Health Survey for England

Health and lifestyles

'09

List of Variables

A survey carried out on behalf of The NHS Information Centre for health and social care

National Centre for Social Research
Department of Epidemiology and Public Health, UCL Medical School

Contents

Introduction

This document is the most sensible starting point to analysing the HSE data, as it categorises all the variables stored on the dataset to two levels, and it is therefore easier to see the coverage of questions asked at this summary level, rather than ploughing straight into the documentation of the questionnaires and self-completion booklets.

Once you have found the appropriate variables that you want to analyse, you then need to look at the other documentation to see in more detail exactly how the question was asked in the study, or how a derived variable has been defined.

The source of each variable is indicated in the final column of each table of variables with abbreviations as follows:

HHold	Household CAPI Questionnaire
Indiv	Individual CAPI Questionnaire
Nurse	Nurse CAPI Questionnaire
SC …	Self-Completion Booklet: SC 8-12, SC 13-15, SC YP, SC Adult or where a question appears in more than one booklet the range is widened (eg SC8-15, SC 16+)
Lab	Results from laboratory, ie from saliva or serum testing
ARF	Address Record Form completed for each issued address
NRF	Nurse Record Form completed for each household where at least one person had agreed to a nurse interview
Derived	A variable derived from other variables, and detailed in the Derived Variable Specification document

Classification

Household

Variable	Description	Source
SERIALH[1]	Serial number of household	Hhold
TOTTIME	Total Interview length in minutes.	Hhold
HQTIME	Total length of Household/Home Manager questionnaire in minutes.	Hhold
ADULTS	Number of persons aged 16+ in the household	Hhold
CHILDREN	Number of children aged 2-15 in the household.	Hhold
INFANTS	Number of infants under age 2 in the household	Hhold
HHLDR01	Accommodation owned/rented by person 1	Hhold
HHLDR02	Accommodation owned/rented by person 2	Hhold
HHLDR03	Accommodation owned/rented by person 3	Hhold
HHLDR04	Accommodation owned/rented by person 4	Hhold
HHLDR05	Accommodation owned/rented by person 5	Hhold
HHLDR06	Accommodation owned/rented by person 6	Hhold
HHLDR07	Accommodation owned/rented by person 7	Hhold
HHLDR08	Accommodation owned/rented by person 8	Hhold
HHLDR09	Accommodation owned/rented by person 9	Hhold
HHLDR10	Accommodation owned/rented by person 10	Hhold
HHLDR11	Accommodation owned/rented by person 11	Hhold
HHLDR12	Accommodation owned/rented by person 12	Hhold
HHLDR97	Accommodation not owned/rented by a household member	Hhold
TENUREB	Household tenure	Hhold
JOBACCOM	Does the accommodation go with the job of anyone in the household?	Hhold
LANDLORD	Who is your landlord	Hhold
FURN	Is the accommodation furnished	Hhold
BEDROOMS	Number of bedrooms in household	Hhold
PASSM	Persons smoking in accommodation	Hhold
NUMSM	Number of persons smoking in accommodation	Hhold
CAR	Car or van available	Hhold
NUMCARS	Number of cars available	Hhold
FINOUTC	Final outcome code	Hhold
HHDTYPB	(D) Household Type	Derived
HHSIZE	(D) Household Size	Derived

Individual

Variable	Description	Source
SERIALI[2]	Serial number of individual	Indiv
SEX	Sex	Hhold
AGE	Age last birthday	Hhold
DOBDAY*	Day of birth	Hhold
DOBMON*	Month of birth	Hhold
DOBYEAR*	Year of birth	Hhold
INDOUT	Individual outcome codes	Indiv
MONTHAGE	Age in months for infants under 1	Hhold
WEEKAGE	Age in weeks for infants under 2 years	Hhold
IRNDAGE	(D) Age at interview rounded to the nearest integer	Derived
NRNDAGE	(D) Age at nurse visit rounded to the nearest integer	Derived
AG16G10	(D) Age 16+ in ten year bands	Derived
AG16G20	(D) Age 16+ in twenty year age bands	Derived
AG65G5	(D) Age 65+ in five year age bands	Derived
AG015G2	(D) Age 0-15 in two year bands	Derived
AG215G2	(D) Age 2-15 in two year bands	Derived
AG215G3	(D) Age 2-15: Approx 3 year age bands	Derived

[1] Variable scrambled and renamed Hserial in archived dataset.

[2] Variable scrambled and renamed Pserial in archived dataset.

* Removed from dataset due to reasons of confidentiality.

AG415G3	(D) Age 4-15: 3 year age bands	Derived
AG515G3	(D) Age 5-15: Approx 3 year age bands	Derived
AG715G3	(D) Age 7-15: 3 year age bands	Derived

Admin

Variable	Description	Source
CHILD1	Person number of selected child 1	Hhold
CHILD2	Person number of selected child 2	Hhold
CHILD3	Person number of selected child 3	Hhold
PERSNO	Person number	Indiv
INTNUM	Interviewer number	Hhold
NHSCAN	Permission to pass name to NHSCR	Indiv
REINTER	Permission to contact for reinterview	Indiv
DINTB*	day of interview	Indiv
MINTB	Month of interview	Indiv
YINTB*	Year of interview	Indiv
ADRESP	Who answers on behalf of child U13	Indiv
NUMP	Number of respondents in this qu'aire. Only visible in test version.	Indiv
INTDAYW	(D) Weekday of individual interview	Derived
TNC_LAST	Total No. of calls from successful interviewer	Indiv
HHRESP	Who answers hhold grid	Hhold
HQRESP	Status of person answering grids.	Hhold
HHOLDER	Is this person mentioned at Hhlder?	Indiv
TNC_SUM	Total No. calls from all interviewers, including re-issues	Indiv

Booklet Admin

Variable	Description	Source
BOOKCHK	Aged 18 - 24: Asked about drinking/smoking or complete Young Adults S	Indiv
SCTYPE	Type of S/C offered	Indiv
SCREC	Self completion received	Indiv
SCOMP3	SC: booklet completed	Indiv
SC3ACC1	SC: Completed independently	Indiv
SC3ACC2	SC: Assistance from other children	Indiv
SC3ACC3	SC: Assistance from other household member	Indiv
SC3ACC4	SC: Assistance from interviewer	Indiv
SC3ACC5	SC: Interviewer administered SC booklet	Indiv
SCOMP600	SC refused: Child away from home during fieldwork period	Indiv
SCOMP601	SC refused: Eyesight problems	Indiv
SCOMP602	SC refused: Language problems	Indiv
SCOMP603	SC refused: Reading/writing/comprehension difficulties	Indiv
SCOMP604	SC refused: Bored/fed up/ tired	Indiv
SCOMP605	SC refused: Questions too sensitive/invasion of privacy	Indiv
SCOMP606	SC refused: Booklet too long/too busy/taken long enough already	Indiv
SCOMP607	SC refused: No other reason given	Indiv
SCOMP608	SC refused: Illness/disability (physical or mental)	Indiv
SCOMP609	SC refused: Child 2-12 asleep	
SCOMP610	SC refused: Not in/not available (for child 2-12, use codes 00 or 09 if possible)	
SCOMP611	SC refused: Proxy refusal	
SCOMP612	SC refused: No self completion booklet available	
SCOMP697	SC refused: Other reason	
SCOMP5a1	SC present: Spouse/partner	Indiv
SCOMP5a2	SC present: Parent(s) (incl step/foster)	Indiv
SCOMP5a3	SC present: Brother(s)/sister(s)	Indiv
SCOMP5a4	SC present: Own/related child(ren) (incl step/foster/partner's)	Indiv
SCOMP5a5	SC present: Other relative(s)	Indiv
SCOMP5a6	SC present: Unrelated adult(s)	Indiv
SCOMP5a7	SC present: Unrelated child(ren)	Indiv
SCOMP5a8	SC present: Interviewer	Indiv

* Removed from dataset due to reasons of confidentiality.

SCOMP5a9	SC present: No-one else present	Indiv
BOOKLET	(D) Which self-completion filled out	Derived

Education

Variable	Description	Source
EDUCEND	At what age did youname[PNo] finish hisher[PNo] continuous full-time	Indiv
QUALA01	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA02	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA03	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA04	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA05	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA06	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA07	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA08	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA09	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
QUALA10	Which of the qualifications on this card ldodoes[PNo] youname[PNo] ha	Indiv
TOPQUAL3	(D) Highest Educational Qualification	Derived
TOPQUAL2	(D) Highest Educational Qualification - Students separate	Derived

Employment Status

Variable	Description	Source
HRPSOC2[3]	SOC2000 (with dots)	Hhold
HRPSIC3[4]	HRP: SIC2003 Main activity of establishment (grouped A-G)	Hhold
STHNSSEC	NS-SEC Operational Catagories (hrp incl students)	Hhold
DVHRPNUM	Person number of household reference person	Hhold
HRPSOC90	HRP: Social class	Hhold
HRPACTIV	HRP: Activity status for last week	Hhold
HRPSTWK	HRP: Paid work in last 7 days	Hhold
HRP4WKLK	HRP:Looking for paid work/govt scheme in last 4 weeks	Hhold
HRP2WKST	HRP:Able to start work within 2 weeks	Hhold
HRPEVERJ	HRP:Ever had apid employment or self employed	Hhold
HRPOTHPD	HRP:Ever had other employment (waiting to take up job)	Hhold
HRPLONG	HRP:How long been looking for paid employment	Hhold
HRPPAYAG	HRP:Age when last had a paid job.	Hhold
HRPPYLST	HRP:Which year did you leave last paid job?	Hhold
HRPPAYMN	HRP:Which month in that year did you leave?	Hhold
HRPFTPT	HRP:Full time, part time	Hhold
HRPEMPLY	HRP:Whether employee/self employed	Hhold
HRPDIRCT	HRP:Director of company	Hhold
HRPEMPST	HRP:Manager/Foreman	Hhold
HRPNEMPL	HRP: number of employed at place of work	Hhold
HRPSNEMP	HRP:Do/did you have any employees?	Hhold
HRPSOCCL	Social Class	Hhold
HRPSEG	Socio-Economic Group	Hhold
HRPNSSEC	NS-SEC Operational Catagories (hrp)	Hhold
ACTIVB	Activity status for last week	Indiv
STWORK	Paid work in last 7 days	Indiv
I4WKLOOK	Looking paid work/govt scheme last 4 weeks	Indiv
I2WKSTRT	Able to start work within 2 weeks	Indiv
EVERJOB	Ever had paid employment or self-employed	Indiv
OTHPAID	Ever had other employment (waiting to start work)	Indiv
HOWLONG	How long have you been looking	Indiv
PAYAGE	Age when last had a paid job	Indiv
PAYLAST	Year left last paid job	Indiv
PAYMON	Month last left paid job	Indiv
FTPTIME	Full-time or part-time	Indiv
SCLASS	Social Class	Indiv

[3] Variable renamed HRPsoc2b in archived dataset

[4] Variable renamed HRPsic3b in archived dataset

SEG	Socio-Economic Group	Indiv
EMPLOYE	Whether employee/self employed	Indiv
DIRCTR	Director of company	Indiv
EMPSTAT	Manager/Foreman	Indiv
NEMPLEE	Number employed at place of work	Indiv
SNEMPLEE	Self employed, how many employees	Indiv
SOC2000[5]	SOC2000 (with dots)	Indiv
STNSSEC	NS-SEC - long version	Indiv
SOC90	SOC90 code	Indiv
SIC2003[6]	SIC2003 code	Indiv
NSSEC	NS-SEC - long version (harmonised)	Indiv
SCHRP	(D) Social Class of HRP - Harmonised	Derived
SCHRPG7	(D) Social Class of HRP - I,II,IIIN,IIIM,IV,V,Others	Derived
SCHRPG6	(D) Social Class of HRP - I,II,IIIN,IIIM,IV,V	Derived
SCHRPG4	(D) Social Class of HRP: I/II,IIINM,IIIM,IV/V	Derived
SCALLX	(D) Social Class of Indiv - Harmonised	Derived
SCALLXG2	(D) Soc Class of Indiv - Harmonised: Non-Man/Manual	Derived
ECONACT	(D) Economic Status (4 groups)	Derived
NSSEC8	(D) NS-SEC 8 variable classification (individual)	Derived
NSSEC5	(D) NS-SEC 5 variable classification (individual)	Derived
NSSEC3	(D) NS-SEC 3 variable classification (individual)	Derived
HPNSSEC8	(D) NS-SEC 8 variable classification (hrp)	Derived
HPNSSEC5	(D) NS-SEC 5 variable classification (hrp)	Derived
HPNSSEC3	(D) NS-SEC 3 variable classification (hrp)	Derived

Ethnicity

Variable	Description	Source
ORIGIN	Origin of individual	Indiv

Income

Variable	Description	Source
SRCIN01B	Income: Earnings from employment or self-employment	Hhold
SRCIN02B	Income: State retirement pension	Hhold
SRCIN03B	Income: Pension from former employer	Hhold
SRCIN04B	Income: Personal pensions	Hhold
SRCIN05B	Income: Child Benefit	Hhold
SRCIN06B	Income: Job-Seekers Allowance	Hhold
SRCIN07B	Income: Pension Credit	Hhold
SRCIN08B	Income: Income Support	Hhold
SRCIN09B	Income: Working Tax Credit	Hhold
SRCIN10B	Income: Child Tax Credit	Hhold
SRCIN11B	Income: Housing Benefit	Hhold
SRCIN12B	Income: Other state benefits	Hhold
SRCIN13B	Income: Interest from savings and investments (eg stocks & shares)	Hhold
SRCIN14B	Income: Other kinds of regular allowance from outside your household	Hhold
SRCIN15B	Income: No source of income	Hhold
OTHINC	Whether other income in household	Hhold
JNTINC	Joint income	Hhold
HHINC	Total household income	Hhold
EQVINC	(D) Equivalised Income	Derived
MCCLEM	(D) McClements household score for equivalised income	Derived
EQV3	(D) Equivalised Income Tertiles	Derived
EQV5	(D) Equivalised Income Quintiles	Derived
TOTINC	(D) Total Household Income	Derived

[5] Variable renamed Soc2000b in archived dataset.

[6] Variable renamed Sic2003b in archived dataset

Nurse Admin

Variable	Description	Source
NRFNO*	Nurse Number	Nurse
NUROUTC	Outcome of nurse visit	Nurse
NURSE	Agreed to nurse appointment (at individual interview)	Indiv
NURSERE0	Refused nurse: Own doctor already has information	Indiv
NURSERE1	Refused nurse: Given enough time already to this survey/expecting too much	Indiv
NURSERE2	Refused nurse: Too busy, cannot spare the time	Indiv
NURSERE3	Refused nurse: Had enough of medical tests/medical profession at present ti	Indiv
NURSERE4	Refused nurse: Worried about what nurse may find out	Indiv
NURSERE5	Refused nurse: Scared of medical profession/ particular medical procedures	Indiv
NURSERE6	Refused nurse: Not interested/Can't be bothered/No particular reason	Indiv
NURSERE7	Refused nurse: Other reason	Indiv
VISDAY*	Date of nurse interview, day	Nurse
VISMON	Date of nurse interview, month	Nurse
VISYEAR*	Date of nurse interview, year	Nurse
NURDAYW	(D) Weekday of nurse interview	Derived

Relationships

Variable	Description	Source
MARITALB	Marital status	Hhold
COUPLE	Living with anyone in this household	Hhold
LEGPAR	Parent/Legal guardian in hhold	Hhold
PAR1	Child's parent or legal responsibility for him/her	Hhold
PAR2	Other parent or legally responsible for him/her	Hhold
RELTO01	Relationship to person 01	Hhold
RELTO02	Relationship to person 02	Hhold
RELTO03	Relationship to person 03	Hhold
RELTO04	Relationship to person 04	Hhold
RELTO05	Relationship to person 05	Hhold
RELTO06	Relationship to person 06	Hhold
RELTO07	Relationship to person 07	Hhold
RELTO08	Relationship to person 08	Hhold
RELTO09	Relationship to person 09	Hhold
RELTO10	Relationship to person 10	Hhold
RELTO11	Relationship to person 11	Hhold
RELTO12	Relationship to person 12	Hhold
LIVEWITH	Cohabitee	Hhold
MARSTATC	(D) Marital status including cohabitees	Derived
NATPR1	(D) Relationship of child to parent or guardian	Derived
NATPR2	(D) Relationship of child to parent or guardian	Derived

Sample Info

Variable	Description	Source
SAMPTYPE	Sample type	Sample
FLDAREA*	Field area	Sample
TYPDWELA*	Dwelling type	Arf
URBAN	(D) Degree of urbanisation	Derived
IMD2007	(D) Index of multiple deprivation (SOA level) 2007	Derived
URINDEW*	Urban/Rural indicator	Sample
GOR07	Government Office Region	Sample
SHA	Strategic Health Authority	Sample
POINT[7]	Sample point number	Sample
ADDRESS[8]	Address number	Sample
HHOLD	Household	Sample

*Removed from dataset due to reasons of confidentiality.

[7] Variable scrambled and renamed PSU in archived dataset

[8] Variable scrambled and renamed ADDNUM in archived dataset.

STRATA[9]	Stratification level	Indiv
NOFHH	Number of households	Arf
PCTSPEAR*	(D) PCT Spearhead	Derived

Weighting

Variable	Description	Source
WT_CHILD	HSE 2009 Weight for analysis of child sample (boost & core)	Other
WT_CHSEL	HSE 2009 Selection weight for time series analysis of child sample	Other
WT_HHLD	HSE 2009 household level weight	Other
WT_INT	HSE 2009 Weight for analysis of core interview sample	Other
WT_NURSE	HSE 2009 Weight for analysis of core nurse sample	Other
WT_URINE	HSE 2009 Weight for analysis of core urine sample	Other
WT_BLOOD	HSE 2009 Weight for analysis of core blood sample	Other
WT_COTININE	HSE 2009 Weight for analysis of cotinine sample	Other
WT_RETEST	HSE 2009 Weight for analysis of core retested blood sample	Other

[9] Variable scrambled and renamed CLUSTER in archived dataset

Accidents

Attitudes To Cycling

Variable	Description	Source
CBICYCLE	Do you have bicycle	SC 8-12
CHELMA	Wear a bicycle helmet when riding	SC 8-12
CHELMB1	Wearing a helmet makes me feel safer when I ride a bike	SC 8-12
CHELMB2	I sometimes forget to put my helmet on	SC 8-12
CHELMB3	Bicycle helmets cost too much money	SC 8-12
CHELMB4	Helmets look good	SC 8-12
CHELMB5	It is difficult to get helmets to fit	SC 8-12
CHELMB6	Helmets can protect you if you have an accident	SC 8-12
CHELMB7	Wearing a helmet makes me feel like a proper cyclist	SC 8-12

Anthropometric Measurements

Birth

Variable	Description	Source
PRMATURE	Whether born prematurely	Indiv
PRWEEKS	Number of weeks born early	Indiv

Height/Weight Admin

RESPHTS	Response to height measurement	Indiv
RESNHI	Reason for refusal of height.	Indiv
EHTCH	Non proxy: Form in which estimated height given	Indiv
NOHTBX	Reason for not obtaining height measurement	Indiv
RELHITE	Is this height measurement reliable?	Indiv
HINREL	Why height unreliable	Indiv
RESPWTS	Response to weight measurement	Indiv
RESNWT	Refusal of weight measurement	Indiv
NOWTBX	Reason for not obtaining weight measurement	Indiv
EWTCH	Form in which estimated weight given	Indiv
FLOORC1	Scales placed on uneven floor	Indiv
FLOORC2	Scales placed on carpet	Indiv
FLOORC3	Scales placed on none of these	Indiv
RELWAITB	Weight measurement reliable	Indiv
STADNO	serial number of stadiometer	Indiv
SCLNO	serial number of scales	Indiv
SAYWGT	Given your age and height, would you say you are...	SC 8-15
SAYDIET	Are you trying to lose or gain weight?	SC 8-15
HTOK	(D) Whether height measure is valid	Derived
WTOK	(D) Whether weight measure is valid	Derived
BMIOK	(D) Whether bmi measure is valid	Derived

Measurements

Variable	Description	Source
HEIGHT	Height (cm) inc unreliable measurements	Indiv
ESTHT	Estimated height (cm)	Indiv
WEIGHT	Weight (kg) - inc unreliable measurements	Indiv
ESTWT	Estimated weight (cm)	Indiv
BIRTHWT	Birth weight (kg)	Indiv
WAIST1	Waist 1st measurement (cm)	Nurse
HIP1	Hip 1st measurement (cm)	Nurse
WAIST2	Waist 2nd measurement (cm)	Nurse
HIP2	Hip 2nd measurement (cm)	Nurse
WAIST3	Waist 3rd measurement (cm)	Nurse
HIP3	Hip 3rd measurement (cm)	Nurse
HTVAL	(D) Valid height (cm)	Derived
WTVAL	(D) Valid weight (Kg) inc. estimated>130kg	Derived
WSTVAL	(D) Valid Mean Waist (cm)	Derived
HIPVAL	(D) Valid Mean Hip (cm)	Derived
BMI	(D) BMI - inc unreliable measurements	Derived
BMIVAL	(D) Valid BMI	Derived
BMIVG5	(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+)	Derived
BMICAT1	(D) UK BMI national classification standards (85th/95th centile) 2008	Derived
BMICAT2	(D) BMI status (ovrght inc. obese) 2008	Derived
BMICAT3	(D) BMI status (non-obese vs obese) 2008	Derived
BMIWHO	(D) WHO 2007 BMI standards 2-4yrs (85th/95th centile)	Derived
BMIWHO1	(D) WHO 2007 BMI standards 2-4yrs (91st/98th centile)	Derived
WHVAL	(D) Valid Mean Waist/Hip ratio	Derived

MENWHGP	(D) Male waist hip ratio groups (adults)	Derived
MENWHHI	(D) Male high waist hip ratio	Derived
WOMWHGP	(D) Female waist hip ratio groups	Derived
WOMWHHI	(D) Female high waist hip ratio	Derived

Waist/Hip Admin

Variable	Description	Source
WHINTRO	Consent to waist/hip measurements	Nurse
RESPWH	Response to Waist/Hip measurements	Nurse
YNOWH	Reason no waist / hip measurements	Nurse
WHPNABM1	No waist/hip: Respondent is chairbound	Nurse
WHPNABM2	No waist/hip: Respondent is confined to bed	Nurse
WHPNABM3	No waist/hip: Respondent is too stooped	Nurse
WHPNABM4	No waist/hip: Respondent did not understand the procedure	Nurse
WHPNABM5	No waist/hip: Respondent is embarrassed/sensitive about their size	Nurse
WHPNABM6	No waist/hip: No time/busy/already spent enough time on this survey	Nurse
WHPNABM7	No waist/hip: Other reason	Nurse
WJREL	Whether problems with waist measurement	Nurse
PROBWJ	Problems likely to increase / decrease waist measurement	Nurse
HJREL	Whether problems with hip measurement	Nurse
PROBHJ	Problems likely to increase / decrease waist measurement	Nurse
WSTOKB	(D) Whether waist measurements are valid	Derived
HIPOKB	(D) Whether hip measurements are valid	Derived
WHOKB	(D) Whether waist/hip measure is valid	Derived

Blood Sample

Admin

Variable	Description	Source
BSOUTC	Outcome of blood sample	Nurse
BSOUTE	(D) Blood Sample Outcome	Derived
CLOTB	Whether has clotting disorder	Nurse
FIT	Whether ever had a fit	Nurse
BSWILL	Consent to blood sample	Nurse
SAMPF1	Plain red tube filled	Nurse
SAMPF2	EDTA purple tube filled	Nurse
SAMPF3	Citrate purple tube filled	Nurse
SAMPTAK	Blood sample outcome:	Nurse
SAMPARM	Which arm the blood was taken:	Nurse
SAMDIFC1	Blood sample prob: No problem	Nurse
SAMDIFC2	Blood sample prob: Incomplete sample	Nurse
SAMDIFC3	Blood sample prob: Collapsing/poor veins	Nurse
SAMDIFC4	Blood sample prob: Second attempt necessary	Nurse
SAMDIFC5	Blood sample prob: Some blood obtained, but respondent felt faint/fainted	Nurse
SAMDIFC6	Blood sample prob: Unable to use tourniquet	Nurse
SAMDIFC7	Blood sample prob: Other	Nurse
NOBSC1	No blood obtained: No suitable or no palpable vein/collapsed veins	Nurse
NOBSC2	No blood obtained: Respondent was too anxious/nervous	Nurse
NOBSC3	No blood obtained: Respondent felt faint/fainted	Nurse
NOBSC4	No blood obtained: Other	Nurse
GPSAM	Registered with GP	Nurse
SENDSAM	Permission to send results of blood sample to GP	Nurse
SENSAC1	Blood sample not to GP: Hardly/never sees GP	Nurse
SENSAC2	Blood sample not to GP: GP recently took blood sample	Nurse
SENSAC3	Blood sample not to GP: Does not want to bother GP	Nurse
SENSAC4	Blood sample not to GP: Other	Nurse
CONSTORB	Consent to store blood for future analysis	Nurse
SNDRSAM	Whether wants results of blood sample	Nurse
REFBSC1	Refused blood sample: Previous difficulties with venepuncture	Nurse
REFBSC2	Refused blood sample: Dislike/fear of needles	Nurse
REFBSC3	Refused blood sample: Respondent recently had blood test/health check	Nurse
REFBSC4	Refused blood sample: Refused because of current illness	Nurse
REFBSC5	Refused blood sample: Worried about HIV or AIDS	Nurse
REFBSC6	Refused blood sample: Other	Nurse
BLDTEST	(D) Blood retested after analyte complications (storage and amount remaining)	Derived
BLDDELAY	Number of days from taking sample to lab receiving bld	Lab

Measurements

Variable	Description	Source
CHOLOK	(D) Response to Total Cholesterol sample	Derived
CHOLVAL	(D) Valid Total Cholesterol Result	Derived
CHOLVAL1	(D) Valid Cholesterol Result (incl those on lld)	Derived
CHOLEST	Total cholesterol result (Blood data)	Lab
CHOLQUAL	Total cholesterol serum quality (Blood data)	Lab
HDLVAL	(D) Valid HDL Cholesterol Result	Derived
HDLVAL1	(D) Valid HDL Cholesterol Result (incl those on lld)	Derived
HDLCHOL	HDL Cholesterol result (Blood data)	Lab
HDLQUAL	HDL Cholesterol serum quality (Blood data)	Lab
HDLOK	(D) Response to HDL Cholesterol sample	Derived
GLYHBOK	(D) Response to Glycated HB sample	Derived
GLYHBVAL	(D) Valid Glycated HB Result	Derived
GLYHB	Glycated haemoglobin result (Blood data)	Lab
GLHBQUAL	Glycated haemoglobin serum quality (Blood data)	Lab
CRPOKB	(D) Response to C-reactive protein sample	Derived

CRPVAL2	(D) Valid C-reactive protein Result	Derived
CRPQUIN	(D) C-reactive protein quintile	Derived
CRPQUAL	C-reactive protein quality (Blood data)	Lab
CRPVAL	C-reactive protein result (Blood data)	Lab
CREOKB	(D) Response to Creatinine sample	Derived
CREVAL	(D) Valid Creatinine Result	Derived
CREAT	Creatinine result (Blood data)	Lab
CREQUAL	Creatinine quality (Blood data)	Lab
FEROKB	(D) Response to Ferritin sample	Derived
FERVAL	(D) Valid Ferritin Result	Derived
FERRITIN	Ferritin result (Blood data)	Lab
FERQUAL	Ferritin quality (Blood data)	Lab
HAEMOKB	(D) Response to Haemoglobin sample	Derived
HAEMVAL	(D) Valid Haemoglobin Result	Derived
HAEMOKB	Haemoglobin result (Blood data)	Lab
HAEMQUAL	Haemoglobin serum quality (Blood data)	Lab
FIBOKB	(D) Response to Fibrinogen sample	Derived
FIBVAL	(D) Valid Fibrinogen Result	Derived
FIBGEN	Fibrinogen result (Blood data)	Lab
FIBQUAL	Fibrinogen serum quality (Blood data)	Lab
HSEGFR	HSEGFR result (Blood data)	Lab
GFRQUAL	HSEGFR quality (Blood data)	Lab
FIBGEN	Fibrinogen result (Blood data)	Lab
FIBQUAL	Fibrinogen serum quality (Blood data)	Lab

