaries income**

|  |
| --- |
| /\* Wage or salary income \*/  w&a0.E002=sum(of w&a0.E002m01-w&a0.E002m12); /\*Counting the number of months with earned income\*/  w&a0.E011=sum(of w&a0.E011m01-w&a0.E011m12); /\* Counting the number of months with earned income \*/  if w&a0.E003 not in (-**8** -**9**) then w&a0.wage=w&a0.E002\*w&a0.E003; \* Wage or salary income;  if w&a0.E012 not in (-**8** -**9**) then w&a0.selfemployed=w&a0.E011\*w&a0.E012; \* Self-employment or own business income;  if w&a0.E020 not in (-**8** -**9**) then w&a0.agriculture=w&a0.E020; \* Agricultural and fisheries business income;  if w&a0.E027 not in (-**8** -**9**) then w&a0.sideline=w&a0.E027; \* Income from second job;  ※ In Wave 1--4, the months with earned income in the last calendar year is asked in a calendar-based design. Thus, the process of counting the number of months was included. In Wave 5, on the other hand, the total number of months was asked directly, so the process of counting the number of months was omitted from coding. |

**The total amount of assets income (Financial/Real estate income)**

The assets income is the sum of financial income and real estate income. The financial income comes from financial assets, including interests from savings accounts, dividends from stocks, interests from private loans or securities, and profits from stock sales. Real estate income is regular income coming from monthly payments or rents, aside from security deposits, for all real estate properties owned (i.e., houses, commercial property, studio apartments, woodlands, or lands) including the current home the respondent is residing in. Each income is a net amount excluding expenses and deductions, and does not include rents generated by self-owned businesses or farms. Financial income is calculated by multiplying The total amount of interest from the financial assets during the last year (F166) by 12. Real estate income takes the value from F072, only if positive real estate income was reported (F071). The total amount of assets income is the sum of financial income and real estate income.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_assetinc | The total amount of assets income (=Financial income+Real estate income) |
| w\_\_financial | Financial income |
| w\_\_realestateinc | Real estate income |

|  |
| --- |
| /\* The total amount of assets income \*/  if w&a0.F166 > **0** then w&a0.financial=**12**\*w&a0.F166; \* Financial income;  if w&a0.F071=**1** & w&a0.F072 >**0** then w&a0.realestateinc=w&a0.F072; \*Regular income of the last calendar year, generated from real estate properties including the current home of the respondent;  w&a0.assetinc=sum(w&a0.financial, w&a0.realestateinc); \* The total amount of assets income; |

**The total amount of public transfer income / The total amount of public pension benefit (National Pension Benefit/Specific Corporate Pension Benefit)**

The total amount of public transfer income can be derived from the sum of public pension benefit and social security income. The public pension benefit consists of National pension benefit and Specific corporate pension benefit. Examples of National pension benefit include old-age pension, disability pension, survivor pension, and lump-sum refund/death payments, and Specific corporate pension includes private school teachers pension, government employees pension, military personnel pension and specific post office pension.

Regarding National pension benefit(national), respondents are classified into three categories: respondents receiving monthly benefits, respondents having received benefits in a lump-sum, and respondents receiving both types of benefits. For those receiving monthly benefits, the amount is calculated by multiplying The number of months of receiving National Pension Benefit (E034) by The monthly average amount of National Pension Benefit (E035). For those having received a lump-sum benefit, the value is taken from The lump sum of National Pension Benefit (E036). For those receiving both types of benefits, the amount is calculated by the sum of both types of benefits. Specific Corporate Pension Benefit (particular) was generated in the same process.

The total amount of public transfer income (publictrans) is generated by the sum of The total amount of public pension benefit (annuity) and The total amount of social security income (socialsecurity).

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_publictrans | The total amount of public transfer income (=The total amount of public pension benefit + The total amount of social security income) |
| w\_\_annuity | The total amount of Public Pension Benefit (=National Pension Benefit + Specific Corporate Pension Benefit) |
| w\_\_national | National Pension Benefit |
| w\_\_particular | Specific Corporate Pension Benefit |

/\* The total amount of public transfer income \*/

\* National Pension Benefit;

w&a0.E034=sum(of w&a0.E034m01-w&a0.E034m12);\* Counting the number of months with National Pension benefit;

if w&a0.E033 in (1 2 3) then w&a0.national=sum(w&a0.E034\*w&a0.E035, w&a0.E036);

\* Specific Corporate Pension Benefit;

w&a0.E045=sum(of w&a0.E045m01-w&a0.E045m12); \* Counting the number of months with Specific Corporate Pension Benefit;

if w&a0.E044 in (1 2 3) then w&a0.particular=sum(w&a0.E045\*w&a0.E046, w&a0.E047);

w&a0.annuity=sum(w&a0.national, w&a0.particular); \* National Pension Benefit;

※ In Wave 5, the total number of months was asked directly, so the process of counting the number of months was omitted from coding.

**The total amount of social security income (Unemployment Compensation Benefit/Industrial Accident Compensation Insurance Benefit/National Basic Livelihood Security Benefit/Veterans Benefit/Other Welfare Benefit)**

Components of social security income are Unemployment Compensation Benefit, Industrial Accident Compensation Insurance Benefit, National Basic Livelihood Security Benefit, Veterans Benefit, and other Welfare Benefit. Unemployment compensation benefit includes job‐seeking benefit, extended-salary benefit, and early reemployment benefit. Industrial accident compensation insurance benefit includes wage-replacement benefit, disability benefit, and survivors’ benefit. Veterans benefit includes the benefit paid by Ministry of Patriots and Veterans Affairs such as veteran’s salary for patriots or their surviving families, nursing allowances, and pension for wounded policemen and soldiers.

Regarding National pension benefit(w\_\_unemployment), respondents are classified into three categories: respondents receiving monthly benefits, respondents having received benefits in a lump-sum, and respondents receiving both types of benefits. For those receiving monthly benefits, the amount is calculated by multiplying The number of months of receiving Unemployment Compensation Benefit (E072) by The monthly average amount of Unemployment Compensation Benefit (E073). For those having received a lump-sum benefit, the value is taken from The lump sum of Unemployment Compensation Benefit (E074). For those receiving both types of benefits, the amount is calculated by the sum of both types of benefits. Industrial Accident Compensation Insurance Benefit (industrial) and Veterans Benefit (exploit) were generated by the same process.

National Basic Livelihood Security Benefit can only be received on a monthly basis, so the amount is calculated by multiplying The number of months of receipt (E091) by The monthly average amount (E092). Other welfare benefit was calculated in the same way, by multiplying The number of months of receipt (E111) by The monthly average amount (E112). From Wave 5 onwards, respondents were asked about the receipt of Basic Old-Age Pension Benefit and Disabled Benefit, and the amount of the two benefits are calculated using the same method. In sum, The total amount of social security income(w\_\_socialsecurity) is generated by the sum of Unemployment Compensation Benefit(w\_\_unemployment), Industrial Accident Compensation Insurance Benefit(w\_\_industrial), National Basic Livelihood Security Benefit (w\_\_guarantee), Veterans Benefit(w\_\_exploit), Basic Old-Age Pension Benefit(senior\_pension), Disabled Benefit(disabled\_pension), and Other welfare benefits(w\_\_socialwelfare).

| **Variable name** | **Variable description** |
| --- | --- |
| w\_\_socialsecurity | The total amount of social security income (=Unemployment Compensation Benefit + Industrial Accident Compensation Insurance Benefit + National Basic Livelihood Security Benefit + Veterans Benefit + Basic Old-Age Pension Benefit, Disabled Benefit + Other welfare benefits)  \* Basic Old-Age Pension Benefit, Disabled Benefit are included beginning from Wave 5 |
| w\_\_unemployment | Unemployment Compensation Benefit |
| w\_\_industrial | Industrial Accident Compensation Insurance Benefit |
| w\_\_guarantee | National Basic Livelihood Security Benefit |
| w\_\_exploit | Veterans Benefit |
| w\_\_senior\_pension | Basic Old-Age Pension Benefit |
| w\_\_disabled\_pension | Disabled Benefit |
| w\_\_socialwelfare | Other welfare benefits |

/\* The total amount of social security income \*/

w&a0.E072=sum(of w&a0.E072m01-w&a0.E072m12); /\* Counting the number of months with benefit\*/

w&a0.E082=sum(of w&a0.E082m01-w&a0.E082m12); /\* Counting the number of months with benefit \*/

w&a0.E091=sum(of w&a0.E091m01-w&a0.E091m12); /\* Counting the number of months with benefit \*/

w&a0.E101=sum(of w&a0.E101m01-w&a0.E101m12); /\* Counting the number of months with benefit \*/

w&a0.E111=sum(of w&a0.E111m01-w&a0.E111m12); /\* Counting the number of months with benefit \*/

if w&a0.E070m01=1 then w&a0.unemployment=sum(w&a0.E072\*w&a0.E073, w&a0.E074); \* Unemployment Compensation Benefit;

if w&a0.E070m02=1 then w&a0.industrial=sum(w&a0.E082\*w&a0.E083, w&a0.E084); \* Industrial Accident Compensation Insurance Benefit;

if w&a0.E070m03=1 then w&a0.guarantee=w&a0.E091\*w&a0.E092; \* National Basic Livelihood Security Benefit;

if w&a0.E070m04=1 then w&a0.exploit=sum(w&a0.E101\*w&a0.E102, w&a0.E103); \* Veterans Benefit;

if w&a0.E070m05=1 then w&a0.socialwelfare=w&a0.E111\*w&a0.E112; \* Other welfare benefits;

/\*Added in Wave 5 \*/

if w&a0.E070m5=1 then w&a0.senior\_pension=w&a0.E112\*w&a0.E113; \* Basic Old-Age Pension Benefit;

if w&a0.E070m6=1 then w&a0.disabled\_pension=w&a0.E122\*w&a0.E123; \* Disabled Benefit;

※ In Wave 5, the total number of months was asked directly, so the process of counting the number of months was omitted from coding.

w&a0.socialsecurity=sum(w&a0.unemployment, w&a0.industrial, w&a0.guarantee, w&a0.exploit, w&a0.socialwelfare, w&a0.senior\_pension, w&a0.disabled\_pension); \* The total amount of social security income;

/\* The total amount of public transfer income \*/

w&a0.publictrans=sum(w&a0.annuity, w&a0.socialsecurity); \* The total amount of public transfer income;

**Private Pension Benefit**

Respondents are asked about the receipt of Private Pension Benefit in the last calendar year, aside from public pensions such as national pension and specific corporate pension. Regarding Private Pension Benefit (personal), respondents are classified into three categories: respondents receiving monthly benefits, respondents having received benefits in a lump-sum, and respondents receiving both types of benefits. For those receiving monthly benefits, the amount is calculated by multiplying The number of months of receiving Private Pension Benefit (E056) by The monthly average amount of Private Pension Benefit (E057). For those having received a lump-sum benefit, the value is taken from The lump sum of Private Pension Benefit (E058). For those receiving both types of benefits, the amount is calculated by the sum of both types of benefits.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_personal | Private Pension Benefit |

/\* Private Pension Benefit \*/

w&a0.E056=sum(of w&a0.E056m01-w&a0.E056m12); /\* Counting the number of months receiving benefit \*/

if w&a0.E055 in (1 2 3) then w&a0.personal=sum(w&a0.E056\*w&a0.E057, w&a0.E058);

※ In Wave 5, the total number of months was asked directly, so the process of counting the number of months was omitted from coding

**Other incomes**

Other incomes(E120) include income from alimony, copyright and patent fee. It does not include income from property such as house rent and the like, and also does not include financial income from bank accounts, securities, bonds, etc.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_other | Other incomes |

/\* Other incomes \*/

if w&a0.E119=1 then w&a0.other=w&a0.E120; \* Other incomes;

\* &a0 is an index for the Wave number. The Wave number will be automatically assigned to this index when running the macro (Raw variables of Wave 5: E140~E141)

**The total amount of household income**

The respondents are asked about the total amount of income from all household members living together, including the respondent her/himeself (E126). This question is answered by all participating members of the household and can have different values by household members. The total amount of household income(hhinc) is defined by the amount of income reported by The person who know the most about household income (Ea\_resp). In generating the variable, the household income reported by this representative member (w\_\_E126) is assigned to all the other members so that The total amount of household income(hhinc) is takes the same value across all household members.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_hhinc | The total amount of household income |

/\* The total amount of household income \*/

if w&a0.Ea\_resp=1 then w&a0.hhinc=w&a0.E126; /\* The total amount of household income \*/

\* &a0 is an index for the Wave number. The Wave number will be automatically assigned to this index when running the macro.

