Health Survey for England

2017

Dataset documentation

Variable list
Derived variable syntax

Health Survey for England

Health, Social care and Lifestyles

2017

List of Variables

Version 1

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 Young Adults, SC Adult, or where a question appears in more than one booklet the range is widened (e.g. SC 8-15)
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*	Serial number of household	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
BEDROOMS6	Number of bedrooms in household - 6+	Hhold
PASSM	Does anyone smoke inside this house/flat on most days?	Hhold
NUMSM	Number of people who smoke inside this house/flat in most days	Hhold
CAR	Whether car or van normally available	Hhold
NUMCARS	Number of cars normally available	Hhold
FINOUTC	Final outcome code	Hhold
HHSIZE6	(D) Household Size 6+	Derived
NOFAd3	Number of adults, top coded 3+	Derived*
NOFCh3	Number of children, top coded 3+	Derived*

Intra-Household

Variable	Description	Source
moth_activbR	(D) Female parent/guardian's activity status for last week recoded	Derived*
moth_acutill	(D) Female parent/guardian's Acute sickness last two weeks	Derived*
moth_age16g5R	(D) Female parent/guardian's (D) Age 16+, 5 year bands - recoded	Derived*
moth_bmivg52	(D) Female parent/guardian's Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+) estimated weight if >200kg	Derived*
moth_cigst1	(D) Female parent/guardian's Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current	Derived*
moth_d7unitwgrp	(D) Female parent/guardian's Units drunk on heaviest day in last 7 (16yrs+)	Derived*
moth_educendR	(D) Female parent/guardian's Age finished continuous full-time education	Derived*
moth_mvpamwkg	(D) Female parent/guardian's IPAQ: Grouped Active - 30 minutes or more Moderate/Vigorous-intensity minutes (MVPA) each week	Derived*
moth_porftvg15	(D) Female parent/guardian's Grouped portions of fruit (inc.orange juice) & veg yesterday	Derived*
moth_topqual3R	(D) Female parent/guardian's Highest Educational Qualification recoded	Derived*
moth_totalwug	(D) Female parent/guardian's Alcohol units per week grouped	Derived*
fath_activbR	(D) Male parent/guardian's Activity status for last week recoded	Derived*
fath_acutill	(D) Male parent/guardian's Acute sickness last two weeks	Derived*
fath_age16g5R	(D) Male parent/guardian's Age 16+, 5 year bands recoded	Derived*
fath_bmivg52	(D) Male parent/guardian's Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+) estimated weight if >200kg	Derived*
fath_cigst1	(D) Male parent/guardian's Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current	Derived*
fath_d7unitwgrp	(D) Male parent/guardian's Units drunk on heaviest day in last 7 (16yrs+)	Derived*
fath_educendR	(D) Male parent/guardian's Age finished continuous full-time education recoded	Derived*
fath_mvpamwkg	(D) Male parent/guardian's IPAQ: Grouped Active - 30 minutes or more Moderate/Vigorous-intensity minutes (MVPA) each week	Derived*
fath_porftvg15	(D) Male parent/guardian's Grouped portions of fruit (inc.orange juice) & veg yesterday	Derived*
fath_topqual3R	(D) Male parent/guardian's Highest Educational Qualification recoded	Derived*
fath_totalwug	(D) Male parent/guardian's Alcohol units per week grouped	Derived*
part_cigst1	(D) Partner's Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current	Derived*
Fath_bmi	(D) Father's BMI - three groups	Derived
Moth_bmi	(D) Mother's BMI - three groups	Derived
fath_bmi2	(D) Father's BMI – two groups	Derived
moth_bmi2	(D) Mother's BMI – two groups	Derived
ParCigSt3	(D) Parents smoking status	Derived*

* Syntax for intra-household variables is not detailed in the DV specification

Individual

Variable	Description	Source
SERIALI[1]	Serial number of individual	Indiv
SEX	Sex	Hhold
INDOUT	Individual outcome codes	Indiv
Age35g[2]	(D) Respondent age - grouped, approx 3 year bands for 0-15, 5 year bands 16+	Derived
Age16g5	(D) Age 16+, 5 year bands	Derived
ag16g10	(D) Age 16-75+ in ten year age bands	Derived
Ag015g4	(D) Age 2-15 in three groups	Derived

Admin

Variable	Description	Source
HSEYR	Year of survey	Derived
QRTINT	(D) Quarter of year of individual interview	Derived
INTDAYW	(D) Weekday of individual interview	Derived

Booklet Admin

Variable	Description	Source
BOOKCHK	Aged 18 – 24: Asked about drinking/smoking or complete Young Adults SC	Indiv
SCTYPE	Type of Self completion offered	Indiv
SCCHECK	Self completion booklets complete	Indiv
SCOMP3	Self completion completed	Indiv
SCREC	Self completion received	Indiv
SC3ACC1	SC: Completed independently	Indiv
SC3ACC2	SC: Completed with assistance from other children	Indiv
SC3ACC3	SC: Completed with assistance from other household member	Indiv
SC3ACC4	SC: Completed with assistance from interviewer	Indiv
SC3ACC5	SC: Interviewer administered SC booklet	Indiv
SCOMP60	SC refused: Child away from home during fieldwork period	Indiv
SCOMP61	SC refused: Eyesight problems	Indiv
SCOMP62	SC refused: Language problems	Indiv
SCOMP63	SC refused: Reading/writing/comprehension difficulties	Indiv
SCOMP64	SC refused: Bored/fed up/ tired	Indiv
SCOMP65	SC refused: Questions too sensitive/invasion of privacy	Indiv
SCOMP66	SC refused: Booklet too long/too busy/taken long enough already	Indiv
SCOMP67	SC refused: No other reason given	Indiv
SCOMP68	SC refused: Illness/disability (physical or mental)	Indiv
SCOMP69	SC refused: Child 2-12 asleep	Indiv
SCOMP610	SC refused: Not in/not available	Indiv
SCOMP611	SC refused: Proxy refusal	Indiv
SCOMP612	SC refused: No self completion booklet available	Indiv
SCOMP695	SC refused: Other reason	Indiv
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/partners)	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
SCOMP5A9	SC present: No-one else present	Indiv
BOOKLET	(D) Eligible for which self-completion booklet	Derived

Education

Variable	Description	Source
EDUCEND	Age finished continuous full-time education	Indiv
QUAL	Whether has any of the qualifications listed	Indiv
DEGREE1	Do you have a doctorate qualification?	Indiv

[1] Renamed SerialA in the archived dataset.
* Removed from dataset.
[2] Age in individual years has been removed from the archived dataset.

