UK Data Service

Teaching Dataset

Health Survey for England 2011

User Guide

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Version: 1.0

Date: 23 August 2013

Contents

Introduction to the Health Survey for England (HSE), 2011

The *Health Survey for England* (HSE) series is designed to monitor trends in the nation's health. The study provides regular information that cannot be obtained from other sources on a range of aspects concerning the public's health and many of the factors that affect health. The 2011 Health Survey was commissioned by the Health and Social Care Information Centre and carried out by the Joint Health Surveys Unit of NatCen Social Research and the Department of Epidemiology and Public Health at UCL (University College London).

The HSE began in 1991 and has been carried our annually since then. The survey combines questionnaire-based answers with physical measurements and the analysis of blood samples. Blood pressure, height, weight, smoking, drinking and general health are covered every year. An interview each eligible person in the household is followed by a nurse visit. The interview is carried out face-to-face by a trained interviewer using a laptop computer. Some of the more sensitive topics are answered using self-completion for confidentiality reasons.

The survey focuses on different health issues each year, although a number of core questions are included every year. Topics are revisited at appropriate intervals in order to monitor change.

The main focus of the HSE in 2011 was cardiovascular disease. The survey also provided updates on core topics including smoking, drinking and fruit and vegetable consumption. Additional modules of questions were also included covering social care, chronic pain and well-being. A drinking diary designed to measure weekly consumption of alcohol was also included.

The HSE 2011 included a general population sample of adults and children, representative of the whole population at both national and regional level. For the sample, 8,992 addresses were randomly selected in 562 postcode sectors, issued over twelve months from January to December 2011. Where an address was found to have multiple dwelling units, one dwelling unit was selected at random and where there were multiple households at a dwelling unit, one household was selected at random.

In each selected household, all individuals were eligible for inclusion in the survey. Where there were three or more children aged 0-15 in a household, two of the children were selected at random. A nurse visit was arranged for all participants who consented.
A total of 8,610 adults aged 16 and over and 2,007 children aged 0-15 were interviewed. A household response rate of 66% was achieved for the core sample. Among the general population sample, 5,715 adults and 1,257 children had a nurse visit.

Height was measured for those aged two and over and weight for all participants. Nurses measured blood pressure (aged 5 and over) and waist and hip circumference (aged 11 and over). Non-fasting blood samples (for the analysis of total and HDL cholesterol and glycated haemoglobin) were collected from adults aged 16 and over. Saliva samples for cotinine analysis were collected from adults aged 16 and over and children aged 4-15. Nurses obtained written consent before taking samples from adults, and parents gave written consent for their children's samples. Consent was also obtained from adults to send results to their GPs, and from parents to send their children's results to their GPs.

More information about the 2011 HSE, including the questionnaire and detailed information about variables included in the dataset is available from the UK Data Service.

How to obtain the HSE 2011 Teaching Dataset

To access the HSE 2011 Teaching Dataset data, you must login/register with the UK Data Service. All users, including those outside the UK, can obtain a login – see login and registration help for details, including what to do if you have forgotten your login details. Registered users can download/order the dataset direct from the UK Data Service website via its catalogue search engine Discover, or via the HSE series page found under Get data> Key data.

The Teaching Dataset is available in two formats: SPSS and Stata.

SPSS: HSE2011.sav

Stata: HSE2011.dta

Data and variables within the dataset

The Teaching Dataset includes 56 variables. Most of the variables included within the dataset are individual variables, and require individual based analysis. However, there are a number of household-level variables such as *tenurb* and *hhsize*. The dataset contains a mix of discrete and continuous variables. All the variables are taken directly from the 2011 HSE dataset deposited at the UK Data Archive. The variable names correspond directly to those on the 2011 HSE dataset. A list and description of variables is given on page 6. Frequencies can be found of pages 12 to 32.

Weighting the dataset

The Teaching Dataset contains two weights called wt_int and wt_nurse.

Individual weight
For adults (aged 16 or more), the interview weights **wt_int** are a combination of the household weight and a component which adjusts the sample to reduce bias from individual non response within households.

Nurse weight
To take into account non-response to the nurse section of the survey, a nurse weight has been generated (*wt_nurse*) and should be used on all analysis of questions asked during the nurse visit.

Missing values within the dataset

A number of variables with the Teaching Dataset have negative values, for example -9, -8, -1 etc. or in the Stata dataset, dots i.e. '.' or '.a' . These are referred to as 'missing values. The missing values conventions for the 2011 HSE are:

Item (-1) and schedule (-2) not applicable: Used to signify that a particular variable did not apply to a given participant usually because of internal routing. For example, men in women only questions or self completion variables when the participant is not of the given age range to answer that particular self-completion booklet.

-8   Don't know, Can't say.

-9   No answer/ Refused.

It is often useful to run frequencies on the variables as a first stage in any analysis to examine the distribution of responses and the proportion of missing values. Missing values have been dealt with slightly differently within the two different versions of the Teaching Dataset.

Missing values in the SPSS Teaching Dataset (HSE2011.sav)

The SPSS Teaching Dataset has all missing responses such as -1, -2, -8 and -9 set as missing values.