**The total amount of personal assets**

The total amount of personal assets is the sum of real estate assets (w\_\_realestate), financial assets (w\_\_financialasset), the amount of investment on farm or other business(w\_\_businessfarm), and other assets(w\_\_otherasset). How each item is calculated is described in detail below.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_passets | The total amount of personal assets |

/\* The total amount of personal assets\*/

w&a0.passets=sum(of w&a0.realestate w&a0.financialasset w&a0.businessfarm w&a0.otherasset);

\* &a0 is an index for the Wave number. The Wave number will be automatically assigned to this index when running the macro.

**The total amount of real estate assets**

The components of The total amount of real estate assets(w\_\_realestate) are the asset value of current residence, the asset value of other real estate properties, and real estate rentals. Other real estate properties (F058) include other home/second home excluding the home the respondent is currently living in, buildings, commercial property, studio apartments, land, pre-sale rights for apartments or studio apartments, or condominium membership. Real estate rentals is defined as security deposits paid by the respondent to rent real estate properties such as home, building, land, etc. (F079)

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_realestate | The total amount of real estate assets |

/\* The total amount of real estate assets \*/

w&a0.realestate=sum(of w&a0.residence, w&a0.F058, w&a0.F079);

\* &a0 is an index for the Wave number. The Wave number will be automatically assigned to this index when running the macro.

**Residence type**

Using the question on The type of currently residing home (F001), the respondent’s residence type is classified into (1) Own home, (2) Deposit-based rental home without monthly rent (i.e., JEON-SE), (3) Monthly rental home with a deposit (i.e., JEON-WOL-SE), (4) Monthly rental home without a deposit (i.e., WOL-SE), and (5) Others.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_F001type | Residence type  1 Own home (home owned by R or R’s relative)  2 Deposit-based rental home without monthly rent (i.e., JEON-SE)  3 Monthly rental home with a deposit (i.e., JEON-WOL-SE)  4 Monthly rental home without a deposit (i.e., WOL-SE)  5 Others |

/\* Residence type \*/

if w&a0.Ea\_resp=1 then w&a0.F001type=w&a0.f001;/\* The type of currently residing home \*/

\* &a0 is an index for the Wave number. The Wave number will be automatically assigned to this index when running the macro.

**The asset value of current residence**

The asset value of current residence can be derived from The current value of the residing home(F005) if the respondent owns the home, The amount of security deposit for JEON­SE(F031) or WOL-SE(F037) if the respondent rents the home on deposit basis without monthly rent (i.e., JEON-SE) or on monthly basis (WOL-SE).

The asset value of current residence(residence) is generated by using the Residence type(F001type). Different calculation method is applied for each of the following residence types: Owned (=1), Rent on deposit basis (JEON-SE) (=2), Rent on monthly basis (WOL-SE) (=3). For owned residence, the variable is generated based on Whether or not the residing home under R's name (F004), Whether or not residing home under multiple persons’ names (F005), R's share of the residing home (F006), and The current value of the residing home (F007). First, the number of interview participants in the household was identified for homeowners (i.e., F004=1). Next, the asset value was derived by multiplying The current value of the residing home (F007) by R’s share of the residing home (F006). If the residence type is “Rent on deposit basis (JEON-SE)”, the asset value is derived by dividing The amount of security deposit (F033) by The number of names listed on the JEON-SE contract (F034). If the residence type is “Rent on monthly basis (WOL-SE), the asset value is derived similarly as JEON-SE case, by dividing The amount of security deposit (F043) by the number of names listed on the WOL-SE contract (F042). Thus, The asset value of current residence (w\_\_residence) was derived differently for each residence type. Whether or not R has the share in current residence(w\_\_residence\_) is set to “1” if current residence is “Owned” and the respondent has a positive share, and otherwise, “0”.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_residence | The asset value of current residence:  If (1) Owned, The current value of the residing home,  If (2) Deposit-based rental home without monthly rent (i.e.,JEON-SE), the amount security deposit  If (3) Monthly-based rental home (i.e., WOL-SE), the amount of security deposit |
| w\_\_residence\_ | Whether or not R has the share in current residence (If R’s residence type is (1) Owned) |

/\* The asset value of current residence \*\*/

%macro as(a0);

if w&a0.F001=1 & w&a0.f004 =1 then do; /\* The asset value of current residence is calculated here if Residence type is “Owned” under the respondent’s name \*/

if w&a0.F005 =0 then f007\_=w&a0.F007;/\* If the current residence is not jointly owned \*/

if w&a0.f005>=2 then f007\_=w&a0.F007\*w&a0.F006\*0.01;/\* If jointly owned, the asset value is derived from the respondent’s share of housing ownership \*/

end;

if w&a0.F001=2 & w&a0.f033 =1 then do; /\* The asset value of current residence is calculated here if Residence type is ”Rent on deposit basis (JEON-SE)” under the respondent’s name \*/

if w&a0.F034 =0 then f007\_=w&a0.F035;/\*If not jointly owned \*/

if w&a0.F034 >=2 then f007\_=w&a0.F035/w&a0.F034;/\* If jointly owned, the asset value is calculated by dividing the amount of security deposit by the number of names listed on the JEON-SE contract \*/

end;

if w&a0.F001=3 & w&a0.F041=1 then do; /\* The asset value of current residence is calculated here if Residence type is ”Rent on monthly basis (WOL-SE) with a security deposit” under the respondent’s name \*/

if w&a0.F042 =0 then f007\_=w&a0.F043;/\* If not jointly owned \*/

if w&a0.F042 >=2 then f007\_=w&a0.F043/w&a0.F042;/\* If jointly owned, the asset value is calculated by dividing the amount of security deposit by the number of names listed on the WOL-SE contract \*/

end;

w&a0.residence =f007\_;/\*The asset value of current residence\*/

if w&a0.f001=1 then do;/\*\* Whether or not R has the share in current residence is set to “1” if the residence is owned and has a positive asset value \*/

if f007\_^=. then w&a0.residence\_=1; else w&a0.residence\_=0;

end;

%mend;

%as(02);%as(03);%as(04);%as(05);

※ In Wave 1, respondents are not asked about her/his share of housing ownership and the number of names listed on the JEON-SE/WOL-SE contracts. Thus, the asset value of current residence is derived using a different method.

%macro as1(a0);

if w&a0.F001=1 & w&a0.f004 =1 then do; /\* The asset value of current residence is calculated here if Residence type is “Owned” under the respondent’s name \*/

if w&a0.F005 =0 then f007\_=w&a0.F007;/\* If not jointly owned \*/

if w&a0.f005>=2 then f007\_=w&a0.F007/w&a0.f005;/\* If jointly owned, the asset value is calculated by dividing the total asset value by the number of owners (Different method is used only for Wave 1)\*/

end;

if w&a0.F001=2 /\*& w&a0.f033 =1\*/ then f007\_=w&a0.F035;/\* if Residence type is ”Rent on deposit basis (JEON-SE)”, but not under the respondent’s name (Wave 1) \*/

if w&a0.F001=3 /\*& w&a0.F041=1\*/ then f007\_=w&a0.F043; /\* if Residence type is ”Rent on monthly basis (WOL-SE)” with a security deposit, but not under the respondent’s name (Wave 1)\*/

w&a0.residence =f007\_;/\* The asset value of current residence \*/

if w&a0.f001=1 then do;/\*\* Whether or not R has the share in current residence is set to “1” if the residence is owned and R has a positive share \*/

if f007\_^=. then w&a0.residence\_=1; else w&a0.residence\_=0;

end;

%mend;

%as1(01);

**The total amount of financial assets**

The total amount of financial assets (financialasset) is the sum of The amount of cash in checking or savings accounts (F095), The amount of money in fixed or time deposit accounts (F102), The amount of stocks or investment funds (F109), The amount of bonds (F116), The total amount of insurance assets(insurance), The total amount of the money lent (F139), The total amount of any private savings club(Gye) (F146), and The amount of other financial assets (F160). The first component, The amount of cash in checking or savings account, is defined as cash more than 500,000 KRW that is either in hand or in checking or savings accounts that can be cashed in anytime. The second component, The amount of money in fixed or time deposit accounts, includes money in fixed deposit accounts, mutual savings, negotiable deposits, other savings such as MMF/ CMA/ MMDA. The amount of stocks, investment funds, or bonds is defined as the amount of money that the respondent will get if he/she sold all the assets at the time of the interview. The total amount of the money lent is a total sum of money that is lent to others, and The total amount of any private savings club(Gye) are the amount saved through Gye that are not withdrawn yet.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_financialasset | The total amount of financial assets |

/\* The total amount of financial assets \*/

w&a0.financialasset=sum(of w&a0.F095 w&a0.f102 w&a0.F109 w&a0.F116 w&a0.insurance w&a0.F139 w&a0.F146 w&a0.F160);

**The total amount of insurance assets (Term life insurance/Whole life insurance/Annuity insurance assets)**

Insurance assets does not include insurances for health or accident coverage. Only saving insurances whose aim is to accrue savings and pensions are considered when deriving the insurance assets. Saving insurance includes term life insurance, whole life insurance, and annuity insurance. The amount of assets is derived from the insurance premium and the issue date of the insurance. Each question on insurances can be looped up to 5 times.

Insurance assets are calculated for each of the three insurance types: Term life insurance, Annuity insurance, and Whole life insurance. The insurance period is defined as a period between the issue date and the time of the survey. Possible answers for the frequency of payment are ① Monthly ② Twice a year ③ Once a year ④ Single payment(Full payment). Based on the insurance period and the frequency of payment, the total number of payments were calculated. The asset value of each term life insurance is derived by multiplying the number of payments by average amount of premium payments, and Term life insurance assets is a sum of the asset values for all term life insurances. The same method is applied for deriving the amount of Whole life insurance assets and Annuity insurance assets. Note that for respondents who did not respond to the month of the issue date, the month is assigned “6(June)” when calculating the insurance period.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_insurance  w\_\_regularins  w\_\_wholelifeins  w\_\_pensionins | The total amount of insurance assets (=Term life insurance assets + Whole life insurance assets + Annuity insurance assets)  Term life insurance assets  Whole life insurance assets  Annuity insurance assets |

/\*If the month of the issue date is not available, the month is assigned “6 (June)” \*/

%macro ym(data, data1, n, arr1);

data &data1;

set &data;

array aa [\*] &arr1;

array bb [\*] &arr1;

do i=1 to &n;

if aa[i] in (-8 -9) then bb[i]=6;

else bb[i]=aa[i];

end;

run;

%mend;

/\* Codes for Wave 2 (Variable names should be modified for Wave 1, and 3~5)\*/

%ym(asset02, asset02\_1, 5, w02F126\_01m w02F126\_02m w02F126\_03m w02F126\_04m w02F126\_05m);\*Term life insurance;

%ym(asset02\_1, asset02\_2, 3, w02F130\_01m w02F130\_02m w02F130\_03m );\*Whole life insurance;

%ym(asset02\_2, asset02\_3, 4, w02F135\_01m w02F135\_02m w02F135\_03m w02F135\_04m);\*Annuity insurance;

/\*Deriving the value of insurance\*/

%macro ins(data1, a0, var1, var2, var3, var4, var5, var6, m,d,y);

data p&a0;/\*data 1\*/

set &data1;/\*data that replaced missing values of the issue date \*/

today=mdy(&m, &d, &y); \*Issue date;