DEGREE2	Do you have a masters qualification?	Indiv
DEGREE3	Do you have an undergraduate or first degree qualification?	Indiv
DEGREE4	Do you have a foundation qualification?	Indiv
DEGREE5	Do you have a graduate membership or a professional institution qualification?	Indiv
DEGREE6	Do you have another post graduate degree or professional qualification?	Indiv
TOPQUAL3	(D) Highest Educational Qualification	Derived
TOPQUAL2	(D) Highest Educational Qualification – Students separate	Derived
TOPQUAL4	(D) Highest Educational Qualification, 3 groups	Derived

Employment Status

Variable	Description	Source
HRPSOC10B	(D) HRP: Sub-Major Group Standard Occupational Classification 2010	Derived
HRPSIC7b3	(D) HRP: Standard Industrial Classification 2007	Derived
HRPACTIV2	(D) HRP: Activity status for last week - grouped	Derived
HRPSTWK	HRP: Did you do any paid work in last 7 days ending last Sunday?	Hhold
HRP4WKLK	HRP: Looking for paid work/govt scheme in last 4 weeks ending last Sunday?	Hhold
HRP2WKST	HRP: If job or training scheme available, able to start within 2 weeks?	Hhold
HRPEVERJ	HRP: Ever been in paid employment or been self-employed	Hhold
HRPOTHPD	HRP: Ever had other employment (apart from job you are waiting to take up)	Hhold
HRPLONG	HRP: How long have you been looking/were you looking for paid employment	Hhold
HRPPAYAG	HRP: Age when last had a paid job.	Hhold
HWkBar1	Prevented from working or looking for work: Own disability or illness	Hhold
HWkBar2	Prevented from working or looking for work: Caring for a disabled or elderly person	Hhold
HWkBar3	Prevented from working or looking for work: Looking after child(ren)	Hhold
HWkBar4	Prevented from working or looking for work: No work available	Hhold
HWkBar5	Prevented from working or looking for work: Better off not working	Hhold
HWkBar6	Prevented from working or looking for work: Pregnant	Hhold
HWkBar7	Prevented from working or looking for work: Don't need employment	Hhold
HWkBar8	Prevented from working or looking for work: Retired	Hhold
HWkBar9	Prevented from working or looking for work by any of the things listed on this card: None of these	Hhold
HRetReas	Retired because a disability or illness meant unable to work	Hhold
HRPFTPT	HRP: Whether working full time or part time	Hhold
HRPEMPLY	HRP: Whether an employee or self-employed	Hhold
HRPDIRCT	HRP: Whether director of a limited company	Hhold
HRPEMPST	HRP: Whether a manager or foreman	Hhold
HRPNEMPL	HRP: Number employed at place of work (including yourself)	Hhold
HRPSEMPR	HRP: If self-employed, do/did you have any employees? (top coded)	Derived
SECTOR	HRP: Is organisation private sector, public sector or non-profit	Hhold
ACTIVB2	(D) Activity status for last week	Derived
STWORK	Paid work in last 7 days	Indiv
WKLOOK4	Whether looking for any paid work or Govt Training Scheme at any time in the 4 weeks ending last Sunday	Indiv
WKSTRT2	If a job or place on Govt Training Scheme had been available, would you have been able to start within 2 weeks?	Indiv
EVERJOB	Whether ever been in paid employment or been self-employed	Indiv
OTHPAID	Ever had other employment (apart from job you are waiting to take up)	Indiv
HOWLONG	How long have you been looking/were you looking for paid employment	Indiv
PAYAGE	Age when last had a paid job	Indiv
FTPTIME	Whether working full-time or part-time	Indiv
WkBar1	Prevented from working or looking for work: Own disability or illness	Indiv
WkBar2	Prevented from working or looking for work: Caring for a disabled or elderly person	Indiv
WkBar3	Prevented from working or looking for work: Looking after child(ren)	Indiv
WkBar4	Prevented from working or looking for work: No work available	Indiv
WkBar5	Prevented from working or looking for work: Better off not working	Indiv
WkBar6	Prevented from working or looking for work: Pregnant	Indiv
WkBar7	Prevented from working or looking for work: Doesn't need employment	Indiv
WkBar8	Prevented from working or looking for work: Retired	Indiv
WkBar9	Prevented from working or looking for work: None of these	Indiv
RetReas	Whether retired because a disability or illness meant unable to work	Indiv
EMPLOYE	Whether employee/self employed	Indiv
DIRCTR	Whether director of a limited company	Indiv
EMPSTAT	Whether a manager or foreman	Indiv
NEMPLEE	Number employed at place of work (including yourself)	Indiv
SNEMPLEER	If self-employed, do/did you have any employees? (top coded)	Indiv
ISECTOR	Is organisation private sector, public sector or non-profit	Indiv
SOC2010B	(D) Sub-Major Group Standard Occupational Classification 2010	Derived

SIC2007b3	(D) Standard Industrial Classification 2007 (re-grouped)	Derived
SCLASS	Registrar General's Social Class of individual (old scheme)	Indiv
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/Identity

Variable	Description	Source
ORIGIN2	(D) Grouped ethnic categories	Derived
RELIGSC	What is your religion?	SC 16+
NATID1	National identity: English	Indiv
NATID2	National identity: Welsh	Indiv
NATID3	National identity: Scottish	Indiv
NATID4	National identity: Irish	Indiv
NATID5	National identity: British	Indiv
NATID6	National identity: Other	Indiv
YNATSC1	National identity: English (SC)	SC 8+
YNATSC2	National identity: Welsh (SC)	SC 8+
YNATSC3	National identity: Scottish (SC)	SC 8+
YNATSC4	National identity: Irish (SC)	SC 8+
YNATSC5	National identity: British (SC)	SC 8+
YNATSC6	National identity: Something else (SC)	SC 8+

Income

Variable	Description	Source
SRCIN01d	Income: Earnings from employment or self-employment	Hhold
SRCIN02d	Income: State retirement pension	Hhold
SRCIN03d	Income: Pension from former employer	Hhold
SRCIN04d	Income: Personal pensions	Hhold
SRCIN05d	Income: Job-Seekers Allowance	Hhold
SRCIN06d	Income: Employment and Support Allowance	Hhold
SRCIN07d	Income: Income Support	Hhold
SRCIN08d	Income: Pension Credit	Hhold
SRCIN09d	Income: Working Tax Credit	Hhold
SRCIN10d	Income: Child Tax Credit	Hhold
SRCIN11d	Income: Child Benefit	Hhold
SRCIN12d	Income: Housing Benefit	Hhold
SRCIN13d	Income: Council Tax Benefit	Hhold
SRCIN14d	Income: Universal Credit	Hhold
SRCIN15d	Income: Other state benefits	Hhold
SRCIN16d	Income: Interest from savings and investments (eg stocks & shares)	Hhold
SRCIN17d	Income: Other kinds of regular allowance from outside your household	Hhold
OTHINC	Whether other income in household	Hhold
JNTINC2	Joint income - grouped	Derived
HHINC2	Total household income - grouped	Derived
EQV3	(D) Equivalised Income Tertiles	Derived
EQV5	(D) Equivalised Income Quintiles	Derived

Disability Allowance

Variable	Description	Source
ATTDISB1	Disability allowance: Attendance Allowance	Hhold
ATTDISB2	Disability allowance: Disability Living Allowance – care component	Hhold
ATTDISB3	Disability allowance: Disability Living Allowance – mobility component	Hhold
ATTDISB4	Disability allowance: Personal Independence Allowance – care component	Hhold
ATTDISB5	Disability allowance: Personal Independence Allowance – mobility component	Hhold
ATTDISB96	Disability allowance: None of these	Hhold