Missing values in the Stata Teaching Dataset (HSE2011.dta)

The Stata Teaching Dataset includes all negative responses as valid responses. Stata has missing values indentified by a dot '.' and '.a' or '.b' for example for different kinds of missing values. You can turn any value into a missing value by using `mvdecode'.  For example to set -9 to the missing value .a for the variable `limitill' you would type the following: mvdecode limitill, mv(-9=.a)

List of variables in the Teaching Dataset

The following table lists the variables within the Teaching Dataset and gives a short description of each. A frequency count of each variable can be found on pages 12-28.

The Lists of Variables and Derived Variables on the HSE 2011 page of the UK Data Service website give more information about the derived variables used in the Teaching Dataset.

NB: the nurse visit takes place after the interview so the results of measurement such as blood pressure do not influence the responses during the interview.

1	hserial	Serial number of household Applies to all
2	pserial	Serial number of Individual Applies to all
3	HHSize	(D) Household size Applies to all. Derived automatically during the interview.
4	tenureb	Household tenure Applies to all. Questionnaire variable. Respondents given a showcard with the categories to choose from.
5	Sex	Sex Applies to all. Interviewer codes from observation during interview.
6	Age	Age last birthday Applies to all. Questionnaire variable
7	MonthAge	Age in months for infants under 1 Applies to all but includes a valid category for aged 2+
8	WeekAge	Age in weeks for infants under 2 years Applies to all but includes a valid category for aged 1+
9	PersNo	Person number Applies to all
10	topqual3	(D) Highest Educational Qualification Applies to aged 16 and over. Derived variable. Derived from qualification questions asked during the interview (which use showcards)
11	HRPID	Household Reference Person identifier Applies to all
12	econact	(D) Economic Status (4 groups) Applies to aged 16 and over. Derived variable. Derived from questions during the interview about activity status in the last 7 dyas, ability to start work and if been actively seeking work.
13	nssec8	(D) NS-SEC 8 variable classification (individual) Applies to all aged 16 and over. NS-SEC is coded during the edit stage and is derived from a number of questions asked during the interview.
14	Origin	Ethnic origin of individual Applies to all. Questionnaire variable. Respondents given a showcard with the categories to choose from.
15	totinc	(D) Total Household Income Applies if the Head of Household or their spouse/partner is

		answering the household grid on behalf of the household. Derived variable. Derived from questions during the interview about household income from specified income sources (uses showcards for income amounts)
16	eqvinc	(D) Equivalised Income The calculation of the equivalised income involves calculating a McClement score for each household (dependent on number, age, and relationship of adults and children in the household), and then dividing the total household income by this score to get an equivalised household income. The exact derivation is available in the data documents in the DOCUMENTATION section of the 2011 HSE catalogue page on the UK Data Service website.
17	NurOutc	Outcome of nurse visit Applies to all. Coded by interviewer after the nurse visit.
18	relto01	Relationship to person 1. Applies to all
19	relto02	Relationship to person 2. Applies to households with more than one person.
20	relto03	Relationship to person 3. Applies to households with more than two people.
21	relto04	Relationship to person 4. Applies to households with more than three people.
22	relto05	Relationship to person 5. Applies to households with more than four people.
23	relto06	Relationship to person 6. Applies to households with more than five people.
24	relto07	Relationship to person 7. Applies to households with more than six people.
25	relto08	Relationship to person 8. Applies to households with more than seven people.
26	relto09	Relationship to person 9. Applies to households with more than eight people.
27	Relto10	Relationship to person 10. Applies to households with more than nine people.
28	Relto11	Relationship to person 11. Applies to households with more than ten people.
29	Relto12	Relationship to person 12. Applies to households with more than eleven people.
30	ReltoHRP	Relationship to Household Reference Person. Applies to all
31	marstatc	(D) Marital status including cohabitees Applies to aged 16 and over. Derived variable. Derived from questionnaire variable `marital` and the relationship grid.
32	SHA	Strategic Health Authority Applies to all. Derived from sample address
33	gor1	Government Office Region - numeric
34	wt_int	HSE 2011 Weight for analysis of core interview sample
35	wt_nurse	hse 2011 Weight for analysis of core nurse sample
36	SayWgt	How views own weight Applies to age 8 and over. Questionnaire variable (self-completion booklet)
37	SayDiet	Whether trying to lose or gain weight Applies to age 8 and over. Questionnaire variable (self-completion booklet)