&var1=mdy(&var2.m, 01, &var2.y); \*Issue date;

if &var3=1 then &var4=intck('month', &var1, today )+1; \*Monthly;

else if &var3=2 then &var4=intck('semiyear', &var1, today); \*Twice a year;

else if &var3=3 then &var4=intck('year', &var1, today)+1; \*Once a year;

else if &var3=4 then &var4=1; \*Full payment;

&var5=&var4\*&var6; \*The total amount of insurance;

if &var5 < -10 & &var5 not in (.) then &var5= &var6;/\*Non-responses are coded as missing when deriving insurance assets \*/

keep pid &var1 &var2 &var3 &var4 &var5 &var6 today ;

run;

%mend;

/\* Codes for Wave 2 (Modify variable names for Wave 1, and 3~5)\*/

\*Term life insurance(Variable for issue date, Variable for payment frequency date, (calculated) The number of insurance payment, The asset value of insurance, The amount of payment) ;

%ins(asset02\_3, 1, rdate1, w02F126\_01, w02F124\_01, rterm1, rins1, w02F125\_01,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 2, rdate2, w02F126\_02, w02F124\_02, rterm2, rins2, w02F125\_02,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 3, rdate3, w02F126\_03, w02F124\_03, rterm3, rins3, w02F125\_03,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 4, rdate4, w02F126\_04, w02F124\_04, rterm4, rins4, w02F125\_04,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 5, rdate5, w02F126\_05, w02F124\_05, rterm5, rins5, w02F125\_05,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

\*Whole life insurance;

%ins(asset02\_3, 6, wdate1, w02F130\_01, w02F128\_01, wterm1, wins1, w02F129\_01,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 7, wdate2, w02F130\_02, w02F128\_02, wterm2, wins2, w02F129\_02,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 8, wdate3, w02F130\_03, w02F128\_03, wterm3, wins3, w02F129\_03,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

\*Annuity insurance;

%ins(asset02\_3, 9, pdate1, w02F135\_01, w02F133\_01, pterm1, pins1, w02F134\_01,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 10, pdate2, w02F135\_02, w02F133\_02, pterm2, pins2, w02F134\_02,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 11, pdate3, w02F135\_03, w02F133\_03, pterm3, pins3, w02F134\_03,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

%ins(asset02\_3, 12, pdate4, w02F135\_04, w02F133\_04, pterm4, pins4, w02F134\_04,w02mniw\_m ,w02mniw\_d ,w02mniw\_y);

/\*Deriving total amount of assets for each insurance type\*/

%macro ff(a0, v1, v2, v3);

w&a0.regularins=sum(of &v1); \*Term life insurance assets;

w&a0.wholelifeins=sum(of &v2 ); \*Whole life insurance assets;

w&a0.pensionins=sum(of &v3 ); \*Annuity insurance assets;

w&a0.insurance=sum(w&a0.regularins, w&a0.wholelifeins, w&a0.pensionins); \*The total amount of insurance assets;

%mend;

/\* Codes for Wave 2 (Modify variable names for Wave 1, and 3~5)\*/

%ff(02, rins1 rins2 rins3 rins4 rins5,wins1 wins2 wins3 ,pins1 pins2 pins3 pins4);

**The amount of investment on farm or other business**

The amount of investment on farm or other business is the current asset value of a business or a farm that the respondent is running or investing in at the time of the interview. The value was taken from The amount of investment on farm or other business (F086).

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_businessfarm | The amount of investment on farm or other business |

/\* The amount of investment on farm or other business \*/

w&a0.businessfarm=w&a0.F086;

\* &a0 : The Wave number will be automatically assigned to this index when running the macro

**Other assets**

Other assets are derived from two questions. One question asks the respondent about the estimated amount of money that the respondent will get if he/she sells all the vehicles (e.g. cars, trucks, trailers, and boats) owned by him/herself (F175), and the total amount of other non-financial assets (i.e., valuables, paintings, antiques and golf membership other than vehicles) (F182).

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_otherasset | Other assets |

/\* Other assets \*/

w&a0.otherasset=sum(w&a0.F175, w&a0.F182);

\* &a0 : The Wave number will be automatically assigned to this index when running the macro

**The total amount of household assets**

The total amount of household assets is derived from the variable W\_\_F234 that asks directly about the amount of household assets. The total amount of household assets(w\_\_hhassets) is defined by the amount of household assets reported by The person who knows the most about household incomes and assets (w\_\_Ea\_resp). In generating the variable, the household assets reported by this representative member (w\_\_F234) is assigned to all the other members so that The total amount of household assets(w\_\_hhassets) takes the same value across all household members.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_hhassets | The total amount of household assets |

/\* The total amount of household assets \*/

if w&a0.Ea\_resp=1 then w&a0.hhassets=w&a0.F234;

\* &a0 : The Wave number will be automatically assigned to this index when running the macro

**The total amount of personal liabilities**

The components of personal liabilities include loans from financial institution, loans from non-financial institution, personal loans, security deposits for housing/renting, the money for private savings club (Gye) owed in the future, and other debts. In specific, The total amount of personal liabilities is the sum of The amount of debt for purchasing the house that currently live in (F013\_n), The amount of security deposit for JEON-SE/WOL-SE (house\_sum), Any security deposit from leasing the real estate (F065), The amount of any private savings club(Gye) which still owe in the future (F152), The amount of loans from financial institution (F206), The amount of personal loans (F213), and The amount of other debt (F228)

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_pliabilities | The total amount of personal liabilities |

/\* The total amount of personal liabilities \*/

w&a0.pliabilities=sum(w&a0.F013\_n, w&a0.house\_sum, w&a0.F065, w&a0.F152, w&a0.F206, w&a0.F213,w&a0.F228);

\* &a0 : The Wave number will be automatically assigned to this index when running the macro

**The sum of the amount of loan or liabilities for purchasing the house that currently live in**

A new variable (F013\_n) was created with a variable for the loan or liability received (F013) to obtain the house in which you live. F013\_n was created by calculating the value of the dwelling's ownership (w\_\_\_residence\_) and the value of F013.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_F013\_n | The sum of The amount of debt for purchasing the house that currently live in |

/\* The sum of The amount of debt for purchasing the house that currently live in \*/

if w&a0.residence^=. and w&a0.F013 not in (0 .) then w&a0.F013\_n=w&a0.F013;

\* &a0 : The Wave number will be automatically assigned to this index when running the macro

**The amount of security deposit for JEON-WOL-SE**

F014m01 and F014m02 ask whether the respondent is leasing a part of the house to a tenant(s). For those leasing the house on deposit-basis (JEON-SE), The amount of security deposit for the deposit-based without monthly rent (ie JEON­SE) (F015) is asked, and those leasing the house on monthly-basis, The amount of security deposit for the secured monthly rent (ie WOL­SE) (F021) is asked. Using these two variables, The amount of security deposit for JEON-WOL-SE (house\_sum) is derived.

First, respondents who meet the two following conditions are identified: Residence type (F001) is “Owned” and Whether or not R has the share in current residence (residence\_) is “1”. Then, the variable house\_sum is generated by summing The amount of security deposit for the deposit-based without monthly rent (ie JEON­SE) (F015) and The amount of security deposit for the secured monthly rent (ie WOL­SE) (F021). If the house is owned under multiple people’s name (F005), the value is replaced by the sum divided by the number of names.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_house\_sum | The amount of security deposit for JEON-WOL-SE |

/\* The amount of security deposit for JEON-WOL-SE \*/

if w&a0.F001 =1 & w&a0.residence\_=1 then do;/\* If Residence type is “Owned” and the respondent owns a positive share \*\*\*/

if (w&a0.F014m01 in (1) | w&a0.F014m02 in (1) ) & ( w&a0.F015 >0 | w&a0.F021>0) then do;

/\*\*\*If the respondent is leasing a part of the house to a tenant(s) on deposit- or monthly- basis \*\*\*/

/\*\*\*The house\_sum is derived by dividing the amount of security deposit by the number of joint owners \*\*\*/

if w&a0.F005>=2 then w&a0.house\_sum=sum(of w&a0.F015 w&a0.F021) / w&a0.F005;

if w&a0.F005=0 then w&a0.house\_sum=sum(of w&a0.F015 w&a0.F021);

end;

end;

\* &a0 : The Wave number will be automatically assigned to this index when running the macro

**The total amount of household debt**

Respondents are asked about The total amount of household debt (F240). The total amount of household debt (hhliabilities) is defined by the amount of household debt reported by The person who know the most about household debt (Ea\_resp). In generating the variable, the household debt reported by this representative member is assigned to all the other members so that The total amount of household debt(hhliabilities) takes the same value across all household members.

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_hhliabilities | The total amount of household debt\_R's response value in F240 |

|  |
| --- |
| /\* The total amount of household debt \*/  if w02Ea\_resp=1 then w&a0.hhliabilities= w&a0.F240;  \* &a0 : The Wave number will be automatically assigned to this index when running the macro |

**Personal net assets**

Personal net assets (pnetassets) is derived by subtracting The total amount of personal liabilities (pliabilities) from The total amount of personal assets (passets).

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_pnetassets | Personal net assets (=The total amount of personal assets-The total amount of personal liabilities) |

|  |
| --- |
| /\*Personal net assets \*/  w&a0.pnetassets=sum(w&a0.passets, -w&a0.pliabilities);  \* &a0 : The Wave number will be automatically assigned to this index when running the macro |

**The total amount of household net assets**

The total amount of household net assets (hhnetassets) is derived by subtracting The total amount of household debt (hhliabilities) from The total amount of household assets (hhassets).

|  |  |
| --- | --- |
| **Variable name** | **Variable description** |
| w\_\_hhnetassets | The total amount of household net assets (=The total amount of household assets -The total amount of household debt) |

|  |
| --- |
| /\*The total amount of household net assets \*/  w&a0.hhnetassets=sum(w&a0.hhassets, -w&a0.hhliabilities);  \* &a0 : The Wave number will be automatically assigned to this index when running the macro |

Appendix 1

Generation process of Structurally Converted Data

(Section B. Family/Section D. Employment)

**□ Plans for generating Structurally Converted Data:**

Based on raw variables in each section,

- As Section B (Family) and Section D (Employment) are complex in data structure, in response to the demand for improving the data raised by users, **raw variables in the two sections are replaced** by Structurally Converted variables.

- Main generated variables from Section E (Income) and Section F (Assets) and prevalence rates of chronic diseases from Section C (Health), which were only included in the Non-response Imputation data before, are now added to Structurally Converted Data (User’s guide is available)

- Unification of variables in Section C (Health) is now completed.

- Due to the structural conversion process, the variable name may not match question numbers in the questionnaire.

\* KLoSA users were surveyed about their user experience (Participants of the May 27, 2016 Symposium)

\* (Feb 23, 2017) Structurally Converted Data was released only to the participants in Symposium for using the KLoSA data.

\* (Feb 26, 2018) Structurally Converted Data was released to the public.

**□ Summary of Structurally Converted Data**

❍ Section B. Family

- Missing values(NULL) occurring from the question loops (ex. Questions that were looped as many times as the number of children) are deleted.

- Responses to calendar-based questions are converted into the length of period.

- If same questions were asked to both parents, the variables are combined into a variable which contains information on both parents--- However, if both parents are alive but living separately, questions are asked separately for each parent. Thus, in order to prevent the loss of information, parents and father variables are combined into a single variable, while mother variables are left untouched. (These cases are less than 20 observations per wave)

☞ In sum, Parents/Father variables were combined into a single variable, while Mother variables were left untouched.