Nurse Admin

Variable	Description	Source
NUROUTC	Outcome of nurse visit	Nurse
NURSE	Agreed to nurse appointment (at individual interview)	Indiv
NRSERF00	Refused nurse: Own doctor already has information	Indiv
NRSERF01	Refused nurse: Given enough time already to this survey/expecting too much	Indiv
NRSERF02	Refused nurse: Too busy, cannot spare the time	Indiv
NRSERF03	Refused nurse: Had enough of medical tests/medical profession at present time	Indiv
NRSERF04	Refused nurse: Worried about what nurse may find out	Indiv
NRSERF05	Refused nurse: Scared of medical profession/particular medical procedures	Indiv
NRSERF06	Refused nurse: Not interested/Can't be bothered/No particular reason	Indiv
NRSERF07	Refused nurse: Other reason	Indiv
QRTNVIS	(D) Quarter of year of nurse visit interview	Derived
NURDAYW	(D) Weekday of nurse interview	Derived

Relationships

Variable	Description	Source
MARSTATD	(D) Marital status including cohabitees	Derived
COUPLE2	Living with anyone in this household - grouped	Hhold
LIVEWITH	Cohabitee	Hhold

Sample Info

Variable	Description	Source
SAMPTYPE	Sample type	Sample
URBAN14bR	(D) Rurality of dwelling unit (urban/rural 2011) - Binary (recoded)	Derived
QIMD	(D) Quintile of IMD SCORE	Derived
GOR1	Government Office Region – numeric	Hhold
SHA	Strategic Health Authority (OSHLTHAU)	Hhold
POINT[3]	Sample point number	Hhold
ADDRESS[4]	Address number	Sample
STRATA[5]	Stratification level	Indiv
STRATA_KIDS	Stratification level for respondents aged 0-15	Indiv
STRATA_NURSE	Stratification variable for respondents with a valid nurse outcome	Indiv
STRATA_BLOOD	Stratification variable for respondents with a valid blood outcome	Indiv
STRATA_COTININE	Stratification variable for respondents with a valid cotinine outcome	Indiv
NOFHH	Number of households	ARF

Weighting

Variable	Description	Source
WT_INT	HSE 2017 Weight for analysis of interview sample	Other
WT_NURSE	HSE 2017 Weight for analysis of nurse sample	Other
WT_BLOOD	HSE 2017 Weight for analysis of blood sample	Other
WT_COTININE	HSE 2017 Weight for analysis of cotinine sample	Other

[3] Variable scrambled and renamed PSU in archived dataset.
[4] Variable scrambled and renamed ADDNUM in archived dataset.
[5] Variable scrambled and renamed CLUSTER in archived dataset. Additional strata provided for analysis – see user guide for more information.

Anthropometric Measurements

Birth

Variable	Description	Source
PREGNOWB	Whether pregnant now	Indiv

Height/Weight Admin

Variable	Description	Source
RESPHTS	Response to height measurement	Indiv
RESNHI	Reason for refusal of height.	Indiv
EHTCH	Non proxy: Form in which estimated height given	Indiv
NOHTBC	Reason for not obtaining height measurement	Indiv
RELHITE	Is this height measurement reliable?	Indiv
HINREL	What caused the height measurement to be unreliable?	Indiv
RESPWTS	Response to weight measurement	Indiv
MBOOKHT	Height cm or Foot feet Inch inches.	Indiv
RESNWT	Refusal of weight measurement	Indiv
NOWTBC	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	Is this weight measurement reliable?	Indiv
MBookWt	Weight: Weight kg or Stone stones Pound pounds	Indiv
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
HtM17	Final measured height (cm)	Indiv
HTSR	Self-reportedheight (cm)	Indiv
WEIGHT	Weight (kg) – inc unreliable measurements	Indiv
WTM17	Final measured weight (kg)	Indiv
WTSR	Self-reported 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
Estht2	(D) Final height - measured or estimated (cm)	Derived
Estwt2	(D) Final weight - measured or estimated (kg)	Derived
HTVAL	(D) Valid height (cm)	Derived
WTVAL	(D) Valid weight (Kg) inc. estimated>130kg	Derived
WTVAL2	(D) Valid weight (Kg) inc. estimated>200kg	Derived
WSTVAL	(D) Valid Mean Waist (cm)	Derived
HIPVAL	(D) Valid Mean Hip (cm)	Derived
BMIOWGT	(D) Overweight, incl obese, binary	Derived
BMISR	(D) Self-reported BMI	Derived
BMISRG5	(D) Self-reported BMI (grouped:<18.5,18.5-25,25-30,30-40 40+)	Derived
BMI	(D) BMI – inc unreliable measurements	Derived
BMIVAL	(D) Valid BMI measurements using estimated weight if >130kg	Derived
BMIVAL2	(D) Valid BMI measurements using estimated weight if >200kg	Derived
BMIVG5	(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+) using estimated weight if >130kg	Derived
BMIVG52	(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+) using estimated weight if >200kg	Derived
BMIVG53	(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-35,35+) estimated weight if >200kg	Derived

BMI6grp	(D) Valid BMI (grouped:<18.5,18.5-23,23-25,25-27.5,27.5-30,30+) estimated weight if >200kg	Derived
BMIVG3	(D) BMI grouped combining underweight and normal, overweight and combining obese and mobidly obese	Derived
BMIVG6	(D) BMI grouped with Obese categories I, II, III	Derived
BMIVG8	(D) BMI in 8 categories	Derived
BMI_GROUP	(D) BMI grouped excluding underweight and combining obese and morbidly obese	Derived
BMIVGDR	(D) WHO diabetes risk category	Derived
BMICAT1	(D) UK BMI national classification standards Age 2-15 (85^{th}/95^{th} centile) 2008	Derived
BMICAT2	(D) BMI status Age 2-15 (ovrwght inc. obese) 2008	Derived
BMICAT3	(D) BMI status Age 2-15 (non-obese vs obese) 2008	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
WAISTHI	(D) Raised waist measurement over 102cm for men and 88cm for women	Derived
WSTGP3	(D) waist circumference in 3 groups (valid waist)	Derived
WAIST	(D) Waist circumference, defined by NICE (3 groups, based on valid waist and BMIvg6)	Derived
OHTHRISK	(D) Health risk classifications based on body mass index (BMI) and waist circumference (as defined by NICE)	Derived
OHTHRISKG	(D) Health risk classifications based on body mass index (BMI) and waist circumference, grouped (as defined by NICE)	Derived

Waist/Hip Admin

Variable	Description	Source
RESPWH	Response to waist/hip measurements	Nurse
YNOWH	Reason no waist/hip measurements	Nurse
WHOUTC	Waist Hip outcome	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
WHPNABM8	No waist/hip: Measurement tape not long enough	Nurse
WJREL	Whether problems with waist measurement	Nurse
PROBWST	Problems experienced likely to increase/decrease waist measurement	Nurse
HJREL	Whether problems with hip measurement	Nurse
PROBHIP	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
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
SAMPFA1	Plain red tube filled (Apr-Sept)	Nurse
SAMPFB1	Plain red tube filled (Oct-Mar)	Nurse
SAMPF2	EDTA 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
CHOLOK2	(D) Response to Total Cholesterol sample	Derived
HDLOK2	(D) Response to HDL Cholesterol sample	Derived
GLYHBOK	(D) Response to Glycated HB sample	Derived