38	htval	(D) Valid height (cm) Applies to aged 2 and over Derived from measurement taken during the interviewer visit.
39	wtval	(D) Valid weight (Kg) inc. estimated>130kg Applies to aged 2 and over Derived from measurement taken during the interviewer visit.
40	bmival	(D) Valid BMI Applies to all Derived from measurement taken during the interviewer visit. See page 10 for more information about the BMI.
41	whval	(D) Valid Mean Waist/Hip ratio Applies to aged 16 and over. Derived from measurements taken during the nurse visit. See page 11 about the waist-hip ratio.
42	omdiaval	(D) Omron Valid Mean Diastolic BP Applies to people aged 5 and over who are not pregnant. Derived from measurement taken during the nurse visit. See page 10 for more about diastolic blood pressure.
43	omsysval	(D) Omron Valid Mean Systolic BP Applies to people aged 5 and over who are not pregnant. Derived from measurement taken during the nurse visit. See page 10 for more about systolic blood pressure.
44	dnnow	Whether drink nowadays Applies to aged 16 and over. Questionnaire variable.
45	totalwu	(D) Total units of alcohol/week Applies to aged 16 and over who drink nowadays. Derived variable. Derived from questions during the interview about specific types of alcoholic drinks the respondent had in the last week. One unit= e.g. half a pint, 1 glass of wine, a single measure of spirit.
46	porfv	(D) Total portion of fruit and vegetables yesterday Applies to age 5 and over. Derived variable. Derived from questions asked during the interview about fruit and vegetable intake yesterday (midnight to midnight yesterday)
47	acutill	(D) Acute sickness last two weeks Applies to all. Derived variable. Derived from questions during the interview about cutting down on normal activities in the last 2 weeks.
48	IllsM1	Type of illness - 1st Applies to those with a longstanding illness. Questionnaire variable.
49	IllsM2	Type of illness - 2nd Applies to those with a longstanding illness. Questionnaire variable.
50	IllsM3	Type of illness - 3rd Applies to those with a longstanding illness. Questionnaire variable.
51	IllsM4	Type of illness - 4th Applies to those with a longstanding illness. Questionnaire variable.
52	IllsM5	Type of illness - 5th Applies to those with a longstanding illness. Questionnaire variable.
53	IllsM6	Type of illness - 6th Applies to those with a longstanding illness. Questionnaire variable.
54	limitill	(D) Limiting longstanding illness Applies to all. Derived variable. Derived from questions asked during the interview.
55	medcnj	(D) Whether taking medication - excluding contraceptives only

		Applies to all aged 16 and over. Derived variable. Derived from the questions during the nurse visit about types of prescribed medicines currently taking. Drug names and dosage are recorded and coded during the visit.
56	genhelf2	(D) Self-assessed general health – grouped Applies to all. Questionnaire variable. Prompted with categories.
57	cigst1	(D) Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current Applies to aged 16 and over. Derived variable. Derived from questions during the interview (16-17 year olds complete a self-completion booklet, 18-25 year olds can complete a self-completion booklet at the interviewer's discretion)
58	cigst2	(D) Cigarette Smoking Status - Banded current smokers Applies to aged 16 and over. Derived variable. Derived from questions during the interview (16-17 year olds complete a self-completion booklet, 18-25 year olds can complete a self-completion booklet at the interviewer's discretion)

Definitions

Diastolic and Systolic Blood Pressure

Raised blood pressure is a risk factor for coronary heart disease and strokes in adults. Blood pressure I always given as two numbers, the systolic and diastolic pressures both are important. Systolic blood pressure is the peak blood pressure measurement taken when the heart squeezes as it beats. Diastolic blood pressure is the measurement taken when the heart relaxes and is filling up with blood (between beats).

Usually systolic and diastolic measurements are written one above or before the other, such as 120/80 mmHg. When the two measurements are written down, the systolic pressure is the first of top number, and the diastolic pressure is the second or bottom number (for example, 120.80). If your blood pressure is 120.80, you say that it is "120 over 80".[1]

Adults only HSE definition of blood pressure ratings			
For men aged less than 50 and all women			
Rating	*Systolic*		*Diastolic*
Normal	< 140	and	< 85
Mildly raised	140-159	or	85-99
Moderately raised	160-179	or	100-114
Considerably raised	180 and more	or	115 or more
Men aged 50 or over			
Rating	*Systolic*		*Diastolic*
Normal	< 160	and	< 95
Mildly raised	160-169	or	95-104
Moderately raised	170-179	or	105-114
Considerably raised	180 and more	or	115 or more

NB: < less than

Body Mass Index (BMI)

BMI is used to define overweight or obesity. However, BMI does not distinguish between body mass due to body fat and mass due to muscular physique. It also does not take account of the distribution of the fat. Adult informants in the 2011 HSE are classified into the following groups:

BMI	**Weight status**
Under 18.5	Underweight
18.5-24.9	Normal
25.0-29.9	Overweight
30.0 and above	Obese

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[1] http://www.lifeclinic.com/focus/blood/whatisit.asp

The BMI can be calculated using the following equation[2]:

$$BMI = \left(\frac{\text{Weight in Kilograms}}{(\text{Height in centimetres}) \times (\text{Height in centimetres})} \right) \times 10{,}000$$

For example, a person who weights 70 kilgrams and is 1.6 metres tall has a BMI of 27.3.

$$\left(\frac{70 \text{ kg}}{(160) \times (160)} \right) \times 10{,}000 = 27.3$$

There are no fixed BMI cut-off points defining overweight and obesity in children. Instead, overweight and obesity or defined using several other methods including age and sex-specific BMI cut-off values or fixed BMI percentiles cuts (e.g. the 85th percentile for overweight and the 95th for obesity) based on a population.