< How questions on R’s parents are asked >

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Questions** | **CASE 1** | **CASE 2** | **CASE 3** | **CASE 4** |
| B033~B064 | Both parents are alive and living together |  |  |  |
| B065~B102 |  | Only R’s father is alive |  | Both parents are alive but living separately |
| B103~B140 |  |  | Only R’s mother is alive |

< Combine variables of parental information >

|  |  |  |
| --- | --- | --- |
| **Descriptions of Combined variables** | **Combined variables** | |
| **Raw variables**  **(Parents)** | **Raw variables**  **(Father)** |
| w03bp3~w03bp16 have information about … | 1. Parents | 2.Father |
| (Not live together) (Parents/Father) live together with other children | Parents  (B033~B064) | Father  (B065~B102) |
| (Generated) (Not live together) Number of children live together with (Parents/Father) |
| (Not live together) (Parents/Father) live together with which child\_(1) |
| (Not live together) (Parents/Father) live together with which child\_(2) |
| (Not live together) (Parents/Father) neighboring characteristic |
| (Not live together) The frequency which (Parents/Father) meet(in person) |
| (Not live together) The frequency which (Parents/Father) meet(by phone, mail or e-mail) |
| (Not live together) Receipt of regular financial support from (Parents/Father) |
| … |
| (live together) The monthly average amount of regular financial support I received from (Parents/Father) (unit: 10,000 Korean won) |
| w03bm3~w03bm16 have information about … | 3. Mother | |
| (Not live together) (Mother) live together with other children | Mother  (B103~B140) | |
| (Generated) (Not live together) Number of children live together with (Mother) |
| (Not live together) (Mother) live together with which child\_(1) |
| (Not live together) (Mother) live together with which child\_(2) |
| … |
| (live together) The monthly average amount of regular financial support I received from (Mother) (unit: 10,000 Korean won) |

☞ Below is an example of calendar-based questions. 14 binary indicators (Yes/No) are generated for each calendar-based question. ⇒ The binary variables are then combined into a single variable indicating the total period of time.

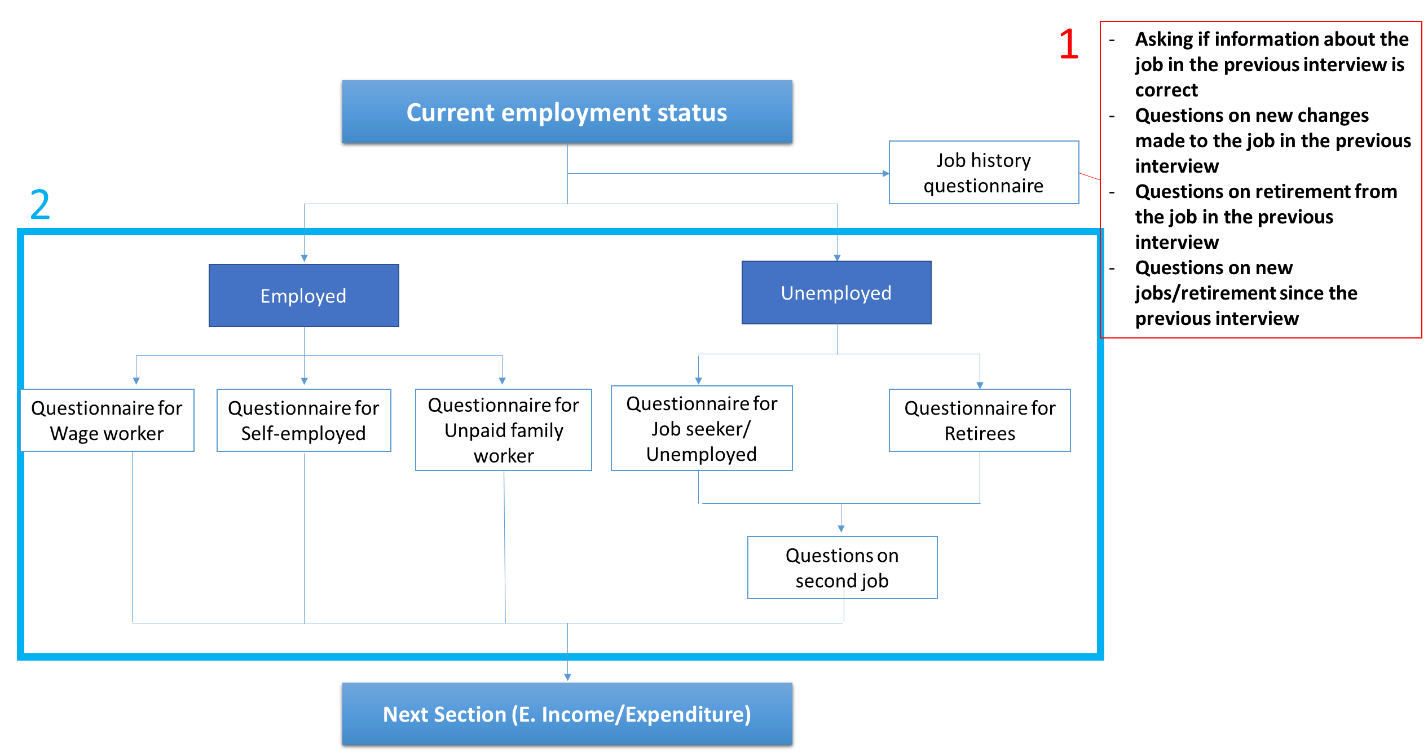
|  |  |  |
| --- | --- | --- |
|  | 🡪 |  |

❍ Section D. Employment

- Variables related to R’s job in the previous interview, R’s new jobs (i.e., job between current job and job in the previous interview) and R’s current job are generated.

- Combined variables are generated when same questions are asked to respondents of different job types (Wage worker, Self-employed, Unpaid family workers, Job seekers, and Retirees)

<Questionnaire design in Section D>



1. How variables in the red rectangle are structurally converted

- Section D (Employment) asks respondents about whether there were any changes made to his/her employment since the previous interview.

1) Main characteristics of the current job (Occupation, industry, employment status, job title, work hour type, and the number of employees in the workplace, etc.) should be taken from the previous interview if the respondent is currently working on the same job as in the previous interview.

|  |
| --- |
| If Current job = Job in the previous interview (i.e., job retainers),  1) If the respondent was not interviewed, check in which wave the respondent was interviewed for the last time.  2) If, in the wave when the respondent was last interviewed, the respondent was working on the same job as before, check in which wave the respondent first reported the job and its main characteristics can be retrieved from that wave. |

2) Check what was changed about the main characteristics of the job reported in the previous interview or get the main characteristics of a new job.

: If any changes were made to R’s job characteristics, these are reflected when generating the current-job variables.

: If R is working in a new job, characteristics of the new job is reflected when generating the current-job variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [ Job retainers ]   |  | | --- | | Retained job | | + Changes in characteristics | | ⇓ | | **Generated variable** | | [ Job movers ]   |  |  |  |  | | --- | --- | --- | --- | | Previous job 1 | Previous job 2 | … | Previous job N | | + Changes in characteristics | + Changes in characteristics | + Changes in characteristics | | ⇓ | ⇓ | ⇓ | | **Generated variable** | **Generated variable** | **Generated variable** | |

2. How variables in the blue rectangle are structurally converted

- Based on responses in Section D (Employment), respondents are classified into the following 5 job types: Wage worker, Self-employed, Unpaid family worker, Job seeker and Retiree. Different questions on the current job are asked according to R’s job type.

- For questions that are asked to all job types, all the information is combined into a single variable for the sake of efficiency.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | | | Respondents are asked different questions by his/her job type. | | | | | |  | | | |  |
|  | | | | | | |  | | | | | | |
| ① ② | | | ③ | | | | ④ | | | | ⑤ | | |
| Wage worker | |  | Self-employed | | |  | Unpaid family worker | |  | Job seeker | | |  | Retiree | |
| VAR001 | | VAR101 | | | VAR201 | | VAR301 | | | VAR401 | |
| ≀ | | ≀ | | | ≀ | | ≀ | | | ≀ | |
| VAR100 | | VAR200 | | | VAR300 | | VAR400 | | | VAR500 | |

⇓

Combined variables are generated for shared questions

[ Main variables from Section D (Employment) of Structurally Converted Data]

| **Job type** | **Themes** | **Variable descriptions** |
| --- | --- | --- |
| Summary of economic activity status | History of interview participation and economic activity status in each wave | Whether participated in the 1st survey  Whether participated in the 2nd survey  … The economic activity status in the 1st  The economic activity status in the 2nd  …  Type of questionnaire (Wage worker, Self-employed, Unpaid family worker, Unemployed (Job seeker, Retiree, etc.))  (Common) The economic activity status in the present  Job-searching activity  The current employment status in the job market |
| Job in the previous interview1), 2) | Main characteristics of the job | Lately response wave(except this year)  (Common) In the previous interview, work  In the previous interview, job name (Wave when job was reported the first time)  (Common) In the previous interview, the economic activity status  (Wage/Non-wage worker) In the previous interview, the employment status (Wage worker/Self-employed/Unpaid family worker)  (Wage worker) In last interview, R's official position or job title  (Wage/Non-wage worker) In the previous interview, the employees in the same workplace (continuous)  (Wage/Non-wage worker) In the previous interview, the estimated employees in the same workplace (categorical)  (Wage/Non-wage worker) In the previous interview, the employment status (Regular/Temporary/Daily/Self-employed/Unpaid family worker)  (Wage worker) In the previous interview, working hour type (part-time/full-time)  (Non-wage worker) In the previous interview, the number of non-paid family workers  (Non-wage worker) In the previous interview, had a business partner or not  (Non-wage worker) In the previous interview, the number of a business partner  (Non-wage worker) In the previous interview, share of ownership (unit : %)  (Wage/Non-wage worker) In the previous interview, industrial classification  (Wage/Non-wage worker) In the previous interview, occupational classification  (Wage/Non-wage worker) In the previous interview, the beginning time of the job (unit: yyyy+mm)  (Wage/Non-wage worker) In the previous interview, the beginning time of the job (unit: yyyy)  (Wage/Non-wage worker) In the previous interview, the beginning time of the job (unit: mm) |
| Whether working in the same job as before | Whether or not R currently works in the same job with previous interview |
| Reasons of quitting the job, etc. | The time of quitting a job that a R worked in previous interview (unit: yyyy+mm)  (Wage/Non-wage worker) The time of quitting a job that a R worked in previous interview (unit: yyyy)  (Wage/Non-wage worker) The time of quitting a job that a R worked in previous interview (unit: mm)  (Wage worker) Reasons of quitting a job in previous interview (Non-wage worker) Reasons of quitting a job in previous interview  (Wage worker) Received or to expected severance payment in previous interview  (Wage worker) The amount of received or to expected severance payment in previous interview  (Wage worker) Received or to expected legal retirement benefits in previous interview  (Wage worker) The amount of received or to expected legal retirement benefits in previous interview |
| Changes made since previous interview | (Wage worker) Since previous interview, any change for R's official position or job\_1st  (Wage worker) Since previous interview, changed official position or job title\_1st  (Wage/Non-wage worker) Since previous interview, the employees in the new workplace (continuous)\_the number of changes  (Wage/Non-wage worker) Since previous interview, the employees in the new workplace (continuous)\_the content of changes  (Wage/Non-wage worker) Since previous interview, the estimated employees in the new workplace (categorical)\_the number of changes  (Wage/Non-wage worker) Since previous interview, the estimated employees in the new workplace (categorical)\_the content of changes  (Wage worker) Since previous interview, any changes for R's employment status\_1st  (Wage worker) Since previous interview, changed employment status \_1st  (Wage worker) Since previous interview, any change for R's working hour type \_1st  (Wage worker) Since previous interview, changed working hour type \_1st  (Common) Since previous interview, any change for R's occupation\_1st  Since previous interview, changed occupational classification\_1st |
| New job | Whether had a new job between current job and the job in previous interview | Since previous interview, whether experienced a new job or not  Since previous interview, The number of jobs between the job in previous interview and current job |
| Main characteristics of the 1st job | Since previous interview, 1st new job\_employment status  (Wage worker) Since previous interview, 1st new job\_an official position or job title  (Wage worker) Since previous interview, 1st new job\_the number of changes in an official position or job title  (Wage worker) Since previous interview, 1st new job\_all the employees  (Wage/Non-wage worker) Since previous interview, 1st new job\_the employees (continuous)\_the number of changes  (Wage worker) Since previous interview, 1st new job\_the estimated all the employees  (Wage/Non-wage worker) Since previous interview, 1st new job\_the estimated employees (categorical)\_the number of changes  (Wage worker) Since previous interview, 1st new job\_employment status  (Wage/Non-wage worker) Since previous interview, 1st new job\_the number of changes in employment status  (Wage worker) Since previous interview, 1st new job\_working hour type  (Non-wage worker) Since previous interview, 1st new job\_the number of non-paid family workers  (Non-wage worker) Since previous interview, 1st new job\_had a business partner or not  (Non-wage worker) Since previous interview, 1st new job\_the number of a business partner  (Non-wage worker) Since previous interview, 1st new job\_share of ownership (unit : %)  Since previous interview, industry of 1st new job (industrial classification)  Since previous interview, changed occupational classification\_1st |
| Whether working in the 1st new job | Since previous interview, 1st new job\_currently work or not |
| Reasons of quitting the 1st new job, etc. | (Since previous interview, the beginning time of 1st new job (unit: yyyy+mm)  Since previous interview, the beginning time of 1st new job (unit: yyyy)  Since previous interview, the beginning time of 1st new job (unit: mm)  Since previous interview, 1st new job\_the time of quitting a job (unit: yyyy+mm)  Since previous interview, 1st new job\_the time of quitting a job (unit: yyyy)  Since previous interview, 1st new job\_the time of quitting a job (unit: mm)  Since previous interview, 1st new job\_weekly average of working days (unit: a day)  Since previous interview, 1st new job\_weekly average of working hours (unit: an hour)  Since previous interview, 1st new job\_monthly average of wages or income (unit: 10,000 won)  (Wage worker) Since previous interview, 1st job\_the reason of quitting a job  (Non-wage worker) Since previous interview, 1st job\_the reason of quitting a job |
| 2nd new job | Same variables as 1st new job |
| Current job | Main characteristics of the current job | Currently work  (Wage worker) In current job\_an official position or job title  (Wage worker) In current job\_the number of changes in an official position or job title  (Wage/Non-wage worker) In current job\_the employees (continuous)  (Wage/Non-wage worker) In current job\_the employees (continuous)\_the number of changes  (Wage/Non-wage worker) In current job\_the estimated employees (categorical)  (Wage/Non-wage worker) In current job\_the estimated employees (categorical)\_the number of changes  (Wage/Non-wage worker) In current job\_employment status  (Wage/Non-wage worker) In current job\_the number of changes in employment status  (Wage worker) In current job\_working hour type (part-time/full-time)  (Wage worker) In current job\_the number of changes in working hour type  (Non-wage worker) In current job\_the number of non-paid family workers  (Non-wage worker) In current job\_had a business partner or not  (Non-wage worker) In current job\_the number of a business partner  (Non-wage worker) In current job\_share of ownership (unit : %)  (Wage/Non-wage worker) In current job\_industrial classification  (Wage/Non-wage worker) In current job\_occupational classification  (Wage/Non-wage worker) In current job\_the number of changes in occupational classification  (Wage/Non-wage worker) In current job\_the beginning time of the job (unit: yyyy+mm)  (Wage/Non-wage worker) In current job\_the beginning time of the job (unit: yyyy)  (Wage/Non-wage worker) In current job\_the beginning time of the job (unit: mm)  In current job\_job name |
| Variables by job type | | Variables by job type: Wage worker, Self-employed, Unpaid family worker, Job seeker, and Retiree  (Combined variables are generated for shared questions) |