Measurements

Variable	Description	Source
CHOLEST	Total cholesterol result mmol/L (Blood data)	Lab
CHOLQUAL	Total cholesterol serum quality (Blood data)	Lab
CHOLVAL3	(D) Valid Total Cholesterol Result mmol/L (sample received after 16th June)	Derived
CHOLVAL13	(D) Valid Total Cholesterol Result mmol/L (incl those on LLD) (sample received after 16th June)	Derived
CHOLFOUR3	(D) Whether Total Cholesterol < 4 (incl those on LLD) {revised} (sample received after 16th June)	Derived
CHOLFIVE3	(D) Whether Total Cholesterol < 5 (incl those on LLD) {revised} (sample received after 16th June)	Derived
HDLCHOL	HDL Cholesterol result (Blood data)	Lab
HDLQUAL	HDL Cholesterol serum quality (Blood data)	Lab
HDLVAL3	(D) Valid HDL Cholesterol Result mmol/L (sample received after 16th June)	Derived
HDLVAL13	(D) Valid HDL Cholesterol Result mmol/L (incl those on LLD) (sample received after 16th June)	Derived
HDLONE3	(D) Whether HDL Cholesterol result <1 (incl those on LLD) {revised} (sample received after 16th June)	Derived
Raised	(D) Total cholesterol - raised, over 4.9 (mmol/L)	Derived
GLYHB	Glycated haemoglobin result (%) (Blood data)	Lab

GLHBQUAL	Glycated haemoglobin serum quality (Blood data)	Lab
GLYHBVALA	(D) Valid Glycated HB result [adjusted to be comparable to pre-September 2013]	Derived
GLYHBVAL2	(D) Valid Glycated haemoglobin result (%)	Derived
GLYHB3G2	(D) Glycated haemoglobin (%) 3 groups	Derived
GLYHBHI2	(D) Raised Glycated haemoglobin (%)	Derived
IFCCA1	Glycated haemoglobin result (mmol/ml) (Blood data)	Lab
IFCCA1Q	Glycated haemoglobin serum quality (mmol/ml) (Blood data)	Lab
CHOLVALA	(D) Valid Total Cholesterol Result mmol/L (later results adjusted to be comparable with pre-2010 results)	Derived
CHOLVAL1A	(D) Valid Total Cholesterol Result mmol/L (incl those on LLD) (later results adjusted to be comparable with pre-2010 results)	Derived
CHOLFOURA	(D) Whether Total Cholesterol < 4 (incl those on LLD) {revised} (later results adjusted to be comparable with pre-2010 results)	Derived
CHOLFIVEA	(D) Whether Total Cholesterol < 5 (incl those on LLD) {revised} (later results adjusted to be comparable with pre-2010 results)	Derived
HDLVALA	(D) Valid HDL Cholesterol Result mmol/L (later results adjusted to be comparable with pre-2010 results)	Derived
HDLVAL1A	(D) Valid HDL Cholesterol Result mmol/L (later results adjusted to be comparable with pre-2010 results)	Derived
HDLONEA	(D) Whether HDL Cholesterol result <1 (incl those on LLD) {revised} (later results adjusted to be comparable with pre-2010 results)	Derived
GLYHB3GA	(D) Glycated haemoglobin 3 groups (later results adjusted to be comparable with pre-September 2013)	Derived
GLYHBHIA	(D) Raised glycated haemoglobin (later results adjusted to be comparable with pre-September 2013)	Derived
IFFCVAL2	(D) Valid Glycated haemoglobin result in mmol/ml (IFFC)	Derived
IFFCVALA	(D) Valid Glycated haemoglobin Result in mmol per ml (IFFC) (later results adjusted to be comparable with pre-September 2013)	Derived
iffcvalag3	(D) Glycated haemoglobin (mmol/mol) 3 groups	Derived
iffcvalag4	(D) Glycated haemoglobin (mmol)	Derived

Blood Pressure

Admin

Variable	Description	Source
BPOUTC	Blood Pressure Outcome	Nurse
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
CON60SB1	Eaten in the past 60 minutes	Nurse
CON60SB2	Smoked in the past 60 minutes	Nurse
CON60SB3	Drunk alcohol in the past 60 minutes	Nurse
CON60SB4	Exercised vigorously in the past 60 minutes	Nurse
CON60SB5	Nothing to affect BP in the past 60 minutes	Nurse
CONSU2X1	Eaten in the past 30 minutes (age 5-12)	Nurse
CONSU2X4	Exercised vigorously in the past 30 minutes (age 5-12)	Nurse
CONSU2X5	Neither in the past 30 minutes (age 5-12)	Nurse
CON60S21	Eaten in the past 60 minutes (age 5-12)	Nurse
CON60S24	Exercised vigorously in the past 60 minutes (age 5-12)	Nurse
CON60S25	Neither in the past 60 minutes (age 5-12)	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 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
HYPER1OM2	(D) Hypertensive catagories: all prescribed drugs for BP (Omron readings) {revised}	Derived
HYPER2OM2	(D) Hypertensive catagories: all taking BP drugs (Omron readings) {revised}	Derived
HY140OM2	(D) Hypertensive catagories: 140/90: all prescribed drugs for BP (Omron readings) {revised}	Derived
HIBP1OM2	(D) Whether hypertensive: all prescribed drugs for BP (Omron readings) {revised}	Derived
HIBP2OM2	(D) Whether hypertensive: all taking BP drugs (Omron readings) {revised}	Derived
HBP140OM2	(D) Whether hypertensive: 140/90: all prescribed drugs for BP (Omron readings) {revised}	Derived
BPHI3G	(D) Valid blood pressure 3 groups	Derived
HBP160OM2	(D) Hypertensive untreated (160/100): all prescribed drugs for BP (Omron readings) {revised}	Derived
Hyptreat	(D) Hypertensive untreated: all prescribed drugs for BP (Omron readings) {revised}	Derived
omsysvalg5	(D) SBP in 5 groups	Derived

Drinking

Adult General

Variable	Description	Source
WHYTT	Reason why stopped drinking	Indiv
DDRINKAG	Age first alcoholic drink	SC YP
DNNOW	Whether drinks 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
DRINKYN	(D) Drink alcohol in last 12 months, binary	Derived
NORBOT	(D) Normal beer bottle multiplier (16yrs+)	Derived
STRBOT	(D) Strong beer bottle multiplier (16yrs+)	Derived