Waist-hip ratio (WHR)

The waist circumference divided by the hip circumference. WHR is a measure of deposition of abdominal fat (central obesity) and gives some indication of the distribution of fat on the body. The HSE classifies measurements of 0.95 or more in men and 0.85 or more in women as a raised WHR.

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[2] http://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/

Frequencies

```
----------------------------------------------------------------------------
-------------------
hserial                                                                Serial
number of household
----------------------------------------------------------------------------
-------------------

                type:  numeric (long)

               range:  [1001011,1562161]          units:  1
       unique values:  5338                       missing .:  0/10617

                mean:   1.3e+06
            std. dev:   162765

          percentiles:       10%       25%       50%       75%       90%
                          1.1e+06   1.1e+06   1.3e+06   1.4e+06   1.5e+06


----------------------------------------------------------------------------
-------------------
pserial                                                                Serial
number of Individual
----------------------------------------------------------------------------
-------------------

                type:  numeric (long)

               range:  [1.001e+08,1.562e+08]      units:  1
       unique values:  10617                      missing .:  0/10617

                mean:   1.3e+08
            std. dev:   1.6e+07

          percentiles:       10%       25%       50%       75%       90%
                          1.1e+08   1.1e+08   1.3e+08   1.4e+08   1.5e+08


----------------------------------------------------------------------------
-------------------
HHSize
(D) Household size
----------------------------------------------------------------------------
-------------------

                type:  numeric (byte)

               range:  [1,10]                      units:  1
       unique values:  10                          missing .:  0/10617

                mean:   2.85071
            std. dev:   1.36853

          percentiles:       10%       25%       50%       75%       90%
                            1         2         3         4         4


----------------------------------------------------------------------------
-------------------
tenureb
Household tenure
----------------------------------------------------------------------------
-------------------
```

```
             type:  numeric (byte)
            label:  TENUREB

            range:  [-9,5]                       units:  1
    unique values:  7                         missing .:  0/10617

        tabulation:  Freq.   Numeric  Label
                       30        -9  Refusal
                        5        -8  Don't Know
                     3015         1  Own it outright
                     4107         2  Buying it with the help of a
                                     mortgage or loan
                       65         3  Pay part rent and part mortgage
                                     (shared ownership)
                     3313         4  Rent it
                       82         5  Live here rent free (including
                                     rent free in relative s/frien
```


Sex
Sex


```
             type:  numeric (byte)
            label:  SEX

            range:  [1,2]                        units:  1
    unique values:  2                         missing .:  0/10617

        tabulation:  Freq.   Numeric  Label
                     4852         1  Male
                     5765         2  Female
```


Age
Age last birthday


```
             type:  numeric (byte)

            range:  [0,100]                      units:  1
    unique values:  99                        missing .:  0/10617

             mean:   41.5614
         std. dev:   23.832

       percentiles:       10%      25%      50%      75%      90%
                           7        22       42       61       73
```