Blood Pressure

Admin

Variable	Description	Source
BPCONST	Consent to give BP measurement	Nurse
CONSBX11	Eaten in last 30 mins	Nurse
CONSBX12	Smoked in last 30 mins	Nurse
CONSBX13	Drunk alcohol in last 30 mins	Nurse
CONSBX14	Exercised vigorously in last 30 mins	Nurse
CONSBX15	Nothing to effect BP in last 30 mins	Nurse
OMRONNO	Dinamap serial no	Nurse
CUFSIZE	Cuff size used	Nurse
AIRTEMP	Air temperature	Nurse
FULL1	Reliability of 1st set of BP readings	Nurse
FULL2	Reliability of 2nd set of BP readings	Nurse
FULL3	Reliability of 3rd set of BP readings	Nurse
YNOBP	Reason no BP measurements taken	Nurse
RESPBPS	Response to BP measurements	Nurse
NATTBP00	BP not obtained: Problems with PC	Nurse
NATTBP01	BP not obtained: Respondent upset/anxious/nervous	Nurse
NATTBP02	BP not obtained: Error 844 reading	Nurse
NATTBP03	BP not obtained: Respondent too shy	Nurse
NATTBP04	BP not obtained: Child would not sit still	Nurse
NATTBP05	BP not obtained: Problems with cuff fitting/painful	Nurse
NATTBP06	BP not obtained: Problems with equipment	Nurse
NATTBP95	BP not obtained: Other reason	Nurse
DIFBPC01	BP problems: No problems taking blood pressure	Nurse
DIFBPC02	BP problems: Reading on left arm as right arm not suitable	Nurse
DIFBPC03	BP problems: Respondent was anxious/upset/nervous	Nurse
DIFBPC04	BP problems: Problem with cuff fitting/painful	Nurse
DIFBPC05	BP problems: Omron problem (not error reading)	Nurse
DIFBPC06	BP problems: Omron error reading	Nurse
DIFBPC95	BP problems: Other problem	Nurse
GPREGB	Whether registered with a GP	Nurse
GPSEND	Consent to send BP readings to GP	Nurse
GPREFC1	BP not to GP: Hardly/never sees GP	Nurse
GPREFC2	BP not to GP: GP knows respondents BP	Nurse
GPREFC3	BP not to GP: Does not want to bother GP	Nurse
GPREFC4	BP not to GP: Other reason	Nurse
BPRESPC	(D) Whether BP readings are valid	Derived

Measurements

Variable	Description	Source
SYS1OM	1st Systolic reading(mmHg)	Nurse
DIAS1OM	1st Diastolic reading(mmHg)	Nurse
PULS1OM	1st pulse reading(bpm)	Nurse
MAP1OM	1st MAP reading(mmHg)	Nurse
SYS2OM	2nd Systolic reading(mmHg)	Nurse
DIAS2OM	2nd Diastolic reading(mmHg)	Nurse
PULS2OM	2nd pulse reading(bpm)	Nurse
MAP2OM	2nd MAP reading(mmHg)	Nurse
SYS3OM	3rd Systolic reading(mmHg)	Nurse
DIAS3OM	3rd Diastolic reading(mmHg)	Nurse
PULS3OM	3rd pulse reading(bpm)	Nurse
MAP3OM	3rd MAP reading(mmHg)	Nurse
OMDIAST	(D) Omron Diastolic BP (mean 2nd/3rd) inc. invalid	Derived
OMSYST	(D) Omron Systolic BP (mean 2nd/3rd) inc. invalid	Derived
OMMAP	(D) Omron Mean arterial pressure (mean 2nd/3rd) inc. invalid	Derived
OMPULS	(D) Omron Pulse pressure, systolic-diastolic inc. invalid	Derived

OMDIAVAL	(D) Omron Valid Mean Diastolic BP	Derived
OMSYSVAL	(D) Omron Valid Mean Systolic BP	Derived
OMMAPVAL	(D) Omron Valid Mean Arterial Pressure	Derived
OMPULVAL	(D) Omron Valid Pulse Pressure	Derived
DINADIAS	(D) Dinamap Diastolic BP (mean 2nd/3rd) inc. invalid (converted from Omron)	Derived
DINASYST	(D) Dinamap Systolic BP (mean 2nd/3rd) inc. invalid (converted from Omron)	Derived
DINAMAP	(D) Dinamap Mean arterial pressure (mean 2nd/3rd) inc. invalid (converted from Omron)	Derived
DINAPULS	(D) Dinamap Pulse pressure, systolic-diastolic inc. invalid (converted from Omron)	Derived
DIDIAVAL	(D) Dinamap Valid Mean Diastolic BP	Derived
DISYSVAL	(D) Dinamap Valid Mean Systolic BP	Derived
DIMAPVAL	(D) Dinamap Valid Mean Arterial Pressure	Derived
DIPULVAL	(D) Dinamap Valid Pulse Pressure	Derived
HYPER2OM	(D) Hypertensive categories: all taking BP drugs (Omron readings)	Derived
HIBP2OM	(D) Whether hypertensive: all taking BP drugs (Omron readings)	Derived
HYPER2DI	(D) Hypertensive categories: all taking BP drugs (Dinamap readings)	Derived
HIBP2DI	(D) Whether hypertensive: all taking BP drugs (Dinamap readings)	Derived
HY140OM	(D) Hypertensive categories:140/90: all prescribed drugs for BP (Omron readings)	Derived
HBP140OM	(D) Whether hypertensive:140/90: all prescribed drugs for BP (Omron readings)	Derived
HY140DI	(D) Hypertensive categories:140/90: all prescribed drugs for BP (Dinamap readings)	Derived
HBP140DI	(D) Whether hypertensive:140/90: all prescribed drugs for BP (Dinamap readings)	Derived
HYPER1OM	(D) Hypertensive categories: all prescribed drugs for BP (Omron readings)	Derived
HIBP1OM	(D) Whether hypertensive: all prescribed drugs for BP (Omron readings)	Derived
HYPER1DI	(D) Hypertensive categories: all prescribed drugs for BP (Dinamap readings)	Derived
HIBP1DI	(D) Whether hypertensive: all prescribed drugs for BP (Dinamap readings)	Derived
BP1	(D) Doctor diagnosed high blood pressure (excluding pregnant)	Derived

Drinking

Adult General

Variable	Description	Source
WHYTT	Reason why stopped drinking	Indiv
DDRINKAG	Age first alcoholic drink	SC YP
DNNOW	Whether drink nowadays	Indiv/SC YP
DNANY	Whether drinks occasionally or never drinks	Indiv/SC YP
DNEVR	Whether always non-drinker	Indiv/SC YP
DNOFT	Frequency drank any alcoholic drink last 12 mths	Indiv/SC YP
DNOFT3	(D) Frequency drink alcohol in past 12 months: including non-drinkers	Derived

Adult 7 Days

Variable	Description	Source
DRNKSAME	Whether drank more on a particular in last 7 days	indiv
WHICHDAY	Which day drank most in last 7	indiv
DRAMOUNT	Drink now compared to 5 years ago	indiv
D7DAY	Whether had drink in last 7 days	Indiv/SC YP
D7MANY	How many days in last 7 had a drink	Indiv/SC YP
NBRL71	Heaviest day normal beer: Half pints	Indiv
NBRL72	Heaviest day normal beer: Small cans	Indiv
NBRL73	Heaviest day normal beer: Large cans	Indiv
NBRL74	Heaviest day normal beer: Bottles	Indiv
NBERQHP7	Amount normal beer (half pints) on heaviest day	indiv
NBERQSM7	Amount normal beer (small cans/bottles) on heaviest day	Indiv/SC YP
NBERQLG7	Amount normal beer (large cans/bottles) on heaviest day	Indiv/SC YP
NBERQPT7	Amount normal beer (pints) on heaviest day	SC YP
NBERQBT7	Amount normal beer (bottles) on heaviest day	Indiv
L7NCODEQ	Normal beer bottle size (pints) - heaviest day	Indiv
SBRL71	Heaviest day strong beer: Half pints	Indiv
SBRL72	Heaviest day strong beer: Small cans	Indiv/SC YP
SBRL73	Heaviest day strong beer: Large cans	Indiv/SC YP
SBRL74	Heaviest day strong beer: Bottles	Indiv
SBERQHP7	Amount strong beer (half pints) on heaviest day	Indiv
SBERQSM7	Amount strong beer (small cans/bottles) on heaviest day	Indiv/SC YP
SBERQLG7	Amount strong beer (large cans/bottles) on heaviest day	Indiv/SC YP
SBERQPT7	Amount strong beer (pints) on heaviest day	SC YP
SBERQBT7	Amount strong beer (bottles) on heaviest day	Indiv
L7SCODEQ	Strong beer bottle size (pints) - heaviest day	indiv
D7TYP1	Heaviest day: Normal Beer	Indiv/SC YP
D7TYP2	Heaviest day: Strong Beer	Indiv/SC YP
D7TYP3	Heaviest day: Spirits	Indiv/SC YP
D7TYP4	Heaviest day: Sherry	Indiv/SC YP
D7TYP5	Heaviest day: Wine	Indiv/SC YP
D7TYP6	Heaviest day: Alcopops	Indiv/SC YP
SPIRQME7	Amount spirits (measures) on heaviest day	Indiv/SC YP
SHERQGS7	Amount sherry (glasses) on heaviest day	Indiv/SC YP
WGLS250ML	Amount wine (250ml glasses) on heaviest day	Indiv/SC YP
WGLS175ML	Amount wine (175ml glasses) on heaviest day	Indiv/SC YP
WGLS125ML	Amount wine (125ml glasses) on heaviest day	Indiv/SC YP
WBTLGZ	Amount wine (125ml glasses from a bottle) on heaviest day	Indiv/SC YP
POPSQSM7	Amount alcopops (small cans/bottles) on heaviest day	Indiv/SC YP
D7MANY3	(D) Number of days drank in last week, including none	Derived
D7UNITWG	(D) NEW Units drunk on heaviest day in last 7 (16+yrs, ONS wineglass)	Derived
D7UNITWGRP	(D) NEW units drunk on heaviest day in last 7 (16+yrs, ONS wineglass grouped)	Derived
WDRINK07B	(D) NEW Women number of units	Derived
MDRINK07B	(D) Men number of units	Derived
ALCLIMIT07B	(D) Alcohol units - limits based on (variable d7unitwgrp) units per day	Derived

Children 8-15

Variable	Description	Source
ADRPROP	Ever had proper alcoholic drink	SC 8-15
ADRPOPS	Ever had alcopops	SC 8-15
ADRINKAG	Age first alcoholic drink	SC 8-15
ADRINKOF	How often alcoholic drink	SC 8-15
ADRLAST	When last had alcoholic drink	SC 8-15

Children 13-15

Variable	Description	Source
ABER2W	Have drunk beer	SC 13-15
ABER2QPT	Pints beer drunk in last 7 days	SC 13-15
ABER2QLG	Large cans, bottles of beer drunk in last 7 days	SC 13-15
ABER2QSM	Small cans, bottles of beer drunk in last 7 days	SC 13-15
ASPIRW	Have you drunk spirits or liqueurs	SC 13-15
ASPIRQGS	Glasses of spirits and liqueurs drunk in last 7 days	SC 13-15
ASHERW	Have you drunk sherry	SC 13-15
ASHERQGS	Glasses of sherry or martini in last 7 days	SC 13-15
AWINEW	Have you drunk wine	SC 13-15
AWINEQGS	How many glasses of wine in last 7 days	SC 13-15
APOPSW	Alcoholic 'pops' drinks	SC 13-15
APOPSQLG	Large cans or bottles of alcoholic pops drinks in last 7 days	SC 13-15
APOPSQSM	Small cans or bottles of alcoholic pops drinks in last 7 days	SC 13-15
ADRKWQ08	(D) Total units of alcohol in last 7 days (13-15yrs)	Derived
ADRKWQ08G	(D) Total units of alcohol in last 7 days (13-15yrs) grouped	Derived
ABER2WC	(D) Drunk beer in last 7 days - inc. non-drinkers	Derived
ASPIRWC	(D) Drunk spirits in last 7 days - inc. non-drinkers	Derived
ASHERWC	(D) Drunk sherry in last 7 days - inc. non-drinkers	Derived
AWINEWC	(D) Drunk wine in last 7 days - inc. non-drinkers	Derived
APOPSWC	(D) Drunk alcopops in last 7 days - inc. non-drinkers	Derived

Fruit and Vegetable Consumption

Fruit and Vegetable Consumption		
Variable	**Description**	**Source**
VEGSAL	Whether ate salad yesterday	Indiv
VEGSALQ	Number of bowls of salad eaten yesterday	Indiv
VEGPUL	Were pulses eaten yesterday	Indiv
VEGPULQ	Number of tablespoons of pulses eaten yesterday	Indiv
VEGVEG	Were any vegetables eaten yesterday	Indiv
VEGVEGQ	Number of tablespoons of vegetables eaten yesterday	Indiv
VEGDISH	Any dishes made from mainly vegetables eaten yesterday	Indiv
VEGDISHQ	Number of tablespoons of vegetable dishes eaten yesterday	Indiv
VEGUSUAL	Ate more than usual amounts of vegetables, salad and pulses yesterday	Indiv
FRTDRNK	Drank any fruit juice yesterday	Indiv
FRTDRNKQ	Number of small glasses of fruit juice drank yesterday	Indiv
FRT	Was any fruit eaten yesterday	Indiv
FRTC01	Type of fruit	Indiv
FRTC02	Type of fruit	Indiv
FRTC03	Type of fruit	Indiv
FRTC04	Type of fruit	Indiv
FRTC05	Type of fruit	Indiv
FRTC06	Type of fruit	Indiv
FRTC07	Type of fruit	Indiv
FRTC08	Type of fruit	Indiv
FRTC09	Type of fruit	Indiv
FRTC10	Type of fruit	Indiv
FRTC11	Type of fruit	Indiv
FRTQ01	How much of this fruit was eaten yesterday?	Indiv
FRTQ02	How much of this fruit was eaten yesterday?	Indiv
FRTQ03	How much of this fruit was eaten yesterday?	Indiv
FRTQ04	How much of this fruit was eaten yesterday?	Indiv
FRTQ05	How much of this fruit was eaten yesterday?	Indiv
FRTQ06	How much of this fruit was eaten yesterday?	Indiv
FRTQ07	How much of this fruit was eaten yesterday?	Indiv
FRTQ08	How much of this fruit was eaten yesterday?	Indiv
FRTQ09	How much of this fruit was eaten yesterday?	Indiv
FRTQ10	How much of this fruit was eaten yesterday?	Indiv
FRTQ11	How much of this fruit was eaten yesterday?	Indiv
FRTMOR01	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR02	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR03	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR04	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR05	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR06	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR07	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR08	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR09	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR10	Was any other fresh fruit eaten yesterday?	Indiv
FRTMOR11	Was any other fresh fruit eaten yesterday?	Indiv
FRTDRY	Was any dried fruit eaten yesterday?	Indiv
FRTDRYQ	Number of tablesppons of dried fruit eaten yesterday	Indiv
FRTFROZ	Was any frozen or tinned fruit eaten yesterday?	Indiv
FRTFROZQ	Number of tablespoons of frozen or tinned fruit eaten yesterday	Indiv
FRTDISH	Any other dishes made mostly from fruit	Indiv
FRTDISHQ	Number of tablespoons of fruit dishes eaten yesterday	Indiv
FRTUSUAL	Ate/drank more than usual amounts of fruit and fruit juice yesterday	Indiv
PORPUL	(D) Portion of pulses	Derived
PORSAL	(D) Portion of salad	Derived
PORVEG	(D) Portion of vegetables	Derived
PORVDISH	(D) Portion of vegetables in composites	Derived
PORJUICE	(D) Portion of fruit juice	Derived
PORFRT	(D) Portion of all sized fruit	Derived

PORDRY	(D) Portion of dried fruit	Derived
PORFROZ	(D) Portion of frozen fruit/canned fruit	Derived
PORFDISH	(D) Portion of fruit in composites	Derived
VEGPOR	(D) Total portion of vegetables (inc.salad)	Derived
FRTPOR	(D) Total portion of fruit	Derived
PORFV	(D) Total portion of fruit and veg	Derived
PORFTVG	(D) Grouped portions of fruit (inc.orange juice) & veg yesterday	Derived

General Health

General Health

Variable	Description	Source
ACUTILL	(D) Acute sickness last two weeks	Derived
LASTFORT	Cut activities due to health (last 2 weeks)	Indiv
DAYSCUT	No. of days cut down on activities	Indiv
PREGNTJ	Whether currently pregnant 16+	Indiv
UPREG	Whether currently pregnant 10-15	Indiv

Diabetes

Variable	Description	Source
EVERDI	Do you now have, or have you ever had diabetes?	Indiv
DIABETES	Were you told by a doctor that you had diabetes?	Indiv
DIPREG	Can I just check, were you pregnant when you were told that you had d	Indiv
DIOTH	Have you ever had diabetes apart from when you were pregnant?	Indiv
DIAGE	Apart how old were you when you were first told by a doctor that you	Indiv
INSULIN	Do you currently inject insulin for diabetes?	Indiv
DIMED	Are you currently taking any medicines, tablets or pillsInsTxt for di	Indiv
OTHERDI1	Other treatment: Special diet	Indiv
OTHERDI2	Other treatment: Eye screening / regular eye tests	Indiv
OTHERDI3	Other treatment: Regular check-up with GP/hospital/clinic	Indiv
OTHERDI4	Other treatment: Other	Indiv
CHECKUP1	Where are checkups: GP surgery	Indiv
CHECKUP2	Where are checkups: Hospital	Indiv
CHECKUP3	Where are checkups: Clinic	Indiv
CHECKUP4	Where are checkups: Other	Indiv
WHYNOET	You did not mention regular eye tests for your diabetes. Is there any	Indiv
DIABETE2	Doctor diagnosed diabetes (excluding pregnant)	Derived
DIABTYPE	(D) Type of diabetes	Derived

Folic Acid (women only)

Variable	Description	Source
FOLIC	At present, are you taking any folic acid supplements such as Solgar	Indiv
FOLPREG	Did you start taking folic acid supplements before becoming pregnant?	Indiv
FOLPREG1	Have you been taking folic acid supplements for the first 12 weeks of	Indiv
FOLPREGH	People can take folic acid for various health reasons. Are you taking	Indiv

Longstanding Illness

Variable	Description	Source
LONGILL	Whether has longstanding illness	Indiv
ILLSM1	Type of illness - 1st	Indiv
ILLSM2	Type of illness - 2nd	Indiv
ILLSM3	Type of illness - 3rd	Indiv
ILLSM4	Type of illness - 4th	Indiv
ILLSM5	Type of illness - 5th	Indiv
ILLSM6	Type of illness - 6th	Indiv
LIMITACT	Activities limited due to illness	Indiv
LIMITILL	(D) Limiting longstanding illness	Derived
COMPM1	(D) II Neoplasms & benign growths	Derived
COMPM2	(D) III Endocrine & metabolic	Derived
COMPM3	(D) V Mental disorders	Derived
COMPM4	(D) VI Nervous system	Derived

COMPM5	(D) VI Eye complaints	Derived
COMPM6	(D) VI Ear complaints	Derived
COMPM7	(D) VII Heart & circulatory system	Derived
COMPM8	(D) VIII Respiratory system	Derived
COMPM9	(D) IX Digestive system	Derived
COMPM10	(D) X Genito-urinary system	Derived
COMPM11	(D) XII Skin complaints	Derived
COMPM12	(D) XIII Musculoskeletal system	Derived
COMPM13	(D) I Infectious disease	Derived
COMPM14	(D) IV Blood & related organs	Derived
COMPM15	(D) Other complaints	Derived
COMPM17	(D) No long-standing illness	Derived
COMPM18	(D) No longer present	Derived
COMPM99	(D) Unclass/NLP/inadeq.describe	Derived
CONDCNT	(D) Number of grouped condition categories	Derived
CONDCNT2	(D) Number of grouped conditions - 4 plus	Derived

Prescribed Medicines: Drugs affecting blood analytes

Variable	Description	Source
DIUR	(D) Diuretics (Blood pressure)	Derived
BETA	(D) Beta blockers (Blood pressure/Fibrinogen)	Derived
ACEINH	(D) Ace inhibitors(Blood pressure)	Derived
CALCIUMB	(D) Calcium blockers (Blood pressure)	Derived
OBPDRUG	(D) Other drugs affecting BP	Derived
LIPID	(D) Lipid lowering (Cholesterol/Fibrinogen)	Derived
IRON	(D) Iron deficiency (Haemoglobin/Ferritin)	Derived
BPMEDC	(D) Whether taking drugs affecting blood pressure	Derived
BPMEDD	(D) Whether taking drugs prescribed for blood pressure	Derived

Prescribed Medicines: General

Variable	Description	Source
MEDBIA1	Whether medicine used in last 7 days	Nurse
MEDBIA2	Whether medicine used in last 7 days	Nurse
MEDBIA3	Whether medicine used in last 7 days	Nurse
MEDBIA4	Whether medicine used in last 7 days	Nurse
MEDBIA5	Whether medicine used in last 7 days	Nurse
MEDBIA6	Whether medicine used in last 7 days	Nurse
MEDBIA7	Whether medicine used in last 7 days	Nurse
MEDBIA8	Whether medicine used in last 7 days	Nurse
MEDBIA9	Whether medicine used in last 7 days	Nurse
MEDBIA10	Whether medicine used in last 7 days	Nurse
MEDBIA11	Whether medicine used in last 7 days	Nurse
MEDBIA12	Whether medicine used in last 7 days	Nurse
MEDBIA13	Whether medicine used in last 7 days	Nurse
MEDBIA14	Whether medicine used in last 7 days	Nurse
MEDBIA15	Whether medicine used in last 7 days	Nurse
MEDBIA16	Whether medicine used in last 7 days	Nurse
MEDBIA17	Whether medicine used in last 7 days	Nurse
MEDBIA18	Whether medicine used in last 7 days	Nurse
MEDBIA19	Whether medicine used in last 7 days	Nurse
MEDBIA20	Whether medicine used in last 7 days	Nurse
MEDBIA21	Whether medicine used in last 7 days	Nurse
MEDBIA22	Whether medicine used in last 7 days	Nurse
MEDBI01	Names of medicines prescribed by doctor	Nurse
MEDBI02	Names of medicines prescribed by doctor	Nurse
MEDBI03	Names of medicines prescribed by doctor	Nurse
MEDBI04	Names of medicines prescribed by doctor	Nurse
MEDBI05	Names of medicines prescribed by doctor	Nurse
MEDBI06	Names of medicines prescribed by doctor	Nurse
MEDBI07	Names of medicines prescribed by doctor	Nurse

MEDBI08	Names of medicines prescribed by doctor	Nurse
MEDBI09	Names of medicines prescribed by doctor	Nurse
MEDBI10	Names of medicines prescribed by doctor	Nurse
MEDBI11	Names of medicines prescribed by doctor	Nurse
MEDBI12	Names of medicines prescribed by doctor	Nurse
MEDBI13	Names of medicines prescribed by doctor	Nurse
MEDBI14	Names of medicines prescribed by doctor	Nurse
MEDBI15	Names of medicines prescribed by doctor	Nurse
MEDBI16	Names of medicines prescribed by doctor	Nurse
MEDBI17	Names of medicines prescribed by doctor	Nurse
MEDBI18	Names of medicines prescribed by doctor	Nurse
MEDBI19	Names of medicines prescribed by doctor	Nurse
MEDBI20	Names of medicines prescribed by doctor	Nurse
MEDBI21	Names of medicines prescribed by doctor	Nurse
MEDBI22	Names of medicines prescribed by doctor	Nurse
MEDCNJD	Whether taking medication - excluding contraceptives only	Nurse
STATINS	Are you taking statins (drugs to lower cholesterol) bought over the co	Nurse
STATINA	Have you taken/used statins in the last 7 days?	Nurse
MEDCNJ	(D) Whether taking medication - excluding contraceptives only	Derived
MEDTYP1	(D) Cardio-vascular medicine taken?	Derived
MEDTYP2	(D) Gastrointestinal medicine taken?	Derived
MEDTYP3	(D) Respiratory medicine taken?	Derived
MEDTYP4	(D) CNS medicine taken?	Derived
MEDTYP5	(D) Medicine for infection taken?	Derived
MEDTYP6	(D) Endocrine medicine taken?	Derived
MEDTYP7	(D) Gynae/Urinary medicine taken?	Derived
MEDTYP8	(D) Cytotoxic medicine taken?	Derived
MEDTYP9	(D) Medicine for nutrition/blood taken?	Derived
MEDTYP10	(D) Musculoskeletal medicine taken?	Derived
MEDTYP11	(D) Eye/Ear etc medicine taken?	Derived
MEDTYP12	(D) Medicine for skin taken?	Derived
MEDTYP13	(D) Other medicine taken?	Derived
NUMED2	(D) Number of prescribed medicines taken	Derived
NUMED	(D) Number of prescribed medicines taken (grouped 4+)	Derived

Prescribed Medicines: Reasons for taking medication

Variable	Description	Source
YTAKE011	Heart problem	Indiv
YTAKE021	Heart problem	Indiv
YTAKE031	Heart problem	Indiv
YTAKE041	Heart problem	Indiv
YTAKE051	Heart problem	Indiv
YTAKE061	Heart problem	Indiv
YTAKE071	Heart problem	Indiv
YTAKE081	Heart problem	Indiv
YTAKE091	Heart problem	Indiv
YTAKE101	Heart problem	Indiv
YTAKE111	Heart problem	Indiv
YTAKE121	Heart problem	Indiv
YTAKE131	Heart problem	Indiv
YTAKE141	Heart problem	Indiv
YTAKE151	Heart problem	Indiv
YTAKE161	Heart problem	Indiv
YTAKE171	Heart problem	Indiv
YTAKE181	Heart problem	Indiv
YTAKE191	Heart problem	Indiv
YTAKE201	Heart problem	Indiv
YTAKE211	Heart problem	Indiv
YTAKE221	Heart problem	Indiv
YTAKE012	High blood pressure	Indiv
YTAKE022	High blood pressure	Indiv
YTAKE032	High blood pressure	Indiv

YTAKE042	High blood pressure	Indiv
YTAKE052	High blood pressure	Indiv
YTAKE062	High blood pressure	Indiv
YTAKE072	High blood pressure	Indiv
YTAKE082	High blood pressure	Indiv
YTAKE092	High blood pressure	Indiv
YTAKE102	High blood pressure	Indiv
YTAKE112	High blood pressure	Indiv
YTAKE122	High blood pressure	Indiv
YTAKE132	High blood pressure	Indiv
YTAKE142	High blood pressure	Indiv
YTAKE152	High blood pressure	Indiv
YTAKE162	High blood pressure	Indiv
YTAKE172	High blood pressure	Indiv
YTAKE182	High blood pressure	Indiv
YTAKE192	High blood pressure	Indiv
YTAKE202	High blood pressure	Indiv
YTAKE212	High blood pressure	Indiv
YTAKE222	High blood pressure	Indiv
YTAKE013	Other reason	Indiv
YTAKE023	Other reason	Indiv
YTAKE033	Other reason	Indiv
YTAKE043	Other reason	Indiv
YTAKE053	Other reason	Indiv
YTAKE063	Other reason	Indiv
YTAKE073	Other reason	Indiv
YTAKE083	Other reason	Indiv
YTAKE093	Other reason	Indiv
YTAKE103	Other reason	Indiv
YTAKE113	Other reason	Indiv
YTAKE123	Other reason	Indiv
YTAKE133	Other reason	Indiv
YTAKE143	Other reason	Indiv
YTAKE153	Other reason	Indiv
YTAKE163	Other reason	Indiv
YTAKE173	Other reason	Indiv
YTAKE183	Other reason	Indiv
YTAKE193	Other reason	Indiv
YTAKE203	Other reason	Indiv
YTAKE213	Other reason	Indiv
YTAKE223	Other reason	Indiv

Self-Assessed Health

Variable	Description	Source
GENHELF	Self-assessed general health	Indiv
GENHELF2	(D) Self-assessed general health - grouped	Derived

Personal Care Plans

Variable	Description	Source
CONVDOC	Had conversation with doctor/nurse etc about your long term condition?	Indiv
LASTYR	Was this in the last 12 months or longer ago?	Indiv
PLANAG	In last 12 months have you and a health professional agreed a PCP?	Indiv
OFFPLAN	Have you talked about a Personal Care Plan with a health care profess	Indiv
WHYNOPL	Why have you not agreed a Personal Care Plan after discussing it? Is	Indiv
LIKEPLAN	Would you like to discuss a PCP with health professional?	Indiv
CAREIMPR	Has your PCP improved the health and social care services you receive?	Indiv
OPTOFF01	In last 12mths have you discussed or been offered: help to find information on condition	Indiv
OPTOFF02	In last 12mths have you discussed or been offered: help to find choices on care	Indiv
OPTOFF03	In last 12mths have you discussed or been offered: attending training courses on	Indiv

	condition	
OPTOFF04	In last 12mths have you discussed or been offered: joining support network/group	Indiv
OPTOFF05	In last 12mths have you discussed or been offered: having equipment fitted at home	Indiv
OPTOFF95	In last 12mths have you discussed or been offered: other	Indiv
OPTOFF96	In last 12mths have you discussed or been offered: none of these	Indiv
OPTDO01	In last 12mths have you actually done: read and used information on condition	Indiv
OPTDO02	In last 12mths have you actually done: read and used information on care choices	Indiv
OPTDO03	In last 12mths have you actually done: attended training courses on condition	Indiv
OPTDO04	In last 12mths have you actually done: joined support network/group	Indiv
OPTDO05	In last 12mths have you actually done: have equipment fitted at home	Indiv
OPTDO95	In last 12mths have you actually done: other	Indiv
OPTDO96	In last 12mths have you actually done: none of these	Indiv
PCAREP	(D) Been offered a personal care plan?	Derived