Adult 7 Days

Variable	Description	Source
DRNKSAME	Whether drank more on a particular day 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 (c+sc)	Indiv/SC YP
D7MANY	How many days in last 7 had a drink (c+sc)	Indiv/SC YP
D7TYP1	Heaviest day: Normal Beer (c+sc)	Indiv/SC YP
D7TYP2	Heaviest day: Strong Beer (c+sc)	Indiv/SC YP
D7TYP3	Heaviest day: Spirits (c+sc)	Indiv/SC YP
D7TYP4	Heaviest day: Sherry (c+sc)	Indiv/SC YP
D7TYP5	Heaviest day: Wine (c+sc)	Indiv/SC YP
D7TYP6	Heaviest day: Alcopops (c+sc)	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 (c+sc)	Indiv/SC YP
NBERQLG7	Amount normal beer (large cans/bottles) on heaviest day (c+sc)	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 (c+sc)	Indiv/SC YP
SBERQLG7	Amount strong beer (large cans/bottles) on heaviest day (c+sc)	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
SPIRQME7	Amount spirits (measures) on heaviest day (c+sc)	Indiv/SC YP
SHERQGS7	Amount sherry (glasses) on heaviest day (c+sc)	Indiv/SC YP
WGLS250ML	Amount wine (250ml glasses) on heaviest day (c+sc)	Indiv/SC YP
WGLS175ML	Amount wine (175ml glasses) on heaviest day (c+sc)	Indiv/SC YP
WGLS125ML	Amount wine (125ml glasses) on heaviest day (c+sc)	Indiv/SC YP
WBTLGZ	Amount wine (125ml glasses from a bottle) on heaviest day (c+sc)	Indiv/SC YP
POPSL7Q1	Amount of alcopops (small cans/bottles) on heaviest day in last 7	Indiv
POPSL7Q3	Amount of alcopops standard bottles (125ml) on heaviest day in last 7	Indiv
POPSL7Q4	Amount of alcopops large bottles(700ml) on heaviest day in last 7	Indiv
DP7SCAN	Amount of alcopops (small cans/bottles) on heaviest day in last 7	SC YP
DP7SBTL	Amount of alcopops small cans/bottles on heaviest day in last 7(sc)	SC YP
DP7LBTL	Amount of alcopops large bottles(700ml) on heaviest day in last 7	SC YP
POPSQSM7	Amount alcopops (small cans/bottles) on heaviest day (c+sc)	Indiv/SC YP
POPSQLG7	Amount alcopops (large bottles) on heaviest day (c+sc)	Indiv/SC YP

D7MANY3	(D) Number of days drank in last week, including none	Derived
D7UNITWG	(D) Units drunk on heaviest day in last 7 (16yrs+)	Derived
D7UNITWGRP	(D) units drunk on heaviest day in last 7 (16yrs+)	Derived
WDRINK07B	(D) 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
D7BEERU	(D) Units of normal beer on heaviest day	Derived
D7SBU	(D) Units of strong beer on heaviest day	Derived
D7SPIRU	(D) Units of spirits on heaviest day	Derived
D7WINU	(D) Units of wine on heaviest day	Derived
D7SHERU	(D) Units of sherry on heaviest day	Derived
D7POPU	(D) Units of alcopops on heaviest day	Derived

Adult 12 Months

Variable	Description	Source
NBEER	Freq of drinking normal beer etc over last 12 months	Indiv
NBEERM1	12 months normal beer: Half pints	Indiv
NBEERM2	12 months normal beer: small cans	Indiv
NBEERM3	12 months normal beer: Large cans	Indiv
NBEERM4	12 months normal beer: Bottles	Indiv
NBEERQ1	Amount of normal beer etc usually drunk on any one day (half pints)	Indiv
NBEERQ2	Amount of normal beer etc usually drunk on any one day (small cans)	Indiv
NBEERQ3	Amount of normal beer etc usually drunk on any one day (large cans)	Indiv
NBEERQ4	Amount of normal beer etc usually drunk on any one day (bottles)	Indiv
SBEER	Freq of drinking strong beer etc over last 12 months	Indiv
SBEERM1	12 months strong beer: Half pints	Indiv
SBEERM2	12 months strong beer: small cans	Indiv
SBEERM3	12 months strong beer: Large cans	Indiv
SBEERM4	12 months strong beer: Bottles	Indiv
SBEERQ1	Amount of strong beer etc usually drunk on any one day (half pints)	Indiv
SBEERQ2	Amount of strong beer etc usually drunk on any one day (small cans)	Indiv
SBEERQ3	Amount of strong beer etc usually drunk on any one day (large cans)	Indiv
SBEERQ4	Amount of strong beer etc usually drunk on any one day (bottles)	Indiv
SPIRITS	Freq of drinking spirits over last 12 months	Indiv
SPIRITSQ	Amount of spirits usually drunk (single measures)	Indiv
SHERRY	Freq of drinking sherry over last 12 months	Indiv
SHERRYQ	Amount of sherry usually drunk (small glasses)	Indiv
WINE	Freq of drinking wine over last 12 months	Indiv
WINEQ	Amount of wine usually drunk on any one day	Indiv
BWINEQ2	12 months wine: size of glass	Indiv
POPS	Freq of drinking alcopops over last 12 months	Indiv
POPSLY11	12 months alcopops: small cans	Indiv
POPSLY12	12 months alcopops: standard bottles (275ml)	Indiv
POPSLY13	12 months alcopops: large bottles (700ml)	Indiv
POPSQ111	Amount of alcopops usually drunk on any one day (small cans)	Indiv
POPSQ112	Amount of alcopops usually drunk on any one day (standard bottles)	Indiv
POPSQ113	Amount of alcopops usually drunk on any one day (large bottles)	Indiv
SCNBEER	Freq of drinking normal beer etc over last 12 months	SC YP
SCNBEEQ1	Amount of normal beer etc usually drunk (pints)	SC YP
SCNBEEQ2	Amount of normal beer etc usually drunk (large cans or bottles)	SC YP
SCNBEEQ3	Amount of normal beer etc usually drunk (small cans or bottles)	SC YP
SCSBEER	Freq of drinking strong beer etc over last 12 months	SC YP
SCSBEEQ1	Amount of strong beer etc usually drunk (pints)	SC YP
SCSBEEQ2	Amount of strong beer etc usually drunk (large cans or bottles)	SC YP
SCSBEEQ3	Amount of strong beer etc usually drunk (small cans or bottles)	SC YP
SCSPIRIT	Freq of drinking spirits over last 12 months	SC YP
SCSPIRQ	Amount of spirits usually drunk (glasses)	SC YP
SCSHERRY	Freq of drinking sherry over last 12 months	SC YP
SCSHERRQ	Amount of sherry usually drunk (glasses)	SC YP
SCWINE	Freq of drinking wine over last 12 months	SC YP
SCWINEQ1	Amount of wine usually drunk (large glasses)	SC YP
SCWINEQ2	Amount of wine usually drunk (standard glasses)	SC YP
SCWINEQ3	Amount of wine usually drunk (small glasses)	SC YP
SCWINEQ4	Amount of wine usually drunk (bottles)	SC YP
SCPOPS	Freq of drinking alcopops over last 12 months	SC YP
SCPOPSQ1	Amount of alcopops usually drunk (large bottles)	SC YP
SCPOPSQ2	Amount of alcopops usually drunk (standard bottles)	SC YP

SCPOPSQ3	Amount of alcopops usually drunk (small cans)	SC YP
NBEERWU	(D) Units of normal beer/week	Derived
SBEERWU	(D) Units of strong beer/week	Derived
SPIRWU	(D) Units of spirits/week	Derived
SHERWU	(D) Units of sherry/week	Derived
WINEWU	(D) Units of wine/week	Derived
POPSWU	(D) Units of alcopops/week	Derived
TOTALWU	(D) Total units of alcohol/week	Derived
TOTALWUG	(D) Alcohol units per week grouped	Derived
TOTALWUG215	(D) Alcohol units per week – risk groups (new guidelines for men)	Derived
TOTALWUG2	(D) Alcohol units per week grouped	Derived
ALCBASE	(D) Alcohol consumption rating units/week	Derived
ALCBSMT	(D) Alcohol consumption: men	Derived
ALCBSMT15	(D) Alcohol consumption: men – new guidelines	Derived
ALCBSWT	(D) Alcohol consumption: women	Derived
MENWUG	(D) Weekly alcohol consumption: men	Derived
MENWUG15	(D) Weekly alcohol consumption: men – new guidelines	Derived
MENWUGg2	(D) Weekly alcohol consumption for men, 3 groups	Derived
MENWUGg215	(D) Weekly alcohol consumption for men, 3 groups – new guidelines	Derived
WOMENWUG	(D) Weekly alcohol consumption: women	Derived
WOMENWUGg2	(D) Weekly alcohol consumption for women, 3 groups	Derived