Appendix 2

List of Combined Variables in Section B/D

Raw variables used for each combined variable in Section Bb (Family)

(With reference to Wave 5)

| **Combined variables** | **Variable description** | **Raw variables (Parents)** | **Raw variables (Father)** |
| --- | --- | --- | --- |
| \_target1 | Respondent answered to bp3~bp16 by each wave(1.parents/2.father) | 1.Parents | 2.Father |
| bp3 | (Not live together) (Parents/Father) live together with other children | Bb017 | Bb055 |
| bp\_son\_1 | (Not live together) (Parents/Father) live together with which child\_(1) | Bb018a01 | Bb056a01 |
| bp\_son\_2 | (Not live together) (Parents/Father) live together with which child\_(2) | Bb018a02 | Bb056a02 |
| bp4 | (Not live together) (Parents/Father) neighboring characteristic | Bb020 | Bb058 |
| bp5 | (Not live together) The frequency which (Parents/Father) meet(in person) | Bb021 | Bb059 |
| bp6 | (Not live together) The frequency which (Parents/Father) meet(by phone, mail or e-mail) | Bb022 | Bb060 |
| bp7\_1 | (Not live together) Receipt of regular financial support from (Parents/Father) | Bb023w5 | Bb079w5 |
| bp8 | (Not live together) The monthly average amount of regular financial support I received from (Parents/Father) (unit: 10,000 Korean won) | Bb024 | Bb062 |
| bp\_dur1 | (Not live together) The number of months of regular financial receipt from (Parents/Father) | Bb030w5 | Bb086w5 |
| bp7\_2 | (Not live together) Receipt of occasional financial support from (Parents/Father) | Bb031w5 | Bb087w5 |
| bp9 | (Not live together) The total amount of occasional financial support I received from (Parents/Father) (unit: 10,000 Korean won) | Bb031 | Bb069 |
| bp7\_3 | (Not live together) Receipt of non-financial support (gifts or goods) from (Parents/Father) | Bb038w5 | Bb094w5 |
| bp9\_1 | (Not live together) I received a leisure(e g, travel) from (Parents/Father) | Bb037m01 | Bb075m01 |
| bp9\_2 | (Not live together) I received the health-related products from (Parents/Father) | Bb037m02 | Bb075m02 |
| bp9\_3 | (Not live together) I received the household items from (Parents/Father) | Bb037m03 | Bb075m03 |
| bp9\_4 | (Not live together) I received the electronics from (Parents/Father) | Bb037m04 | Bb075m04 |
| bp9\_5 | (Not live together) I received dining out and food from (Parents/Father) | Bb037m05 | Bb075m05 |
| bp9\_6a | (Not live together) I received clothes or shoes from (Parents/Father) | Bb039m06w5 | Bb095m06w5 |
| bp9\_6 | (Not live together) I received non-financial support from (Parents/Father)\_others | Bb037m06 | Bb075m06 |
| bp10\_1 | (Not live together) Offer to (Parents/Father)\_regular financial support | Bb041w5 | Bb097w5 |
| bp11 | (Not live together) The monthly average amount of regular financial support I gave to (Parents/Father) (unit: 10,000 Korean won) | Bb040 | Bb078 |
| bp\_dur2 | (Not live together) The number of months of regular financial offer to (Parents/Father) | Bb048w5 | Bb104w5 |
| bp10\_2 | (Not live together) Offer to (Parents/Father)\_occasional financial support | Bb049w5 | Bb105w5 |
| bp12 | (Not live together) The total amount of occasional financial support I gave to (Parents/Father)(unit: 10,000 Korean won) | Bb047 | Bb085 |
| bp10\_3 | (Not live together) Offer to (Parents/Father)s\_non-financial support (gifts or goods) | Bb056 | Bb112w5 |
| bp12\_1 | (Not live together) I gave a leisure(e g, travel) to (Parents/Father) | Bb053m01 | Bb091m01 |
| bp12\_2 | (Not live together) I gave the health-related products to (Parents/Father) | Bb053m02 | Bb091m02 |
| bp12\_3 | (Not live together) I gave the household items to (Parents/Father) | Bb053m03 | Bb091m03 |
| bp12\_4 | (Not live together) I gave the electronics to (Parents/Father) | Bb053m04 | Bb091m04 |
| bp12\_5 | (Not live together) I gave dining out and food to with (Parents/Father) | Bb053m05 | Bb091m05 |
| bp12\_6a | (Not live together) I gave clothes and shoes to (Parents/Father) | Bb057m06w5 | Bb113m06w5 |
| bp12\_6 | (Not live together) I gave non-financial support to (Parents/Father)\_others | Bb053m06 | Bb091m06 |
| bp13 | (Live together) Receipt of financial support from (Parents/Father) | Bb178 | Bb192 |
| bp14 | (Live together) The total amount of financial support from (Parents/Father)(unit: 10,000 Korean won) | Bb179 | Bb193 |
| bp15 | (Live together) Offer of financial support to the (Parents/Father) | Bb185 | Bb199 |
| bp16 | (Live together) The total amount of financial support to the (Parents/Father)(unit: 10,000 Korean won) | Bb186 | Bb200 |

| **Combined variable** | **Variable description** | **Raw variables (Parents)** |  |
| --- | --- | --- | --- |
| \_target2 | Respondent answered to bm3~bm16 by each wave (3.mother) | 3. Mother |  |
| bm3 | (Not live together) (Mother)\_live together with other children | Bb093 |  |
| bm\_num\_s | (Generated) (Not live together) Number of children live together with (Mother) | n\_son\_\_a |  |
| bm\_son\_1 | (Not live together) (Mother) lives together with which child\_(1) | Bb094a01 |  |
| bm\_son\_2 | (Not live together) (Mother) lives together with which child\_(2) | Bb094a02 |  |
| bm4 | (Not live together) (Mother) neighboring characteristic | Bb096 |  |
| bm5 | (Not live together) The frequency which (Mother) meet(in person) | Bb097 |  |
| bm6 | (Not live together) The frequency which (Mother) meet(by phone, mail or e-mail) | Bb098 |  |
| bm7\_1 | (Not live together) Receipt of regular financial support from (Mother) | Bb135w5 |  |
| bm8 | (Not live together) The monthly average amount of regular financial support I received from (Mother) (unit: 10,000 Korean won) | Bb100 |  |
| bm\_dur1 | (Not live together) The number of months of regular financial receipt from (Mother) | Bb142w5 |  |
| bm7\_2 | (Not live together) Receipt of occasional financial support from (Mother) | Bb143w5 |  |
| bm9 | (Not live together) The total amount of occasional financial support I received from (Mother) (unit: 10,000 Korean won) | Bb107 |  |
| bm7\_3 | (Not live together) Receipt of non-financial support (gifts or goods) from (Mother) | Bb150w5 |  |
| bm9\_1 | (Not live together) I received a leisure(e g, travel) from (Mother) | Bb113m01 |  |
| bm9\_2 | (Not live together) I received the health-related products from (Mother) | Bb113m02 |  |
| bm9\_3 | (Not live together) I received the household items from (Mother) | Bb113m03 |  |
| bm9\_4 | (Not live together) I received the electronics from (Mother) | Bb113m04 |  |
| bm9\_5 | (Not live together) I received dining out and food from (Mother) | Bb113m05 |  |
| bm9\_6a | (Not live together) I received clothes or shoes from (Mother) | Bb151m06w5 |  |
| bm9\_6 | (Not live together) I received non-financial support from (Mother)\_others | Bb113m06 |  |
| bm10\_1 | (Not live together) Offer to (Mother)\_regular financial support | Bb153w5 |  |
| bm11 | (Not live together) The monthly average amount of regular financial support I gave to (Mother) (unit: 10,000 Korean won) | Bb116 |  |
| bm\_dur2 | (Not live together) The number of months of regular financial offer to (Mother) | Bb160w5 |  |
| bm10\_2 | (Not live together) Offer to (Mother)\_occasional financial support | Bb161w5 |  |
| bm12 | (Not live together) The total amount of occasional financial support I gave to (Mother)(unit: 10,000 Korean won) | Bb123 |  |
| bm10\_3 | (Not live together) Offer to (Mother)\_non-financial support (gifts or goods) | Bb168w5 |  |
| bm12\_1 | (Not live together) I gave a leisure(e g, travel) to (Mother) | Bb129m01 |  |
| bm12\_2 | (Not live together) I gave the health-related products to (Mother) | Bb129m02 |  |
| bm12\_3 | (Not live together) I gave the household items to (Mother) | Bb129m03 |  |
| bm12\_4 | (Not live together) I gave the electronics to (Mother) | Bb129m04 |  |
| bm12\_5 | (Not live together) I gave dining out and food to with (Mother) | Bb129m05 |  |
| bm12\_6a | (Not live together) I gave clothes and shoes to (Mother) | Bb169m06w5 |  |
| bm12\_6 | (Not live together) I gave non-financial support to (Mother)\_others | Bb129m06 |  |
| bm13 | (Live together) Receipt of financial support from (Mother) | Bb206 |  |
| bm14 | (Live together) The total amount of financial support from (Mother) (unit: 10,000 Korean won) | Bb207 |  |
| bm15 | (Live together) Offer of financial support to (Mother) | Bb213 |  |
| bm16 | (Live together) The total amount of financial support to (Mother) (unit: 10,000 Korean won) | Bb214 |  |