MonthAge   Age in months
for infants under 1


```
             type:  numeric (byte)

            range:  [0,12]                       units:  1
    unique values:  13                        missing .:  0/10617

             mean:   11.9041
```

```
          std. dev:   .894406

        percentiles:        10%       25%       50%       75%       90%
                             12        12        12        12        12


--------------------------------------------------------------------------------
-------------------
WeekAge                                                          Age in weeks for
infants under 2 years
--------------------------------------------------------------------------------
-------------------

              type:  numeric (int)

             range:  [0,997]                       units:  1
     unique values:  100                       missing .:  0/10617

              mean:  971.844
          std. dev:  152.379

        percentiles:        10%       25%       50%       75%       90%
                            997       997       997       997       997


--------------------------------------------------------------------------------
-------------------
PersNo
Person number
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)

             range:  [1,10]                        units:  1
     unique values:  10                        missing .:  0/10617

              mean:  1.84628
          std. dev:  1.08203

        percentiles:        10%       25%       50%       75%       90%
                              1         1         2         2         3


--------------------------------------------------------------------------------
-------------------
topqual3                                                            (D) Highest
Educational Qualification
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  TOPQUAL3

             range:  [-1,7]                        units:  1
     unique values:  8                         missing .:  0/10617

         tabulation:  Freq.   Numeric  Label
                       2051        -1  Not applicable
                       2008         1  NVQ4/NVQ5/Degree or equiv
                        948         2  Higher ed below degree
                       1248         3  NVQ3/GCE A Level equiv
                       1803         4  NVQ2/GCE O Level equiv
                        395         5  NVQ1/CSE other grade equiv
                        127         6  Foreign/other
                       2037         7  No qualification


--------------------------------------------------------------------------------
-------------------
```

```
HRPID                                                         Household
Reference Person identifier
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  HRPID

             range:  [-1,2]                          units:  1
     unique values:  3                         missing .:  0/10617

         tabulation:  Freq.   Numeric  Label
                        14       -1  Item not applicable
                      4908        1  HRP
                      5695        2  NotHRP


--------------------------------------------------------------------------------
-------------------
econact                                                             (D)
Economic Status (4 groups)
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  ECONACT

             range:  [-9,4]                          units:  1
     unique values:  7                         missing .:  0/10617

         tabulation:  Freq.   Numeric  Label
                        22       -9  Refused
                         5       -8  Don't know
                      2022       -1  Not applicable
                      4624        1  In employment
                       398        2  ILO unemployed
                      2265        3  Retired
                      1281        4  Other economically inactive


--------------------------------------------------------------------------------
-------------------
nssec8                                       (D) NS-SEC 8 variable
classification (individual)
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  NSSEC8

             range:  [-9,99]                         units:  1
     unique values:  11                        missing .:  0/10617

          examples:  -1    Not applicable
                      2     Lower managerial and professional occupations
                      4     Small employers and own account workers
                      6     Semi-routine occupations


--------------------------------------------------------------------------------
-------------------
totinc                                                              (D)
Total Household Income
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  TOTINC
```

```
                   range:  [-1,97]                          units:  1
         unique values:  34                          missing .:  0/10617

               examples:  9      £13,000<£15,600
                          13     £23,400<£26,000
                          20     £46,800<£52,000
                          31     >=£150,000

----------------------------------------------------------------------------------
--------------------
eqvinc                                                                        (D)
Equivalised Income
----------------------------------------------------------------------------------
--------------------

                    type:  numeric (double)
                   label:  EQVINC, but 831 nonmissing values are not labeled

                   range:  [-90,262295.08]            units:  1.000e-06
         unique values:  833                          missing .:  0/10617

               examples:  -1     Item not applicable
                          13876.404
                          22727.273
                          41176.471

----------------------------------------------------------------------------------
--------------------
NurOutc
Outcome of nurse visit
----------------------------------------------------------------------------------
--------------------

                    type:  numeric (byte)
                   label:  LABA, but 10 nonmissing values are not labeled

                   range:  [-1,89]                          units:  1
         unique values:  11                          missing .:  0/10617

               examples:  81
                          81
                          81
                          81

----------------------------------------------------------------------------------
--------------------
relto01
Relationship to person 1
----------------------------------------------------------------------------------
--------------------

                    type:  numeric (byte)
                   label:  LABH

                   range:  [1,96]                           units:  1
         unique values:  17                          missing .:  0/10617

               examples:  2      Partner/cohabitee
                          3      Natural son/daughter
                          96     Self
                          96     Self

----------------------------------------------------------------------------------
--------------------
relto02
Relationship to person 2
```

```
--------------------------------------------------------------------------------
--------------------

                type:  numeric (byte)
               label:  LABH

               range:  [-1,96]                        units:  1
       unique values:  20                        missing .:  0/10617

            examples:  1      Husband/wife
                       2      Partner/cohabitee
                       3      Natural son/daughter
                       96     Self

--------------------------------------------------------------------------------
--------------------
relto03
Relationship to person 3
--------------------------------------------------------------------------------
--------------------

                type:  numeric (byte)
               label:  LABH

               range:  [-1,96]                        units:  1
       unique values:  21                        missing .:  0/10617

            examples:  -1     Not applicable
                       -1     Not applicable
                       8      Natural parent
                       13     Natural brother/sister


--------------------------------------------------------------------------------
--------------------
relto04
Relationship to person 4
--------------------------------------------------------------------------------
--------------------

                type:  numeric (byte)
               label:  LABH

               range:  [-1,96]                        units:  1
       unique values:  20                        missing .:  0/10617

            examples:  -1     Not applicable
                       -1     Not applicable
                       -1     Not applicable
                       8      Natural parent