Kidney Disease

Variable	Description	Source
EVERKIDD	Do you now or have you ever had chronic kidney disease?	Indiv
FAMKIDD	Do any close relatives have or ever had chronic kidney disease?	Indiv
RISKKID	Ever been told by doctor/health care professional that you are at risk of kidney disease?	Indiv
DOCINFO2	Were you told by doctor that you had kidney disease?	Indiv
AGEINFO2	How old were you when you were 1st told by doctor that you had kidney disease?	Indiv
KIDTEST	Ever been told being tested for kidney disease?	Indiv
WHKTEST	When were you (last) tested for kidney disease? Was it... READ OUT...	Indiv
WHTTEST1	Kidney disease test: Blood test	Indiv
WHTTEST2	Kidney disease test: Urine test	Indiv
WHTTEST3	Kidney disease test: Scan	Indiv
WHTTEST4	Kidney disease test: Other test	Indiv
WHTTEST5	Kidney disease test: Can't remember	Indiv
BLDRES	At most recent blood test were you told your percentage (eGFR)?	Indiv
URTEST1	Urine test for kidney: Blood	Indiv
URTEST2	Urine test for kidney: Protein	Indiv
URTEST3	Urine test for kidney: Neither	Indiv
URTEST4	Urine test for kidney: Don't know	Indiv
MEDKIDD	Are you currently taking any medicines, tablets or pills for kidney d	Indiv
ADVKIDD	Are you receiving other treatment?	Indiv
KIDDC01	Kidney disease treatment: Diet	Indiv
KIDDC02	Kidney disease treatment: GP check-ups	Indiv
KIDDC03	Kidney disease treatment: Hospital check-ups	Indiv
KIDDC04	Kidney disease treatment: Regular dialysis	Indiv
KIDDC95	Kidney disease treatment: Other	Indiv
KIDDIAG	(D) Doctor diagnosed kidney disease	Derived
EGFRGP4	(D) eGFR in 4 categories	Derived
EGFRGP6	(D) eGFR in 6 categories	Derived
EGFRGP7	(D) eGFR in 7 categories	Derived
ALBCREGP	(D) Urinary albumin excretion grouped	Derived
KIDFAIL	(D) Chronic disease stage	Derived
KIDFAILGP	(D) Chronic disease stage (grouped)	Derived

GHQ12

Variable	Description	Source
GHQCONC	GHQ: Able to concentrate	SC 13+
GHQSLEEP	GHQ: Lost sleep over worry	SC 13+
GHQUSE	GHQ: Felt playing useful part in things	SC 13+
GHQDECIS	GHQ: Felt capable of making decisions	SC 13+
GHQSTRAI	GHQ: Felt constantly under strain	SC 13+
GHQOVER	GHQ: Felt couldn't overcome difficulties	SC 13+
GHQENJOY	GHQ: Able to enjoy day-to-day activities	SC 13+
GHQFACE	GHQ: Been able to face problems	SC 13+

GHQUNHAP	GHQ: Been feeling unhappy and depressed	SC 13+
GHQCONFI	GHQ: Been losing confidence in self	SC 13+
GHQWORTH	GHQ: Been thinking of self as worthless	SC 13+
GHQHAPPY	GHQ: Been feeling reasonably happy	SC 13+
GHQ12SCR	(D) GHQ Score - 12 point scale	Derived
GHQG2	(D) GHQ Score - grouped (0,1-3,4+)	Derived

Cardiovascular Disease

Variable	Description	Source
EVERBP	Do you have or ever had high blood pressure (hypertension)	Indiv
DOCBP	Were you told by a doctor/nurse that you had high BP?	Indiv
PREGBP	Were you pregnant whe you were told you had high BP?	Indiv
OTHBP	Have you had high BP apart from when pregnant?	Indiv
AGEBP	Age told had high BP?	Indiv
MEDBP	Are you currently taking any medicines, tablets or pills for high BP?	Indiv
BPSTILL	Do you still have high blood pressure?	Indiv
EVERMED	Have you @Iever@I taken medicines, tablets, or pills for high blood p	Indiv
STPMED01	Stop BP medication: Doctor's advised to, improvement	Indiv
STPMED02	Stop BP medication: Doctor's advised to, lack of improvement	Indiv
STPMED03	Stop BP medication: Other problem	Indiv
STPMED04	Stop BP medication: Respondent decided to stop, felt better	Indiv
STPMED05	Stop BP medication: Respondent decided to stop, other reason	Indiv
STPMED95	Stop BP medication: other reason	Indiv
OTHADV	Are you receiving any other treatment/advice for high BP?	Indiv
WHTTRT01	Other treatment/advice currently receiving: Blood pressure monitored by GP/other doctor/nurse	Indiv
WHTTRT02	Other treatment/advice currently receiving: Advice or treatment to lose weight	Indiv
WHTTRT03	Other treatment/advice currently receiving: Blood tests	Indiv
WHTTRT04	Other treatment/advice currently receiving: Change diet	Indiv
WHTTRT05	Other treatment/advice currently receiving: Stop smoking	Indiv
WHTTRT06	Other treatment/advice currently receiving: Reduce stress	Indiv
WHTTRT95	Other treatment/advice currently receiving: Other	Indiv

Smoking

Adult General

Variable	Description	Source
STARTSMK	Age when started smoking	Indiv
DRSMOKE	DidHas a medical person ever advised	Indiv
DRSMOKE1	How long ago	Indiv
CIGARNOW	Currently smokes cigars	Indiv
CIGARREG	How regularly smokes cigars	Indiv
PIPENOWA	Currently smokes a pipe	Indiv
EXPSMOK	Number of hours/week exposed to others' smoke (c+sc)	Indiv/SC
CIGST1	(D) Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current	Derived
CIGSTA3	(D) Cigarette Smoking Status: Current/Ex-Reg/Never-Reg	Derived
CIGST2	(D) Cigarette Smoking Status - Banded current smokers	Derived
PASSMK1	Often near people who smoke: At home?	Indiv/SC YP
PASSMK2	Often near people who smoke: At work?	Indiv/SC YP
PASSMK3	Often near people who smoke: In other people's homes?	Indiv/SC YP
PASSMK4	Often near people who smoke: Outdoor smoking areas of pubs/restaurants/cafes?	Indiv/SC YP
PASSMK5	Often near people who smoke: In other places?	Indiv/SC YP
PASSMK6	Often near people who smoke: No, none of these	Indiv/SC YP
PASSMKB	Does this bother you at all?	Indiv/SC YP
SMKEVR	Whether ever smoked cigarette/cigar/pipe	Indiv/SC YP
CIGNOW	Whether smoke cigarettes nowadays	Indiv/SC YP
CIGEVR	Whether ever smoked cigarettes	Indiv/SC YP
CIGREG	How frequently used to smoke	Indiv/SC YP
SMKDAD	Whether father smoked when informant a child	Indiv/SC YP
SMKMUM	Whether mother smoked when informant a child	Indiv/SC YP

Adult Current Smokers

Variable	Description	Source
SMOKWH1	In last 7days I smoked: At my home (indoors or outside)	Indiv
SMOKWH2	In last 7days I smoked: Outside (other than at home)	Indiv
SMOKWH3	In last 7days I smoked: Inside other people's homes	Indiv
SMOKWH4	In last 7days I smoked: Whilst travelling by car	Indiv
SMOKWH5	In last 7days I smoked: Inside other places	Indiv
SMOKHM01	In last 7days I smoked: Outside, for example in the garden or on doorstep	Indiv
SMOKHM02	In last 7days I smoked: Own room/bedroom	Indiv
SMOKHM03	In last 7days I smoked: Living room	Indiv
SMOKHM04	In last 7days I smoked: Kitchen	Indiv
SMOKHM05	In last 7days I smoked: Toilet	Indiv
SMOKHM06	In last 7days I smoked: Bathroom	Indiv
SMOKHM07	In last 7days I smoked: Study	Indiv
SMOKHM08	In last 7days I smoked: Dining room	Indiv
SMOKHM09	In last 7days I smoked: Everywhere	Indiv
SMOKHM10	In last 7days I smoked: Somewhere else in the home	Indiv
SMOKOUT1	In last 7days I smoked: In the street, or out and about	Indiv
SMOKOUT2	In last 7days I smoked: Outside at work	Indiv
SMOKOUT3	In last 7days I smoked: Outside other people's home	Indiv
SMOKOUT4	In last 7days I smoked: Outside pubs or bars	Indiv
SMOKOUT5	In last 7days I smoked: Outside restaurants, cafes, or canteens	Indiv
SMOKOUT6	In last 7days I smoked: Outside shops	Indiv
SMOKOUT7	In last 7days I smoked: Outside other places	Indiv
SMOKPPL1	In last 7days I smoked near: Babies aged 2 and under	Indiv
SMOKPPL2	In last 7days I smoked near: Children aged 2-10	Indiv
SMOKPPL3	In last 7days I smoked near: Children aged 11-15	Indiv
SMOKPPL4	In last 7days I smoked near: Older adults over the age of 65	Indiv
SMOKPPL5	In last 7days I smoked near: Pregnant women	Indiv
SMOKPPL6	In last 7days I smoked near: Adults aged 16-64 with asthma or breathing problems	Indiv
SMOKPPL7	In last 7days I smoked near: None of these	Indiv

SMNODAY	How easy or difficult would youName[PNo] find it to go without smokin	Indiv
GVUPRS01	Giveup: Because of a health problem I have at present	Indiv
GVUPRS02	Giveup: Better for my health in general	Indiv
GVUPRS03	To reduce the risk of getting smoking related illnesses	Indiv
GVUPRS04	Giveup: Because of theforthcoming smoking ban in all enclosed public places, including pubs and restaurants	Indiv
GVUPRS05	Giveup: Family or friends wanted me to stop	Indiv
GVUPRS06	Giveup: Financial reasons (can't afford it)	Indiv
GVUPRS07	Giveup: Worried about the effect on my children	Indiv
GVUPRS08	Giveup: Worried about the effect on other family members	Indiv
GVUPRS09	Giveup: Something else	Indiv
FIRSTCIG	How soon after waking do you smoke	Indiv
CIGDYAL	(D) Number of cigarettes smoke a day - inc. non-smokers	Derived
CIGWDAY	Number cigarettes smoke on weekday	Indiv/SC YP
CIGWEND	Number cigarettes smoke on weekend day	Indiv/SC YP
CIGTYP	Type of cigarette smoked	Indiv/SC YP
GIVUPSK	Like to give up smoking	Indiv/SC YP

Adult Ex-Smokers

Variable	Description	Source
QITRSN01	Reason giveup: Advice from a GP or health professional	Indiv/SC YP
QITRSN02	Reason giveup: Advert for a nicotine replacement product	Indiv/SC YP
QITRSN03	Reason giveup: Government TV, radio or press advert	Indiv/SC YP
QITRSN04	Reason giveup: Hearing about a new stop smoking treatment	Indiv/SC YP
QITRSN05	Reason giveup: Financial reasons (couldn't afford it)	Indiv/SC YP
QITRSN06	Reason giveup: Being faced with theforthcoming smoking ban in all enclosed public places, including pubs and restaurants	Indiv/SC YP
QITRSN07	Reason giveup: I knew someone else who was stopping	Indiv/SC YP
QITRSN08	Reason giveup: Seeing a health warning on cigarette packet	Indiv/SC YP
QITRSN09	Reason giveup: Family or friends wanted me to stop	Indiv/SC YP
QITRSN10	Reason giveup: Being contacted by my local NHS Stop Smoking Services	Indiv/SC YP
QITRSN11	Reason giveup: Health problems I had at the time	Indiv/SC YP
QITRSN12	Reason giveup: Worried about future health problems	Indiv/SC YP
QITRSN13	Reason giveup: Pregnancy	Indiv/SC YP
QITRSN14	Reason giveup: Worried about the effect on my children	Indiv/SC YP
QITRSN15	Reason giveup: Worried about the effect on other family members	Indiv/SC YP
QITRSN16	Reason giveup: My own motivation	Indiv/SC YP
QITRSN17	Reason giveup: Something else	Indiv/SC YP
QITRSN18	Reason giveup: Cannot remember	Indiv/SC YP
NUMSMOK	About how many cigarettes did you smoke in a day	Indiv
ENDSMOKE	How long ago did you stop smoking cigarettes	Indiv
SMOKYRS	And for approximately how many years did you smoke cigarette	Indiv
LONGEND	How many months ago did you give up	Indiv
NICOT	Did you use any nicotine products	Indiv
SMOKETRY	Have you ever tried to give up smoking	Indiv

Adult Pregnancy

Variable	Description	Source
ISPREG	Whether currently pregnant	Indiv
SMOKEPRG	Smoked since pregnant	Indiv
STOPPREG	Stopped smoking due to pregnancy	Indiv
PREGREC	Whether pregnant in last twelve months	Indiv
PREGSMOK	Whether smoked when pregnant	Indiv
PREGSTOP	Whether stopped smoking due to pregnancy	Indiv

Young People

Variable	Description	Source
DCIGAGE	Age first tried a cigarette	SC YP

DYGVUP01	Reasons for wanting to quit smoking: Current health problem	SC YP
DYGVUP02	Reasons for wanting to quit smoking: Better for health in general	SC YP
DYGVUP03	Reasons for wanting to quit smoking: Less risk of smoking related illnesses	SC YP
DYGVUP04	Reasons for wanting to quit smoking: Family/friends	SC YP
DYGVUP05	Reasons for wanting to quit smoking: Financial reasons	SC YP
DYGVUP06	Reasons for wanting to quit smoking: Worried about effect on children	SC YP
DYGVUP07	Reasons for wanting to quit smoking: Ban on smoking in public places	SC YP
DYGVUP08	Reasons for wanting to quit smoking: Other	SC YP

Children 8-15

Variable	Description	Source
ANRSM2O1	Often near people who smoke: At home	SC 8-15
ANRSM2O2	Often near people who smoke: In other people's homes	SC 8-15
ANRSM2O4	Often near people who smoke: In a car	SC 8-15
ANRSM2O5	Often near people who smoke: In the street	SC 8-15
ANRSM2O6	Often near people who smoke: Outdoor areas of pubs/cafes/restaurants	SC 8-15
ANRSM2O7	Often near people who smoke: Park/playing facilities	SC 8-15
ANRSM2O8	Often near people who smoke: Public places unspecified	SC 8-15
ANRSM2O9	Often near people who smoke: School	SC 8-15
ANRSM210	Often near people who smoke: In other places	SC 8-15
ANRSM297	Often near people who smoke: No, none of these	SC 8-15
ASMKBTHR	Being around smoke bother you	SC 8-15
KCIGREGG	(D) Frequency of cigarette smoking (8-15s) (grouped)	Derived
KCIGEVR	Whether ever smoked cigarettes (8-15s)	SC 8-15
KCIGAGE	Age first smoked a cigarette (8-15s)	SC 8-15
KCIGREG	Frequency and amount smoked (8-15s)	SC 8-15
KCIGWEEK	Whether smoked in previous week (8-15s)	SC 8-15
KCIGNUM	Number of cigarettes smoked last week (8-15s)	SC 8-15
CHEXPSM	(ask parent/guardian) Whether child carer smokes (0-12s)	Indiv

Nicotine

Variable	Description	Source
SMOKE1	Currently smokes cigarettes	Nurse
SMOKE2	Currently smokes cigars	Nurse
SMOKE3	Currently smokes a pipe	Nurse
SMOKE4	Does not currently smoke	Nurse
LASTSMOK	How long is it since you last smoked a smotxt?	Nurse
USENIC	Used nicotine products?	Nurse
USEGUM	Used any nicotine chewing gum?	Nurse
GUMMG	What strength is nicotine chewing gum?	Nurse
USEPAT	Used any nicotine patches?	Nurse
NICPATS	Which brand and strength of nicotine patches	Nurse
USENAS	Used a nicotine nasal spray?	Nurse
NICUSEB	(D) Used nicotine products in last 7 days e.g. gum, patch, nasal spray	Derived

Cotinine

Variable	Description	Source
SALINTR1	Consent to take saliva sample	Nurse
SALOBT1	Whether saliva sample obtained	Nurse
SALHOW	Mmethod used to obtain the saliva sample.	Nurse
SALNOBT3	Sample not obtained: Not able to produce any saliva	Nurse
SALNOBT4	Sample not obtained: Other	Nurse
COTSAL	Cotinine result	Lab
COTQUAL	Cotinine quality	Nurse
COTVAL	(D) Valid Cotinine (saliva)	Derived
COT15VAL	(D) Valid Cotinine (saliva): 0<15,15+	Derived

Urine

Admin

Variable	Description	Source
URIINTRO	Consent to take urine sample	Nurse
URIOBT1	Whether urine sample obtained	Nurse
URINOBT3	Sample not obtained: Not able to produce any urine	Nurse
URINOBT4	Sample not obtained: Other	Nurse
URIINTRO	Consent to take urine sample	Nurse
UROUT	Urine sample outcome	Nurse

Measurements

Variable	Description	Source
SODIUM	Sodium result	Lab
SODIUMQ	Sodium quality	Lab
POTASS	Potassium result	Lab
POTASSQ	Potassium quality	Lab
CREATIN	Creatinine result	Lab
CREATINQ	Creatinine quality	Lab
ALBUMIN2	Albumin result (capped at >400)	Lab
ALBUMINQ	Albumin quality (Urine data)	Lab
ALBCREAT	Albumin/Creatinine ratio result	Lab
ALBCREAQ	Albumin/Creatinine ratio quality	Lab

Renal analytes

Renal analytes data		
Variable	**Description**	**Source**
CKDEPI	(D) CKDEPI result	Derived
eGFRCKDEPI	(D) CKDEPI result - grouped	Derived
eGFRMDRD	(D) eGFRMDRD result	Derived
EGFR_MDRD	(D) eGFRMDRD result - grouped	Derived
CYSTC	(D) Serum cystatin C	Derived
eGFRGRUBB	(D) Grubb Result	Derived
eGFRGRUBBGP3	(D) eGFR in 2 categories using Grubb	Derived
Alb	(D) Albuminuria (grouped)	Derived
BMI2	(D) BMI grouped into three categories: Normal, Overweight and Obese	Derived
waistgp	(D) Waist measurement grouped into three categories: Normal, High and Very high	Derived
gly_6half	(D) GlyHB 6.5% and over	Derived
Total_Dia	(D) Diabetes: Yes/No	Derived
surv_diag_ht	(D) Survey diagnosed Hypertension	Derived
Total_ht	(D) Hypertension: Yes/No	Derived
Chol_Thres	(D) Cholestorel split into above/below threshold	Derived
HDL_Thres	(D) HDL Cholesterol value grouped	Derived

Health Survey for England

Health and lifestyles '09

Derived Variable Specification

A survey carried out on behalf of The Information Centre

Joint Health Surveys Unit
National Centre for Social Research
Department of Epidemiology and Public Health, University College London

A survey carried out on behalf of The Information Centre

Joint Health Surveys Unit
National Centre for Social Research
Department of Epidemiology and Public Health, University College London

Contents

Classification

Household

HHSIZE: (D) Household Size

```
SPSS Syntax

COMPUTE hhsize= adults+children+infants.
VARIABLE LABELS hhsize "(D) Household Size".
```

HHDTYPB: (D) Household Type

1 1 adult aged 16-59, no children
2 2 adults, both 16-59, no children
3 Small family
4 Large family
5 Large adult household
6 2 adults, 1 or both aged 60+, no children
7 1 adult, aged 60+, no children

Code -9 is applied to households where information about the age of individuals is missing. HHDTYPB is defined using the file of all people in productive households, then matched back to the file of productive individuals.

```
SPSS Syntax

dataset close all.
GET FILE="F:\secure temp\HSE09\clean hhp09.sav"
 /keep  serialh adults children infants age.
missing values all().
RECODE age (16 thru 59=1)(ELSE=0) INTO ad1659.
COMPUTE ch015=children+infants.
RECODE age (60 thru hi=1)(ELSE=0) INTO ad60.
AGGREGATE OUTFILE="F:\secure temp\HSE09\hhdtypb.sav"
 /break=serialh adults ch015
 /adyoung=SUM(ad1659)
 /adold=SUM(ad60).
GET FILE="F:\secure temp\HSE09\hhdtypb.sav".
COMPUTE hhdtypb=-9.
IF adults=1 & adyoung=1 & ch015=0 hhdtypb=1.
IF adults=2 & adyoung=2 & ch015=0 hhdtypb=2.
IF adults=1 & adold=1 & ch015=0 hhdtypb=7.
IF adults=2 & adold>=1 & ch015=0 hhdtypb=6.
IF ANY(adults,1,2) & ANY(ch015,1,2) hhdtypb=3.
IF adults>=3 & ANY(ch015,0,1) hhdtypb=5.
IF (adults>=1 & ch015>=3) | (adults>=3 & ch015=2) hhdtypb=4.
VARIABLE LABELS hhdtypb "(D) Household Type".
VALUE LABELS hhdtypb
  1 "1 adult aged 16-59, no children"
  2 "2 adults, both 16-59, no children"
  3 "Small family"
  4 "Large family"
  5 "Large adult household"
  6 "2 adults, 1 or both aged 60+, no children"
  7 "1 adult, aged 60+, no children".
SAVE OUTFILE="F:\secure temp\HSE09\hhdtypc.sav"
 /keep serialh hhdtypb.
MATCH FILES FILE="F:\secure temp\HSE09\class1.sav"
 /TABLE="F:\secure temp\HSE09\hhdtypc.sav"
 /BY serialh.
EXECUTE.
save outfile="F:\secure temp\HSE09\class2.sav".
```

Individual

IRNDAGE: (D) Age at interview rounded to the nearest integer
NRDNAGE: (D) Age at nurse visit rounded to the nearest integer

```
SPSS Syntax

COMPUTE irndage = -1 .
```

```
COMPUTE nrndage = -1 .
do if dintb>0 & mintb>0 and yintb>0.
COMPUTE idate = DATE.DMY(dintb,mintb,yintb) .
end if.
do if visday>0 & vismon>0 and visyear>0.
COMPUTE ndate = DATE.DMY(visday,vismon,visyear) .
end if.
do if dobday>0 & dobmon>0 and dobyear>0.
COMPUTE dobdate = DATE.DMY(dobday,dobmon,dobyear) .
end if.
IF (dobdate > 0) irndage = RND((idate-dobdate)/(86400*365.25)) .
IF (dobdate > 0 & ndate > 0) nrndage = RND((ndate-dobdate)/(86400*365.25)) .
VARIABLE LABELS irndage "(D) Age at interview rounded to the nearest integer".
VARIABLE LABELS nrndage "(D) Age at nurse visit rounded to the nearest integer".
```

AG16G10: (D) Age 16+ in ten year bands

1 16-24
2 25-34
3 35-44
4 45-54
5 55-64
6 65-74
7 75+

SPSS Syntax

```
RECODE  age  (16 thru 24=1)  (25 thru 34=2)  (35 thru 44=3)
  (45 thru 54=4)  (55 thru 64=5)  (65 thru 74=6) (75 thru Hi=7)
  (2 thru 15=-1)  INTO  ag16g10 .
VALUE LABELS ag16g10
  1 "16-24"
  2 "25-34"
  3 "35-44"
  4 "45-54"
  5 "55-64"
  6 "65-74"
  7 "75+".
VARIABLE LABEL ag16g10 "(D) Age 16+ in ten year bands".
```

AG16G20: (D) Age 16+ in twenty year bands

1 16-34
2 35-54
3 55+

SPSS Syntax

```
RECODE  age  (16 thru 34=1)  (35 thru 54=2)  (55 thru hi=3)
  (0 thru 15=-1)  INTO  ag16g20 .
VALUE LABELS ag16g20
  1 "16-34"
  2 "35-54"
  3 "55+".
VARIABLE LABEL ag16g20 "(D) Age 16+ in twenty year age bands".
```

AG015G2: (D) Age 0-15 in two year bands

1 0-1
2 2-3
3 4-5
4 6-7
5 8-9
6 10-11
7 12-13
8 14-15

SPSS Syntax

```
RECODE  age (0 thru 1=1) (2 thru 3=2)  (4 thru 5=3)  (6 thru 7=4)  (8 thru 9=5)
  (10 thru 11=6)  (12 thru 13=7)  (14 thru 15=8)  (ELSE =-1) INTO  ag015g2 .
VARIABLE LABEL ag015g2 "(D) Age 0-15 in two year bands".
VALUE LABELS ag015g2
  1 "0-1"
  2 "2-3"
  3 "4-5"
  4 "6-7"
  5 "8-9"
  6 "10-11"
  7 "12-13"
  8 "14-15".
```

AG215G2: (D) Age 2-15 in two year bands

1 2-3
2 4-5
3 6-7
4 8-9
5 10-11
6 12-13
7 14-15

SPSS Syntax

```
RECODE  age (2 thru 3=1)  (4 thru 5=2)  (6 thru 7=3)  (8 thru 9=4)
  (10 thru 11=5)  (12 thru 13=6)  (14 thru 15=7)  (16 thru Hi=-1) INTO  ag215g2 .
VARIABLE LABEL ag215g2 "(D) Age 2-15 in two year bands".
VALUE LABELS ag215g2
  1 "2-3"
  2 "4-5"
  3 "6-7"
  4 "8-9"
  5 "10-11"
  6 "12-13"
  7 "14-15".
```

AG215G3: (D) Age 2-15: Approx 3 year age bands

1 2-3
2 4-6
3 7-9
4 10-12
5 13-15

SPSS Syntax

```
RECODE age (2 thru 3=1) (4 thru 6=2) (7 thru 9=3) (10 thru 12=4) (13 thru 15=5)
 (ELSE=-1) INTO ag215g3.
VARIABLE LABEL ag215g3 "(D) Age 2-15: Approx 3 year age bands".
VALUE LABELS ag215g3
  1 "2-3"
  2 "4-6"
  3 "7-9"
  4 "10-12"
  5 "13-15".
```

AG415G3: (D) Age 4-15: 3 year age bands

1 4-6
2 7-9
3 10-12
4 13-15

SPSS Syntax

```
RECODE age (4 thru 6=1) (7 thru 9=2) (10 thru 12=3) (13 thru 15=4)
 (ELSE=-1) INTO ag415g3.
VARIABLE LABEL ag415g3 "(D) Age 4-15: 3 year age bands".
VALUE LABELS ag415g3
  1 "4-6"
  2 "7-9"
  3 "10-12"
  4 "13-15".
```

AG515G3: (D) Age 5-15: Approx 3 year age bands

1 5-6
2 7-9
3 10-12
4 13-15

SPSS Syntax

```
RECODE age (5 thru 6=1) (7 thru 9=2) (10 thru 12=3) (13 thru 15=4)
 (ELSE=-1) INTO ag515g3.
VARIABLE LABEL ag515g3 "(D) Age 5-15: Approx 3 year age bands".
VALUE LABELS ag515g3
  1 "5-6"
  2 "7-9"
  3 "10-12"
  4 "13-15".
```

AG715G3: (D) Age 7-15: 3 year age bands

1 7-9
2 10-12
3 13-15

SPSS Syntax

```
RECODE age (7 thru 9=1) (10 thru 12=2) (13 thru 15=3)
  (ELSE=-1) INTO ag715g3.
VARIABLE LABEL ag715g3 "(D) Age 7-15: 3 year age bands".
VALUE LABELS ag715g3
  1 "7-9"
  2 "10-12"
  3 "13-15".
```

MARSTATC: Marital status including cohabitees

1 Single
2 Married
3 Civil partnership including spontaneous answers
4 Separated
5 Divorced
6 Widowed
7 Cohabitees

SPSS Syntax

```
COMPUTE marstatc=maritalb.
COUNT xxx=reltoh relto01 to relto12 (2).
IF xxx>0 marstatc=7.
VARIABLE LABEL marstatb "Marital status including cohabitees".
VALUE LABELS marstatb
  1 'Single'
  2 'Married'
  3 'Civil partnership including spontaneous answers'
  4 'Separated'
  5 'Divorced'
  6 'Widowed'
  7 'Cohabitees'.
```

Admin

INTDAYW: (D) Weekday of individual interview

1 Sunday
2 Monday
3 Tuesday
4 Wednesday
5 Thursday
6 Friday
7 Saturday

SPSS Syntax

```
COMPUTE intdayw=XDATE.WKDAY(DATE.DMY(dintb,mintb,yintb)).
VARIABLE LABELS intdayw "(D) Weekday of individual interview".
VALUE LABELS intdayw
 1 "Sunday"
 2 "Monday"
 3 "Tuesday"
 4 "Wednesday"
 5 "Thursday"
 6 "Friday"
 7 "Saturday".
```

Booklet Admin

BOOKLET: (D) Which self-completion filled out

1 Orange 8-12
2 Yellow 13-15
3 Blue Young Adults
4 Beige Adults

SPSS Syntax

```
COMPUTE booklet =0.
IF age>=8 and age<13 and screc=1 booklet=1.
IF age>=13 and age<16 and screc=1 booklet=2.
IF age>=16 and age<19 and screc=1 booklet=3.
IF age>=18 and age<25 and screc=1 & bookchk=2 booklet=3.
IF age>=18 and age<25 and screc=1 & bookchk=1 booklet=4.
IF age>24 and screc=1 booklet=4.
IF age<8 or scomp=3 or screc=2 booklet=-1.
VARIABLE LABELS booklet "(D) Eligible for which self-completion booklet?".
VALUE LABELS booklet
 -1 "Item not applicable"
  1 "Orange 8-12"
  2 "Yellow 13-15"
  3 "Blue Young Adults"
  4 "Beige Adults".
```

Education

TOPQUAL2: (D) Highest Educational Qualification - students separate

1 NVQ4/NVQ5/Degree or equiv
2 Higher ed below degree
3 NVQ3/GCE A Level equiv
4 NVQ2/GCE O Level equiv
5 NVQ1/CSE other grade equiv
6 Foreign/other
7 No qualification
8 FT Student

TOPQUAL3: (D) Highest Educational Qualification

1 NVQ4/NVQ5/Degree or equiv
2 Higher ed below degree
3 NVQ3/GCE A Level equiv
4 NVQ2/GCE O Level equiv
5 NVQ1/CSE other grade equiv
6 Foreign/other
7 No qualification