Children 8-15

Variable	Description	Source
ADRPROP	Ever had proper alcoholic drink (age 8-12, 13-15)	SC 8-15
ADRPOPS	Ever had alcopops (age 8-12, 13-15)	SC 8-15
ADRINKAG	Age first alcoholic drink (age 8-12, 13-15)	SC 8-15
ADRINKOF	How often alcoholic drink (age 8-12, 13-15)	SC 8-15
ADRLAST	When last had alcoholic drink (age 8-12, 13-15)	SC 8-15
AEVDRINK	(D) Ever had proper alcoholic drink, including alcopops (age 8-12, 13-15)	Derived

Children 13-15

Variable	Description	Source
ABER2W	Have you drunk beer (age 13-15)	SC 13-15
ABER2QPT	Pints beer drunk in last 7 days (age 13-15)	SC 13-15
ABER2QLG	Large cans, bottles of beer drunk in last 7 days (age 13-15)	SC 13-15
ABER2QSM	Small cans, bottle of beer drunk in last 7 days (age 13-15)	SC 13-15
ASPIRW	Spirits or liqueurs drunk in last 7 days (age 13-15)	SC 13-15
ASPIRQGS	Glasses of spirits and liqueurs drunk in last 7 days (age 13-15)	SC 13-15
ASHERW	Sherry drunk in last 7 days (age 13-15)	SC 13-15
ASHERQGS	Glasses of sherry or martini drunk in last 7 days (age 13-15)	SC 13-15
AWINEW	Have you drunk wine (age 13-15)	SC 13-15
AWINEQGS	How many glasses of wine in last 7 days (age 13-15)	SC 13-15
APOPSW	Alcoholic 'pops' drinks in last 7 days (age 13-15)	SC 13-15
APOPSQLG	Large cans or bottles of alcoholic pops drinks in last 7 days (age 13-15)	SC 13-15
APOPSQSM	Small cans or bottles of alcoholic pops drinks in last 7 days (age 13-15)	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	Size of fruit: 1st mentioned	Indiv
FRTC02	Size of fruit: 2nd mentioned	Indiv
FRTC03	Size of fruit: 3rd mentioned	Indiv
FRTC04	Size of fruit: 4th mentioned	Indiv
FRTC05	Size of fruit: 5th mentioned	Indiv
FRTC06	Size of fruit: 6th mentioned	Indiv
FRTC07	Size of fruit: 7th mentioned	Indiv
FRTC08	Size of fruit: 8th mentioned	Indiv
FRTC09	Size of fruit: 9th mentioned	Indiv
FRTQ01	Amount of fruit eaten: 1st mentioned	Indiv
FRTQ02	Amount of fruit eaten: 2nd mentioned	Indiv
FRTQ03	Amount of fruit eaten: 3rd mentioned	Indiv
FRTQ04	Amount of fruit eaten: 4th mentioned	Indiv
FRTQ05	Amount of fruit eaten: 5th mentioned	Indiv
FRTQ06	Amount of fruit eaten: 6th mentioned	Indiv
FRTQ07	Amount of fruit eaten: 7th mentioned	Indiv
FRTQ08	Amount of fruit eaten: 8th mentioned	Indiv
FRTQ09	Amount of fruit eaten: 9th mentioned	Indiv
FRTMOR01	Any other fresh fruit eaten yesterday:1st mentioned	Indiv
FRTMOR02	Any other fresh fruit eaten yesterday:2nd mentioned	Indiv
FRTMOR03	Any other fresh fruit eaten yesterday:3rd mentioned	Indiv
FRTMOR04	Any other fresh fruit eaten yesterday:4th mentioned	Indiv
FRTMOR05	Any other fresh fruit eaten yesterday:5th mentioned	Indiv
FRTMOR06	Any other fresh fruit eaten yesterday:6th mentioned	Indiv
FRTMOR07	Any other fresh fruit eaten yesterday:7th mentioned	Indiv
FRTMOR08	Any other fresh fruit eaten yesterday:8th mentioned	Indiv
FRTMOR09	Any other fresh fruit eaten yesterday:9th mentioned	Indiv
FRTDRY	Was any dried fruit eaten yesterday?	Indiv
FRTDRYQ	Number of tablespoons of dried fruit eaten yesterday	Indiv
FRTFRZ15	Was any frozen fruit eaten yesterday?	Indiv
FRTFRZQ15	Number of tablespoons of frozen fruit eaten yesterday	Indiv
FRTTIN	Was any tinned fruit eaten yesterday?	Indiv
FRTTINQ	Number of tablespoons of 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
PORLGE	(D) Large portion	Derived
PORSML	(D) Small portion	Derived
POROTH	(D) Other portion	Derived
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
PORFRZ15	(D) Portion of frozen fruit	Derived
PORTIND	(D) Portion of canned fruit	Derived
PORFDISH	(D) Portion of fruit in composites	Derived

VEGPOR	(D) Total portion of vegetables (inc.salad)	Derived
FRTPOR15	(D) Total portion of fruit	Derived
PORFV15	(D) Total portion of fruit and veg	Derived
PORFTVG15	(D) Grouped portions of fruit (inc.orange juice) & veg yesterday	Derived
VEGYN	(D) Any vegetables? (binary)	Derived
VDISHYN	(D) Any vegetables in composites? (binary)	Derived
FRTYN	(D) Any fresh fruit? (binary)	Derived
FDISHYN	(D) Any fruit in composites? (binary)	Derived
DRYYN	(D) Any dried fruit? (binary)	Derived
FRZYN15	(D) Any frozen fruit? (binary)	Derived
TINYN	(D) Any canned fruit? (binary)	Derived
PULYN	(D) Any pulses? (binary)	Derived
JUICEYN	(D) Any fruit juice? (binary)	Derived
SALYN	(D) Any salad? (binary)	Derived
FVYN15	(D) Any fruit and vegetables? (binary)	Derived
PORFV05B	(D) Portions of fruit and vegetables consumed, 6 groups – capped at 5+	Derived
VEGTYN	(D) Any vegetables eaten, incl salad, excl pulses? (binary)	Derived
VEGTYN2	(D) Any vegetables eaten, excl salad & pulses? (binary)	Derived
FRTTYN15	(D) Any fruit eaten? (Fruit, dry, canned, frozen composites, incl juice, (binary))	Derived
FRTTYN2B	(D) Any fruit eaten? (Fruit, dry, canned, frozen composites, excl juice (binary))	Derived