--------------------------------------------------------------------------------
--------------------
relto05
Relationship to person 5
--------------------------------------------------------------------------------
--------------------

                type:  numeric (byte)
               label:  LABH

               range:  [-1,96]                        units:  1
       unique values:  20                        missing .:  0/10617

            examples:  -1     Not applicable
                       -1     Not applicable
                       -1     Not applicable
```

```
                              -1    Not applicable

-----------------------------------------------------------------------------------
--------------------
relto06
Relationship to person 6
-----------------------------------------------------------------------------------
--------------------

                  type:  numeric (byte)
                 label:  LABH

                 range:  [-1,96]                          units:  1
         unique values:  17                       missing .:  0/10617

             examples:  -1    Not applicable
                        -1    Not applicable
                        -1    Not applicable
                        -1    Not applicable

-----------------------------------------------------------------------------------
--------------------
relto07
Relationship to person 7
-----------------------------------------------------------------------------------
--------------------

                  type:  numeric (byte)
                 label:  LABH

                 range:  [-1,96]                          units:  1
         unique values:  14                       missing .:  0/10617

             examples:  -1    Not applicable
                        -1    Not applicable
                        -1    Not applicable
                        -1    Not applicable

-----------------------------------------------------------------------------------
--------------------
relto08
Relationship to person 8
-----------------------------------------------------------------------------------
--------------------

                  type:  numeric (byte)
                 label:  LABH

                 range:  [-1,96]                          units:  1
         unique values:  14                       missing .:  0/10617

             examples:  -1    Not applicable
                        -1    Not applicable
                        -1    Not applicable
                        -1    Not applicable

-----------------------------------------------------------------------------------
--------------------
relto09
Relationship to person 9
-----------------------------------------------------------------------------------
--------------------

                  type:  numeric (byte)
                 label:  LABH
```

```
                        range:  [-1,96]                         units:  1
                unique values:  7                          missing .:   0/10617

                   tabulation:  Freq.   Numeric  Label
                                10592       -1  Not applicable
                                    5        8  Natural parent
                                    2       13  Natural brother/sister
                                    1       18  Brother/sister-in-law
                                    4       20  Grandparent
                                    9       21  Other relative
                                    4       96  Self

-------------------------------------------------------------------------------
-------------------
Relto10
Relationship to person 10
-------------------------------------------------------------------------------
-------------------

                         type:  numeric (byte)
                        label:  LABH

                        range:  [-1,96]                         units:  1
                unique values:  8                          missing .:   0/10617

                   tabulation:  Freq.   Numeric  Label
                                10601       -1  Not applicable
                                    1        1  Husband/wife
                                    4        8  Natural parent
                                    1       13  Natural brother/sister
                                    1       18  Brother/sister-in-law
                                    2       20  Grandparent
                                    6       21  Other relative
                                    1       96  Self

-------------------------------------------------------------------------------
-------------------
Relto11
Relationship to person 11
-------------------------------------------------------------------------------
-------------------

                         type:  numeric (byte)
                        label:  LABH

                        range:  [-1,-1]                         units:  1
                unique values:  1                          missing .:   0/10617

                   tabulation:  Freq.   Numeric  Label
                                10617       -1  Not applicable

-------------------------------------------------------------------------------
-------------------
Relto12
Relationship to person 12
-------------------------------------------------------------------------------
-------------------

                         type:  numeric (byte)
                        label:  LABH

                        range:  [-1,-1]                         units:  1
                unique values:  1                          missing .:   0/10617

                   tabulation:  Freq.   Numeric  Label
                                10617       -1  Not applicable
```

```
--------------------------------------------------------------------------------
-------------------
ReltoHRP                                                  Relationship to
Household Reference Person
--------------------------------------------------------------------------------
-------------------

                type:  numeric (byte)
               label:  RELTOHRP

               range:  [1,96]                          units:  1
       unique values:  17                        missing .:  0/10617

             examples:  1     HusbWiOp
                        3     natural SonDtr
                        96    Self
                        96    Self


--------------------------------------------------------------------------------
-------------------
marstatc                                            (D) Marital status
including cohabitees
--------------------------------------------------------------------------------
-------------------

                type:  numeric (byte)
               label:  MARSTATC

               range:  [-9,7]                           units:  1
       unique values:  9                         missing .:  0/10617

           tabulation:  Freq.   Numeric  Label
                           2       -9    Refused
                        2007       -1    Not applicable
                        1613        1    Single
                        4501        2    Married
                           4        3    Civil partnership including
                                         spontaneous answers
                         224        4    Separated
                         594        5    Divorced
                         693        6    Widowed
                         979        7    Cohabitees


--------------------------------------------------------------------------------
-------------------
SHA
Strategic Health Authority
--------------------------------------------------------------------------------
-------------------

                type:  string (str9)

       unique values:  10                        missing "":  0/10617

             examples:  "E18000002"
                        "E18000004"
                        "E18000006"
                        "E18000008"


--------------------------------------------------------------------------------
-------------------
gor1                                                       Government
Office Region - numeric
--------------------------------------------------------------------------------
-------------------
```

```
                    type:  numeric (byte)
                   label:  GOR1

                   range:  [1,9]                          units:  1
           unique values:  9                         missing .:  0/10617

              tabulation:  Freq.   Numeric  Label
                            880         1  North East
                           1396         2  North West
                           1082         3  Yorkshire and The Humber
                            966         4  East Midlands
                           1093         5  West Midlands
                           1169         6  East of England
                           1254         7  London
                           1733         8  South East
                           1044         9  South West
```