SPSS Syntax

```
COMPUTE topqual3=0.
IF (qual<0 | (qual=1 & quala01<0)) topqual3=quala01.
IF (qual<0 | (qual=1 & quala01<0)) topqual2=quala01.
VECTOR veduc=quala01 TO quala10.
LOOP xxI=1 TO 10.
IF (ANY(veduc(xxI),1,23,24)) topqual3=1.
IF (ANY(veduc(xxI),2,3,4,6) & topqual3<>1) topqual3=2.
IF (ANY(veduc(xxI),5,7,9,10,11,25) & ~RANGE(topqual3,1,2)) topqual3=3.
IF (ANY(veduc(xxI),8,12,13,15,17,20,22,26) & ~RANGE(topqual3,1,3)) topqual3=4.
IF (ANY(veduc(xxI),14,16,18,21,27,28) & ~RANGE(topqual3,1,4)) topqual3=5.
IF (RANGE(veduc(xxI),29,36) & ~RANGE(topqual3,1,5)) topqual3=6.
IF ((veduc(xxI)=19 | qual=2) & ~RANGE(topqual3,1,6)) topqual3=7.
END LOOP.
VARIABLE LABEL topqual3 "(D) Highest Educational Qualification".
VALUE LABELS topqual3
  1 'NVQ4/NVQ5/Degree or equiv'
  2 'Higher ed below degree'
  3 'NVQ3/GCE A Level equiv'
  4 'NVQ2/GCE O Level equiv'
  5 'NVQ1/CSE other grade equiv'
  6 'Foreign/other'
  7 'No qualification'.
IF (topqual3>0) topqual2=topqual3.
IF (educend=1 | activb=1) topqual2=8.
VARIABLE LABEL topqual2 "(D) Highest Educational Qualification - "+
  "Students separate".
VALUE LABELS topqual2
  1 'NVQ4/NVQ5/Degree or equiv'
  2 'Higher ed below degree'
  3 'NVQ3/GCE A Level equiv'
  4 'NVQ2/GCE O Level equiv'
  5 'NVQ1/CSE other grade equiv'
  6 'Foreign/other'
  7 'No qualification'
  8 'FT Student'.
```

Employment Status

SCHRP: (D) Social Class of HRP - Harmonised

1 I - Professional
2 II- Managerial technical
3 IIIN - Skilled non-manual
4 IIIM - Skilled manual
5 IV - Semi-skilled manual
6 V - Unskilled manual
7 Armed forces
8 Insufficient information
9 FT Students (if never worked)
10 All other never worked

SCHRPG7: (D) Social Class of HRP - I,II,IIIN,IIIM,IV,V,Others

1 I - Professional
2 II- Managerial technical
3 IIIN - Skilled non-manual
4 IIIM - Skilled manual
5 IV - Semi-skilled manual
6 V - Unskilled manual
7 Others

SCHRPG6: (D) Social Class of HRP - I,II,IIIN,IIIM,IV,V

1 I - Professional
2 II- Managerial technical
3 IIIN - Skilled non-manual
4 IIIM - Skilled manual
5 IV - Semi-skilled manual
6 V - Unskilled manual

SCHRPG4: (D) Social Class of HRP: I/II,IIINM,IIIM,IV/V

1 I & II
2 IIINM
3 IIIM
4 IV & V

SPSS Syntax

```
COMPUTE schrp=hrpsoccl.
IF (HRPEVERJ=2) schrp=10.
IF (HRPACTIV=1 & HRPEVERJ=2) schrp=9.
IF (ANY(HRPACTIV,-8,-9)) schrp=HRPACTIV.
IF (ANY(HRPEVERJ,-8,-9)) schrp=HRPEVERJ.
VARIABLE LABEL schrp "(D) Social Class of HRP - Harmonised".
VALUE LABELS schrp
  1 "I - Professional"
  2 "II- Managerial technical"
  3 "IIIN - Skilled non-manual"
  4 "IIIM - Skilled manual"
  5 "IV - Semi-skilled manual"
  6 "V - Unskilled manual"
  7 "Armed forces"
  8 "Insufficient information"
  9 "FT Students (if never worked)"
  10 "All other never worked".

RECODE schrp (7 thru 10=7) (ELSE=COPY) INTO schrpg7.
VARIABLE LABEL schrpg7 "(D) Social Class of HRP - I,II,IIIN,IIIM,IV,V,Others".
VALUE LABELS schrpg7
  1 "I - Professional"
  2 "II- Managerial technical"
  3 "IIIN - Skilled non-manual"
  4 "IIIM - Skilled manual"
  5 "IV - Semi-skilled manual"
  6 "V - Unskilled manual"
  7 "Others".

RECODE schrp (7 thru 10=-1) (ELSE=COPY) INTO schrpg6.
VARIABLE LABEL schrpg6 "(D) Social Class of HRP - I,II,IIIN,IIIM,IV,V".
VALUE LABELS schrpg6
  1 "I - Professional"
  2 "II- Managerial technical"
  3 "IIIN - Skilled non-manual"
  4 "IIIM - Skilled manual"
  5 "IV - Semi-skilled manual"
  6 "V - Unskilled manual".
```

```
RECODE schrp (1 thru 2=1) (3=2)(4=3)(5 thru 6=4)(-9 thru -1=COPY)(ELSE=-1)
  INTO schrpg4.
VARIABLE LABELS schrpg4 "(D) Social Class of HRP: I/II,IIINM,IIIM,IV/V".
VALUE LABELS schrpg4
  1 "I & II"
  2 "IIINM"
  3 "IIIM"
  4 "IV & V".
```

NSSEC8: (D) NS-SEC 8 Variable Classification (individual)

1 Higher managerial and professional occupations
2 Lower managerial and professional occupations
3 Intermediate occupations
4 Small employers and own account workers
5 Lower supervisory and technical occupations
6 Semi-routine occupations
7 Routine occupations
8 Never worked and long term unemployed
99 Other

NSSEC5: (D) NS-SEC 5 Variable Classification (individual)

1 Managerial and professional occupations
2 Intermediate occupations
3 Small employers and own account workers
4 Lower supervisory and technical occupations
5 Semi-routine occupations
99 Other

NSSEC3: (D) NS-SEC 3 Variable Classification (individual)

1 Managerial and professional occupations
2 Intermediate occupations
3 Routine and manual occupations
99 Other

SPSS Syntax

```
RECODE stnssec (1 thru 3.4=1) (4 thru 6=2) (7 thru 7.4=3) (8 thru 9.2=4) (10 thru 11.2=5) (12 thru 12.7=6)
(13 thru 13.5=7) (14 thru 14.2=8) (15 thru 17=99) (else=copy) into nssec8.
VARIABLE LABEL nssec8 "(D) NS-SEC 8 variable classification (individual)".
VALUE LABEL nssec8
  1 "Higher managerial and professional occupations"
  2 "Lower managerial and professional occupations"
  3 "Intermediate occupations"
  4 "Small employers and own account workers"
  5 "Lower supervisory and technical occupations"
  6 "Semi-routine occupations"
  7 "Routine occupations"
  8 "Never worked and long term unemployed"
  99 "Other".

RECODE stnssec (1 thru 6=1) (7 thru 7.4=2) (8 thru 9.2=3) (10 thru 11.2=4) (12 thru 13.5=5) (14 thru
17=99) (else=copy) INTO nssec5.
VARIABLE LABEL nssec5 "(D) NS-SEC 5 variable classification (individual)".
VALUE LABEL nssec5
  1 "Managerial and professional occupations"
  2 "Intermediate occupations"
  3 "Small employers and own account workers"
  4 "Lower supervisory and technical occupations"
  5 "Semi-routine occupations"
  99 "Other".

RECODE stnssec (1 thru 6=1) (7 thru 9.2=2) (10 thru 13.5=3) (14 thru 17=99) (else=copy) INTO nssec3.
VARIABLE LABEL nssec3 "(D) NS-SEC 3 variable classification (individual)".
VALUE LABEL nssec3
  1 "Managerial and professional occupations"
  2 "Intermediate occupations"
  3 "Routine and manual occupations"
  99 "Other".
```

HPNSSEC8: (D) NS-SEC 8 Variable Classification (hrp)

1 Higher managerial and professional occupations
2 Lower managerial and professional occupations
3 Intermediate occupations
4 Small employers and own account workers
5 Lower supervisory and technical occupations
6 Semi-routine occupations
7 Routine occupations
8 Never worked and long term unemployed

99 Other

HPNSSEC5: (D) NS-SEC 5 Variable Classification (hrp)

1 Managerial and professional occupations
2 Intermediate occupations
3 Small employers and own account workers
4 Lower supervisory and technical occupations
5 Semi-routine occupations
99 Other

HPNSSEC3: (D) NS-SEC 3 Variable Classification (hrp)

1 Managerial and professional occupations
2 Intermediate occupations
3 Routine and manual occupations
99 Other

SPSS Syntax

```
RECODE sthnssec (1 thru 3.4=1) (4 thru 6=2) (7 thru 7.4=3) (8 thru 9.2=4) (10 thru 11.2=5) (12 thru
12.7=6) (13 thru 13.5=7) (14 thru 14.2=8) (15 thru 17=99) (else=copy) into hpnssec8.
VARIABLE LABEL hpnssec8 "(D) NS-SEC 8 variable classification (hrp)".
VALUE LABEL hpnssec8
  1 "Higher managerial and professional occupations"
  2 "Lower managerial and professional occupations"
  3 "Intermediate occupations"
  4 "Small employers and own account workers"
  5 "Lower supervisory and technical occupations"
  6 "Semi-routine occupations"
  7 "Routine occupations"
  8 "Never worked and long term unemployed"
  99 "Other".

RECODE sthnssec (1 thru 6=1) (7 thru 7.4=2) (8 thru 9.2=3) (10 thru 11.2=4) (12 thru 13.5=5) (14 thru
17=99) (else=copy) INTO hpnssec5.
VARIABLE LABEL hpnssec5 "(D) NS-SEC 5 variable classification (hrp)".
VALUE LABEL hpnssec5
  1 "Managerial and professional occupations"
  2 "Intermediate occupations"
  3 "Small employers and own account workers"
  4 "Lower supervisory and technical occupations"
  5 "Semi-routine occupations"
  99 "Other".

RECODE sthnssec (1 thru 6=1) (7 thru 9.2=2) (10 thru 13.5=3) (14 thru 17=99) (else=copy) INTO hpnssec3.
VARIABLE LABEL hpnssec3 "(D) NS-SEC 3 variable classification (hrp)".
VALUE LABEL hpnssec3
  1 "Managerial and professional occupations"
  2 "Intermediate occupations"
  3 "Routine and manual occupations"
  99 "Other".
```

SCALLX: (D) Social Class of Indiv - Harmonised

1 I - Professional
2 II- Managerial technical
3 IIIN - Skilled non-manual
4 IIIM - Skilled manual
5 IV - Semi-skilled manual
6 V - Unskilled manual
7 Armed forces
8 Insufficient information
9 FT Students (if never worked)
10 All other never worked

SCALLXG2: (D) Social Class of Indiv - Harmonised non man / manual

1 Non manual
2 Manual

SPSS Syntax

```
COMPUTE scallx=sclass.
IF everjob=2 = 2 scallx=10.
IF (activb=1 & everjob=2) scallx=9.
IF (ANY(activb,-8,-9)) scallx=hrpactiv.
IF (age<16) scallx=-1.
VARIABLE LABEL scallx "(D) Social Class of Indiv - Harmonised".
VALUE LABELS scallx
  1 "I - Professional"
  2 "II- Managerial technical"
  3 "IIIN - Skilled non-manual"
```

```
  4 "IIIM - Skilled manual"
  5 "IV - Semi-skilled manual"
  6 "V - Unskilled manual"
  7 "Armed forces"
  8 "Insufficient information"
  9 "FT Students (if never worked)"
  10 "All other never worked".

RECODE scallx (1 thru 3=1) (4 thru 6=2)(-9 thru -1=COPY)(ELSE=-1)
  INTO scallxg2.
VARIABLE LABELS scallxg2 "(D) Soc Class of Indiv - Harmonised: Non-Man/Manual".
VALUE LABELS scallxg2
  1 "Non-Manual "
  2 "Manual".
```

ECONACT: (D) Economic Status (4 groups)

1 In employment
2 ILO unemployed
3 Retired
4 Other economically inactive

```
SPSS Syntax

recode activb(2,3,4=1)(9=3)(1,5,6,7,8,10,95=4)(-9,-8=copy) into econact.
if any(1,stwork,wkstrt2) econact=2.
if age<16 econact=-1.
if any(-9,activb,stwork,wkstrt2,wklook4) econact=-9.
if any(-8,activb,stwork,wkstrt2,wklook4) econact=-8.
variable labels econact "(D) Economic Status (4 groups)".
value labels econact
 1 "In employment"
 2 "ILO unemployed"
 3 "Retired"
 4 "Other economically inactive".
```

Income

TOTINC: (D) Total Household Income

1 <£520
2 £520<£1,600
3 £1,600<£2,600
4 £2,600<£3,600
5 £3,600<£5,200
6 £5,200<£7,800
7 £7,800<£10,400
8 £10,400<£13,000
9 £13,000<£15,600
10 £15,600<£18,200
11 £18,200<£20,800
12 £20,800<£23,400
13 £23,400<£26,000
14 £26,000<£28,600
15 £28,600<£31,200
16 £31,200<£33,800
17 £33,800<£36,400
18 £36,400<£41,600
19 £41,600<£46,800
20 £46,800<£52,000
21 £52,000<£60,000
22 £60,000<£70,000
23 £70,000<£80,000
24 £80,000<£90,000
25 £90,000<£100,000
26 £100,000<£110,000
27 £110,000<£120,000
28 £120,000<£130,000
29 £130,000<£140,000
30 £140,000<£150,000
31 £150,000+
96 Don't know
97 Refused

```
SPSS Syntax

COMPUTE totinc=-1.
IF jntinc=-1 totinc=-1.
```

```
DO IF (jntinc>0).
COMPUTE totinc=jntinc.
END IF.
DO IF (hhinc>jntinc).
COMPUTE totinc=hhinc.
END IF.
VARIABLE LABELS totinc "(D) Total Household Income".
VALUE LABELS totinc
 1 '<£520'
 2 '£520<£1,600'
 3 '£1,600<£2,600'
 4 '£2,600<£3,600'
 5 '£3,600<£5,200'
 6 '£5,200<£7,800'
 7 '£7,800<£10,400'
 8 '£10,400<£13,000'
 9 '£13,000<£15,600'
 10 '£15,600<£18,200'
 11 '£18,200<£20,800'
 12 '£20,800<£23,400'
 13 '£23,400<£26,000'
 14 '£26,000<£28,600'
 15 '£28,600<£31,200'
 16 '£31,200<£33,800'
 17 '£33,800<£36,400'
 18 '£36,400<£41,600'
 19 '£41,600<£46,800'
 20 '£46,800<£52,000'
 21 '£52,000<£60,000'
 22 '£60,000<£70,000'
 23 '£70,000<£80,000'
 24 '£80,000<£90,000'
 25 '£90,000<£100,000'
 26 '£100,000<£110,000'
 27 '£110,000<£120,000'
 28 '£120,000<£130,000'
 29 '£130,000<£140,000'
 30 '£140,000<£150,000'
 31 '£150,000+'
 96 'Don't know'
 97 'Refused'.
```

MCCLEM: (D) McClements household score for equivalised income

EQVINC: (D) Equivalised Income

EQV5: (D) Equivalised Income Quintiles

5 'Highest Quintile (>£41,864.41)'
4 'Second highest Quintile (>£26,787.88 <=£41,864.41)'
3 'Middle Quintile (>£16,900.00 <=£26,787.88)'
2 'Second lowest Quintile (>£10,655.74 <=£16,900.00)'
1 'Lowest Quintile (<=£10,655.74)'.

EQV3: (D) Equivalised Income Tertiles

3 'Highest Tertile (>£30694.44)'
2 'Middle Tertile (>£14918 - £30,694.44)'
1 'Lowest Tertile (<=£14,879.52)'.

*The calculation of the equivalised income involves calculating a McClement score for each household (dependent on number, age and relationships of adults and children in the household), and then dividing the total household income by this score to get an equivalised household income. Comments are included in the **SPSS Syntax**.*

```
SPSS Syntax


dataset close all.
GET FILE='F:\secure temp\HSE09\clean_hse09.sav'
  /KEEP serialh jntinc hhinc.
SORT CASES BY serialh.
EXECUTE.
AGGREGATE OUTFILE='F:\secure temp\HSE09\hh09.sav'
  /BREAK= serialh
  /jointinc hholdinc = MEAN(jntinc hhinc).


** Use HHP data file adding activ to each record .
GET FILE='F:\secure temp\HSE09\clean hhp09.sav'
  /KEEP serialh seriali hrpid adults infants persno relto01 to relto12 age.
```

```
SORT CASES seriali(A).
COUNT pmarry=relto01 to relto12(1).
COUNT ppart=relto01 to relto12(2).
compute relnship=pmarry+ppart.
SAVE OUTFILE='F:\secure temp\HSE09\mcxx09.sav'
  /KEEP serialh seriali hrpid adults infants persno relnship age.
GET FILE='F:\secure temp\HSE09\clean_hse09.sav'
  /KEEP seriali activb.
SORT CASES seriali(A).
SAVE OUTFILE='F:\secure temp\HSE09\activ09.sav'.
MATCH FILES FILE='F:\secure temp\HSE09\mcxx09.sav'
  /TABLE='F:\secure temp\HSE09\activ09.sav'
  /BY seriali.
SAVE OUTFILE='F:\secure temp\HSE09\mcchhp09.sav'.


** Create variables for age/activ for each person no .

** Create all variables, default to 0 .
GET FILE='F:\secure temp\HSE09\mcchhp09.sav'.
MISSING VALUES age ().
VECTOR mccage(12).
VECTOR mcactv(12).
LOOP xxi=1 TO 12.
DO IF (persno=xxi).
COMPUTE mccage(xxi)=age.
COMPUTE mcactv(xxi)=activb.
END IF.
END LOOP.
EXECUTE.

** Save HH file with appropriate vars .
SORT CASES BY serialh.
SAVE OUTFILE='F:\secure temp\HSE09\mchhp09x.sav'.

** Create Hrp file, save & merge .
GET FILE='F:\secure temp\HSE09\mchhp09x.sav'.
SELECT IF (hrpid=1).
SAVE OUTFILE='F:\secure temp\HSE09\mcchoh09.sav'
  /KEEP= serialh adults relnship infants.

** Create 12 people files using a macro.
DEFINE mincfile ().
!DO !J=1 !TO 12.
!LET !vselect=!CONCAT(mccage,!J).
!LET !vvar=!CONCAT(mcactv,!J).
!LET !vfile=!QUOTE(!CONCAT("F:\secure temp\HSE09\p",!J,".sav")).
GET FILE='F:\secure temp\HSE09\mchhp09x.sav'.
SELECT IF (!vselect=-9 | !vselect>=0).
SAVE OUTFILE=!vfile /KEEP=serialh !vselect !vvar.
!DOEND.
!ENDDEFINE.
MINCFILE.


** Merge all files together by serialh & save .
MATCH FILES FILE='F:\secure temp\HSE09\hh09.sav'
  /table='F:\secure temp\HSE09\mcchoh09.sav'
  /table='F:\secure temp\HSE09\p1.sav'
  /table='F:\secure temp\HSE09\p2.sav'
  /table='F:\secure temp\HSE09\p3.sav'
  /table='F:\secure temp\HSE09\p4.sav'
  /table='F:\secure temp\HSE09\p5.sav'
  /table='F:\secure temp\HSE09\p6.sav'
  /table='F:\secure temp\HSE09\p7.sav'
  /table='F:\secure temp\HSE09\p8.sav'
  /table='F:\secure temp\HSE09\p9.sav'
  /table='F:\secure temp\HSE09\p10.sav'
  /table='F:\secure temp\HSE09\p11.sav'
  /table='F:\secure temp\HSE09\p12.sav'
  /BY serialh.
EXECUTE.
SAVE OUTFILE='F:\secure temp\HSE09\income09.sav'
 /KEEP serialh hholdinc jointinc adults relnship infants
 mccage1 mccage2 mccage3 mccage4 mccage5 mccage6 mccage7 mccage8
 mccage9 mccage10 mccage11 mccage12
 mcactv1 mcactv2 mcactv3 mcactv4 mcactv5 mcactv6 mcactv7
 mcactv8 mcactv9 mcactv10 mcactv11 mcactv12 .

** Get file and initialise mcclem to zero .
GET FILE='F:\secure temp\HSE09\income09.sav'.
COMPUTE mcclem=0.

** Add scores for 16-18s, remove from adults .
VECTOR mccage=mccage1 TO mccage12.
VECTOR mcactv=mcactv1 TO mcactv12.
LOOP xxi=1 TO 12.
```

```
DO IF (RANGE(mccage(xxi),16,18)).
DO IF (mcactv(xxi)=1).
COMPUTE mcclem=mcclem+(36/100).
IF (adults>1) adults=adults-1.
END IF.
END IF.
END LOOP.

** Add scores for adults .
** Non-married 2nd person adds 7/100 to score .
IF (adults=1) mcclem=mcclem+(61/100).
IF (adults=2) mcclem=mcclem+1.
IF (adults=3) mcclem=mcclem+(142/100).
IF (adults>=4) mcclem=mcclem+((142+(36*(adults-3)))/100).
IF (relnship=0&adults>1) mcclem=mcclem+(7/100).

** Add scores for children .
VECTOR mccagex=mccage1 TO mccage12.
LOOP xxj=1 TO 12.
IF (RANGE(mccagex(xxj),2,4)) mcclem=mcclem+(18/100).
IF (RANGE(mccagex(xxj),5,7)) mcclem=mcclem+(21/100).
IF (RANGE(mccagex(xxj),8,10)) mcclem=mcclem+(23/100).
IF (RANGE(mccagex(xxj),11,12)) mcclem=mcclem+(25/100).
IF (RANGE(mccagex(xxj),13,15)) mcclem=mcclem+(27/100).
END LOOP.

** Add scores for infants .
IF (infants>0) mcclem=mcclem+(infants*(9/100)).

** remove nonstated ages.
count age9=mccage1 to mccage12(-9).
count age8=mccage1 to mccage12(-8).
if age9>0 | age8>0 mcclem=-90.

VARIABLE LABEL mcclem "(D) McClements household score for equivalised income".
EXECUTE.

** Save File under new name .
FORMATS mcclem (F8.2).
COMPUTE midinc=-1.
DO IF (jointinc>0).
RECODE jointinc (1=450) (2=1060) (3=2100) (4=3100) (5=4400) (6=6500)
 (7=9100) (8=11700) (9=14300) (10=16900) (11=19500) (12=22100)
 (13=24700) (14=27300) (15=29900) (16=32500) (17=35100) (18=39000)
 (19=44200) (20=49400) (21=56000) (22=65000) (23=75000) (24=85000)
 (25=95000) (26=105000) (27=115000) (28=125000) (29=135000)
 (30=145000) (31=160000)
 INTO midinc.
END IF.
DO IF (hholdinc>jointinc).
RECODE hholdinc (1=450) (2=1060) (3=2100) (4=3100) (5=4400) (6=6500)
 (7=9100) (8=11700) (9=14300) (10=16900) (11=19500) (12=22100)
 (13=24700) (14=27300) (15=29900) (16=32500) (17=35100) (18=39000)
 (19=44200) (20=49400) (21=56000) (22=65000) (23=75000) (24=85000)
 (25=95000) (26=105000) (27=115000) (28=125000) (29=135000)
 (30=145000) (31=160000)
 INTO midinc.
END IF.
COMPUTE eqvinc=-1.
IF (midinc>0) eqvinc=midinc/mcclem.
RECODE midinc (0 thru 6500=1) (6501 thru 11700=2)
  (11701 thru 19500=3) (19501 thru 29900=4) (29901 thru hi=5)(ELSE=-1)
  INTO mid5.
exe.

compute eqv5=-1.
IF eqvinc>=0 and eqvinc<=10655.74 eqv5=1.
IF eqvinc>10655.74 and eqvinc<=16900.00 eqv5=2.
IF eqvinc>16900.00 and eqvinc<=26787.88 eqv5=3.
IF eqvinc>26787.88 and eqvinc<=41864.41 eqv5=4.
IF eqvinc>41864.41 eqv5=5.
IF eqvinc<0 eqv5=-1.
VARIABLE LABEL eqvinc "(D) Equivalised Income".
VARIABLE LABEL eqv5 "(D) Equivalised Income Quintiles".
VALUE LABELS eqvinc -1 'Item not applicable'.
VALUE LABELS eqv5
  -1 'Item not applicable'
   5 'Highest Quintile (>£41,864.41)'
   4 'Second highest Quintile (>£26,787.88 <=£41,864.41)'
   3 'Middle Quintile (>£16,900.00 <=£26,787.88)'
   2 'Second lowest Quintile (>£10,655.74 <=£16,900.00)'
   1 'Lowest Quintile (<=£10,655.74)'.
 freq eqv5.

compute eqv3=-1.
IF eqvinc>=0 and eqvinc<=14879.52 eqv3=1.
IF eqvinc>14879.52 and eqvinc<=30694.44 eqv3=2.
```

```
IF eqvinc>30694.44 eqv3=3.
IF eqvinc<0 eqv3=-1.
VARIABLE LABEL eqv3 "(D) Equivalised Income Tertiles".
VALUE LABELS eqv3
  -1 'Item not applicable'
   3 'Highest Tertile (>£30694.44)'
   2 'Middle Tertile (>£14918 - £30,694.44)'
   1 'Lowest Tertile (<=£14,879.52)'.
 freq eqv3.

do if mcclem=-90.
compute eqvinc=-90.
compute eqv5=-90.
end if.
add value labels mcclem eqvinc eqv5
  -90 "Age of household member refused".
SAVE OUTFILE='F:\secure temp\HSE09\mcclem09.sav'
 /KEEP serialh mcclem hholdinc jointinc midinc eqvinc mid5 adults relnship infants
 mccage1 mccage2 mccage3 mccage4 mccage5 mccage6 mccage7 mccage8
 mccage9 mccage10 mccage11 mccage12 mccage12
 mcactv1 mcactv2 mcactv3 mcactv4 mcactv5 mcactv6 mcactv7
 mcactv8 mcactv9 mcactv10 mcactv11 mcactv12 mcactv12 eqv5.
SORT CASES serialh(A).
SAVE OUTFILE='F:\secure temp\HSE09\eqv09h.sav'
 /KEEP serialh eqvinc mcclem eqv3 eqv3_temp eqv5 eqv5_temp.

**run quintiles on eqvinc (data hse2009) here then plug numbers and rerun two sytnax above**.

** Merge back onto individual records.
 GET FILE="F:\secure temp\HSE09\clean_hse09.sav".
SORT CASES serialh(A).
MATCH FILES
 /FILE=*
 /TABLE='F:\secure temp\HSE09\eqv09h.sav'
 /BY serialh.
EXECUTE.
SAVE OUTFILE="F:\secure temp\HSE09\class1.sav".
```

Nurse Admin

NURDAYW: (D) Weekday of nurse interview

1 Sunday
2 Monday
3 Tuesday
4 Wednesday
5 Thursday
6 Friday
7 Saturday

SPSS Syntax

```
DO IF visday>0.
COMPUTE nurdayw=XDATE.WKDAY(DATE.DMY(visday,vismon,visyr)).
ELSE.
COMPUTE nurdayw=visday.
END IF.
VARIABLE LABELS nurdayw "(D) Weekday of nurse interview".
VALUE LABELS nurdayw
 1 "Sunday"
 2 "Monday"
 3 "Tuesday"
 4 "Wednesday"
 5 "Thursday"
 6 "Friday"
 7 "Saturday".
```

Relationships

NATPR1: (D) Relationship of child to parent/legal guardian
NATPR2: (D) Relationship of child to other parent/legal guardian

1 Own natural child
2 Adopted child
3 Foster child
4 Step child
5 Grandchild
6 Brother/sister
7 Other relative

SPSS Syntax

```
do if any(par1,-1,97).
compute natpr1=-1.
end if.
do if par1=1.
recode relto01(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=2.
recode relto02(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=3.
recode relto03(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=4.
recode relto04(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=5.
recode relto05(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=6.
recode relto06(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=7.
recode relto07(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if par1=8.
recode relto08(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr1.
end if.
do if any(par2,-1,97).
compute natpr2=-1.
end if.
do if par2=1.
recode relto01(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=2.
recode relto02(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=3.
recode relto03(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=4.
recode relto04(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=5.
recode relto05(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=6.
recode relto06(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=7.
recode relto07(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
do if par2=8.
recode relto08(3=1)(4=2)(5=3)(6,7=4)(19=5)(13 thru 18=6)(-9 thru -1=COPY)(ELSE=7) into natpr2.
end if.
variable labels natpr1 natpr2 "(D) Relationship to parent or guardian".
value labels natpr1 natpr2
 1 "Own natural child"
 2 "Adopted child"
 3 "Foster child"
 4 "Step child"
 5 "Grandchild"
 6 "Brother/sister"
 7 "Other relative".
```

Sample Info

URBAN: (D) Degree of urbanisation

1 Urban
2 Town & fringe
3 Village, hamlet and isolated dwellings

```
SPSS Syntax

RECODE  typarea (1 thru 2=1)  (3=2)  (4 thru 5=3) (-8,-9=copy)  INTO urban .
VARIABLE LABEL urban "(D) Degree of urbanisation".
VALUE LABELS urban 1 'Urban'
                   2 'Town and fringe'
                   3 'Village, hamlet and isolated dwellings'.
```

IMD2007: (D) Index of multiple deprivation (quintiles)

1 Least deprived (0.37 >= 8.32)
2 (>8.32>= 13.74)
3 (>13.74>= 21.22)
4 (>21.22>= 34.42)
5 Most deprived (>34.42 – 85.46)

The Overall Index of Multiple Deprivation 2007 (IMD2007) is a composite index of relative deprivation at small area level, based on seven domains of deprivation: income; employment; health deprivation and disability; education, skills and training; barriers to housing and services; crime and disorder; and living environment. The method used in this report was to group the IMD2007 scores of all Super Output Areas in England into quintiles, ranked in ascending order of deprivation score (quintile 1 being least deprived). The postcode address of households in the 2009 survey was used to link to the Super Output Area of residence, and hence to the corresponding deprivation quintile. All individuals in each household were allocated to the deprivation quintile to which their household had been allocated.