Raw variables used for each combined variable in Section D (Employment) (With reference to Wave 5; Variables in Wave 2~4 and Wave 6 are largely the same)

| **Combined variables** | **Variable description** | **Wage worker** | **Self-employed** | **Unpaid family worker** | **Job seeker** | **Retiree** |
| --- | --- | --- | --- | --- | --- | --- |
| D\_com001 | (New self-employed) The most important reason for running a own business |  | D201 | D301 |  |  |
| D\_com003 | (New self-employed) The amount of initial start-up expense |  | D203 |  |  |  |
| D\_com004 | (New self-employed) The reason for zero startup expense |  | D204 |  |  |  |
| D\_com005a | (New self-employed) The % of contribution of initial expenses\_Own/spouse's savings |  | D205a |  |  |  |
| D\_com005b | (New self-employed) The % of contribution of initial expenses\_Help or borrowings from parents/spouse’s parents, |  | D205b |  |  |  |
| D\_com005c | (New self-employed) The % of contribution of initial expenses\_Help or borrowings from children/grandchildren |  | D205c |  |  |  |
| D\_com005d | (New self-employed) The % of contribution of initial expenses\_Borrowings from relatives/spouse’ relatives, |  | D205d |  |  |  |
| D\_com005e | (New self-employed) The % of contribution of initial expenses\_Borrowings from other individuals |  | D205e |  |  |  |
| D\_com005f | (New self-employed) The % of contribution of initial expenses\_Partner |  | D205f |  |  |  |
| D\_com005g | (New self-employed) The % of contribution of initial expenses\_Loans from banks and other financial institutions |  | D205g |  |  |  |
| D\_com005h | (New self-employed) The % of contribution of initial expenses\_Government subsidy |  | D205h |  |  |  |
| D\_com005i | (New self-employed) The % of contribution of initial expenses\_Others |  | D205i |  |  |  |
| D\_com006 | (New self-employed) The difficulty of starting a business\_securing sufficient financing |  | D206 |  |  |  |
| D\_com007 | (New self-employed) The difficulty of starting a business\_securing technology |  | D207 |  |  |  |
| D\_com008 | (New self-employed) The difficulty of starting a business\_securing appropriate human resources |  | D208 |  |  |  |
| D\_com009 | (New self-employed) The difficulty of starting a business\_administrative procedures |  | D209 |  |  |  |
| D\_com010 | (New self-employed) The difficulty of starting a business\_choice of the industry |  | D210 |  |  |  |
| D\_com011 | (New self-employed) The difficulty of starting a business\_choice of business location |  | D211 |  |  |  |
| D\_com012 | (Unpaid family worker) The relationship between R and business owner |  |  | D303 |  |  |
| D\_com014 | (New wage worker) Whether fixed or non-fixed contract | D101 |  |  |  |  |
| D\_com015 | (New wage worker) As for fixed, the duration of fixed contract (unit: months) | D102 |  |  |  |  |
| D\_com016 | (New wage worker) Whether or not contract has been renewed | D103 |  |  |  |  |
| D\_com017 | (New wage worker) As for non-fixed, work for a short-term(days/weeks) | D104 |  |  |  |  |
| D\_com018 | (New wage worker) Whether or not received written contract | D105 |  |  |  |  |
| D\_com019 | (New wage worker) Possibility of continuing the current work | D106 |  |  |  |  |
| D\_com020 | (New wage worker) The expected work period | D107 |  |  |  |  |
| D\_com021 | (New wage worker) The reason of the work period expected | D108 |  |  |  |  |
| D\_com023 | (New wage worker) In current job\_a source of wages | D110 |  |  |  |  |
| D\_com024 | (New wage worker) In current job\_whether the mandatory retirement age is set or not | D111 |  |  |  |  |
| D\_com025 | (New wage worker) In current job\_ the mandatory retirement age (unit : an age) | D112 |  |  |  |  |
| D\_com026 | (New wage worker) In current job\_ the conventional retirement existence | D113 |  |  |  |  |
| D\_com027 | (New wage worker) In current job\_ the conventional retirement age (unit : an age) | D114 |  |  |  |  |
| D\_com028 | (Wage worker) In current job\_the position of a supervisor or not | D115 |  |  |  |  |
| D\_com029 | (Wage worker) In current job\_the number of workers to supervise | D116 |  |  |  |  |
| D\_com030 | (Wage worker) In current job\_regular working hour or not | D117 | D217 | D308 |  |  |
| D\_com031 | (Wage worker) In current job\_average a work day per week | D118 | D215 | D311 |  |  |
| D\_com032 | (Wage worker) In current job\_average working hours per week | D119 | D216 | D307 |  |  |
| D\_com033 | (Self-employed) In current business\_ determination of working hours |  | D218 | D309 |  |  |
| D\_com035 | (Self-employed) In current business\_ the amount of monthly sales (unit : 10,000 won) |  | D212 | D305 |  |  |
| D\_com036 | (Self-employed) In current business\_ the estimated amount of monthly sales |  | D213 | D306 |  |  |
| D\_com037 | (Self-employed) In current business\_ the monthly average of a net profit (unit : 10,000 won) |  | D214 |  |  |  |
| D\_com038 | (Wage worker) In current job\_attitude towards the current working hours | D120 | D220 | D312 |  |  |
| D\_com039 | (Wage worker) In current job\_The current working hours are too long | D121 | D221 | D313 |  |  |
| D\_com040 | (Wage worker) In current job\_The % of hours that want to reduce from total working hours(unit: %) | D122 | D222 | D314 |  |  |
| D\_com041 | (Wage worker) In current job\_The % of acceptable pay cut (unit: %) | D123 | D223 |  |  |  |
| D\_com042 | (Wage worker) In current job\_The current working hours are too short | D124 | D224 | D315 |  |  |
| D\_com043 | (Wage worker) In current job\_The % of hours that want to increase from total working hours(unit: %) | D125 | D225 | D316 |  |  |
| D\_com044 | (Wage worker) In current job\_The % of expected pay increase(unit: %) | D126 | D226 |  |  |  |
| D\_com045 | (Wage worker) In current job\_A work holiday regular designation | D127 | D227 | D317 |  |  |
| D\_com046 | (Wage worker) In current job\_Days of paid vacation | D128 |  |  |  |  |
| D\_com047 | (Wage worker) In current job\_Days of paid sick leave | D129 |  |  |  |  |
| D\_com048 | (Wage worker) In current job\_Days of absence by health reasons | D130 | D228 | D318 |  |  |
| D\_com049 | (Wage worker) In current job\_The methods of wages payment | D131 |  |  |  |  |
| D\_com051 | (Wage worker) In current job\_Seniority-based wage | D133 |  |  |  |  |
| D\_com052 | (Wage worker) In current job\_Monthly salary(post-tax) | D134 |  |  |  |  |
| D\_com052\_1 | (Wage worker) In current job\_Monthly salary(pre-tax) | D134  \_01 |  |  |  |  |
| D\_com053 | (Wage worker) In current job\_Enrollment type in Public Pension | D135 |  |  |  |  |
| D\_com054 | (Wage worker) In current job\_Enrollment in the National Health Insurance | D136 |  |  |  |  |
| D\_com055 | (Wage worker) In current job\_Enrollment in the Unemployment Compensation Insurance | D137 |  |  |  |  |
| D\_com056 | (Wage worker) In current job\_Enrollment in the Industrial Accident Compensation Insurance | D138 |  |  |  |  |
| D\_com057 | (Wage worker) In current job\_The kind of retirement plan | D139 |  |  |  |  |
| D\_com058 | (Wage worker) In current job\_Have you ever taken out some money from retirement savings | D140 |  |  |  |  |
| D\_com059 | (Wage worker) In current job\_When was it (unit: yyyy+mm) | D141 |  |  |  |  |
| D\_com059y | (Wage worker) In current job\_When was it (unit: yyyy) | D141y |  |  |  |  |
| D\_com059m | (Wage worker) In current job\_When was it (unit: mm) | D141m |  |  |  |  |
| D\_com060 | (Wage worker) In current job\_The kind of retirement pension scheme | D142 |  |  |  |  |
| D\_com061 | (Wage worker) In current job\_A meal subsidy | D143 |  |  |  |  |
| D\_com062 | (Wage worker) In current job\_An education subsidy for children | D144 |  |  |  |  |
| D\_com063 | (Wage worker) In current job\_A mortgage for home purchase | D145 |  |  |  |  |
| D\_com064 | (Wage worker) In current job\_Subsidy for lost wages in the case of a union strike | D146 |  |  |  |  |
| D\_com065 | (Wage worker) In current job\_Support for insurance premium of personal pension | D147 |  |  |  |  |
| D\_com066 | (Wage worker) In current job\_Labor union of workplace | D148 |  |  |  |  |
| D\_com067 | (Wage worker) In current job\_Qualifications to join Labor union | D149 |  |  |  |  |
| D\_com068 | (Wage worker) In current job\_Joining current labor union | D150 |  |  |  |  |
| D\_com069 | (Wage worker) In current job\_Mandatory membership of labor union | D151 |  |  |  |  |
| D\_com070 | (Wage worker) In current job\_The reason for not joining a labor union | D152 |  |  |  |  |
| D\_com072 | (Wage worker) In current job\_Intention for joining a labor union if there is one | D154 |  |  |  |  |
| D\_com073 | (Wage worker) My job requires lots of physical effort | D155 | D229 | D319 |  |  |
| D\_com074 | (Wage worker) My job requires lifting heavy loads | D156 | D230 | D320 |  |  |