----
wt_int   HSE 2011 Weight for analysis of
core interview sample


```
                    type:  numeric (double)

                   range:  [.32613146,6.6430175]     units:  1.000e-11
           unique values:  7353                      missing .:  0/10617

                    mean:        1
               std. dev:   .412372

             percentiles:       10%       25%       50%       75%       90%
                             .682865   .792003    .90377   1.10666   1.39701
```


SayWgt
How views own weight


```
                    type:  numeric (byte)
                   label:  SAYWGT

                   range:  [-9,3]                         units:  1
           unique values:  6                         missing .:  0/10617

              tabulation:  Freq.   Numeric  Label
                              5        -9  Refusal
                            173        -8  Don't Know
                           9883        -1  Item not applicable
                            420         1  About the right weight
                             83         2  Too heavy
                             53         3  Too light
```


SayDiet   Whether trying to
lose or gain weight


```
                    type:  numeric (byte)
                   label:  SAYDIET
```

```
              range:  [-9,3]                        units:  1
      unique values:  5                        missing .:  0/10617

        tabulation:  Freq.   Numeric  Label
                         5       -9  Refusal
                      9883       -1  Item not applicable
                       204        1  Trying to lose weight
                        59        2  Trying to gain weight
                       466        3  Not trying to change weight

--------------------------------------------------------------------------------
--------------------
htval                                                                       (D)
Valid height (cm)
--------------------------------------------------------------------------------
--------------------

               type:  numeric (double)
              label:  LABA, but 944 nonmissing values are not labeled

              range:  [-1,202.5]                   units:  .1
      unique values:  945                      missing .:  0/10617

           examples:  98.3
                      157.6
                      165.4
                      173.4

--------------------------------------------------------------------------------
--------------------
wtval                                                 (D) Valid weight (Kg)
inc. estimated>130kg
--------------------------------------------------------------------------------
--------------------

               type:  numeric (double)
              label:  LABA, but 1216 nonmissing values are not labeled

              range:  [-1,184.3]                   units:  .1
      unique values:  1217                     missing .:  0/10617

           examples:  14.1
                      59.2
                      72.1
                      85

--------------------------------------------------------------------------------
--------------------
bmival
(D) Valid BMI
--------------------------------------------------------------------------------
--------------------

               type:  numeric (double)
              label:  LABA, but 8196 nonmissing values are not labeled

              range:  [-1,65.277212]               units:  1.000e-10
      unique values:  8197                     missing .:  0/10617

           examples:  -1    Not applicable
                      21.763682
                      25.493607
                      29.329054
```

```
--------------------------------------------------------------------------------
-------------------
whval                                                            (D) Valid
Mean Waist/Hip ratio
--------------------------------------------------------------------------------
-------------------

                type:  numeric (double)
               label:  LABA, but 5738 nonmissing values are not labeled

               range:  [-1,1.3085956]               units:  1.000e-10
       unique values:  5739                    missing .:  0/10617

            examples:  -1    Not applicable
                       -1    Not applicable
                       .81198347
                       .90607735


--------------------------------------------------------------------------------
-------------------
omdiaval                                                         (D) Omron
Valid Mean Diastolic BP
--------------------------------------------------------------------------------
-------------------

                type:  numeric (float)
               label:  OMDIAVAL, but 142 nonmissing values are not labeled

               range:  [-8,122.5]                    units:  .1
       unique values:  145                     missing .:  0/10617

            examples:  -1    Not applicable
                       -1    Not applicable
                       62.5
                       74


--------------------------------------------------------------------------------
-------------------
omsysval                                                         (D) Omron
Valid Mean Systolic BP
--------------------------------------------------------------------------------
-------------------

                type:  numeric (float)
               label:  OMSYSVAL, but 221 nonmissing values are not labeled

               range:  [-8,203.5]                    units:  .1
       unique values:  224                     missing .:  0/10617

            examples:  -1    Not applicable
                       -1    Not applicable
                       109.5
                       126.5


--------------------------------------------------------------------------------
-------------------
dnnow
Whether drink nowadays
--------------------------------------------------------------------------------
-------------------

                type:  numeric (byte)
               label:  DNNOW

               range:  [-9,2]                        units:  1
       unique values:  4                       missing .:  0/10617
```