Anthropometric Measurements

Height/Weight Admin

HTOK: (D) Whether height measure is valid

1 Valid
2 Not usable
3 Refused
4 Attempted but not obtained
5 Not attempted

WTOK: (D) Whether weight measure is valid

1 Valid
2 Not usable
3 Refused
4 Attempted but not obtained
5 Not attempted
-90 Pregnant

BMIOK: (D) Whether BMI measure is valid

1 Valid
2 Length/height/weight not usable
3 Length/height/weight refused
4 Length/height/weight attempted but not obtained
5 Length/height/weight not attempted
-90 Pregnant

Obtained readings are coded as valid initially and then reset to not usable if the interviewer has indicated that they are unreliable. In the syntax for BMIOK, each line takes precedence over the previous line, such that if HTOK=3 and WTOK=4, then BMIOK=4

SPSS Syntax

```
RECODE resphts (1=1)(2=3)(3=4)(4=5)(-1=-1) INTO htok.
IF relhite=3 htok=2.
VARIABLE LABELS htok "(D) Whether height measure is valid".
VALUE LABELS htok
  1 "Valid"
  2 "Not usable"
  3 "Refused"
  4 "Attempted but not obtained"
  5 "Not attempted".

RECODE respwts (0,1=1)(2=3)(3=4)(4=5)(-1=-1) INTO wtok.
IF relwaitb=3 wtok=2.
IF pregnowb=1 wtok=-90.
VARIABLE LABELS wtok "(D) Whether weight measure is valid".
VALUE LABELS wtok
  1 "Valid"
  2 "Not usable"
  3 "Refused"
  4 "Attempted but not obtained"
  5 "Not attempted"
 -90 "Pregnant".

IF any(1,htok) & wtok=1 bmiok=1.
IF ANY(2,htok,wtok) bmiok=2.
IF ANY(3,htok,wtok) bmiok=3.
IF ANY(4,htok,wtok) bmiok=4.
IF ANY(5,htok,wtok) bmiok=5.
IF wtok=-90 bmiok=-90.
IF htok=-1 & age>=2 bmiok=-1.
IF age<2 bmiok=-1.
IF wtok=-1 bmiok=-1.

VARIABLE LABELS bmiok "(D) Whether bmi measure is valid".
VALUE LABELS bmiok
  1 "Valid"
  2 "Height/weight not usable"
  3 "Height/weight refused"
  4 "Height/weight attempted but not obtained"
  5 "Height/weight not attempted"
 -90 "Pregnant".
```

Measurements

HTVAL: (D) Valid height (cm)
WTVAL: (D) Valid weight (Kg) inc. estimated>130kg

WTVAL includes respondents whose estimated weight was over 130kg, which was the upper limit of the scales used by interviewers. The reason for including them, is that although their weight may not be accurate, excluding them would bias the analysis of weight and body mass index.

SPSS Syntax

```
COMPUTE htval=-1.
IF htok=1 htval=height.
VARIABLE LABEL htval "(D) Valid height (cm)".

COMPUTE wtval=-1.
IF wtok=1 wtval=weight.
if range(estwt,130,500) & any(wtok,3,4,5) wtval=estwt.
VARIABLE LABEL wtval "(D) Valid weight (Kg) inc. estimated>130kg".
```

BMI: (D) BMI - inc. unreliable measurements

SPSS Syntax

```
COMPUTE bmi=-1.
IF height>0 & weight>0 bmi=(weight*100*100)/(height*height).
IF length>0 & weight>0 bmi=(weight*100*100)/(length*length).
VARIABLE LABELS bmi "(D) BMI - inc unreliable measurements".
```

BMIVAL: (D) Valid BMI - inc. estimated>130kg

BMIVG5: (D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+)

1 Under 18.5
2 18.5 and below 25
3 25 and below 30
4 30 and below 40
5 Over 40

SPSS Syntax

```
VALUE LABELS bmivg5
1 "Under 18.5"
2 "18.5 and below 25"
3 "25 and below 30"
4 "30 and below 40"
5 "Over 40".
```

The syntax recoding BMIVAL to BMIVG5 works such that a value of 25 will be coded as 2, as this is the first place that it appears, and will be overwritten to 3 by the subsequent condition on recode statement. Using this method avoids the danger of freak values falling between values such as between 24.99 and 25.00.

SPSS Syntax

```
COMPUTE bmival=-1.
IF (bmiok=1) bmival=bmi.
IF (range(estwt,130,500) & ANY(wtok,3,4,5) & htok=1)
  bmival=(estwt * 100 * 100)/(height * height).
VARIABLE LABELS bmival "(D) Valid BMI - inc estimated>130kg".
RECODE bmival (0 thru 18.5=1)(18.5 thru 25=2)(25 thru 30=3) (30 thru 40=4)
  (40 thru hi=5) (lo thru -1=COPY) INTO bmivg5.
If age<16 bmivg5=-1.
VARIABLE LABELS bmivg5 "(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+)".
VALUE LABELS bmivg5
1 "Under 18.5"
2 "18.5 and below 25"
3 "25 and below 30"
4 "30 and below 40"
5 "Over 40".
If age<16 bmivg5=-1.
```

BMICAT1: (D) UK bmival national classification standards (85th/95th centile) - children'

1 Normal weight
2 Overweight
3 Obese

BMICAT2: (D) Children's bmi status (overweight incl. obese)'

1 Neither overweight nor obese
2 Overweight incl obese

BMICAT3: (D) Children's bmi status (non-obese vs obese)

1 Non-obese
2 Obese

SPSS Syntax

```
COMPUTE intexage=0.
if age<2 or age>=16 intexage=-1.
IF bmiok<>1 intexage=-1.
COMPUTE idate = DATE.DMY(dintb,mintb,yintb) .
COMPUTE dobdate = DATE.DMY(dobday,dobmon,dobyear) .
IF (dobdate> 0) intexage=((idate-dobdate)/(86400*365.25)) .
IF (age=2 and intexage<2) and dintb=dobday and mintb=dobmon intexage=2.
VARIABLE LABELS intexage "(D) Exact age at interview".

*************************OBESITY/OVERWEIGHT USING 85th/95th centiles*********.
compute bmicat1=9.
IF sex=1 AND (intexage>=2 AND intexage<2.50) AND bmival<18.12 bmicat1=1.
IF sex=2 AND (intexage>=2 AND intexage<2.50) AND bmival<17.83 bmicat1=1.
IF sex=1 AND (intexage>=2.50 AND intexage<3) AND bmival<17.80 bmicat1=1.
IF sex=2 AND(intexage>=2.50 AND intexage<3) AND bmival<17.55 bmicat1=1.

IF sex=1 AND (intexage>=3 AND intexage<3.50) AND bmival<17.55 bmicat1=1.
IF sex=2 AND (intexage>=3 AND intexage<3.50) AND bmival<17.39 bmicat1=1.
IF sex=1 AND (intexage>=3.50 AND intexage<4) AND bmival<17.32 bmicat1=1.
IF sex=2 AND (intexage>=3.50 AND intexage<4) AND bmival<17.29 bmicat1=1.

IF sex=1 AND (intexage>=4 AND intexage<4.50) AND bmival<17.13 bmicat1=1.
IF sex=2 AND (intexage>=4 AND intexage<4.50) AND bmival<17.23 bmicat1=1.
IF sex=1 AND (intexage>=4.50 AND intexage<5) AND bmival<17.01 bmicat1=1.
IF sex=2 AND (intexage>=4.50 AND intexage<5) AND bmival<17.17 bmicat1=1.

IF sex=1 AND  (intexage>=5 AND intexage<5.50) AND bmival<16.96 bmicat1=1.
IF sex=2 AND  (intexage>=5 AND intexage<5.50) AND bmival<17.16 bmicat1=1.
IF sex=1 AND  (intexage>=5.50 AND intexage<6) AND bmival<16.96 bmicat1=1.
IF sex=2 AND  (intexage>=5.50 AND intexage<6) AND bmival<17.21 bmicat1=1.

IF sex=1 AND (intexage>=6 AND intexage<6.50) AND bmival<17.01 bmicat1=1.
IF sex=2 AND (intexage>=6 AND intexage<6.50) AND bmival<17.32 bmicat1=1.
IF sex=1 AND (intexage>=6.50 AND intexage<7) AND bmival<17.10 bmicat1=1.
IF sex=2 AND (intexage>=6.50 AND intexage<7) AND bmival<17.49 bmicat1=1.

IF sex=1 AND (intexage>=7 AND intexage<7.50) AND bmival<17.24 bmicat1=1.
IF sex=2 AND (intexage>=7 AND intexage<7.50) AND bmival<17.71 bmicat1=1.
IF sex=1 AND (intexage>=7.50 AND intexage<8) AND bmival<17.41 bmicat1=1.
IF sex=2 AND  (intexage>=7.50 AND intexage<8) AND bmival<17.96 bmicat1=1.

IF sex=1 AND (intexage>=8 AND intexage<8.50) AND bmival<17.61 bmicat1=1.
IF sex=2 AND (intexage>=8 AND intexage<8.50) AND bmival<18.23 bmicat1=1.
IF sex=1 AND (intexage>=8.50 AND intexage<9) AND bmival<17.83 bmicat1=1.
IF sex=2 AND (intexage>=8.50 AND intexage<9) AND bmival<18.52 bmicat1=1.

IF sex=1 AND (intexage>=9 AND intexage<9.50) AND bmival<18.08 bmicat1=1.
IF sex=2 AND (intexage>=9 AND intexage<9.50) AND bmival<18.82 bmicat1=1.
IF sex=1 AND (intexage>=9.50 AND intexage<10)AND bmival<18.35 bmicat1=1.
IF sex=2 AND (intexage>=9.50 AND intexage<10) AND bmival<19.15 bmicat1=1.

IF sex=1 AND (intexage>=10 AND intexage<10.50) AND bmival<18.64 bmicat1=1.
IF sex=2 AND (intexage>=10 AND intexage<10.50) AND bmival<19.49 bmicat1=1.
IF sex=1 AND (intexage>=10.50 AND intexage<11) AND bmival<18.94 bmicat1=1.
IF sex=2 AND (intexage>=10.50 AND intexage<11) AND bmival<19.85 bmicat1=1.

IF sex=1 AND (intexage>=11 AND intexage<11.50) AND bmival<19.26 bmicat1=1.
IF sex=2 AND (intexage>=11 AND intexage<11.50) AND bmival<20.22 bmicat1=1.
IF sex=1 AND (intexage>=11.50 AND intexage<12) AND bmival<19.59 bmicat1=1.
IF sex=2 AND (intexage>=11.50 AND intexage<12) AND bmival<20.60 bmicat1=1.

IF sex=1 AND (intexage>=12 AND intexage<12.50) AND bmival<19.93 bmicat1=1.
IF sex=2 AND (intexage>=12 AND intexage<12.50) AND bmival<20.98 bmicat1=1.
IF sex=1 AND (intexage>=12.50 AND intexage<13) AND bmival<20.29 bmicat1=1.
IF sex=2 AND (intexage>=12.50 AND intexage<13) AND bmival<21.37 bmicat1=1.

IF sex=1 AND (intexage>=13 AND intexage<13.50) AND bmival<20.65 bmicat1=1.
IF sex=2 AND (intexage>=13 AND intexage<13.50) AND bmival<21.74 bmicat1=1.
IF sex=1 AND (intexage>=13.50 AND intexage<14) AND bmival<21.02 bmicat1=1.
IF sex=2 AND (intexage>=13.50 AND intexage<14) AND bmival<22.10 bmicat1=1.

IF sex=1 AND (intexage>=14 AND intexage<14.50) AND bmival<21.39 bmicat1=1.
IF sex=2 AND (intexage>=14 AND intexage<14.50) AND bmival<22.45 bmicat1=1.
IF sex=1 AND (intexage>=14.50 AND intexage<15) AND bmival<21.76 bmicat1=1.
```

```
IF sex=2 AND (intexage>=14.50 AND intexage<15) AND bmival<22.77 bmicat1=1.

IF sex=1 AND (intexage>=15 AND intexage<15.50) AND bmival<22.12 bmicat1=1.
IF sex=2 AND (intexage>=15 AND intexage<15.50) AND bmival<23.08 bmicat1=1.
IF sex=1 AND (intexage>=15.50 AND intexage<16) AND bmival<22.48 bmicat1=1.
IF sex=2 AND (intexage>=15.50 AND intexage<16) AND bmival<23.35 bmicat1=1.


IF sex=1 AND (intexage>=2 AND intexage<2.50) AND (bmival>=18.12 AND bmival<19.10) bmicat1=2.
IF sex=2 AND (intexage>=2 AND intexage<2.50) AND (bmival>=17.83 AND bmival<18.84) bmicat1=2.
IF sex=1 AND (intexage>=2.50 AND intexage<3) AND (bmival>=17.80 AND bmival<18.77) bmicat1=2.
IF sex=2 AND (intexage>=2.50 AND intexage<3) AND (bmival>=17.55 AND bmival<18.56) bmicat1=2.

IF sex=1 AND (intexage>=3 AND intexage<3.50) AND (bmival>=17.55 AND bmival<18.51) bmicat1=2.
IF sex=2 AND (intexage>=3 AND intexage<3.50) AND (bmival>=17.39 AND bmival<18.42) bmicat1=2.
IF sex=1 AND (intexage>=3.50 AND intexage<4) AND (bmival>=17.32 AND bmival<18.27 ) bmicat1=2.
IF sex=2 AND (intexage>=3.50 AND intexage<4) AND (bmival>=17.29 AND bmival<18.35) bmicat1=2.

IF sex=1 AND (intexage>=4 AND intexage<4.50) AND (bmival>=17.13 AND bmival<18.08) bmicat1=2.
IF sex=2 AND (intexage>=4 AND intexage<4.50) AND (bmival>=17.23 AND bmival<18.32) bmicat1=2.
IF sex=1 AND (intexage>=4.50 AND intexage<5) AND (bmival>=17.01 AND bmival<17.97) bmicat1=2.
IF sex=2 AND (intexage>=4.50 AND intexage<5) AND (bmival>=17.17 AND bmival<18.31) bmicat1=2.

IF sex=1 AND (intexage>=5 AND intexage<5.50) AND (bmival>=16.96 AND bmival<17.95 ) bmicat1=2.
IF sex=2 AND (intexage>=5 AND intexage<5.50) AND (bmival>=17.16 AND bmival<18.35) bmicat1=2.
IF sex=1 AND (intexage>=5.50 AND intexage<6) AND (bmival>=16.96 AND bmival<17.99) bmicat1=2.
IF sex=2 AND (intexage>=5.50 AND intexage<6) AND (bmival>=17.21 AND bmival<18.46) bmicat1=2.

IF sex=1 AND (intexage>=6 AND intexage<6.50) AND (bmival>=17.01 AND bmival<18.10) bmicat1=2.
IF sex=2 AND (intexage>=6 AND intexage<6.50) AND (bmival>=17.32 AND bmival<18.65) bmicat1=2.
IF sex=1 AND (intexage>=6.50 AND intexage<7) AND (bmival>=17.10 AND bmival<18.26) bmicat1=2.
IF sex=2 AND (intexage>=6.50 AND intexage<7) AND (bmival>=17.49 AND bmival<18.91) bmicat1=2.

IF sex=1 AND (intexage>=7 AND intexage<7.50) AND (bmival>=17.24 AND bmival<18.48) bmicat1=2.
IF sex=2 AND (intexage>=7 AND intexage<7.50) AND (bmival>=17.71 AND bmival<19.22) bmicat1=2.
IF sex=1 AND (intexage>=7.50 AND intexage<8) AND (bmival>=17.41 AND bmival<18.74) bmicat1=2.
IF sex=2 AND (intexage>=7.50 AND intexage<8) AND (bmival>=17.96 AND bmival<19.56) bmicat1=2.

IF sex=1 AND (intexage>=8 AND intexage<8.50) AND (bmival>=17.61 AND bmival<19.04) bmicat1=2.
IF sex=2 AND (intexage>=8 AND intexage<8.50) AND (bmival>=18.23 AND bmival<19.93) bmicat1=2.
IF sex=1 AND (intexage>=8.50 AND intexage<9) AND (bmival>=17.83 AND bmival<19.36) bmicat1=2.
IF sex=2 AND (intexage>=8.50 AND intexage<9) AND (bmival>=18.52 AND bmival<20.30) bmicat1=2.

IF sex=1 AND (intexage>=9 AND intexage<9.50) AND (bmival>=18.08 AND bmival<19.70) bmicat1=2.
IF sex=2 AND (intexage>=9 AND intexage<9.50) AND (bmival>=18.82 AND bmival<20.70) bmicat1=2.
IF sex=1 AND (intexage>=9.50 AND intexage<10) AND (bmival>=18.35 AND bmival<20.05) bmicat1=2.
IF sex=2 AND (intexage>=9.50 AND intexage<10) AND (bmival>=19.15 AND bmival<21.10) bmicat1=2.

IF sex=1 AND (intexage>=10 AND intexage<10.50) AND (bmival>=18.64 AND bmival<20.42) bmicat1=2.
IF sex=2 AND (intexage>=10 AND intexage<10.50) AND (bmival>=19.49 AND bmival<21.52) bmicat1=2.
IF sex=1 AND (intexage>=10.50 AND intexage<11) AND (bmival>=18.94 AND bmival<20.79) bmicat1=2.
IF sex=2 AND (intexage>=10.50 AND intexage<11) AND (bmival>=19.85 AND bmival<21.94) bmicat1=2.

IF sex=1 AND (intexage>=11 AND intexage<11.50) AND (bmival>=19.26 AND bmival<21.18) bmicat1=2.
IF sex=2 AND (intexage>=11 AND intexage<11.50) AND (bmival>=20.22 AND bmival<22.36) bmicat1=2.
IF sex=1 AND (intexage>=11.50 AND intexage<12) AND (bmival>=19.59 AND bmival<21.57) bmicat1=2.
IF sex=2 AND (intexage>=11.50 AND intexage<12) AND (bmival>=20.60 AND bmival<22.80) bmicat1=2.

IF sex=1 AND (intexage>=12 AND intexage<12.50) AND (bmival>=19.93 AND bmival<21.96) bmicat1=2.
IF sex=2 AND (intexage>=12 AND intexage<12.50) AND (bmival>=20.98 AND bmival<23.22) bmicat1=2.
IF sex=1 AND (intexage>=12.50 AND intexage<13) AND (bmival>=20.29 AND bmival<22.36) bmicat1=2.
IF sex=2 AND (intexage>=12.50 AND intexage<13) AND (bmival>=21.37 AND bmival<23.65) bmicat1=2.

IF sex=1 AND (intexage>=13 AND intexage<13.50) AND (bmival>=20.65 AND bmival<22.77) bmicat1=2.
IF sex=2 AND (intexage>=13 AND intexage<13.50) AND (bmival>=21.74 AND bmival<24.06) bmicat1=2.
IF sex=1 AND (intexage>=13.50 AND intexage<14) AND (bmival>=21.02 AND bmival<23.17) bmicat1=2.
IF sex=2 AND (intexage>=13.50 AND intexage<14) AND (bmival>=22.10 AND bmival<24.45) bmicat1=2.

IF sex=1 AND (intexage>=14 AND intexage<14.50) AND (bmival>=21.39 AND bmival<23.58) bmicat1=2.
IF sex=2 AND (intexage>=14 AND intexage<14.50) AND (bmival>=22.45 AND bmival<24.82) bmicat1=2.
IF sex=1 AND (intexage>=14.50 AND intexage<15) AND (bmival>=21.76 AND bmival<23.97) bmicat1=2.
IF sex=2 AND (intexage>=14.50 AND intexage<15) AND (bmival>=22.77 AND bmival<25.16) bmicat1=2.

IF sex=1 AND (intexage>=15 AND intexage<15.50) AND (bmival>=22.12 AND bmival<24.36) bmicat1=2.
IF sex=2 AND (intexage>=15 AND intexage<15.50) AND (bmival>=23.08 AND bmival<25.49) bmicat1=2.
IF sex=1 AND (intexage>=15.50 AND intexage<16) AND (bmival>=22.48 AND bmival<24.74) bmicat1=2.
IF sex=2 AND (intexage>=15.50 AND intexage<16) AND (bmival>=23.35 AND bmival<25.78) bmicat1=2.


*obesity*.
IF sex=1 AND (intexage>=2 AND intexage<2.50) AND (bmival>=19.10) bmicat1=3.
IF sex=2 AND (intexage>=2 AND intexage<2.50) AND (bmival>=18.84) bmicat1=3.
IF sex=1 AND (intexage>=2.50 AND intexage<3) AND (bmival>=18.77) bmicat1=3.
IF sex=2 AND (intexage>=2.50 AND intexage<3) AND (bmival>=18.56) bmicat1=3.

IF sex=1 AND (intexage>=3 AND intexage<3.50) AND (bmival>=18.51) bmicat1=3.
IF sex=2 AND (intexage>=3 AND intexage<3.50) AND (bmival>=18.42) bmicat1=3.
```

```
IF sex=1 AND (intexage>=3.50 AND intexage<4) AND (bmival>=18.27) bmicat1=3.
IF sex=2 AND (intexage>=3.50 AND intexage<4) AND (bmival>=18.35) bmicat1=3.

IF sex=1 AND (intexage>=4 AND intexage<4.50) AND (bmival>=18.08) bmicat1=3.
IF sex=2 AND (intexage>=4 AND intexage<4.50) AND (bmival>=18.32) bmicat1=3.
IF sex=1 AND (intexage>=4.50 AND intexage<5) AND (bmival>=17.97) bmicat1=3.
IF sex=2 AND (intexage>=4.50 AND intexage<5) AND (bmival>=18.31) bmicat1=3.

IF sex=1 AND (intexage>=5 AND intexage<5.50) AND (bmival>=17.95) bmicat1=3.
IF sex=2 AND (intexage>=5 AND intexage<5.50) AND (bmival>=18.35) bmicat1=3.
IF sex=1 AND (intexage>=5.50 AND intexage<6) AND (bmival>=17.99) bmicat1=3.
IF sex=2 AND (intexage>=5.50 AND intexage<6) AND (bmival>=18.46) bmicat1=3.

IF sex=1 AND (intexage>=6 AND intexage<6.50) AND (bmival>=18.10) bmicat1=3.
IF sex=2 AND (intexage>=6 AND intexage<6.50) AND (bmival>=18.65) bmicat1=3.
IF sex=1 AND (intexage>=6.50 AND intexage<7) AND (bmival>=18.26) bmicat1=3.
IF sex=2 AND (intexage>=6.50 AND intexage<7) AND (bmival>=18.91) bmicat1=3.

IF sex=1 AND (intexage>=7 AND intexage<7.50) AND (bmival>=18.48) bmicat1=3.
IF sex=2 AND (intexage>=7 AND intexage<7.50) AND (bmival>=19.22) bmicat1=3.
IF sex=1 AND (intexage>=7.50 AND intexage<8) AND (bmival>=18.74) bmicat1=3.
IF sex=2 AND (intexage>=7.50 AND intexage<8) AND (bmival>=19.56) bmicat1=3.

IF sex=1 AND (intexage>=8 AND intexage<8.50) AND (bmival>=19.04) bmicat1=3.
IF sex=2 AND (intexage>=8 AND intexage<8.50) AND (bmival>=19.93) bmicat1=3.
IF sex=1 AND (intexage>=8.50 AND intexage<9) AND (bmival>=19.36) bmicat1=3.
IF sex=2 AND (intexage>=8.50 AND intexage<9) AND (bmival>=20.30) bmicat1=3.

IF sex=1 AND (intexage>=9 AND intexage<9.50) AND (bmival>=19.70) bmicat1=3.
IF sex=2 AND (intexage>=9 AND intexage<9.50) AND (bmival>=20.70) bmicat1=3.
IF sex=1 AND (intexage>=9.50 AND intexage<10) AND (bmival>=20.05) bmicat1=3.
IF sex=2 AND (intexage>=9.50 AND intexage<10) AND (bmival>=21.10) bmicat1=3.

IF sex=1 AND (intexage>=10 AND intexage<10.50) AND (bmival>=20.42) bmicat1=3.
IF sex=2 AND (intexage>=10 AND intexage<10.50) AND (bmival>=21.52) bmicat1=3.
IF sex=1 AND (intexage>=10.50 AND intexage<11) AND (bmival>=20.79) bmicat1=3.
IF sex=2 AND (intexage>=10.50 AND intexage<11) AND (bmival>=21.94) bmicat1=3.

IF sex=1 AND (intexage>=11 AND intexage<11.50) AND (bmival>=21.18) bmicat1=3.
IF sex=2 AND (intexage>=11 AND intexage<11.50) AND (bmival>=22.36) bmicat1=3.
IF sex=1 AND (intexage>=11.50 AND intexage<12) AND (bmival>=21.57) bmicat1=3.
IF sex=2 AND (intexage>=11.50 AND intexage<12) AND (bmival>=22.80) bmicat1=3.

IF sex=1 AND (intexage>=12 AND intexage<12.50) AND (bmival>=21.96) bmicat1=3.
IF sex=2 AND (intexage>=12 AND intexage<12.50) AND (bmival>=23.22) bmicat1=3.
IF sex=1 AND (intexage>=12.50 AND intexage<13) AND (bmival>=22.36) bmicat1=3.
IF sex=2 AND (intexage>=12.50 AND intexage<13) AND (bmival>=23.65) bmicat1=3.

IF sex=1 AND (intexage>=13 AND intexage<13.50) AND (bmival>=22.77) bmicat1=3.
IF sex=2 AND (intexage>=13 AND intexage<13.50) AND (bmival>=24.06) bmicat1=3.
IF sex=1 AND (intexage>=13.50 AND intexage<14) AND (bmival>=23.17) bmicat1=3.
IF sex=2 AND (intexage>=13.50 AND intexage<14) AND (bmival>=24.45) bmicat1=3.

IF sex=1 AND (intexage>=14 AND intexage<14.50) AND (bmival>=23.58) bmicat1=3.
IF sex=2 AND (intexage>=14 AND intexage<14.50) AND (bmival>=24.82) bmicat1=3.
IF sex=1 AND (intexage>=14.50 AND intexage<15) AND (bmival>=23.97) bmicat1=3.
IF sex=2 AND (intexage>=14.50 AND intexage<15) AND (bmival>=25.16) bmicat1=3.

IF sex=1 AND (intexage>=15 AND intexage<15.50) AND (bmival>=24.36) bmicat1=3.
IF sex=2 AND (intexage>=15 AND intexage<15.50) AND (bmival>=25.49) bmicat1=3.
IF sex=1 AND (intexage>=15.50 AND intexage<16) AND (bmival>=24.74) bmicat1=3.
IF sex=2 AND (intexage>=15.50 AND intexage<16) AND (bmival>=25.78) bmicat1=3.
IF bmiok<>1 bmicat1=-1.
if age<2 or age>=16 bmicat1=-1.
VAR LAB bmicat1 '(D) BMI standards (85th/95th centile) updated 08'.
value labels bmicat1
1 'Normal-weight'
2 'Over-weight'
3 'Obese'.
exe.

RECODE bmicat1 (1=1) (2 thru 3=2)(else=copy) INTO bmicat2.
VAR LAB bmicat2 '(D) BMI status (ovrght inc. obese)'.
VAL LAB bmicat2
 1 'Neither overweight nor obese'
 2 'Overweight incl. obese'.

RECODE bmicat1 (1 thru 2=1) (3=2)(else=copy) INTO bmicat3.
VAR LAB bmicat3 '(D) BMI status (non-obese vs obese)'.
VAL LAB bmicat3
 1 'Non-obese'
 2 'Obese'.
exe.
```

WSTVAL: (D) Valid Mean Waist (cm)
HIPVAL: (D) Valid Mean Hip (cm)
WHVAL: (D) Valid Mean Waist/Hip ratio

SPSS Syntax

```
COMPUTE wstval=-1.
IF wstok=1 wstval=(waist1+waist2)/2.
IF wstok=2 wstval=(waist1+waist3)/2.
IF wstok=3 wstval=(waist2+waist3)/2.
IF wstok=4 wstval=(waist1+waist2+waist3)/3.
VARIABLE LABEL wstval "(D) Valid Mean Waist (cm)".

COMPUTE hipval=-1.
IF hipok=1 hipval=(hip1+hip2)/2.
IF hipok=2 hipval=(hip1+hip3)/2.
IF hipok=3 hipval=(hip2+hip3)/2.
IF hipok=4 hipval=(hip1+hip2+hip3)/3.
VARIABLE LABEL hipval "(D) Valid Mean Hip (cm)".

COMPUTE whval=-1.
IF whok=1 whval=wstval/hipval.
VARIABLE LABEL whval "(D) Valid Mean Waist/Hip ratio"
```

MENWHGP: (D) Male waist-hip ratio (grouped)

1	Less than 0.80
2	0.80, less than 0.85
3	0.85, less than 0.90
4	0.90, less than 0.95
5	0.95, less than 1.00
6	1.00 or more