| D\_com075 | (Wage worker) My job requires stooping, kneeling, or crouching | D157 | D231 | D321 |  |  |
| D\_com076 | (Wage worker) My job requires good eyesight | D158 | D232 | D322 |  |  |
| D\_com077 | (Wage worker) My job requires intense concentration and attention to details | D159 | D233 | D323 |  |  |
| D\_com078 | (Wage worker) My job requires skill in dealing with people | D160 | D234 | D324 |  |  |
| D\_com079 | (Wage worker) My job requires me to work with computers | D161 | D235 | D325 |  |  |
| D\_com080 | (Wage worker) My job requires me to do more difficult things that it used to | D162 | D236 | D326 |  |  |
| D\_com081 | (Wage worker) Promotion is done on the basis of seniority in my company | D163 |  |  |  |  |
| D\_com082 | (Wage worker) My co-workers make older workers feel that they ought to retire before the retirement age | D164 |  |  |  |  |
| D\_com083 | (Wage worker) My employer would let older workers move to a less demanding job with less pay if they wanted to | D165 |  |  |  |  |
| D\_com084 | (Wage worker) The satisfaction of current wages | D166 | D237 |  |  |  |
| D\_com085 | (Wage worker) The job security of the current job | D167 | D238 |  |  |  |
| D\_com086 | (Wage worker) The satisfaction of work environment | D168 | D239 | D327 |  |  |
| D\_com087 | (Wage worker) The satisfaction of job specification | D169 | D240 | D328 |  |  |
| D\_com088 | (Wage worker) A lot of stress of current job | D170 | D241 | D329 |  |  |
| D\_com089 | (Wage worker) A general satisfaction of the current job | D171 | D242 | D330 |  |  |
| D\_com090 | (Wage worker) A level of work considering my educational background | D172 | D243 | D332 |  |  |
| D\_com091 | (Wage worker) A level of work considering my skills and expertise | D173 | D244 | D333 |  |  |
| D\_com092 | (Wage worker) Whether or not keeping the current job | D174 | D245 | D334 |  |  |
| D\_com093 | (Wage worker) The ideal employment status | D175 | D246 | D335 |  |  |
| D\_com094 | (Wage worker) The ideal occupational type | D176 | D247 | D336 |  |  |
| D\_com095 | (Wage worker) The minimum wages or salary that wanted (unit: 10,000won) | D177 | D248 | D337 |  |  |
| D\_com096 | (Wage worker) The ideal retirement age (unit: age) | D178 | D249 | D338 | D436 |  |
| D\_com097 | (Wage worker) Whether or not doing a second job | D179 | D250 | D339 |  |  |
| D\_com098 | (Wage worker) The number of jobs that include a main business | D180 | D251 | D340 |  |  |
| D\_com099 | (Wage worker) A reason for having other second job | D181 | D252 | D341 |  |  |
| D\_com101 | (Wage worker) Average working hours for a second job | D183 | D254 | D343 |  |  |
| D\_com102 | (Wage worker) The average amount of monthly income from a second job (post-tax) | D184 | D255 | D344 |  |  |
| D\_com102\_1 | (Wage worker) The average amount of monthly income from a second job (pre-tax) | D184  \_01 |  |  |  |  |
| D\_com103 | (Unpaid family worker) Contribution to family income-wise |  |  | D331 |  |  |
| D\_com104 | (Job seeker/ unemployed person) Job searching activity\_in the last one week |  |  |  | D401 |  |
| D\_com105 | (Job seeker/ unemployed person) Job searching activity\_in the last four weeks |  |  |  | D402 |  |
| D\_com106 | (Job seeker/ unemployed person) Possibility to start working if given to an appropriate job |  |  |  | D403 |  |
| D\_com107 | (Job seeker/ unemployed person) Intention to start working if given to an appropriate job |  |  |  | D404 |  |
| D\_com108 | (Job seeker/ unemployed person) The reason for not being able to work if given to an appropriate job |  |  |  | D405 |  |
| D\_com110 | (Job seeker/ unemployed person) The reason for not searching for a job despite want to get a job |  |  |  | D407 |  |
| D\_com112 | (Job seeker/ unemployed person) Job searching activity\_before the last four weeks |  |  |  | D409 |  |
| D\_com112\_1 | The number of job searching activities since the previous interview |  |  |  | D409  \_01 |  |
| D\_com113 | (Job seeker) A main reason looking for a job |  |  |  | D410 |  |
| D\_com115 | (Job seeker) Since last interview, the beginning time of 1st job searching (unit: yyyy+mm) |  |  |  | D412 |  |
| D\_com115y | (Job seeker) Since last interview, the beginning time of 1st job searching (unit: yyyy) |  |  |  | D412y |  |
| D\_com115m | (Job seeker) Since last interview, the beginning time of 1st job searching (unit: mm) |  |  |  | D412m |  |
| D\_com115\_1 | (Job seeker) Since last interview, the beginning time of 2nd job searching (unit: yyyy+mm) |  |  |  | D412  \_01 |  |
| D\_com115\_1y | (Job seeker) Since last interview, the beginning time of 2nd job searching (unit: yyyy) |  |  |  | D412  \_01y |  |
| D\_com115\_1m | (Job seeker) Since last interview, the beginning time of 2nd job searching (unit: mm) |  |  |  | D412  \_01m |  |
| D\_com116 | (Job seeker) Since last interview, the ending time of job searching (unit: yyyy+mm) |  |  |  | D413 |  |
| D\_com116y | (Job seeker) Since last interview, the ending time of job searching (unit: yyyy) |  |  |  | D413y |  |
| D\_com116m | (Job seeker) Since last interview, the ending time of job searching (unit: mm) |  |  |  | D413m |  |
| D\_com117 | (Job seeker) The weekly average of hours of job searching |  |  |  | D414 |  |
| D\_com118 | (Job seeker) Way of job searching(1 ranking) |  |  |  | D415 |  |
| D\_com120 | (Job seeker) Way of job searching(2 ranking) |  |  |  | D417 |  |
| D\_com122 | (Job seeker) The number of jobs found or offered during job searching period (unit: a number) |  |  |  | D419 |  |
| D\_com123 | (Job seeker) The reason for not taking the job despite of offer |  |  |  | D420 |  |
| D\_com125 | (Job seeker) The ideal employment status |  |  |  | D422 |  |
| D\_com126 | (Job seeker) The reason for choosing a part time job |  |  |  | D423 |  |
| D\_com128 | (Job seeker) The ideal occupational type\_industrial |  |  |  | D425 |  |
| D\_com129 | (Job seeker) The ideal occupational type\_occupational |  |  |  | D426 |  |
| D\_com130 | (Job seeker) The minimum wages or salary that wanted (unit: 10,000won) |  |  |  | D427 |  |
| D\_com131 | (Job seeker) The difficulty of seeking a job\_The shortage of job |  |  |  | D428 |  |
| D\_com132 | (Job seeker) The difficulty of seeking a job\_Not enough recruitment information around |  |  |  | D429 |  |
| D\_com133 | (Job seeker) The difficulty of seeking a job\_Education, skills, expertise weakness |  |  |  | D430 |  |
| D\_com134 | (Job seeker) The difficulty of seeking a job\_Experience shortage |  |  |  | D431 |  |
| D\_com135 | (Job seeker) The difficulty of seeking a job\_A few incomes of a job presented |  |  |  | D432 |  |
| D\_com136 | (Job seeker) The difficulty of seeking a job\_Imbalance of environmental work working hour |  |  |  | D433 |  |
| D\_com137 | (Job seeker) The difficulty of seeking a job\_Employment restriction by old age |  |  |  | D434 |  |
| D\_com138 | (Woman job seeker) The difficulty of seeking a job\_Employment restriction for a woman |  |  |  | D435 |  |
| D\_com139 | (A new retiree) Since last interview, the time of retirement (unit: yyyy+mm) |  |  |  |  | D501 |
| D\_com139y | (A new retiree) Since last interview, the time of retirement (unit: yyyy) |  |  |  |  | D501y |
| D\_com139m | (A new retiree) Since last interview, the time of retirement (unit: mm) |  |  |  |  | D501m |
| D\_com140 | (A new retiree) Retirement reason (1 ranking) |  |  |  |  | D502 |
| D\_com142 | (A new retiree) Retirement reason (2 ranking) |  |  |  |  | D504 |
| D\_com144 | (A new retiree) Whether or not had a spouse at retirement |  |  |  |  | D506 |
| D\_com145 | (A new retiree) The employment status of a spouse when R retired |  |  |  |  | D507 |
| D\_com147 | (Retiree) Satisfaction of retirement |  |  |  |  | D509 |
| D\_com148 | (Retiree) Comparison of before/after retirement |  |  |  |  | D510 |
| D\_com149 | Whether or not doing a second job for pay |  |  |  |  | D601 |
| D\_com150 | The type of a second job |  |  |  |  | D602 |
| D\_com151 | When have you start working on this job (unit: yyyy+mm) |  |  |  |  | D603 |
| D\_com152 | When have you start working on this job (unit: yyyy) |  |  |  |  | D603y |
| D\_com153 | When have you start working on this job (unit: mm) |  |  |  |  | D603m |
| D\_com154 | The average working days per week for a second job |  |  |  |  | D604 |
| D\_com155 | The average working hours per week for a second job |  |  |  |  | D605 |
| D\_com156 | The amount of monthly income from a second job |  |  |  |  | D606 |
| D\_com157 | Work for pay regardless of retirment\_intention to work |  |  |  |  | D607 |
| D\_com158 | Work for pay regardless of retirment\_the reason for intention |  |  |  |  | D608 |
| D\_com160 | Work for pay regardless of retirment\_ideal work type |  |  |  |  | D610 |
|  |  |  |  |  |  |  |