23

```
         tabulation: Freq.   Numeric  Label
                        20       -9  Refusal
                      2063       -1  Item not applicable
                      6712        1  Yes
                      1822        2  No

--------------------------------------------------------------------------------
-------------------
totalwu                                                          (D) Total
units of alcohol/week
--------------------------------------------------------------------------------
-------------------

               type:  numeric (double)
              label:  TOTALWU, but 2664 nonmissing values are not labeled

              range:  [-9,461.5]                 units:  .00001
      unique values:  2667                     missing .:  0/10617

           examples:  -1    Item not applicable
                      .174
                      3.808
                      14.115

--------------------------------------------------------------------------------
-------------------
porfv                                                            (D) Total
portion of fruit and veg
--------------------------------------------------------------------------------
-------------------

               type:  numeric (double)
              label:  LABAT, but 216 nonmissing values are not labeled

              range:  [-9,30]                    units:  1.000e-08
      unique values:  218                      missing .:  0/10617

           examples:  1
                      2.3333333
                      3.6666667
                      5.3333333

--------------------------------------------------------------------------------
-------------------
acutill                                                          (D) Acute
sickness last two weeks
--------------------------------------------------------------------------------
-------------------

               type:  numeric (byte)
              label:  ACUTILL

              range:  [-9,5]                     units:  1
      unique values:  7                        missing .:  0/10617

         tabulation: Freq.   Numeric  Label
                         5       -9  Refused
                         9       -8  Don't know
                      8959        1  No acute sickness
                       479        2  1-3 days
                       264        3  4-6 days
                       255        4  7-13 days
                       646        5  a full 2 weeks
```

```
--------------------------------------------------------------------------------
-------------------
IllsM1
Type of illness - 1st
--------------------------------------------------------------------------------
-------------------

                 type:  numeric (byte)
                label:  ILLSM1

                range:  [-1,41]                       units:  1
        unique values:  42                        missing .:  0/10617

             examples:  -1    Item not applicable
                        -1    Item not applicable
                        -1    Item not applicable
                        18    Other heart problems

--------------------------------------------------------------------------------
-------------------
IllsM2
Type of illness - 2nd
--------------------------------------------------------------------------------
-------------------

                 type:  numeric (byte)
                label:  ILLSM2

                range:  [-1,97]                       units:  1
        unique values:  43                        missing .:  0/10617

             examples:  -1    Item not applicable
                        -1    Item not applicable
                        -1    Item not applicable
                        36    Other problems of bones/joints/muscles

--------------------------------------------------------------------------------
-------------------
IllsM3
Type of illness - 3rd
--------------------------------------------------------------------------------
-------------------

                 type:  numeric (byte)
                label:  ILLSM3

                range:  [-1,97]                       units:  1
        unique values:  40                        missing .:  0/10617

             examples:  -1    Item not applicable
                        -1    Item not applicable
                        -1    Item not applicable
                        -1    Item not applicable

--------------------------------------------------------------------------------
-------------------
IllsM4
Type of illness - 4th
--------------------------------------------------------------------------------
-------------------

                 type:  numeric (byte)
                label:  ILLSM4

                range:  [-1,97]                       units:  1
        unique values:  37                        missing .:  0/10617
```

```
          examples: -1    Item not applicable
                     -1    Item not applicable
                     -1    Item not applicable
                     -1    Item not applicable

--------------------------------------------------------------------------------
--------------------
IllsM5
Type of illness - 5th
--------------------------------------------------------------------------------
--------------------

               type:  numeric (byte)
              label:  ILLSM5

              range:  [-1,97]                      units:  1
      unique values: 32                       missing .:  0/10617

          examples: -1    Item not applicable
                     -1    Item not applicable
                     -1    Item not applicable
                     -1    Item not applicable

--------------------------------------------------------------------------------
--------------------
IllsM6
Type of illness - 6th
--------------------------------------------------------------------------------
--------------------

               type:  numeric (byte)
              label:  ILLSM6

              range:  [-1,97]                      units:  1
      unique values: 30                       missing .:  0/10617

          examples: -1    Item not applicable
                     -1    Item not applicable
                     -1    Item not applicable
                     -1    Item not applicable

--------------------------------------------------------------------------------
--------------------
limitill                                                        (D) Limiting
longstanding illness
--------------------------------------------------------------------------------
--------------------

               type:  numeric (byte)
              label:  LIMITILL

              range:  [-9,3]                       units:  1
      unique values: 6                        missing .:  0/10617

          tabulation:  Freq.    Numeric  Label
                           1        -9   Refused
                           5        -8   Don't know
                        1648        -1   Not applicable
                        2168         1   Limiting LI
                        1609         2   Non limiting LI
                        5186         3   No LI

--------------------------------------------------------------------------------
--------------------
```

```
medcnj                                      (D) Whether taking medication - excluding
contraceptives only
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  MEDCNJ

             range:  [-1,3]                          units:  1
     unique values:  4                       missing .:  0/10617

        tabulation:  Freq.   Numeric  Label
                     3645        -1  Not applicable
                     3253         1  Yes
                     3712         2  No
                        7         3  Yes, but unable to code as name
                                      of drug(s) not available

--------------------------------------------------------------------------------
-------------------
genhelf2                                                  (D) Self-assessed
general health - grouped
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  GENHELF2, but 1 nonmissing value is not labeled

             range:  [-8,3]                          units:  1
     unique values:  4                       missing .:  0/10617

        tabulation:  Freq.   Numeric  Label
                        7        -8
                     8283         1  Very good/good
                     1695         2  Fair
                      632         3  Bad/very bad

--------------------------------------------------------------------------------
-------------------
cigst1                                      (D) Cigarette Smoking Status -
Never/Ex-reg/Ex-occ/Current
--------------------------------------------------------------------------------
-------------------

              type:  numeric (byte)
             label:  CIGST1

             range:  [-9,4]                          units:  1
     unique values:  7                       missing .:  0/10617

        tabulation:  Freq.   Numeric  Label
                       19        -9  Refused
                        3        -8  Don't know
                     2063        -1  Not applicable
                     4032         1  Never smoked cigarettes at all
                      440         2  Used to smoke cigarettes
                                      occasionally
                     2353         3  Used to smoke cigarettes
                                      regularly
                     1707         4  Current cigarette smoker

--------------------------------------------------------------------------------
-------------------
cigst2                                      (D) Cigarette Smoking Status -
Banded current smokers
```

```
--------------------------------------------------------------------------------
-------------------

            type:  numeric (byte)
           label:  CIGST2

           range:  [-9,5]                              units:  1
   unique values:  8                        missing .:  0/10617

     tabulation:  Freq.   Numeric  Label
                     18        -9  Refused
                      3        -8  Don't know
                   2063        -1  Not applicable
                    615         1  Light smokers, under 10 a day
                    714         2  Moderate smokers, 10 to under 20
                                   a day
                    369         3  Heavy smokers, 20 or more a day
                      9         4  Don't know number smoked a day
                   6826         5  Non-smoker
```