MENWHHI: (D) Male high waist-hip ratio

1	Less than 0.95
2	0.95 or more

SPSS Syntax

```
do if sex=1.
RECODE whokb (-99 thru -1=COPY)(2 thru 5=-1) into menwhgp.
RECODE whval (1.00 thru hi=6)(0.95 thru 1.00=5)(0.90 thru 0.95=4)(0.85 thru 0.90=3)
  (0.80 thru 0.85=2)(0.01 thru 0.80=1) into menwhgp.
recode menwhgp (1 thru 4=1)(5,6=2)(-99 thru -1=copy) into menwhhi.
VAR LAB menwhgp '(D) Male waist hip ratio groups'.
VAL LAB menwhgp
    1 'Less than 0.80'
    2 '0.80, less than 0.85'
    3 '0.85, less than 0.90'
    4 '0.90, less than 0.95'
    5 '0.95, less than 1.00'
    6 '1.00 or more'.
VAR LAB menwhhi '(D) Male high waist hip ratio'.
VAL LAB menwhhi
  1 'Less than 0.95'
  2 '0.95 or more'.
end if.
if sex=2 menwhgp=-1.
if sex=2 menwhhi=-1.
if age<=15 menwhgp=-1.
if age<=15 menwhhi=-1.
```

WOMWHGP: (D) Female waist-hip ratio (grouped)

1	Less than 0.70
2	0.70, less than 0.75
3	0.75, less than 0.80
4	0.90, less than 0.85
5	0.85, less than 0.90
1	0.90 or more
-90	Pregnant

WOMWHHI: (D) Female high waist-hip ratio

1	Less than 0.85
2	0.85 or more
-90	Pregnant

SPSS Syntax

```
do if sex=2.
RECODE whokb (-99 thru -1=COPY)(2 thru 5=-1) into womwhgp.
RECODE whval (0.90 thru hi=6)(0.85 thru 0.90=5)(0.80 thru 0.85=4)(0.75 thru 0.80=3)
  (0.70 thru 0.75=2)(0.01 thru 0.70=1) into womwhgp.
recode womwhgp (1 thru 4=1)(5,6=2)(-99 thru -1=copy) into womwhhi.
VAR LAB womwhgp '(D) Male waist hip ratio groups'.
VAL LAB womwhgp
    1 'Less than 0.70'
    2 '0.70, less than 0.75'
    3 '0.75, less than 0.80'
    4 '0.80, less than 0.85'
    5 '0.85, less than 0.90'
    6 '0.90 or more'
    -90 'Pregnant'.
VAR LAB womwhhi '(D) Male high waist hip ratio'.
VAL LAB womwhhi
  1 'Less than 0.85'
  2 '0.85 or more'
-90 'Pregnant'.
end if.
if sex=1 womwhgp=-1.
if sex=1 womwhhi=-1.
if age<=15 womwhgp=-1.
if age<=15 womwhhi=-1
```

Waist and Hip Admin

WSTOKB: (D) Whether waist measurements are valid

1 Usable 1st & 2nd measurements
2 Usable 1st & 3rd measurements
3 Usable 2nd & 3rd measurements
4 Usable 1st & 2nd & 3rd measurements
5 Not useable: unreliable
6 Not useable: difference > 3cm
7 Partial response
8 Refused
9 Not attempted
-90 Pregnant

HIPOKB: (D) Whether hip measurements are valid

1 Usable 1st & 2nd measurements
2 Usable 1st & 3rd measurements
3 Usable 2nd & 3rd measurements
4 Usable 1st & 2nd & 3rd measurements
5 Not useable: unreliable
6 Not useable: difference > 3cm
7 Partial response
8 Refused
9 Not attempted
-90 Pregnant

WHOKB: (D) Whether waist/hip measurements are valid

1 Valid
2 Waist/Hip not usuable
3 Waist/Hip partial response
4 Waist/Hip refused
5 Waist/Hip not attempted
-90 Pregnant

Obtained readings are coded as valid initially and then reset to not usable if the interviewer has indicated that they are unreliable. In the syntax for WHOKB, each line takes precedence over the previous line, such that it WSTOKB=7 and HIPOKB=8, then WHOKB=4

SPSS Syntax

```
RECODE respwh (1=1)(2=7)(3=8)(4=9)(-6,-2,-1=COPY) INTO wstokb.
COMPUTE xxwst12=abs(waist1-waist2).
COMPUTE xxwst13=abs(waist1-waist3).
COMPUTE xxwst23=abs(waist2-waist3).
IF respwh=1 & xxwst12<=3 & any(wjrel,1,2,3) wsokb=1.
DO IF respwh=1 & xxwst12>3.
COMPUTE wstokb=6.
IF xxwst13<=3 wstokb=2.
IF xxwst23<=3 wstokb=3.
IF xxwst13<=3 & xxwst23<=3 wstokb=4.
END IF.
IF ANY(wjrel,4,-9) wstokb=5.
```

```
IF pregntj=1 wstokb=-90.
IF age<=11 wstokb=-1.
VARIABLE LABELS wstokb "(D) Whether waist measurements are valid".
VALUE LABELS wstokb
 1 'Usable 1st & 2nd measurements'
 2 'Usable 1st & 3rd measurements'
 3 'Usable 2nd & 3rd measurements'
 4 'Usable 1st & 2nd & 3rd measurements'
 5 'Not useable: unreliable'
 6 'Not useable: difference > 3cm'
 7 'Partial response'
 8 'Refused'
 9 'Not attempted'
 -90 "Pregnant".

RECODE respwh (1=1)(2=7)(3=8)(4=9)(-6,-2,-1=COPY) INTO hipokb.
COMPUTE xxhip12=abs(hip1-hip2).
COMPUTE xxhip13=abs(hip1-hip3).
COMPUTE xxhip23=abs(hip2-hip3).
IF respwh=1 & xxhip12<=3 & any(hjrel,1,2,3) hipokb=1.
DO IF respwh=1 & xxhip12>3.
COMPUTE hipokb=6.
IF xxhip13<=3 hipokb=2.
IF xxhip23<=3 hipokb=3.
IF xxhip13<=3 & xxhip23<=3 hipokb=4.
END IF.
IF ANY(hjrel,4,-9) hipokb=5.
IF pregntj=1 hipokb=-90.
IF age<=11 hipokb=-1.
VARIABLE LABELS hipokb "(D) Whether hip measurements are valid".
VALUE LABELS hipokb
 1 'Usable 1st & 2nd measurements'
 2 'Usable 1st & 3rd measurements'
 3 'Usable 2nd & 3rd measurements'
 4 'Usable 1st & 2nd & 3rd measurements'
 5 'Not useable: unreliable'
 6 'Not useable: difference > 3cm'
 7 'Partial response'
 8 'Refused'
 9 'Not attempted'
 -90 "Pregnant".

RECODE wstokb(-6,-2,-1=COPY) into whokb.
IF RANGE(wstokb,1,4) & RANGE(hipokb,1,4) whokb=1.
IF ANY(5,wstokb,hipokb) | ANY(6,wstokb,hipokb) whokb=2.
IF ANY(7,wstokb,hipokb) whokb=3.
IF ANY(8,wstokb,hipokb) whokb=4.
IF ANY(9,wstokb,hipokb) whokb=5.
IF hipok=-90 whokb=-90.
IF age<=11 whokb=-1.
VARIABLE LABELS whokb "(D) Whether waist/hip measure is valid".
VALUE LABELS whokb
  1 "Valid"
  2 "Waist/Hip not usable"
  3 "Waist/Hip partial response"
  4 "Waist/Hip refused"
  5 "Waist/Hip not attempted"
 -90 "Pregnant".
```

Blood Pressure

Admin

BPRESPC: (D) Whether BP readings are valid

1 Valid BP measurement
2 Ate, drank, smoked, exercised in previous half hour
3 Not known if ate, drank, smoked or exercised
4 Three valid readings not obtained
5 Pregnant
6 Refused, not obtained, not attempted

```
SPSS Syntax

RECODE respbps (1=1)(2,3=4)(4,5,6=6)(-9 thru -1=COPY) into bprespc.
IF ANY(full1,2,-8,-9) | ANY(full2,2,-8,-9) | ANY(full3,2,-8,-9) bprespc=4.
IF (respbps = 1 & ANY(1,consbx11,consbx12,consbx13,consbx14)) bprespc= 2.
IF (respbps = 1 & ANY(-9, consbx11,consbx12,consbx13,consbx14)) bprespc= 3.
IF (respbps = 1 & ANY (1,consbx21,consbx22)) bprespc= 2.
IF (respbps = 1 & ANY(-9,consbx21,consbx22)) bprespc= 3.
IF (pregntj = 1) bprespc = 5.
VARIABLE LABEL bprespc "(D) Whether BP readings are valid".
VALUE LABELS bprespc 1 'Valid blood pressure measurement'
                     2 'Ate, drank, smoked, exercised in previous half hour'
                     3 'Not known if ate, drank, smoked or exercised '
                     4 'Three valid readings not obtained'
                     5 'Pregnant'
                     6 'Refused, attempted but not obtained, not attempted'.
```

Measurements

In 2003 Blood pressure equipment was changed from Diamap to Omron. Blood pressure variables have been derived initially using the Omron measurements then a calibration factor was used to convert readings to a Dinamap equivalent. The variables therefore have an OM or DI suffix to denote the different measurements

HYPER1OM: (D) Hypertensive categories: all prescribed drugs for BP (Omron readings)
HYPER2OM: (D) Hypertensive categories: all taking BP drugs (Omron readings)
HY140OM: (D) Hypertensive categories: 140/90: all prescribed drugs for BP (Omron readings)
HYPER1DI: (D) Hypertensive categories: all prescribed drugs for BP (Dinamap readings)
HYPER2DI: (D) Hypertensive categories: all taking BP drugs (Dinamap readings)
HY140DI: (D) Hypertensive categories: 140/90: all prescribed drugs for BP (Dinamap readings)

1 Normotensive untreated
2 Normotensive treated
3 Hypertensive treated
4 Hypertensive untreated
-7 Refused, attempted but not obtained, not attempted'.

HYPER1 considers people as being 'treated' only if they have been prescribed a drug specifically to reduce blood pressure, whereas HYPER2 categorises people as 'treated' if they are taking any drug that lowers blood pressure regardless of the reason that it has been prescribed. The syntax uses variables derived in the General Health section under Prescribed Medication: Drugs affecting blood analytes.

```
SPSS Syntax

RECODE bprespc (2 thru 5,-1=-1)(-6,-2=COPY)(6=-7) INTO hyper1om.
DO IF bprespc=1.
IF ANY(bpmedd,0,-1) & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper1om=1.
IF bpmedd=1 & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper1om=2.
IF bpmedd=1 & (omsyst>=160 | omdiast>=95) hyper1om=3.
IF ANY(bpmedd,0,-1) & (omsyst>=160 | omdiast>=95) hyper1om=4.
END IF.
IF (bpmedd = -9) hyper1om = -9 .
RECODE hyper1om (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp1om.
VARIABLE LABELS hyper1om
 "(D) Hypertensive categories: all prescribed drugs for BP (Omron readings)" .
VALUE LABELS hyper1om
    1 'Normotensive untreated'
```

```
    2 'Normotensive treated'
    3 'Hypertensive treated'
    4 'Hypertensive untreated'
   -7 'Refused, attempted but not obtained, not attempted'.
VARIABLE LABELS hibp1om "(D) Whether hypertensive: all prescribed drugs for BP (Omron readings)".
VALUE LABELS hibp1om
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE bprespc (2 thru 5,-1=-1)(-6,-2=COPY)(6=-7) INTO hyper2om.
DO IF bprespc=1.
IF
ANY(bpmedc,0,-1) & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper2om=1.
IF bpmedc=1 & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper2om=2.
IF bpmedc=1 & (omsyst>=160 | omdiast>=95) hyper2om=3.
IF ANY(bpmedc,0,-1) & (omsyst>=160 | omdiast>=95) hyper2om=4.
END IF.
IF (bpmedc = -9) hyper2om = -9 .
VARIABLE LABELS hyper2om
 "(D) Hypertensive categories: all taking BP drugs (Omron readings)" .
VALUE LABELS hyper2om
    1 'Normotensive untreated'
    2 'Normotensive treated'
    3 'Hypertensive treated'
    4 'Hypertensive untreated'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE bprespc(2 thru 5,-1=-1)(-6,-2=COPY)(6=-7)  INTO hy140om.
DO IF bprespc=1.
IF ANY(bpmedd,0,-1) & RANGE(omsyst,0,139.999) &  RANGE(omdiast,0,89.999)
  hy140om=1.
IF bpmedd=1 & RANGE(omsyst,0,139.999) &  RANGE(omdiast,0,89.999)
  hy140om=2.
IF bpmedd=1 & (omsyst>=140 | omdiast>=90)  hy140om=3.
IF ANY(bpmedd,0,-1) & (omsyst>=140 |  omdiast>=90) hy140om=4.
END IF.
IF (bpmedd = -9) hy140om = -9 .
VARIABLE LABELS hy140om
 "(D) Hypertensive categories:140/90: all  prescribed drugs for BP (Omron readings)" .
VALUE LABELS hy140om
    1 'Normotensive untreated'
    2 'Normotensive treated'
    3 'Hypertensive treated'
    4 'Hypertensive untreated'
     -7 'Refused, attempted but not obtained, not attempted'.

RECODE bprespc (2 thru 5,-1=-1)(-6,-2=COPY)(6=-7) INTO hyper1di.
DO IF bprespc=1.
IF ANY(bpmedd,0,-1) & RANGE(dinasyst,0,159.999) & RANGE(dinadias,0,94.999)
  hyper1di=1.
IF bpmedd=1 & RANGE(dinasyst,0,159.999) & RANGE(dinadias,0,94.999)
  hyper1di=2.
IF bpmedd=1 & (dinasyst>=160 | dinadias>=95) hyper1di=3.
IF ANY(bpmedd,0,-1) & (dinasyst>=160 | dinadias>=95) hyper1di=4.
END IF.
IF (bpmedd = -9) hyper1di = -9 .
VARIABLE LABELS hyper1di
 "(D) Hypertensive categories: all prescribed drugs for BP (Dianmap readings)" .
VALUE LABELS hyper1di
    1 'Normotensive untreated'
    2 'Normotensive treated'
    3 'Hypertensive treated'
    4 'Hypertensive untreated'
   -7 'Refused, attempted but not obtained, not attempted'.

RECODE bprespc (2 thru 5,-1=-1)(-6,-2=COPY)(6=-7) INTO hyper2di.
DO IF bprespc=1.
IF ANY(bpmedc,0,-1) & RANGE(dinasyst,0,159.999) & RANGE(dinadias,0,94.999)
  hyper2di=1.
IF bpmedc=1 & RANGE(dinasyst,0,159.999) & RANGE(dinadias,0,94.999)
  hyper2di=2.
IF bpmedc=1 & (dinasyst>=160 | dinadias>=95) hyper2di=3.
IF ANY(bpmedc,0,-1) & (dinasyst>=160 | dinadias>=95) hyper2di=4.
END IF.
IF (bpmedc = -9) hyper2di = -9 .
VARIABLE LABELS hyper2di
 "(D) Hypertensive categories: all taking BP drugs (Dinamap readings)" .
VALUE LABELS hyper2di
    1 'Normotensive untreated'
    2 'Normotensive treated'
    3 'Hypertensive treated'
    4 'Hypertensive untreated'
  -7 'Refused, attempted but not obtained, not attempted'.
```

```
RECODE bprespc(2 thru 5,-1=-1)(-6,-2=COPY)(6=-7)  INTO hy140di.
DO IF bprespc=1.
IF ANY(bpmedd,0,-1) & RANGE(dinasyst,0,139.999) &  RANGE(dinadias,0,89.999)
  hy140di=1.
IF bpmedd=1 & RANGE(dinasyst,0,139.999) &  RANGE(dinadias,0,89.999)
  hy140di=2.
IF bpmedd=1 & (dinasyst>=140 | dinadias>=90)  hy140di=3.
IF ANY(bpmedd,0,-1) & (dinasyst>=140 | dinadias>=90) hy140di=4.
END IF.
IF (bpmedd = -9) hy140di = -9 .
VARIABLE LABELS hy140di
 "(D) Hypertensive categories:140/90: all  prescribed drugs for BP (Dinamap readings)" .
VALUE LABELS hy140di
    1 'Normotensive untreated'
    2 'Normotensive treated'
    3 'Hypertensive treated'
    4 'Hypertensive untreated'
     -7 'Refused, attempted but not obtained, not attempted'.
```

HIBP1OM: (D) Whether hypertensive: all prescribed drugs for BP (Omron readings)
HIBP2OM: (D) Whether hypertensive: all taking BP drugs (Omron readings)
HBP140OM: (D) Whether hypertensive:140/90: all prescribed drugs for BP (Omron readings)
HIBP1DI: (D) Whether hypertensive: all prescribed drugs for BP (Dinamap readings)
HIBP2DI: (D) Whether hypertensive: all taking BP drugs (Dinamap readings)
HBP140DI: (D) Whether hypertensive:140/90: all prescribed drugs for BP (Dinamap readings)

0 Not high BP
1 High BP

HIGHBP1 corresponds to HYPER1, whereas HIGHBP2 corresponds to HYPER2. The class of people who would be assigned to different categories are those who are taking drugs which lower blood pressure, but have not been prescribed the drugs specifically to lower their blood pressure and who have a normotensive blood pressure reading. These people would be recorded as having high blood pressure in HIGHBP2, but not high blood pressure in HIGHBP1.

SPSS Syntax

```
RECODE hyper1om (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp1om.
VARIABLE LABELS hibp1om "(D) Whether hypertensive: all prescribed drugs for BP (Omron readings)".
VALUE LABELS hibp1om
  0 'Not high BP'
  1 'High BP'.
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hyper2om (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp2om.
VARIABLE LABELS hibp2om "(D) Whether hypertensive: all taking BP drugs (Omron readings)".
VALUE LABELS hibp2om
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hy140om (lo thru -1=COPY)(1=0)(2,3,4=1)  INTO hbp140om.
VARIABLE LABELS hbp140om "(D) Whether  hypertensive:140/90: all prescribed drugs for BP (Omron readings)".
VALUE LABELS hbp140om
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hyper1di (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp1di.
VARIABLE LABELS hibp1di "(D) Whether hypertensive: all prescribed drugs for BP (Dinamap readings)".
VALUE LABELS hibp1di
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hyper2di (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp2di
VARIABLE LABELS hibp2di "(D) Whether hypertensive: all taking BP drugs (Dinamap readings)".
VALUE LABELS hibp2di
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hy140di (lo thru -1=COPY)(1=0)(2,3,4=1)  INTO hbp140di.
VARIABLE LABELS hbp140di "(D) Whether  hypertensive:140/90: all prescribed drugs for BP (Dinamap
readings)".
VALUE LABELS hbp140di
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.
```

OMDIAVAL: (D) Omron Valid Mean Diastolic BP
OMSYSVAL: (D) Omron Valid Mean Systolic BP
OMMAPVAL: (D) Omron Valid Mean Arterial Pressure
OMPULVAL: (D) Omron Valid Pulse Pressure
DIDIAVAL: (D) Dinamap Valid Mean Diastolic BP
DISYSVAL: (D) Dinamap Valid Mean Systolic BP
DIMAPVAL: (D) Dinamap Valid Mean Arterial Pressure
DIPULVAL: (D) Dinamap Valid Pulse Pressure

SPSS Syntax

```
DO REPEAT omval=omdiaval omsysval ommapval ompulval.
RECODE bprespc (lo thru 0=COPY)(2,5=-1)(3,4=-8)(6=-7) INTO omval.
END REPEAT.
DO IF bprespc=1.
COMPUTE omdiaval=omdiast.
COMPUTE omsysval=omsyst.
COMPUTE ommapval=ommap.
COMPUTE ompulval=ompuls.
END IF.
VARIABLE LABELS omdiaval "(D) Omron Valid Mean Diastolic BP" .
VARIABLE LABELS omsysval "(D) Omron Valid Mean Systolic BP" .
VARIABLE LABELS ommapval "(D) Omron Valid Mean Arterial Pressure" .
VARIABLE LABELS ompulval "(D) Omron Valid Pulse Pressure" .

DO REPEAT dinaval=didiaval disysval dimapval dipulval.
RECODE bprespc (lo thru 0=COPY)(2,5=-1)(3,4=-8)(6=-7) INTO dinaval.
END REPEAT.
DO IF bprespc=1.
COMPUTE didiaval=dinadias.
COMPUTE disysval=dinasyst.
COMPUTE dimapval=dinamap.
COMPUTE dipulval=dinapuls.
END IF.
VARIABLE LABELS didiaval "(D) Dinamap Valid Mean Diastolic BP" .
VARIABLE LABELS disysval "(D) Dinamap Valid Mean Systolic BP" .
VARIABLE LABELS dimapval "(D) Dinamap Valid Mean Arterial Pressure" .
VARIABLE LABELS dipulval "(D) Dinamap Valid Pulse Pressure" .
```

OMDIAST: (D) Omron Diastolic BP (mean 2nd/3rd) inc. invalid
OMSYST: (D) Omron Systolic BP (mean 2nd/3rd) inc. invalid
OMMAP: (D) Omron Mean arterial pressure (mean 2nd/3rd) inc. invalid
OMPULS: (D) Omron Pulse pressure, systolic-diastolic inc. invalid
DINADIAS: (D) Dinamap Diastolic BP (mean 2nd/3rd) inc. invalid (converted from Omron)
DINASYST: (D) Dinamap Systolic BP (mean 2nd/3rd) inc. invalid (converted from Omron)
DINAMAP: (D) Dinamap Mean arterial pressure (mean 2nd/3rd) inc. invalid (converted from Omron)
DINAPULS: (D) Dinamap Pulse pressure, systolic-diastolic inc. invalid (converted from Omron)

These set of variables take the average of the second and third BP readings, where the nurse has recorded that three valid readings were taken. The variables include people whose values are unreliable in that they have eaten, drank, smoked or exercised in the last half hour. To look at valid cases only, use the DIAVAL, SYSVAL, MAPVAL and PULVAL set of variables.

SPSS Syntax

```
DO REPEAT ommeas = omdiast omsyst ommap ompuls.
RECODE respbps (lo thru 0=COPY)(4 thru 6=-7)(2 thru 3=-9) INTO ommeas.
END REPEAT.
DO IF (respbps = 1).
COMPUTE omdiast = (dias2om + dias3om)/2.
COMPUTE omsyst = (sys2om + sys3om)/2.
COMPUTE ommap = (map2om + map3om)/2.
COMPUTE ompuls = omsyst-omdiast.
END IF.
VARIABLE LABELS omdiast "(D) Omron Diastolic BP (mean 2nd/3rd) inc. invalid" .
VARIABLE LABELS omsyst "(D) Omron Systolic BP (mean 2nd/3rd) inc. invalid" .
VARIABLE LABELS ommap "(D) Omron Mean arterial pressure (mean 2nd/3rd) inc. invalid" .
VARIABLE LABELS ompuls "(D) Omron Pulse pressure, systolic-diastolic inc. invalid" .
VALUE LABELS ompuls -7 'Refused, attempted but not obtained, not attempted'.

DO REPEAT dimeas = dinadias dinasyst dinamap dinapuls.
RECODE respbps (lo thru 0=COPY)(4 thru 6=-7)(2 thru 3=-9) INTO dimeas.
END REPEAT.
```

```
DO IF respbps = 1 & age>=16.
compute dinasyst=(omsyst*0.88)+18.56.
compute dinadias=(omdiast*0.89)+6.5.
compute dinamap=ommap.
compute dinapuls=dinasyst-dinadias.
end if.
DO IF respbps = 1 & age<16 & sex=1.
compute dinasyst=(omsyst*1.025).
compute dinadias=(omdiast*0.934).
compute dinamap=ommap.
compute dinapuls=dinasyst-dinadias.
end if.
DO IF respbps = 1 & age<16 & sex=2.
compute dinasyst=(omsyst*1.040).
compute dinadias=(omdiast*0.915).
compute dinamap=ommap.
compute dinapuls=dinasyst-dinadias.
end if.
VARIABLE LABELS dinadias "(D) Dinamap Diastolic BP (mean 2nd/3rd) inc. invalid (converted from Omron)" .
VARIABLE LABELS dinasyst "(D) Dinamap Systolic BP (mean 2nd/3rd) inc. invalid (converted from Omron)" .
VARIABLE LABELS dinamap "(D) Dinamap Mean arterial pressure (mean 2nd/3rd) inc. invalid (converted from
Omron)" .
VARIABLE LABELS dinapuls "(D) Dinamap Pulse pressure, systolic-diastolic inc. invalid (converted from
Omron)" .
VALUE LABELS dinapuls -7 'Refused, attempted but not obtained, not attempted (converted from Omron)'.
```

Drinking

Adults General

DNOFT3: (D) Frequency drink alcohol in past 12 months: including non-drinkers

1 Almost every day
2 Five or six days a week
3 Three or four days a week
4 Once or twice a week
5 Once or twice a month
6 Once every couple of months
7 Once or twice a year
8 Not at all in the last 12 months/Non-drinker

SPSS Syntax

```
compute dnoft3=dnoft.
recode dnany(2=8)(-9,-8=COPY) into dnoft3.
recode dnnow(-9,-8=COPY) into dnoft3.
variable labels dnoft3 "(D) Frequency drink alcohol in past 12 months: including non-drinkers".
value labels dnoft3
  1 "Almost every day"
  2 "Five or six days a week"
  3 "Three or four days a week"
  4 "Once or twice a week"
  5 "Once or twice a month"
  6 "Once every couple of months"
  7 "Once or twice a year"
  8 "Not at all in the last 12 months/Non-drinker".
```

Adults 7 Days[1]

D7UNITWG: (D) NEW Units drunk on heaviest day in last 7
D7UNITWGRP: (D) NEW Units drunk on heaviest day in last 7 (grouped)

1 <2 units
2 2<3 units
3 3<4 units
4 4<5 units
5 5<6 units
6 6<8 units
7 8+ units

SPSS Syntax

```
COMPUTE d7unitwg=0.
IF (nberqhp7>0) d7unitwg=d7unitwg+nberqhp7.
IF (nberqsm7>0) d7unitwg=d7unitwg+nberqsm7*1.5.
IF (nberqlg7>0) d7unitwg=d7unitwg+nberqlg7*2.
IF (nberqbt7>0) d7unitwg=d7unitwg+nberqbt7*norbot.
IF (nberqpt7>0) d7unitwg=d7unitwg+nberqpt7*2.
IF (sberqhp7>0) d7unitwg=d7unitwg+sberqhp7*2.
IF (sberqpt7>0) d7unitwg=d7unitwg+sberqpt7*4.
IF (sberqsm7>0) d7unitwg=d7unitwg+sberqsm7*2.
IF (sberqbt7>0) d7unitwg=d7unitwg+sberqbt7*strbot.
IF (sberqlg7>0) d7unitwg=d7unitwg+sberqlg7*3.
IF (spirqme7>0) d7unitwg=d7unitwg+spirqme7.
IF (sherqgs7>0) d7unitwg=d7unitwg+sherqgs7.
IF (wgls250ml>0) d7unitwg=d7unitwg+wgls250ml*3.0.
IF (wgls175ml>0) d7unitwg=d7unitwg+wgls175ml*2.0.
IF (wgls125ml>0) d7unitwg=d7unitwg+wgls125ml*1.5.
IF (wl7bt>0) d7unitwg=d7unitwg+wl7bt*1.5.
IF (popsqsm7>0) d7unitwg=d7unitwg+popsqsm7*1.5.
IF ANY(-9,nberqhp7,nberqsm7,nberqlg7,nberqbt7,nberqpt7,
  sberqhp7, sberqsm7,sberqlg7,sberqbt7,sberqpt7,spirqme7, sherqgs7,
  wgls250ml,wgls175ml,wgls125ml,wl7bt, popsqsm7) d7unitwg=-9.
IF ANY(-8,nberqhp7,nberqsm7,nberqlg7,nberqbt7,nberqpt7,
  sberqhp7, sberqsm7,sberqlg7,sberqbt7,sberqpt7,spirqme7, sherqgs7,
  wgls250ml,wgls175ml,wgls125ml,wl7bt, popsqsm7) d7unitwg=-8.
```

[1] Please note that in 2007 new questions were added asking which glass size was used when wine was consumed. Therefore the post HSE 2007 unit calculations are not directly comparable to previous years' data.

```
IF ANY(-6,nberqhp7,nberqsm7,nberqlg7,nberqbt7,nberqpt7,
  sberqhp7, sberqsm7,sberqlg7,sberqbt7,sberqpt7,spirqme7, sherqgs7,
  wgls250ml,wgls175ml,wgls125ml,wl7bt, popsqsm7) d7unitwg=-6.
IF any(d7day,2,-1) d7unitwg=-1.
VARIABLE LABEL d7unitwg"(D) NEW Units drunk on heaviest day in last 7 (16yrs+)".

recode d7unitwg (0 thru 2=1)(2 thru 3=2)(3 thru 4=3)(4 thru 5=4)(5 thru 6=5)(6 thru 8=6)(8 thru hi=7)
(else=copy) into d7unitwgrp .
variable label d7unitwgrp "(D) NEW units drunk on heaviest day in last 7 (16yrs+)".
value labels d7unitwgrp
 1 "Up to and including 2"
 2 "Over 2 and up to (& including) 3"
 3 "Over 3 and up to (& including) 4"
 4 "Over 4 and up to (& including) 5"
 5 "Over 5 and up to (& including) 6"
 6 "Over 6 and up to (& including) 8"
 7 "Over 8+".
```

D7MANY3: (D) Number of days drank in last week, including none

```
SPSS Syntax

Compute d7many3=d7many.
if any(2,dnany,d7day) d7many3=0.
if dnoft2=8 d7many3=0.
variable labels d7many3 "(D) Number of days drank in last week, including none".
```

ALCLIMIT: (D) Alcohol units – limits based on (variable drevutg) units per day".