Raw variables used for each combined variable in Section D (Employment) (Wave 1)

| **Combined variables** | **Variable description** | **Wage worker** | **Self-employed** | **Unpaid family worker** | **Job seeker** | **Retiree** |
| --- | --- | --- | --- | --- | --- | --- |
| D\_com001 | (New self-employed) The most important reason for running a own business |  | D301 | D401 |  |  |
| D\_com014 | (New wage worker) Whether fixed or non-fixed contract | D116 |  |  |  |  |
| D\_com015 | (New wage worker) As for fixed, the duration of fixed contract (unit: months) | D117 |  |  |  |  |
| D\_com016 | (New wage worker) Whether or not contract has been renewed | D118 |  |  |  |  |
| D\_com017 | (New wage worker) As for non-fixed, work for a short-term(days/weeks) | D119 |  |  |  |  |
| D\_com018 | (New wage worker) Whether or not received written contract | D120 |  |  |  |  |
| D\_com019 | (New wage worker) Possibility of continuing the current work | D121 |  |  |  |  |
| D\_com020 | (New wage worker) The expected work period | D122 |  |  |  |  |
| D\_com021 | (New wage worker) The reason of the work period expected | D123 |  |  |  |  |
| D\_com023 | (New wage worker) In current job\_a source of wages | D125 |  |  |  |  |
| D\_com024 | (New wage worker) In current job\_whether the mandatory retirement age is set or not | D126 |  |  |  |  |
| D\_com025 | (New wage worker) In current job\_ the mandatory retirement age (unit : an age) | D127 |  |  |  |  |
| D\_com026 | (New wage worker) In current job\_ the conventional retirment existence | D128 |  |  |  |  |
| D\_com027 | (New wage worker) In current job\_ the conventional retirement age (unit : an age) | D129 |  |  |  |  |
| D\_com030 | (Wage worker) In current job\_regular working hour or not | D130 |  |  |  |  |
| D\_com031 | (Wage worker) In current job\_average a work day per week | D131 | D316 | D416 |  |  |
| D\_com032 | (Wage worker) In current job\_average working hours per week | D132 | D317 | D415 |  |  |
| D\_com035 | (Self-employed) In current business\_ the amount of monthly sales (unit : 10,000 won) |  | D315 | D413 |  |  |
| D\_com036 | (Self-employed) In current business\_ the estimated amount of monthly sales |  |  | D414 |  |  |
| D\_com038 | (Wage worker) In current job\_attitude towards the current working hours | D133 | D318 | D417 |  |  |
| D\_com039 | (Wage worker) In current job\_The current working hours are too long | D134 |  | D418 |  |  |
| D\_com040 | (Wage worker) In current job\_The % of hours that want to reduce from total working hours(unit: %) | D137 | D321 | D421 |  |  |
| D\_com041 | (Wage worker) In current job\_The % of acceptable pay cut (unit: %) | D139 | D322 |  |  |  |
| D\_com042 | (Wage worker) In current job\_The current working hours are too short |  | D326 | D422 |  |  |
| D\_com043 | (Wage worker) In current job\_The % of hours that want to increase from total working hours(unit: %) | D143 |  | D425 |  |  |
| D\_com044 | (Wage worker) In current job\_The % of expected pay increase(unit: %) | D144 | D332 |  |  |  |
| D\_com045 | (Wage worker) In current job\_A work holiday regular designation | D148 | D333 |  |  |  |
| D\_com046 | (Wage worker) In current job\_Days of paid vacation | D149 |  |  |  |  |
| D\_com047 | (Wage worker) In current job\_Days of paid sick leave | D150 |  |  |  |  |
| D\_com048 | (Wage worker) In current job\_Days of absence by health reasons | D151 | D334 | D427 |  |  |
| D\_com049 | (Wage worker) In current job\_The methods of wages payment | D152 |  |  |  |  |
| D\_com051 | (Wage worker) In current job\_Seniority-based wage | D154 |  |  |  |  |
| D\_com052 | (Wage worker) In current job\_Monthly salary(post-tax) | D155 |  |  |  |  |
| D\_com053 | (Wage worker) In current job\_Enrollment type in Public Pension | D156 |  |  |  |  |
| D\_com054 | (Wage worker) In current job\_Enrollment in the National Health Insurance | D157 |  |  |  |  |
| D\_com055 | (Wage worker) In current job\_Enrollment in the Unemployment Compensation Insurance | D158 |  |  |  |  |
| D\_com056 | (Wage worker) In current job\_Enrollment in the Industrial Accident Compensation Insurance | D159 |  |  |  |  |
| D\_com057 | (Wage worker) In current job\_The kind of retirement plan | D160 |  |  |  |  |
| D\_com058 | (Wage worker) In current job\_Have you ever taken out some money from retirement savings | D161 |  |  |  |  |
| D\_com059 | (Wage worker) In current job\_When was it (unit: yyyy+mm) | D162 |  |  |  |  |
| D\_com059y | (Wage worker) In current job\_When was it (unit: yyyy) | D162y |  |  |  |  |
| D\_com059m | (Wage worker) In current job\_When was it (unit: mm) | D162m |  |  |  |  |
| D\_com060 | (Wage worker) In current job\_The kind of retirement pension scheme | D163 |  |  |  |  |
| D\_com061 | (Wage worker) In current job\_A meal subsidy | D164 |  |  |  |  |
| D\_com062 | (Wage worker) In current job\_An education subsidy for children | D165 |  |  |  |  |
| D\_com063 | (Wage worker) In current job\_A mortgage for home purchase | D166 |  |  |  |  |
| D\_com064 | (Wage worker) In current job\_Subsidy for lost wages in the case of a union strike | D167 |  |  |  |  |
| D\_com065 | (Wage worker) In current job\_Support for insurance premium of personal pension | D168 |  |  |  |  |
| D\_com066 | (Wage worker) In current job\_Labor union of workplace | D169 |  |  |  |  |
| D\_com067 | (Wage worker) In current job\_Qualifications to join Labor union | D170 |  |  |  |  |
| D\_com068 | (Wage worker) In current job\_Joining current labor union | D171 |  |  |  |  |
| D\_com069 | (Wage worker) In current job\_Mandatory membership of labor union | D172 |  |  |  |  |
| D\_com070 | (Wage worker) In current job\_The reason for not joining a labor union | D173 |  |  |  |  |
| D\_com072 | (Wage worker) In current job\_Intention for joining a labor union if there is one | D175 |  |  |  |  |
| D\_com073 | (Wage worker) My job requires lots of physical effort | D176 | D335 | D428 |  |  |
| D\_com074 | (Wage worker) My job requires lifting heavy loads | D177 | D336 | D429 |  |  |
| D\_com075 | (Wage worker) My job requires stooping, kneeling, or crouching | D178 | D337 | D430 |  |  |
| D\_com076 | (Wage worker) My job requires good eyesight | D179 | D338 | D431 |  |  |
| D\_com077 | (Wage worker) My job requires intense concentration and attention to details | D180 | D339 | D432 |  |  |
| D\_com078 | (Wage worker) My job requires skill in dealing with people | D181 | D340 | D433 |  |  |
| D\_com079 | (Wage worker) My job requires me to work with computers | D182 | D341 | D434 |  |  |
| D\_com080 | (Wage worker) My job requires me to do more difficult things that it used to | D183 | D342 | D435 |  |  |
| D\_com081 | (Wage worker) Promotion is done on the basis of seniority in my company | D184 |  |  |  |  |
| D\_com082 | (Wage worker) My co-workers make older workers feel that they ought to retire before the retirement age | D185 |  |  |  |  |
| D\_com083 | (Wage worker) My employer would let older workers move to a less demanding job with less pay if they wanted to | D186 |  |  |  |  |
| D\_com084 | (Wage worker) The satisfaction of current wages | D187 | D343 |  |  |  |
| D\_com085 | (Wage worker) The job security of the current job | D188 | D344 |  |  |  |
| D\_com086 | (Wage worker) The satisfaction of work environment | D189 | D345 | D436 |  |  |
| D\_com087 | (Wage worker) The satisfaction of job specification | D190 | D346 | D437 |  |  |
| D\_com088 | (Wage worker) A lot of stress of current job | D191 | D347 | D438 |  |  |
| D\_com089 | (Wage worker) A general satisfaction of the current job | D192 | D348 | D439 |  |  |
| D\_com090 | (Wage worker) A level of work considering my educational background | D193 | D349 | D441 |  |  |
| D\_com091 | (Wage worker) A level of work considering my skills and expertise | D194 | D350 | D442 |  |  |
| D\_com092 | (Wage worker) Whether or not keeping the current job | D195 | D351 | D443 |  |  |
| D\_com093 | (Wage worker) The ideal employment status | D196 | D352 | D444 |  |  |
| D\_com095 | (Wage worker) The minimum wages or salary that wanted (unit: 10,000won) | D198 | D354 | D446 |  |  |
| D\_com096 | (Wage worker) The ideal retirement age (unit: age) | D199 | D355 | D447 | D530 |  |
| D\_com097 | (Wage worker) Whether or not doing a second job | D200 | D356 | D448 |  |  |
| D\_com098 | (Wage worker) The number of jobs that include a main business | D201 | D357 | D449 |  |  |
| D\_com099 | (Wage worker) A reason for having other second job | D202 |  |  |  |  |
| D\_com101 | (Wage worker) Average working hours for a second job | D204 | D360 |  |  |  |
| D\_com102 | (Wage worker) The average amount of monthly income from a second job (post-tax) | D205 | D361 |  |  |  |
| D\_com103 | (Unpaid family worker) Contribution to family income-wise |  |  | D440 |  |  |
| D\_com104 | (Job seeker/ unemployed person) Job searching activity\_in the last one week |  |  |  | D501 |  |
| D\_com105 | (Job seeker/ unemployed person) Job searching activity\_in the last four weeks |  |  |  | D502 |  |
| D\_com106 | (Job seeker/ unemployed person) Possibility to start working if given to an appropriate job |  |  |  | D503 |  |
| D\_com107 | (Job seeker/ unemployed person) Intention to start working if given to an appropriate job |  |  |  | D504 |  |
| D\_com108 | (Job seeker/ unemployed person) The reason for not being able to work if given to an appropriate job |  |  |  | D507 |  |
| D\_com110 | (Job seeker/ unemployed person) The reason for not searching for a job despite want to get a job |  |  |  | D505 |  |
| D\_com113 | (Job seeker) A main reason looking for a job |  |  |  | D509 |  |
| D\_com118 | (Job seeker) Way of job searching(1 ranking) |  |  |  | D511 |  |
| D\_com120 | (Job seeker) Way of job searching(2 ranking) |  |  |  | D513 |  |
| D\_com125 | (Job seeker) The ideal employment status |  |  |  | D520 |  |
| D\_com130 | (Job seeker) The minimum wages or salary that wanted (unit: 10,000won) |  |  |  | D521 |  |
| D\_com131 | (Job seeker) The difficulty of seeking a job\_The shortage of job |  |  |  | D522 |  |
| D\_com132 | (Job seeker) The difficulty of seeking a job\_Not enough recruitment information around |  |  |  | D523 |  |
| D\_com133 | (Job seeker) The difficulty of seeking a job\_Education, skills, expertise weakness |  |  |  | D524 |  |
| D\_com134 | (Job seeker) The difficulty of seeking a job\_Experience shortage |  |  |  | D525 |  |
| D\_com135 | (Job seeker) The difficulty of seeking a job\_A few incomes of a job presented |  |  |  | D526 |  |
| D\_com136 | (Job seeker) The difficulty of seeking a job\_Imbalance of environmental work working hour |  |  |  | D527 |  |
| D\_com137 | (Job seeker) The difficulty of seeking a job\_Employment restriction by old age |  |  |  | D528 |  |
| D\_com138 | (Woman job seeker) The difficulty of seeking a job\_Employment restriction for a woman |  |  |  | D529 |  |
| D\_com139 | (A new retiree) Since last interview, the time of retirement (unit: yyyy+mm) |  |  |  |  | D601 |
| D\_com139y | (A new retiree) Since last interview, the time of retirement (unit: yyyy) |  |  |  |  | D601y |
| D\_com139m | (A new retiree) Since last interview, the time of retirement (unit: mm) |  |  |  |  | D601m |
| D\_com140 | (A new retiree) Retirement reason (1 ranking) |  |  |  |  | D602 |
| D\_com142 | (A new retiree) Retirement reason (2 ranking) |  |  |  |  | D604 |
| D\_com144 | (A new retiree) Whether or not had a spouse at retirement |  |  |  |  | D606 |
| D\_com145 | (A new retiree) The employment status of a spouse when R retired |  |  |  |  | D607 |
| D\_com149 | Whether or not doing a second job for pay |  |  |  |  | D609 |
| D\_com151 | When have you start working on this job (unit: yyyy+mm) |  |  |  |  | D612 |
| D\_com152 | When have you start working on this job (unit: yyyy) |  |  |  |  | D612y |
| D\_com153 | When have you start working on this job (unit: mm) |  |  |  |  | D612m |
| D\_com154 | The average working days per week for a second job |  |  |  |  | D613 |
| D\_com155 | The average working hours per week for a second job |  |  |  |  | D614 |
| D\_com156 | The amount of monthly income from a second job |  |  |  |  | D615 |
| D\_com157 | Work for pay regardless of retirment\_intention to work |  |  |  |  | D616 |
| D\_com158 | Work for pay regardless of retirment\_the reason for intention |  |  |  |  | D617 |
| D\_com160 | Work for pay regardless of retirment\_ideal work type |  |  |  |  | D619 |
| D\_com162a | (Job seeker/retiree) A labor experience(wage worker, run a business, or unpaid family worker) |  |  |  | D531 | Set to “1” (All retirees responded) |
| D\_com163a | (Job seeker/retiree) An employment status of the recently quitted job |  |  |  |  | D701 |
| D\_com164a | (Job seeker/retiree) When did you start working for that job(unit: yyyy+mm) |  |  |  |  | D702 |
| D\_com165 | (Job seeker/retiree) When did you start working for that job(unit: yyyy) |  |  |  |  | D702y |
| D\_com166 | (Job seeker/retiree) When did you start working for that job(unit: mm) |  |  |  |  | D702m |
| D\_com167 | (Job seeker/retiree) When did you stop working for that job(unit: yyyy+mm) |  |  |  |  | D703 |
| D\_com168 | (Job seeker/retiree) When did you stop working for that job(unit: yyyy) |  |  |  |  | D703y |
| D\_com169 | (Job seeker/retiree) When did you stop working for that job(unit: mm) |  |  |  |  | D703m |
| D\_com170 | (Job seeker/retiree) The location of workplace |  |  |  |  | D706 |
| D\_com171 | (Job seeker/retiree) All the employees |  |  |  |  | D708 |
| D\_com172 | (Job seeker/retiree) The estimated all the employees (closest approximation) |  |  |  |  | D709 |
| D\_com173 | (Job seeker/retiree) Working hour type |  |  |  |  | D711 |
| D\_com174 | (Job seeker/retiree) Average working hours per week |  |  |  |  | D712 |
| D\_com175 | (Job seeker/retiree) Average monthly income |  |  |  |  | D713 |
| D\_com176 | (Job seeker/retiree) Enrollment type in public pension |  |  |  |  | D714 |
| D\_com177 | (Job seeker/retiree) Reason for stop working the most recent job |  |  |  |  | D715 |
| D\_com178 | (Job seeker/retiree) Reason for quitting the most recent job |  |  |  |  | D716 |
| D\_com180 | (Job seeker/retiree) Received or to expected legal retirement benefits |  |  |  |  | D718 |
| D\_com181 | (Job seeker/retiree) The expected amount of retirement benefits |  |  |  |  | D719 |
| D\_com182 | (Job seeker/retiree) The amount of retirement benefits actually received |  |  |  |  | D720 |
| D\_com183 | (Job seeker/retiree) The amount of extra retirement benefits aside form legal retirement benefits |  |  |  |  | D721 |