End of Life Care

End of Life Care		
Variable	**Description**	**Source**
TermIll	In the past five years, has anyone close to you died of a terminal illness like cancer, motor neurone disease, or emphysema?	Indiv
Skip	Module skipped if the respondent is distressed	Indiv
SamePers	Same person talked about earlier (concurrent interviews)	Indiv
WhatIll_1	Cause of death: Emphysema/other lung disease	Indiv
WhatIll_2	Cause of death: End stage heart failure	Indiv
WhatIll_3	Cause of death: End stage liver failure	Indiv
WhatIll_4	Cause of death: Cancer	Indiv
WhatIll_5	Cause of death: Motor neurone disease/multiple sclerosis	Indiv
WhatIll_6	Cause of death: End stage kidney failure	Indiv
WhatIll_8R	Cause of death: Other (including HIV/AIDS)	Derived
WhatIll_9	Cause of death: Don't know illness	Indiv
WherDie	Where person died	Indiv
RelLL	Relationship to person	Indiv
CareInvB	Provided personal care to this person	Indiv
LngCareB	Length of time provided personal care	Indiv
CareFreq	Frequency provided personal care	Indiv
CareFreqB	Days per week/month/total provided personal care	Indiv
CareTime1	Time of day provided personal care: Morning	Indiv
CareTime2	Time of day provided personal care: Afternoon	Indiv
CareTime3	Time of day provided personal care: Evening	Indiv
CareTime4	Time of day provided personal care: Night	Indiv
CareTime5	Time of day provided personal care: It varied too much to say	Indiv
CrHrsTot	DV: Total hours of personal care	Indiv
CrHrsMorn	Time spent giving personal care during the morning (hours)	Indiv
CrHrsAft	Time spent giving personal care during the afternoon (hours)	Indiv
CrHrsEve	Time spent giving personal care during the evening (hours)	Indiv
CrHrsNt	Time spent giving personal care during the night (hours)	Indiv
CrHrsVar	Time spent giving personal care on those occasions (hours)	Indiv
SpeHelpB	Looked after or gave other general help to person (e.g. things listed on showcard)	Indiv
LngHelpB	How long provided general help for	Indiv
HelpFreq	Frequency provided help like this	Indiv
HelpFreqB	Number of days per week/month/total provided general help	Indiv
HelpTime1	Provided general help: Morning	Indiv
HelpTime2	Provided general help: Afternoon	Indiv
HelpTime3	Provided general help: Evening	Indiv
HelpTime4	Provided general help: Night	Indiv

HelpTime5	Provided general help: Varied too much to say	Indiv
HlpHrsTot	DV: Total hours of help provided	Indiv
HlpHrsMor	Time spent providing help like this during the morning	Indiv
HlpHrsAft	Time spent providing help like this during the afternoon	Indiv
HlpHrsEve	Time spent providing help like this during the evening	Indiv
HlpHrsNt	Time spent providing help like this during the night	Indiv
HlpHrsVar	Time spent providing help like this on those occasions	Indiv
PalCare	Whether palliative care service was used	Indiv
CarServ	Whether any other care services were used	Indiv
ContLife	Whether respondent has been able to carry on with life following this person's death	Indiv
CareAgn	Whether respondent would take on caring role caring again in similar circumstances	Indiv

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
NCPREGJ	Whether pregnant	Nurse

EQ-5D and Life Satisfaction

Variable	Description	Source
Mobil17	General health today - Mobility	SC 16+
SelfCa17	General health today - Self-care	SC 16+
UsualA17	General health today - Usual activities	SC 16+
Pain17	General health today - Pain/discomfort	SC 16+
Anxiet17	General health today - Anxiety/depression	SC 16+
EQ_VAS17	Health today compared to best/worst imaginable	SC 16+
SCSatis	Overall satisfaction with life nowadays	SC 16+
BestHealth3	(D) 11111 health status in 3 groups	Derived

General Wellbeing

Variable	Description	Source
SCSatis	Overall satisfaction with life nowadays	SC 16+
LifesatG	(D) Overall, how satisfied with life nowadays - grouped	Derived

Long Lasting Illness

Variable	Description	Source
ILL12M	Whether have any physical or mental health conditions or illnesses lasting or expected to last 12 months or more	Indiv
LIMLAST	(D) Limiting longlasting illness	Derived
COMPLST1	(D) II Neoplasms & benign growths	Derived
COMPLST2	(D) III Endocrine & metabolic	Derived
COMPLST3	(D) V Mental disorders	Derived
COMPLST4	(D) VI Nervous system	Derived
COMPLST5	(D) VI Eye complaints	Derived
COMPLST6	(D) VI Ear complaints	Derived
COMPLST7	(D) VII Heart & circulatory system	Derived
COMPLST8	(D) VIII Respiratory system	Derived
COMPLST9	(D) IX Digestive system	Derived
COMPLST10	(D) X Genito-urinary system	Derived
COMPLST11	(D) XII Skin complaints	Derived

COMPLST12	(D) XIII Musculoskeletal system	Derived
COMPLST13	(D) I Infectious disease	Derived
COMPLST14	(D) IV Blood & related organs	Derived
COMPLST15	(D) Other complaints	Derived
COMPLST17	(D) No long lasting illness	Derived
COMPLST18	(D) No longer present	Derived
COMPLST99	(D) Unclass/NLP/inadeq.describe	Derived
CONDLCNT	(D) Number of grouped condition categories	Derived
CONDLCNT2	(D) Number of grouped conditions - 4 plus	Derived
ILLMORE1	(D) Number of longstanding illnesses – grouped	Derived
MENTALD	(D) Mental disorder as longlasting illness - 16+	Derived
ILLAFF1	Whether conditions or illnesses affect: Vision (for example blindness or partial sight)	Indiv
ILLAFF2	Whether conditions or illnesses affect: Hearing (for example deafness or partial hearing)	Indiv
ILLAFF3	Whether conditions or illnesses affect: Mobility (for example walking short distances or climbing stairs)	Indiv
ILLAFF4	Whether conditions or illnesses affect: Dexterity (for example lifting and carrying objects, using a keyboard)	Indiv
ILLAFF5	Whether conditions or illnesses affect: Learning or understanding or concentrating	Indiv
ILLAFF6	Whether conditions or illnesses affect: Memory	Indiv
ILLAFF7	Whether conditions or illnesses affect: Mental health	Indiv
ILLAFF8	Whether conditions or illnesses affect: Stamina, breathing or fatigue	Indiv
ILLAFF9	Whether conditions or illnesses affect: Socially or behaviourally (for example associated with autism, attention deficit disorder or Asperger's syndrome)	Indiv
ILLAFF95	Whether conditions or illnesses affect: Other	Indiv
ILLAFF96	Whether conditions or illnesses affect: None of these	Indiv
ILLAFF97	Whether conditions or illnesses affect: Refusal	Indiv
REDUCACT	Day-to-day activities reduced due to illness	Indiv
AFFLNG	How long day-to-day activities have been reduced	Indiv
REDACT1	Whether 1st condition or illness reduces ability to carry out day-to-day activities	Indiv
REDACT2	Whether 2nd condition or illness reduces ability to carry out day-to-day activities	Indiv
REDACT3	Whether 3rd condition or illness reduces ability to carry out day-to-day activities	Indiv
REDACT4	Whether 4th condition or illness reduces ability to carry out da^{y-}to-day activities	Indiv
REDACT5	Whether 5th condition or illness reduces ability to carry out da^{y-}to-day activities	Indiv
REDACT6	Whether 6th condition or illness reduces ability to carry out day-to-day activities	Indiv