0 'None'
1 '<=4 units/day (men), <=3 (women)'
2 '>4 and <= 8 (men), >3 and less than or equal to 6 (women)'
3 'greater than 8 units (men), greater than 6 units (women)'.

```
SPSS Syntax

compute wdrink07B=-5.
DO if sex=2.
recode d7unitwgrp (6 thru 7=3)(3 thru 5=2)(1 thru 2=1)
 (else=copy) into wdrink07B.
recode d7many3 (0=0) into wdrink07B.
END if.
variable labels wdrink07B "(D) NEW Women number of units".
value labels wdrink07B
-5 'Men'
0 'none'
1 'Up to and including 3 units'
2 'greater than 3 and less than or equal to 6 units'
3 'greater than 6 units'.
execute.

compute mdrink07B=-5.
DO if sex=1.
recode d7unitwgrp (7=3)(4 thru 6=2)(1 thru 3=1)
 (else=copy) into mdrink07B.
recode d7many3 (0=0) into mdrink07B.
END if.
variable labels mdrink07B "(D) Men number of units".
value labels mdrink07B
-5 'women'
0 'none'
1 'Up to and including 4 units'
2 'greater than 4 and less than or equal to 8 units'
3 'greater than 8 units'.
execute.

missing values wdrink07B mdrink07B().
COMPUTE alclimit07B =-1.
if (mdrink07B=0) alclimit07B =0.
IF (mdrink07B=1) alclimit07B =1.
IF mdrink07B=2 alclimit07B =2.
IF mdrink07B=3 alclimit07B =3.
if (wdrink07B=0) alclimit07B =0.
IF (wdrink07B=1) alclimit07B =1.
IF wdrink07B=2 alclimit07B =2.
IF wdrink07B=3 alclimit07B =3.
if ((wdrink07B=-8|wdrink07B=-9|wdrink07B=-1) and (mdrink07B=-1|mdrink07B=-9|mdrink07B=-8)) alclimit07B =-
1.
miss val alclimit07B (-9).
VAR LAB alclimit07B "(D) Alcohol units - limits based on (variable d7unitwgrp ) units per day".
VAL LAB alclimit07B
-1 'Not Applicable'
0 'None'
1 '<=4 units/day (men), <=3 (women)'
```

```
2 '>4 and <= 8 (men), >3 and less than or equal to 6 (women)'
3 'greater than 8 units (men), greater than 6 units (women)'.
missing values alclimit07 (-9 thru -1)
```

WDRINK07B : (D) NEW Women number of units

-5 'Men'
0 'none'
1 'Up to and including 3 units'
2 'greater than 3 and less than or equal to 6 units'
3 'greater than 6 units'.

```
SPSS syntax

compute wdrink07B=-5.
DO if sex=2.
recode d7unitwgrp (6 thru 7=3)(3 thru 5=2)(1 thru 2=1)
 (else=copy) into wdrink07B.
recode d7many3 (0=0) into wdrink07B.
END if.
variable labels wdrink07B "(D) NEW Women number of units".
value labels wdrink07B
-5 'Men'
0 'none'
1 'Up to and including 3 units'
2 'greater than 3 and less than or equal to 6 units'
3 'greater than 6 units'.
execute.
```

BMIWHO1: (D) WHO 2007 BMI standards 2-4yrs (91st/98th centile)

-5 'women'
0 'none'
1 'Up to and including 4 units'
2 'greater than 4 and less than or equal to 8 units'
3 'greater than 8 units'.

```
SPSS syntax
compute mdrink07B=-5.
DO if sex=1.
recode d7unitwgrp (7=3)(4 thru 6=2)(1 thru 3=1)
 (else=copy) into mdrink07B.
recode d7many3 (0=0) into mdrink07B.
END if.
variable labels mdrink07B "(D) Men number of units".
value labels mdrink07B
-5 'women'
0 'none'
1 'Up to and including 4 units'
2 'greater than 4 and less than or equal to 8 units'
3 'greater than 8 units'.
execute.
```

Children 13-15

ABER2WC: (D) Drunk beer in last 7 days - inc. non-drinkers
ASPIRWC: (D) Drunk spirits in last 7 days - inc. non-drinkers
ASHERWC: (D) Drunk sherry in last 7 days - inc. non-drinkers
AWINEWC: (D) Drunk wine in last 7 days - inc. non-drinkers
APOPSWC: (D) Drunk alcopops in last 7 days - inc. non-drinkers

0 Never drinks
1 Has drunk drink in last 7 days
2 Not drunk drink in last 7 days

All variables in this group have the same value labels.

```
SPSS Syntax
```

```
COMPUTE aber2wc=aber2w.
COMPUTE aspirwc=aspirw.
COMPUTE asherwc=asherw.
COMPUTE awinewc=awinew.
COMPUTE apopswc=apopsw.
DO REPEAT xxdk=aber2wc aspirwc asherwc awinewc apopswc.
IF RANGE(adrlast,4,7) & range(age,13,15) xxdk=2.
if adrpops=2 & range(age,13,15) xxdk=0.
IF any(-9,adrlast,adrprop,adrpops) & range(age,13,15) xxdk=-9.
END REPEAT.
VARIABLE LABELS
   aber2wc "(D) Drunk beer in last 7 days - inc. non-drinkers"
  /aspirwc "(D) Drunk spirits in last 7 days - inc. non-drinkers"
  /asherwc "(D) Drunk sherry in last 7 days - inc. non-drinkers"
  /awinewc "(D) Drunk wine in last 7 days - inc. non-drinkers"
  /apopswc "(D) Drunk alcopops in last 7 days - inc. non-drinkers".
VALUE LABELS aber2wc aspirwc asherwc awinewc apopswc
  0 "Never drinks"
  1 "Has drunk drink in last 7 days"
  2 "Not drunk drink in last 7 days".
```

ADRKWQ08[2]: (D) Total units of alcohol in last 7 days
ADRKWQ08G[2]: (D) Total units of alcohol in last 7 days (grouped)

Because data on drinking in the last 7 days for 13-15s is collected by self-completion, there is a greater level of missing data. The normal approach is if someone has missing data on any of the component variables to make them missing on the derived variable. In this case, because of the large amount of missing data, it was decided to temporarily set missing values equal to the mean of the valid answers to come up with an overall figure for units drunk in the last 7 days.

SPSS Syntax

```
COMPUTE xxber2q = 0 .
RECODE aber2w (-2=-2)(-1,-9,2=-1)(-6=-6) INTO xxber2q.
IF (aber2w = 1 & aber2qpt > 0) xxber2q = xxber2q + (aber2qpt * 2) .
IF (aber2w = 1 & aber2qlg > 0) xxber2q = xxber2q + (aber2qlg * 2) .
IF (aber2w = 1 & aber2qsm > 0) xxber2q = xxber2q + aber2qsm .
IF (xxber2q=0) xxber2q=-9.

COMPUTE xxpopsq = 0 .
RECODE apopsw (-2=-2)(-1,-9,2=-1)(-6=-6) INTO xxpopsq.
IF (apopsw = 1 & apopsqsm > 0) xxpopsq = xxpopsq + apopsqsm*1.5.
IF (apopsw = 1 & apopsqlg > 0) xxpopsq = xxpopsq + (apopsqlg*1.5).
IF (xxpopsq =0) xxpopsq =-9.

** use scratch variables to store means for dk values.
COMPUTE xxber2q2 = xxber2q .
COMPUTE xxpopsq2 = xxpopsq .
COMPUTE xxspirq = aspirqgs.
COMPUTE xxsherq = asherqgs.
COMPUTE xxwineq = awineqgs.

** replace missing data with mean for sex.
IF (xxber2q = -9 & sex = 1) xxber2q2 = 4.49.
IF (xxber2q = -9 & sex = 2) xxber2q2 = 3.28.
IF (ANY(aspirqgs,-9,0) & sex = 1) xxspirq = 2.57.
IF (ANY(aspirqgs,-9,0) & sex = 2) xxspirq = 3.71.
IF (ANY(asherqgs,-9,0) & sex = 1) xxsherq = 1.00.
IF (ANY(asherqgs,-9,0) & sex = 2) xxsherq = 0.
IF (xxwineqgs =-9 & sex = 1) xxwineq = 1.57.
IF (xxwineqgs =-9 & sex = 2) xxwineq = 2.78.
IF (xxpopsq = -9 & sex = 1) xxpopsq2 = 3.00.
IF (xxpopsq = -9 & sex = 2) xxpopsq2 = 3.36.

**derive adrinkwq for 13-15 year olds only.
COMPUTE adrkwq08 = 0 .
RECODE adrlast(-2=-2)(-9=-1)(-6=-6) INTO adrkwq08 .
IF (aber2w=-9 & aspirw=-9 & asherw=-9 & awinew=-9 & apopsw=-9) adrkwq08 =-9.
IF (aber2w=-2 & aspirw=-2 & asherw=-2 & awinew=-2 & apopsw=-2) adrkwq08 =-2.
if (adrlast=-1 and adrprop=-9 and (age>=13 and age<=15)) adrkwq08 =-9.
IF (aber2w = 1 & xxber2q2 > 0) adrkwq08 = adrkwq08 + xxber2q2 .
IF (aspirw = 1 & xxspirq > 0) adrkwq08 = adrkwq08 + xxspirq .
IF (asherw = 1 & xxsherq > 0) adrkwq08 = adrkwq08 + xxsherq .
IF (awinew = 1 & xxwineq> 0) adrkwq08 = adrkwq08 + xxwineq.
IF (apopsw = 1 & xxpopsq2 > 0) adrkwq08 = adrkwq08 + xxpopsq2 .
VARIABLE LABEL adrkwq08 "(D) Total units of alcohol in last 7 days (13-15yrs)".

Compute adrkwq08g=adrkwq08.
IF adrkwq08>0 and adrkwq08<1 adrkwq08g=1.
IF adrkwq08>=1 and adrkwq08<2 adrkwq08g=2.
IF adrkwq08>=2 and adrkwq08<4 adrkwq08g=3.
```

[2] Please note that in 2007 new questions were added asking which glass size was used when wine was consumed, this created a false accuracy as 13-15yr old children rarely know about glass size, this was therefore not continued past 2007.

```
IF adrkwq08>=4 and adrkwq08<6 adrkwq08g=4.
IF adrkwq08>=6 and adrkwq08<10 adrkwq08g=5.
IF adrkwq08>=10 and adrkwq08<15 adrkwq08g=6.
IF adrkwq08>=15 adrkwq08g=7.
IF adrkwq08<0 adrkwq08g=adrkwq08.
var lab adrkwq08g "(D) total units of alcohol in last 7 days (13-15yrs)".
val lab adrkwq08g
-2 'Schedule Not Applicable'
-1 'Item Not Applicable'
0 "None"
1 "Less than 1 unit"
2 "1, under 2 units"
3 "2, under 4 units"
4 "4, under 6 units"
5 "6, under 10 units"
6 "10, under 15 units"
7 "15 or more units".
```

Fruit & Vegetable consumption

PORPUL (D) Portion of pulses
PORSAL (D) Portion of salad
PORVEG (D) Portion of vegetables
PORVDISH (D) Portion of vegetables in composites
PORJUICE (D) Portion of fruit juice
PORFRT (D) Portion of all sized fruit
PORDRY (D) Portion of dried fruit
PORFROZ (D) Portion of frozen fruit/canned fruit
PORFDISH (D) Portion of fruit in composites
VEGPOR (D) Total portion of vegetables (inc.salad)
FRTPOR (D) Total portion of fruit
PORFV (D) Total portion of fruit and veg.

A maximum of 1 portion of pulses, fruit juice or dried fruit contributed to the total portions of fruit and vegetables. Portion sizes were defined by The Department of Health.

SPSS Syntax

```
compute porpul=0.
if (vegpul=1 & vegpulq>0) porpul=vegpulq/3.
if porpul>1 porpul=1.
compute porsal=0.
if (vegsal=1 & vegsalq>0) porsal=vegsalq.
compute porveg=0.
if (vegveg=1 & vegvegq>0) porveg=vegvegq/3.
compute porvdish=0.
if (vegdish=1 & vegdishq>0) porvdish=vegdishq/3.
compute porjuice=0.
if (frtdrnk=1 & frtdrnkq>0) porjuice=frtdrnkq.
if porjuice>1 porjuice=1.

compute porlge=0.
do repeat xxx=frtc01 frtc02 frtc03 frtc04 frtc05 frtc06 frtc07 frtc08 frtc09 frtc10 frtc11 frtc12 frtc13
frtc14 frtc15
  /yyy=frtq01 frtq02 frtq03 frtq04 frtq05 frtq06 frtq07 frtq08 frtq09 frtq10 frtq11 frtq12 frtq13 frtq14
frtq15.
if (xxx=2 & yyy>0) porlge=porlge+yyy*2.
end repeat.

compute porsml=0.
do repeat xxx=frtc01 frtc02 frtc03 frtc04 frtc05 frtc06 frtc07 frtc08 frtc09 frtc10 frtc11 frtc12 frtc13
frtc14 frtc15
  /yyy=frtq01 frtq02 frtq03 frtq04 frtq05 frtq06 frtq07 frtq08 frtq09 frtq10 frtq11 frtq12 frtq13 frtq14
frtq15.
if (xxx=4 & yyy>0) | (xxx=5 & yyy>0) porsml=porsml+yyy/2.
end repeat.

compute poroth=0.
do repeat xxx=frtc01 frtc02 frtc03 frtc04 frtc05 frtc06 frtc07 frtc08 frtc09 frtc10 frtc11 frtc12 frtc13
frtc14 frtc15
  /yyy=frtq01 frtq02 frtq03 frtq04 frtq05 frtq06 frtq07 frtq08 frtq09 frtq10 frtq11 frtq12 frtq13 frtq14
frtq15.
if (xxx=1 & yyy>0) | (xxx=3 & yyy>0) poroth=poroth+yyy.
end repeat.

compute porfrt=porlge+porsml+poroth.
compute pordry=0.
if (frtdry=1 & frtdryq>0) pordry=frtdryq.
if pordry>1 pordry=1
compute porfroz=0.
if (frtfroz=1 & frtfrozq>0) porfroz=frtfrozq/3.
compute porfdish=0.
if (frtdish=1 & frtdishq>0) porfdish=frtdishq/3.
compute vegpor=porpul+porsal+porveg+porvdish.
compute frtpor=porjuice+porfrt+pordry+porfroz+porfdish.
compute porfv=vegpor+frtpor.

**set missings after calculation.
if any(vegsal,-9,-8) | any(vegsalq,-9,-8) porsal=-9.
if any(vegpul,-9,-8) | any(vegpulq,-9,-8) porpul=-9.
if any(vegveg,-9,-8) | any(vegvegq,-9,-8) porveg=-9.
```

```
if any(vegdish,-9,-8) | any(vegdishq,-9,-8) porvdish=-9.
if any(frt,-9,-8) porfrt=-9.
if any(frtdrnk,-9,-8) | any(frtdrnkq,-9,-8) porjuice=-9.
if any(frtdry,-9,-8) | any(frtdryq,-9,-8) pordry=-9.
if any(frtfroz,-9,-8) | any(frtfrozq,-9,-8) porfroz=-9.
if any(frtdish,-9,-8) | any(frtdishq,-9,-8) porfdish=-9.
if porsal=-9 & porpul=-9 & porveg=-9 & porvdish=-9 vegpor=-9.
if porjuice=-9 & pordry=-9 & porfroz=-9 & porfdish=-9 & porfrt=-9 frtpor=-9.
if vegpor=-9 & frtpor=-9 porfv=-9.

**portions.
variable labels
  porpul "(D) Portion of pulses"
 /porsal "(D) Portion of salad"
 /porveg "(D) Portion of vegetables"
 /porvdish "(D) Portion of vegetables in composites"
 /porjuice "(D) Portion of fruit juice"
 /porfrt "(D) Portion of all sized fruit"
 /pordry "(D) Portion of dried fruit"
 /porfroz "(D) Portion of frozen fruit/canned fruit"
 /porfdish "(D) Portion of fruit in composites"
 /vegpor "(D) Total portion of vegetables (inc.salad)"
 /frtpor "(D) Total portion of fruit"
 /porfv "(D) Total portion of fruit and veg".
```

PORFTVG: "(D) Grouped portions of fruit (incl. orange juice) & veg yesterday"

1 None
2 Less than 1 portion
3 1 portion or more but less than 2
4 portions or more but less than 4
5 portions or more but less than 3
6 portions or more but less than 5
7 portions or more but less than 6
8 portions or more but less than 7
9 portions or more

SPSS Syntax

```
RECODE porfv (0=0) (8 thru hi=9) (7 thru 8=8) (6 thru 7=7) (5 thru 6=6) (4 thru 5=5) (3 thru 4=4)
(2 thru 3=3) (1 thru 2=2) (0 thru 1=1)into porftvg.
VARIABLE LABELS  porftvg "(D) Grouped portions of fruit (inc.orange juice) & veg yesterday" .
VALUE LABELS porftvg
  0 "None"
  1 "Less than 1 portion"
  2 "1 portion or more but less than 2"
  3 "2 portions or more but less than 3"
  4 "3 portions or more but less than 4"
  5 "4 portions or more but less than 5"
  6 "5 portions or more but less than 6"
  7 "6 portions or more but less than 7"
  8 "7 portions or more but less than 8"
  9 "8 portions or more".

do if age<5.
do repeat xxx=porpul to porftvg.
compute xxx=-1.
end repeat.
end if.
```

General Health

Acute Sickness

ACUTILL: (D) Acute sickness last two weeks

1 No acute sickness
2 1-3 days
3 4-6 days
4 7-13 days
5 A full 2 weeks

SPSS Syntax

```
COMPUTE acutill = lastfort .
IF (lastfort = 1 & dayscut<0)) acutill = -9 .
IF (lastfort = 2) acutill = 1 .
RECODE dayscut (1 thru 3=2) (4 thru 6=3) (7 thru 13=4) (14 thru hi=5)
 INTO acutill.
VARIABLE LABEL acutill "(D) Acute sickness last two weeks" .
VALUE LABELS acutill 1 'No acute sickness'
 2 '1-3 days'
 3 '4-6 days'
 4 '7-13 days'
 5 'a full 2 weeks'.
```

GHQ12

GHQ12SCR: (D) GHQ Score - 12 point scale

GHQG2: (D) GHQ Score - grouped (0,1-3,4+)

1 Score 0
2 Score 1-3
3 Score 4+

There is no scaling of missing answers on the GHQ score, if an informant has not given an answer to a question, then it does not contribute to the overall GHQ score.

SPSS Syntax

```
COMPUTE ghq12scr = 0 .
RECODE ghqconc (-6,-2=COPY) into ghq12scr.
DO REPEAT ghqtemp=ghqconc to ghqhappy.
IF ANY(ghqtemp,3,4) ghq12scr=ghq12scr+1.
END REPEAT.
IF (ANY(-9,ghqconc to ghqhappy)) ghq12scr=-9 .
RECODE ghq12scr
  (-9 thru -1=Copy) (0=1) (1 thru 3=2) (4 thru Highest=3) INTO  GHQg2.
VARIABLE LABEL ghq12scr "(D) GHQ Score - 12 point scale".
VARIABLE LABEL ghqg2 "(D) GHQ Score - grouped (0,1-3,4+)".
VALUE LABELS ghqg2
   1 'Score 0'
   2 'Score 1-3'
   3 'Score 4+'.
```

PCAREP: (D) Been offerred a personal care plan

2 'Schedule not applicable'
-1 'Item not applicable'
1 'Agreed pcp in last 12 months'
2 'Agreed pcp in more than 12 months'
3 'Discussing, but not yet agreed'
4 'Offered, but did not want one/not suitable'
5 'Not offered, but would like one'
6 'Not offered, and did not want one'
7 'Not offered, and dont know whether want one'.

SPSS syntax

```
compute pcarep=9.
if age<16 pcarep=-1.
if limitill=3 pcarep=-1.
if planag=1 pcarep=1.
if planag=2 pcarep=2.
if planag=3 and whynopl=2 pcarep=3.
if planag=3 and whynopl=95 pcarep=4.
if planag=3 and whynopl=1 pcarep=4.
if planag=3 and offplan=2 and likeplan=1 pcarep=5.
if planag=3 and offplan=2 and likeplan=2 pcarep=6.
if planag=3 and offplan=2 and likeplan=-3 pcarep=7.
if any (-8, planag, whynopl, offplan, likeplan) pcarep=-8.
if any (-9, planag, whynopl, offplan, likeplan) pcarep=-9.
if planag<0 pcarep=planag.
VARIABLE LABELS pcarep "(D) Been offered a personal care plan?" .
VALUE LABELS pcarep
  -2 'Schedule not applicable'
  -1 'Item not applicable'
  1 'Agreed pcp in last 12 months'
  2 'Agreed pcp in more than 12 months'
  3 'Discussing, but not yet agreed'
  4 'Offered, but did not want one/not suitable'
  5 'Not offered, but would like one'
  6 'Not offered, and did not want one'
  7  'Not offered, and dont know whether want one'.
```

Longstanding Illness

COMPM13: (D) I Infectious Disease
COMPM1: (D) II Neoplasms & benign growths
COMPM2: (D) III Endocrine & metabolic
COMPM14: (D) IV Blood & related organs
COMPM3: (D) V Mental disorders
COMPM4: (D) VI Nervous System
COMPM5: (D) VI Eye complaints
COMPM6: (D) VI Ear complaints
COMPM7: (D) VII Heart & circulatory system
COMPM8: (D) VIII Respiratory system
COMPM9: (D) IX Digestive system
COMPM10: (D) X Genito-urinary system
COMPM11: (D) XII Skin complaints
COMPM12: (D) XIII Musculoskeletal system
COMPM15: (D) Other complaints
COMPM17: (D) No long-standing Illness
COMPM18: (D) No longer present
COMPM99: (D) Unclass/NLP/inadeq.describe

0 No condition present
1 Has condition

All variables in the COMPM series have the same value labels

SPSS Syntax

```
DO REPEAT xcomp=compm1 compm2 compm3 compm4 compm5 compm6 compm7 compm8
 compm9 compm10 compm11 compm12 compm13 compm14 compm15 compm17 compm18.
COMPUTE xcomp=0.
IF (longill<0) xcomp=-9.
END REPEAT.
DO REPEAT xill=illsm1 illsm2 illsm3 illsm4 illsm5 illsm6.
IF (xill=1) compm1=1.
IF (RANGE(xill,2,3)) compm2=1.
IF (RANGE(xill,4,5)) compm3=1.
IF (RANGE(xill,6,8)) compm4=1.
IF (RANGE(xill,9,10)) compm5=1.
```

```
IF (RANGE(xill,11,14)) compm6=1.
IF (RANGE(xill,15,21)) compm7=1.
IF (RANGE(xill,22,25)) compm8=1.
IF (RANGE(xill,26,29)) compm9=1.
IF (RANGE(xill,30,33)) compm10=1.
IF (xill=39) compm11=1.
IF (RANGE(xill,34,36)) compm12=1.
IF (xill=37) compm13=1.
IF (xill=38) compm14=1.
IF (xill=40) compm15=1.
IF (longill = 1 & xill = 42) compm18 = 1 .
END REPEAT.
IF (longill = 2) compm17 = 1.
COMPUTE compm99 = 0 .
IF (longill = 1 & ANY(illsm1,41,42,-1,-8,-9)) compm99 = 1 .
IF (longill<0) compm99 = -9.
VARIABLE LABELS compm1 '(D) II Neoplasms & benign growths'
 /compm2 '(D) III Endocrine & metabolic'
 /compm3 '(D) V Mental disorders'
 /compm4 '(D) VI Nervous System'
 /compm5 '(D) VI Eye complaints'
 /compm6 '(D) VI Ear complaints'
 /compm7 '(D) VII Heart & circulatory system'
 /compm8 '(D) VIII Respiratory system'
 /compm9 '(D) IX Digestive system'
 /compm10 '(D) X Genito-urinary system'
 /compm11 '(D) XII Skin complaints'
 /compm12 '(D) XIII Musculoskeletal system'
 /compm13 '(D) I Infectious Disease'
 /compm14 '(D) IV Blood & related organs'
 /compm15 '(D) Other complaints'
 /compm17 "(D) No long-standing Illness"
 /compm18 "(D) No longer present"
 /compm99 "(D) Unclass/NLP/inadeq.describe" .
VALUE LABELS compm1 TO compm99
  0 'no condition present'
  1 'has condition'.
RECODE compm1 TO compm15 (SYSMIS=0).
```

CONDCNT: (D) Number of grouped condition categories

0 No LS illness

CONDCNT2: (D) Number of grouped conditions - 4 plus

0 No LS illness
4 4 or more

SPSS Syntax

```
IF (longill = 2) condcnt = 0 .
DO IF (longill = 1).
COUNT condcnt = compm1 TO compm15 (1) .
END IF .
IF (longill = 1 & (illsm1 = 41 | illsm1<0)) condcnt = 1 .
IF (longill<0) condcnt = -9 .
RECODE condcnt (4 thru hi=4)(ELSE=COPY) INTO condcnt2.
VARIABLE LABEL condcnt "(D) Number of grouped condition categories" .
VALUE LABELS condcnt
   0 'no LS illness'.
VARIABLE LABEL condcnt2 "(D) Number of grouped conditions - 4 plus" .
VALUE LABELS condcnt2
  0 'no LS illness'
  4 '4 or more'.
```

LIMITILL: (D) Limiting longstanding illness

1 Limiting LI
2 Non limiting LI
3 No LI

SPSS Syntax

```
COMPUTE limitill = -1.
DO IF any(indout,110,210).
RECODE longill (1=2) (2=3) (ELSE=COPY) INTO limitill.
IF (limitact=1) limitill=1.
END IF.
VARIABLE LABEL limitill '(D) Limiting longstanding illness'.
VALUE LABLES limitill
  1 'Limiting LI'
  2 'Non limiting LI'
  3 'No LI'.
```

Prescribed Medicines: Drugs affecting blood analytes

DIUR: (D) Diuretics (Blood pressure)
BETA: (D) Beta blockers (Blood pressure/Fibrinogen)
ACEINH: (D) Ace inhibitors (Blood pressure)
CALCIUMB: (D) Calcium blockers (Blood pressure)
OBPDRUG: (D) Other drugs affecting BP
LIPID: (D) Lipid lowering (Cholesterol/Fibrinogen)
IRON: (D) Iron deficiency (Haemoglobin/Ferritin)
BPMEDC: (D) Whether taking drugs affecting blood pressure
BPMEDD: (D) Whether taking drugs prescribed for blood pressure

0 Not taking drug
1 Taking drug

All derived variables in the BP Drugs subsection have the same value labels.

SPSS Syntax

```
DO REPEAT xxdrug=diur beta aceinh calciumb obpdrug lipid iron bpmedc bpmedd.
COMPUTE xxdrug=0.
RECODE medbi01(-9 thru -1=COPY) INTO xxdrug.
END REPEAT.
DO REPEAT xxcode=medbi01 to medbi22.
IF xxcode=0 diur=-9.
IF xxcode=0 beta =-9.
IF xxcode=0 aceinh =-9.
IF xxcode=0 calciumb =-9.
IF xxcode=0 iron =-9.
IF xxcode=0 lipid =-9.
IF xxcode=0 obpdrug =-9.
IF xxcode=0 bpmedc=-9.
IF xxcode=0 bpmedd=-9.
END REPEAT.
DO REPEAT xxcode=medbi01 to medbi22.
IF RANGE(xxcode,20201,20208) diur=1.
IF xxcode=20400 beta=1.
IF RANGE(xxcode, 020551, 020553) aceinh=1.
IF xxcode=20602 calciumb=1.
IF ANY(xxcode,20501,20502,20503,20504,20506) obpdrug=1.
IF ANY(xxcode,21200, 21201, 21202) lipid=1.
IF xxcode=90101 iron=1.
END REPEAT.
IF ANY(1,diur,beta,aceinh,calciumb,obpdrug) bpmedc=1.
COUNT xbpdrug=ytake012 ytake022 ytake032 ytake042 ytake052 ytake062 ytake072 ytake082
  ytake092 ytake102 ytake112 ytake122 ytake132 ytake142 ytake152 ytake162 ytake172
  ytake182 ytake192 ytake202 ytake212 ytake222 (1).
IF ANY(1,diur,beta,aceinh,calciumb,obpdrug) & xbpdrug>0 bpmedd=1.
VARIABLE LABELS diur "(D) Diuretics (Blood pressure)".
VARIABLE LABELS beta "(D) Beta blockers (Blood pressure/Fibrinogen)".
VARIABLE LABELS aceinh "(D) Ace inhibitors (Blood pressure)".
VARIABLE LABELS calciumb "(D) Calcium blockers (Blood pressure)".
VARIABLE LABELS obpdrug "(D) Other drugs affecting BP" .
VARIABLE LABELS lipid "(D) Lipid lowering (Cholesterol/Fibrinogen)" .
VARIABLE LABELS iron "(D) Iron deficiency (Haemoglobin/Ferritin)" .
VARIABLE LABELS bpmedc "(D) Whether taking drugs affecting blood pressure".
VARIABLE LABELS bpmedd "(D) Whether taking drugs prescribed for blood pressure".
VALUE LABELS diur beta aceinh calciumb obpdrug lipid iron bpmedc bpmedd
    0 'Not taking drug'
    1 'Taking drug'.
```

Prescribed Medicines: General

MEDCNJD: (D) Whether taking medication - excluding contraceptives only

1 Yes
2 No

SPSS Syntax

```
COMPUTE medcnj = medcnjd .
IF (sex = 2 & medcnjd = 1 & RANGE(medbi01,70301,70302)
  & medbi02<0 & medbi03<0 & medbi04<0 & medbi05<0 & medbi06<0 & medbi07<0 &
```

```
    medbi08<0 & medbi09<0 & medbi10<0 & medbi11<0 & medbi12<0 & medbi13<0 &
    medbi14<0 & medbi15<0 & medbi16<0 & medbi17<0 & medbi18<0 & medbi19<0 &
    medbi20<0 & medbi21<0 & medbi22<0 )  medcnj = 2 .
 VARIABLE LABEL medcnj "(D) Whether taking medication - excluding "+ "contraceptives only" .
VALUE LABELS medcnj 1 'Yes' 2 'No'.
```

MEDTYP1: (D) Cardio-vascular medicine taken ?
MEDTYP2: (D) Gastrointestinal medicine taken ?
MEDTYP3: (D) Respiratory medicine taken ?
MEDTYP4: (D) CNS medicine taken ?
MEDTYP5: (D) Medicine for infection taken ?
MEDTYP6: (D) Endocrine medicine taken ?
MEDTYP7: (D) Gynae/Urinary medicine taken ?
MEDTYP8: (D) Cytotoxic medicine taken ?
MEDTYP9: (D) Medicine for nutrition/blood taken ?
MEDTYP10: (D) Musculoskeletal medicine taken ?
MEDTYP11: (D) Eye/Ear etc medicine taken ?
MEDTYP12: (D) Medicine for skin taken ?
MEDTYP13: (D) Other medicine taken ?

0 No
1 Yes

All variables in the MEDTYP series have the same value labels.

SPSS Syntax

```
DO REPEAT xtyp = medtyp1 TO medtyp13.
COMPUTE xtyp=0.
RECODE medcnj (2=0)(-9 thru -1=COPY) INTO xtyp.
END REPEAT.
DO REPEAT xmed= medbi01 TO medbi22.
IF (RANGE(xmed,20101,21300)) medtyp1 = 1.
IF (RANGE(xmed,10101,10904)) medtyp2 = 1.
IF (RANGE(xmed,30101,31000)) medtyp3 = 1.
IF (RANGE(xmed,40101,41003)) medtyp4 = 1.
IF (RANGE(xmed,50101,50508)) medtyp5 = 1.
IF (RANGE(xmed,60101,60703)) medtyp6 = 1.
IF (RANGE(xmed,70201,70202,70401,70500)) medtyp7 = 1.
IF (RANGE(xmed,80101,80304)) medtyp8 = 1.
IF (RANGE(xmed,90101,90802)) medtyp9 = 1.
IF (RANGE(xmed,100101,100302)) medtyp10 = 1.
IF (RANGE(xmed,110101,110802,120101,120304)) medtyp11 = 1.
IF (RANGE(xmed,130100,131400)) medtyp12 = 1.
IF (xmed=140400) medtyp13 = 1.
END REPEAT.
VARIABLE LABEL medtyp1 '(D) Cardio-vascular medicine taken?' .
VARIABLE LABEL medtyp2 '(D) Gastrointestinal medicine taken?' .
VARIABLE LABEL medtyp3 '(D) Respiratory medicine taken?' .
VARIABLE LABEL medtyp4 '(D) CNS medicine taken?' .
VARIABLE LABEL medtyp5 '(D) Medicine for infection taken?' .
VARIABLE LABEL medtyp6 '(D) Endocrine medicine taken?' .
VARIABLE LABEL medtyp7 '(D) Gynae/Urinary medicine taken?' .
VARIABLE LABEL medtyp8 '(D) Cytotoxic medicine taken?' .
VARIABLE LABEL medtyp9 '(D) Medicine for nutrition/blood taken?' .
VARIABLE LABEL medtyp10 '(D) Musculoskeletal medicine taken?' .
VARIABLE LABEL medtyp11 '(D) Eye/Ear etc medicine taken?' .
VARIABLE LABEL medtyp12 '(D) Medicine for skin taken?' .
VARIABLE LABEL medtyp13 '(D) Other medicine taken?' .
VALUE LABELS medtyp1 TO medtyp13
   0 'No'
   1 'Yes'.
```

NUMED2: (D) Number of prescribed medicines taken

0 Doesn't take prescribed meds

NUMED: (D) Number of prescribed medicines taken (grouped 4+)

0 Doesn't take prescribed meds
4 Four or more

SPSS Syntax

```
COMPUTE numed2 = -9 .
```

```
RECODE medcnj (-6 thru -2=COPY)(2=0) INTO numed2.
DO IF (medcnj = 1) .
COUNT numed2 = medbi01 TO medbi22 (-9 10101 THRU HI) .
END IF .
RECODE numed2 (4 thru hi=4)(ELSE=COPY) INTO numed.
VARIABLE LABEL numed2 '(D) Number of prescribed medicines taken' .
VARIABLE LABEL numed '(D) Number of prescribed medicines taken (grouped 4+)' .
VALUE LABELS numed2 0 "Doesn't take prescribed meds".
VALUE LABELS numed 0 "Doesn't take prescribed meds"
                   4 'Four or more'.
```

Self-Assessed Health

GENHELF2: (D) Self-assessed general health (grouped)

1 Very good/good
2 Fair
3 Bad/very bad

SPSS Syntax

```
RECODE genhelf (3=2)(1 thru 2=1)(4 thru 5=3)(ELSE=Copy) INTO genhelf2 .
VARIABLE LABELS genhelf2 "(D) Self-assessed general health - grouped" .
VALUE LABELS genhelf2
  1 'Very good/good'
  2 'Fair'
  3 'Bad/very bad'.
```

Smoking

Adult Current Smokers

CIGDYAL: (D) Number of cigarettes smoke a day - inc. non-smokers

```
SPSS Syntax

IF cigwday>=0 & cigwend>=0 cigdyal=((5*cigwday)+(2*cigwend))/7.
IF ANY(-9,cigwday,cigwend) cigdyal=-9.
IF ANY(-8,cigwday,cigwend) cigdyal=-8.
IF age<16 cigdyal=-1.
RECODE cignow(-9,-8=COPY)(2=0) INTO cigdyal.
RECODE smkevr(-9,-8=COPY)(2=0) INTO cigdyal.
RECODE cigevr(-9,-8=COPY)(2=0) INTO cigdyal.
VARIABLE LABELS cigdyal "(D) Number of cigarettes smoke a day - inc. non-smokers".
```

Adults Cigarette Smoking General

CIGST1: (D) Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current

1 Never smoked cigarettes at all
2 Used to smoke cigarettes occasionally
3 Used to smoke cigarettes regularly
4 Current cigarette smoker

```
SPSS Syntax

IF any(2,cigevr,smkevr) cigst1=1.
RECODE cigreg (3=1)(2=2)(1=3) INTO cigst1.
IF cignow=1 cigst1=4.
IF ANY(-9,smkevr,cignow,cigevr,cigreg) cigst1=-9.
IF ANY(-8,smkevr,cignow,cigevr,cigreg) cigst1=-8.
IF smkevr=-1 cigst1=-1.
IF age<16 cigst1=-1.
VARIABLE LABELS cigst1 "(D) Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current".
VALUE LABELS cigst1
  1 "Never smoked cigarettes at all"
  2 "Used to smoke cigarettes occasionally"
  3 "Used to smoke cigarettes regularly"
  4 "Current cigarette smoker".
```

CIGSTA3: (D) Cigarette Smoking Status: Current/Ex-Reg/Never-Reg

1 Current cigarette smoker
2 Ex-regular cigarette smoker
3 Never regular cigarette smoker

```
SPSS Syntax

IF any(2,cigevr,smkevr) cigsta3=3.
RECODE cigreg (1=2)(2,3=3) INTO cigsta3.
IF cignow=1 cigsta3=1.
IF ANY(-9,smkevr,cignow,cigevr,cigreg) cigsta3=-9.
IF ANY(-8,smkevr,cignow,cigevr,cigreg) cigsta3=-8.
IF smkevr=-1 cigsta3=-1
IF age<16 cigsta3=-1.
VARIABLE LABELS cigsta3 "(D) Cigarette Smoking Status: Current/Ex-Reg/Never-Reg".
VALUE LABELS cigsta3
  1 "Current cigarette smoker"
  2 "Ex-regular cigarette smoker"
  3 "Never regular cigarette smoker".
```

CIGST2: (D) Cigarette Smoking Status - Banded current smokers

1 Light smokers, under 10 a day
2 Moderate smokers, 10 to under 20 a day
3 Heavy smokers, 20 or more a day
4 Don't know number smoked a day
5 Non-smoker

```
SPSS Syntax
```

```
RECODE cigdyal (-9=4) (-8=4)(-1=-1) (20 thru hi=3)(10 thru 20=2)(0 thru 10=1) INTO cigst2.
RECODE cignow (-9=-9)(-8=-8)(2=5) INTO cigst2.
RECODE smkevr (-9=-9)(-8=-8)(-1=-1)(2=5) INTO cigst2.
IF age<16 cigst2=-1.
VARIABLE LABEL cigst2 "(D) Cigarette Smoking Status - Banded current smokers".
VALUE LABELS cigst2
  1 "Light smokers, under 10 a day"
  2 "Moderate smokers, 10 to under 20 a day"
  3 "Heavy smokers, 20 or more a day"
  4 "Don't know number smoked a day"
  5 "Non-smoker".
```

Children 8-15

KCIGREGG: (D) Frequency of cigarette smoking (8-15s) (grouped)

1 Don't smoke cigarettes
2 Smoke cigarettes, less than once a week
3 Smoke cigarettes, once a week or more often

```
SPSS Syntax

recode kcigreg (lo thru -1=COPY)(1 thru 3=1)(4=2)(5,6=3) INTO kcigregg.
VARIABLE LABELS kcigregg "(D) Frequency of cigarette smoking (8-15s) (grouped)".
VALUE LABELS kcigregg
  1 "Don't smoke cigarettes"
  2 "Smoke cigarettes, less than once a week"
  3 "Smoke cigarettes, once a week or more often".
```

Cotinine

COTVAL: (D) Valid Cotinine (saliva est.)

COT15VAL: (D) Valid Cotinine (saliva est.): 0<15,15+

1 0<15 ng/ml
2 15+ ng/ml
-90 Use nicotine products

```
SPSS Syntax

COMPUTE cotval=cotsal.
IF nicuseb=1 cotval=-90.
VARIABLE LABEL cotval "(D) Valid Cotinine (saliva)".
VALUE LABELS cotval
  -90 "Use nicotine products".
RECODE cotval (lo thru -1=COPY)(15 thru hi=2)(0 thru 15=1) INTO cot15val.
VARIABLE LABEL cot15val "(D) Valid Cotinine (saliva): 0<15,15+".
VALUE LABELS cot15val
    1 "0<15 ng/ml"
    2 "15+ ng/ml"
  -90 "Use nicotine products".
```

NICUSEB: (D) Used nicotine products in last 7 days e.g. gum, patch, nasal spray

1 Uses nicotine products
2 Doesn't use nicotine products

```
SPSS Syntax

COMPUTE nicuseb=2.
RECODE usegum (lo thru -1=COPY) INTO nicuseb.
IF ANY(1,usegum,usepat,usenas) nicuseb=1.
IF ANY(-9,usegum,usepat,usenas) nicuseb=-9.
VARIABLE LABEL nicuseb "(D) Used nicotine products in last 7 days e.g. gum, patch, nasal spray ".
VALUE LABELS nicuseb
  1 "Uses nicotine products"
  2 "Doesn't use nicotine products".
```

Blood sample

Admin

BSOUTE: (D) Blood Sample Outcome

1 Blood sample obtained
2 Blood sample attempted, not obtained
3 Refused blood sample or Nurse
4 Ineligible for Blood Sample or Nurse

```
SPSS Syntax

compute bsoute=4.
if age<16 bsoute=-1.
if age>=16 & any(nuroutc,80,82,83,84,85,86,87,88,89,90) bsoute=3.
if any(1,clotb,fit,pregntj) & age>=16 bsoute=4.
if any(2,bswill) bsoute=3.
recode samptak(1=1)(2=2) into bsoute.
variable labels bsoute "(D) Blood Sample Outcome".
value labels bsoute
 -1 "Item not applicable"
 1 "Blood sample obtained"
 2 "Blood sample attempted, not obtained"
 3 "Refused Blood Sample or Nurse"
 4 "Ineligible for Blood Sample or Nurse".
```

Measurements

CHOLVAL: (D) Valid Cholesterol Result
CHOLVAL1: (D) Valid Cholesterol Result (incl those on lld)
HDLVAL: (D) Valid HDL Cholesterol Result
HDLVAL1: (D) Valid HDL Cholesterol Result (incl those on lld)
GLYHBVAL: (D) Valid Glycated HB Result

```
SPSS Syntax

compute cholval=-1.
if cholok=1 cholval=cholest.
variable labels cholval "(D) Valid Cholesterol Result".

compute cholval1=-1.
if (cholok=1 | cholok=2) cholval1=cholest.
variable labels cholval1 "(D) Valid Cholesterol Result (incl those on lld)".

compute hdlval=-1.
if hdlok=1 hdlval=hdlchol.
variable labels hdlval "(D) Valid HDL Cholesterol Result".

compute hdlval1=-1.
if (hdlok=1 | hdlok=2) hdlval1=hdlchol.
variable labels hdlval1 "(D) Valid HDL Cholesterol Result (incl those on lld)".

compute glyhbval=-1.
if glyhbok=1 glyhbval=glyhb.
variable labels glyhbval "(D) Valid Glycated HB Result".
```

CHOLOK: (D) Response to Total Cholesterol sample
HDLOK: (D) Response to HDL Cholesterol sample
GLYHBOK: (D) Response to Glycated HB sample

1 Valid sample
2 Takes drugs affecting sample
3 Sample not obtained, not usable
4 Ineligible
5 Refused

```
SPSS Syntax

recode samptak (-2=-2)(-1=4)(1,2=3) into cholok.
if bswill=2 cholok=5.
if cholest>0 & cholqual<0 cholok=1.
if cholest>0 & lipid=1 cholok=2.
variable labels cholok "(D) Response to Total Cholesterol sample".
value labels cholok
 1 "Valid sample"
 2 "Takes drugs affecting sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".

recode samptak (-2=-2)(-1=4)(1,2=3) into hdlok.
if bswill=2 hdlok=5.
if hdlchol>0 & hdlqual<0 hdlok=1.
if hdlchol>0 & lipid=1 hdlok=2.
variable labels hdlok "(D) Response to HDL Cholesterol sample".
value labels hdlok
 1 "Valid sample"
 2 "Takes drugs affecting sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".

recode samptak (-2=-2)(-1=4)(1,2=3) into glyhbok.
if bswill=2 glyhbok=5.
if glyhb>0 & glhbqual<0 glyhbok=1.
variable labels glyhbok "(D) Response to Glycated HB sample".
value labels glyhbok
 1 "Valid sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".#
```

CRPOKB: (D) Response to C-Reactive Protein sample

1 Valid sample
3 Sample not obtained, not usable
4 Ineligible
5 Refused.

CRPVAL2: (D) Valid C-Reactive Protein Result.

```
SPSS Syntax

recode samptak (-2=-2)(-1=4)(1,2=3) into crpokb.
if bswill=2 crpokb=5.
if crpval>0 & crpqual<0 crpokb=1.
variable labels crpokb "(D) Response to C-Reactive Protein sample".
value labels crpokb
 1 "Valid sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".

compute crpval2=-1.
if crpokb=1 crpval2=crpval.
variable labels crpval2 "(D) Valid C-Reactive Protein Result".
exe.
```

CRPQUIN: (D) C-reactive protein quintile.

1 Bottom
2 Second
3 Middle
4 Fourth
5 Top.

```
SPSS syntax

DO IF sex=1.
RECODE crpval2 (0 thru 0.5=1) (0.51 thru 1.10=2) (1.11 thru 2.09=3) (2.10 thru 4.39=4)
(4.30 thru hi=5) (else=copy) INTO crpquin.
ELSE IF sex=2.
RECODE crpval2 (0 thru 0.5=1) (0.51 thru 1.10=2) (1.11 thru 2.09=3) (2.10 thru 4.39=4)
(4.30 thru hi=5) (else=copy) INTO crpquin.
END IF.
```

CREOKB: (D) Response to Creatinine sample.

1 Valid sample
2 Takes drugs affecting sample
3 Sample not obtained, not usable
4 Ineligible
5 Refused

SPSS syntax

```
recode samptak (-2=-2)(-1=4)(1,2=3) into creokb.
if bswill=2 creokb=5.
if creat>0 & crequal<0 creokb=1.
variable labels creokb "(D) Response to Creatinine sample".
value labels creokb
 1 "Valid sample"
 2 "Takes drugs affecting sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".
```

FEROKB: (D) Response to Ferritin sample.

1 Valid sample
2 Takes drugs affecting sample
3 Sample not obtained, not usable
4 Ineligible
5 Refused

FERVAL: (D) Valid Ferritin Result.

SPSS syntax

```
recode samptak (-2=-2)(-1=4)(1,2=3) into ferokb.
if bswill=2 ferokb=5.
if ferrit>0 & ferqual<0 ferokb=1.
if ferrit>0 & iron=1 ferokb=2.
variable labels ferokb "(D) Response to Ferritin sample".
value labels ferokb
 1 "Valid sample"
 2 "Takes drugs affecting sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".

compute ferval=-1.
if ferokb=1 ferval=ferrit.
variable labels ferval "(D) Valid Ferritin Result".
freq ferval.
```

HAEMOKB: (D) Response to Haemoglobin sample.

1 Valid sample
2 Takes drugs affecting sample
3 Sample not obtained, not usable
4 Ineligible
5 Refused

FIBVAL: (D) Valid Fibrinogen Result.

SPSS syntax

```
recode samptak (-2=-2)(-1=4)(1,2=3) into haemokb.
if bswill=2 haemokb=5.
if haemo>0 & haemqual<0 haemokb=1.
if haemo>0 & iron=1 haemokb=2.
variable labels haemokb "(D) Response to Haemoglobin sample".
value labels haemokb
 1 "Valid sample"
 2 "Takes drugs affecting sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".

compute fibval=-1.
if fibokb=1 fibval=fibgen.
variable labels fibval "(D) Valid Fibrinogen Result".
exe.
```

Kidney Disease

Measurements

eGFRGP4 : (D) eGFR in 4 categories

1 hsegfr>=90
2 hsegfr<90 & hsegfr>=60
3 hsegfr<60 & hsegfr>=30
4 hsegfr<30 and hsegfr>=0

SPSS syntax

```
compute eGFRgp4=9.
IF hsegfr>=90 eGFRgp4=1.
IF hsegfr<90 and hsegfr>=60 eGFRgp4=2.
IF hsegfr<60 and hsegfr>=30 eGFRgp4=3.
IF hsegfr<30 and hsegfr>=0 eGFRgp4=4.
IF hsegfr<0 eGFRgp4=hsegfr.
VARIABLE LABELS eGFRgp4 "(D) eGFR in 4 categories" .
VALUE LABELS eGFRgp4

  1 'hsegfr>=90'
  2 'hsegfr<90 & hsegfr>=60'
  3 'hsegfr<60 & hsegfr>=30'
  4 'hsegfr<30 and hsegfr>=0'.
exe.
```

eGFRGP6 : (D) eGFR in 6 categories

1 hsegfr>=105
2 hsegfr<105 & hsegfr>=90
3 hsegfr<90 & hsegfr>=75
4 hsegfr<75 & hsegfr>=60
5 hsegfr<60 & hsegfr>=45
6 hsegfr<45 and hsegfr>=0

SPSS syntax

```
compute eGFRgp6=9.
IF hsegfr>=105 eGFRgp6=1.
IF hsegfr<105 and hsegfr>=90 eGFRgp6=2.
IF hsegfr<90 and hsegfr>=75 eGFRgp6=3.
IF hsegfr<75 and hsegfr>=60 eGFRgp6=4.
IF hsegfr<60 and hsegfr>=45 eGFRgp6=5.
IF hsegfr<45 and hsegfr>=0 eGFRgp6=6.
IF hsegfr<0 eGFRgp6=hsegfr.
VARIABLE LABELS eGFRgp6 "(D) eGFR in 6 categories" .
VALUE LABELS eGFRgp6

  1 'hsegfr>=105'
  2 'hsegfr<105 & hsegfr>=90'
  3 'hsegfr<90 & hsegfr>=75'
  4 'hsegfr<75 & hsegfr>=60'
  5 'hsegfr<60 & hsegfr>=45'
  6 'hsegfr<45 and hsegfr>=0'.
exe.
```

eGFRGP7 : (D) eGFR in 7 categories

1 hsegfr>=105
2 hsegfr<105 & hsegfr>=90
3 hsegfr<90 & hsegfr>=75
4 hsegfr<75 & hsegfr>=60
5 hsegfr<60 & hsegfr>=45
6 hsegfr<45 & hsegfr>=30
7 hsegfr<30 & hsegfr>=0

SPSS syntax

```
compute eGFRgp7=9.
IF hsegfr>=105 eGFRgp7=1.
IF hsegfr<105 and hsegfr>=90 eGFRgp7=2.
IF hsegfr<90 and hsegfr>=75 eGFRgp7=3.
```

```
IF hsegfr<75 and hsegfr>=60 eGFRgp7=4.
IF hsegfr<60 and hsegfr>=45 eGFRgp7=5.
IF hsegfr<45 and hsegfr>=30 eGFRgp7=6.
IF hsegfr<30 and hsegfr>=0 eGFRgp7=7.
IF hsegfr<0 eGFRgp7=hsegfr.
VARIABLE LABELS eGFRgp7 "(D) eGFR in 7 categories" .
VALUE LABELS eGFRgp7
  1 'hsegfr>=105'
  2 'hsegfr<105 & hsegfr>=90'
  3 'hsegfr<90 & hsegfr>=75'
  4 'hsegfr<75 & hsegfr>=60'
  5 'hsegfr<60 & hsegfr>=45'
  6 'hsegfr<45 & hsegfr>=30'
  7 'hsegfr<30 & hsegfr>=0'.
exe.
```

ALBCREGP : (D) Urinary albumin excretion grouped

1 Normal
2 Micro-albuminuria
3 Macro-albuminuria

SPSS syntax

```
compute albcregp=9.
IF sex=1 and albcreat>=0 and albcreat<=2.5 albcregp=1.
IF sex=2 and albcreat>=0 and albcreat<=3.5 albcregp=1.
IF sex=1 and albcreat>2.5 and albcreat<=30 albcregp=2.
IF sex=2 and albcreat>3.5 and albcreat<=30 albcregp=2.
IF albcreat>30 albcregp=3.
IF albcreat<0 albcregp=albcreat.
VARIABLE LABELS albcregp "(D) Urinary albumin excretion grouped" .
VALUE LABELS albcregp
  1 'Normal'
  2 'Micro-albuminuria'
  3 'Macro-albuminuria'.
exe.
```

ALBUMIN2 : (D) Albumin result

401 '>400'.

SPSS Syntax

```
compute albumin2=albumin.
if albumin>400 albumin2=401.
VARIABLE LABELS albumin2 "(D) Albumin result" .
VALUE LABELS albumin2

  401 '>400'.
exe.
```

KIDNEY FAILURE

KIDDIAG : (D) Doctor diagnosed kidney disease"

1 Yes
2 No

SPSS syntax

```
RECODE docinfo2 (-9 thru -2=COPY) (1=1) (2=2) (-1=2) INTO kiddiag.
IF (ANY(-9,docinfo2)) kiddiag=-9.
IF (ANY(-8,docinfo2)) kiddiag=-8.
if age<=15 kiddiag=-1.
VARIABLE LABEL kiddiag "(D) Doctor diagnosed kidney disease".
VALUE LABELS kiddiag

   1 "Yes"
   2 "No".
```

KIDFAIL : (D) Chronic disease stage

1 Normal: eGFR 90+ ml/min/1.73m2 and normal albuminuria
2 Low normal: eGFR >60&<90 ml/min/1.73m2 and normal albuminuria
3 Stage 1: eGFR 90+ ml/min/1.73m2 and micro- or macro-albuminuria
4 Stage 2: eGFR >60&<90 ml/min/1.73m2 and micro- or macro-albuminuria
5 Stage 3a/3b: eGFR >30&<60 ml/min/1.73m2 and normal albuminuria
6 Stage 3a/3b: eGFR >30&<60 ml/min/1.73m2 and micro- or macro-albuminuria
7 Stage 4/5: eGFR <30 ml/min/1.73m2 regardless of albuminuria

SPSS syntax

```
compute kidfail=9.
IF eGFRgp4=1 and albcregp=1 kidfail=1.
IF eGFRgp4=2 and albcregp=1 kidfail=2.
IF eGFRgp4=1 and any(albcregp,2,3) kidfail=3.
IF eGFRgp4=2 and any(albcregp,2,3) kidfail=4.
IF eGFRgp4=3 and albcregp=1 kidfail=5.
IF eGFRgp4=3 and any(albcregp,2,3) kidfail=6.
IF eGFRgp4=4 kidfail=7.
IF eGFRgp4<0 kidfail=eGFRgp4.
IF albcregp<0 kidfail=albcregp.
VARIABLE LABELS kidfail "(D) Chronic disease stage" .
VALUE LABELS kidfail

  1 'Normal: eGFR 90+ ml/min/1.73m2 and normal albuminuria'
  2 'Low normal: eGFR >60&<90 ml/min/1.73m2 and normal albuminuria'
  3 'Stage 1: eGFR 90+ ml/min/1.73m2 and micro- or macro-albuminuria'
  4 'Stage 2: eGFR >60&<90 ml/min/1.73m2 and micro- or macro-albuminuria'
  5 'Stage 3a/3b: eGFR >30&<60 ml/min/1.73m2 and normal albuminuria'
  6 'Stage 3a/3b: eGFR >30&<60 ml/min/1.73m2 and micro- or macro-albuminuria'
  7 'Stage 4/5: eGFR <30 ml/min/1.73m2 regardless of albuminuria'.
exe.
```

KIDFAILGP : (D) Chronic disease stage (grouped)

1 Normal: eGFR 60+ ml/min/1.73m2 and normal albuminuria
2 Stage 1: eGFR 90+ ml/min/1.73m2 and micro- or macro-albuminuria
3 Stage 2: eGFR 60-89 ml/min/1.73m2 and micro- or macro-albuminuria
4 Stage 3a/3b: eGFR 30-59 ml/min/1.73m2 regardless of albuminuria
5 Stage 4/5: eGFR less than 30 ml/min/1.73m2 regardless of albuminuria

SPSS syntax

```
compute kidfailgp=9.
IF eGFRgp4=1 and albcregp=1 kidfailgp=1.
IF eGFRgp4=2 and albcregp=1 kidfailgp=1.
IF eGFRgp4=1 and any(albcregp,2,3) kidfailgp=2.
IF eGFRgp4=2 and any(albcregp,2,3) kidfailgp=3.
IF eGFRgp4=3 kidfailgp=4.
IF eGFRgp4=4 kidfailgp=5.
IF eGFRgp4<0 kidfailgp=eGFRgp4.
IF albcregp<0 kidfailgp=albcregp.
VARIABLE LABELS kidfailgp "(D) Chronic disease stage (grouped)" .
VALUE LABELS kidfailgp

  1 'Normal: eGFR 60+ ml/min/1.73m2 and normal albuminuria'
  2 'Stage 1: eGFR 90+ ml/min/1.73m2 and micro- or macro-albuminuria'
  3 'Stage 2: eGFR 60-89 ml/min/1.73m2 and micro- or macro-albuminuria'
  4 'Stage 3a/3b: eGFR 30-59 ml/min/1.73m2 regardless of albuminuria'
  5 'Stage 4/5: eGFR less than 30 ml/min/1.73m2 regardless of albuminuria'.
exe.
```

Diabetes

DIABETE2: (D) Doctor diagnosed diabetes (excluding pregnant).

1 Yes
2 No

SPSS syntax

```
RECODE diabetes (-9 thru -2=COPY) (1=1) (2=2) (-1=2) INTO diabete2.
IF (sex=2 & dioth=2) diabete2=2.
IF (ANY(-9,diabetes,dipreg)) diabete2=-9.
IF (ANY(-8,diabetes,dipreg)) diabete2=-8.
if age<=15 diabete2=-1.
VARIABLE LABEL diabete2 "(D) Doctor diagnosed diabetes (excluding pregnant)".
VALUE LABELS diabete2

   1 "Yes"
   2 "No".
```

DIABTYPE : (D) Type of diabetes

1 Type 2
2 Not diabetic
3 Type 1

SPSS syntax

```
RECODE
diabete2 (ELSE=Copy) INTO diabtype .
DO IF (diage< 35 and insulin=1) .
RECODE diabtype (1=3) .
END IF .
VARIABLE LABELS diabtype '(D) Type of diabetes'.
VALUE LABELS diabtype
 1 'Type 2'
 2 'Not diabetic'
 3 'Type 1'.
```

Urine

Sodival: (D) Valid Sodium Result

SPSS syntax

```
compute sodival=-5.
if sodiumq=-2 sodival=-2.
if sodium=-1 sodival=-1.

if sodiumq=-1 and sodium>=1 sodival=1.
variable labels sodival "(D) Valid Sodium Result".
```