Prescribed Medicines: Drugs affecting blood analytes/Other drugs

Variable	Description	Source
DIUR2	(D) Diuretics (Blood pressure) {revised}	Derived
BETA2	(D) Beta blockers (Blood pressure/Fibrinogen) {revised}	Derived
ACEINH2	(D) Ace inhibitors (Blood pressure) {revised}	Derived
CALCIUMB2	(D) Calcium blockers (Blood pressure) {revised}	Derived
OBPDRUG2	(D) Other drugs affecting BP {revised}	Derived
LIPID2	(D) Lipid lowering (Cholesterol/Fibrinogen) – prescribed {revised}	Derived
IRON2	(D) Iron deficiency (Haemoglobin/Ferritin) {revised}	Derived
BPMEDC2	(D) Whether taking drugs affecting blood pressure {revised}	Derived
BPMEDD2	(D) Whether taking drugs prescribed for blood pressure {revised}	Derived
ANTIPLAM2	(D) Antiplatlets prescribed (binary)	Derived
ANALGM2	(D) Analgesics prescribed (binary)	Derived
PROTONM2	(D) Proton pump inhibitors prescribed (binary)	Derived
ANTIDEPM2	(D) Antidepressants prescribed (binary)	Derived
COPDM2	(D) Asthma or COPD prescribed (binary)	Derived
ANTIDIABM2	(D) Antidiabetic prescribed (binary)	Derived
ANTIBACM2	(D) Antibacterial medications prescribed (binary)	Derived

Prescribed Medicines: General

Variable	Description	Source
MEDCNJD	Whether taking medication	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 or immunosuppressive 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
MEDTYP14	(D) Contraception taken?	Derived
NUMED	(D) Number of prescribed medicines taken (grouped 4+)	Derived
MEDSNUMG8	(D) Grouped number of prescribed medications reported- incl contraceptives & nicotine dependency drugs	Derived
MEDSNUM2G8	(D) Grouped number of–prescribed medications reported (8 groups) - excl contraceptives & nicotine dependency drugs	Derived
MEDSTAKG8	(D) Grouped number of prescribed medications taken (8 groups)- incl contraceptives & nicotine dependency drugs	Derived
MEDSTAK2G8	(D) Number of prescribed medications taken in last 7 days (8 groups), excl contraceptives & nicotine dependency	Derived
CARDIOTAKG2	(D) Any prescribed cardiovascular medications taken in last 7 days (binary)	Derived
HYPERTAKG2	(D) Any prescribed antihypertensives taken in last 7 days, if has hypertension (binary)	Derived
LIPIDTAKG2	(D) Any prescribed lipid-lowering medications taken in last 7 days, (binary)	Derived
ANTIPLATAKG2	(D) Any prescribed antiplatlets taken in last 7 days, (binary)	Derived
ANALGTAKG2	(D) Any prescribed analgesics taken in last 7 days (binary)	Derived
PROTONTAKG2	(D) Any prescribed proton pump inhibitors taken in last 7 days (binary)	Derived
ANTIDEPTAKG2	(D) Any antidepressants taken in last 7 days (binary)	Derived
COPDTAKG2	(D) Any prescribed asthma or COPD medications taken in last 7 days (binary)	Derived
ANTIDIABTAKG2	(D) Any prescribed antidiabetic medications taken in last 7 days (binary)	Derived
ANTIBACTAKG2	(D) Any prescribed antibacterial medications taken in last 7 days (binary)	Derived
DIURTAKg2	(D) Any prescribed diuretic medications taken in last 7 days (binary)	Derived
NSAIDTAKg2	(D) Any prescribed NSAIDs medications taken in last 7 days (binary)	Derived
ACETAKg2	(D) Any prescribed ACE medications taken in last 7 days (binary)	Derived
METFORTAKg2	(D) Any prescribed Metformin medications taken in last 7 days (binary)	Derived
ANTIPSYTAKg2	(D) Any prescribed Antipsychotic medications taken in last 7 days (binary)	Derived
HYPNOTAKg2	(D) Any prescribed Hypnotics medications taken in last 7 days (binary)	Derived
MENHTAKg2	(D) Any prescribed mental health medications taken in last 7 days (binary)	Derived
HyperATakg2	(D) Any prescribed antiHyperAtensives taken in last 7 days regardless of Hypertension (binary)	Derived
antiplatelet2	(D) Number of antiplatelet meds in last 7 days (grouped)	Derived

Self-Assessed Health

Variable	Description	Source
GENHELF	Self-assessed general health	Indiv
GENHELF2	(D) Self-assessed general health – grouped	Derived
GENHELF4	(D) Self reported health - four categories	Derived
NHSSAT	All in all, how satisfied or dissatisfied would you say you are with the way in which the NHS runs nowadays?	Indiv

Chronic Pain

Chronic Pain		
Variable	**Description**	**Source**
AnyPain	Currently troubled by pain or discomfort	Indiv
More3m	Had pain or discomfort for more than 3 months	Indiv
SitePain1	Location of pain: Back pain	Indiv
SitePain2	Location of pain: Neck or shoulder pain	Indiv
SitePain3	Location of pain: Headache, facial or dental pain	Indiv
SitePain4	Location of pain: Stomach ache or abdominal pain	Indiv
SitePain5	Location of pain: Pain in your arms, hands, hips, legs or feet	Indiv
SitePain6	Location of pain: Chest pain	Indiv
SitePain7	Location of pain: Other pain	Indiv
Painint	Rating intensity of pain	Indiv
PainNow	Current pain rating	Indiv
WorstP	Worst pain rating (last 3 months)	Indiv
UsualP	Average pain rating over the last 3 months	Indiv
ImpactP	Number of days pain kept respondent from doing usual activities like work, school or housework (last 3 months)	Indiv
DailyP	Pain interfered with daily activities (last 3 months)	Indiv
SocialP	Pain changed ability to take part in recreational, social and family activities (last 3 months)	Indiv
WorkP	Pain changed ability to work, including housework (last 3 months)	Indiv
SeenP1	Seen anyone for support or help to manage pain:GP	Indiv
SeenP2	Seen anyone for support or help to manage pain: Nurse at GP practice	Indiv
SeenP3	Seen anyone for support or help to manage pain: Specialist pain services such as a doctor, nurse or physiotherapist at a hospital or clinic	Indiv
SeenP4	Seen anyone for support or help to manage pain: Clinical psychologist	Indiv
SeenP5	Seen anyone for support or help to manage pain: Osteopath or chiropractor	Indiv
SeenP6	Seen anyone for support or help to manage pain: Acupuncturist	Indiv
SeenP7	Seen anyone for support or help to manage pain: Pharmacist	Indiv
SeenP8	Seen anyone for support or help to manage pain: Someone else	Indiv
SeenP9	Seen anyone for support or help to manage pain: None of these	Indiv
SupGrp1	Attended to help with pain: Patient support group	Indiv
SupGrp2	Attended to help with pain: Pain management programme	Indiv
SupGrp3	Attended to help with pain: Psychological programme such as Cognitive Behavioural Therapy	Indiv
SupGrp4	Attended to help with pain: None of these	Indiv
IMPACTP2	(D) IMPACTP re-coded to Graded Chronic Pain Scale categories	Derived
CPI	(D) Characteristic Pain Intensity	Derived
FIDS	(D) Four-Item Disability Score	Derived
TIDS	(D) Two-Item Disability Score	Derived
PainGrade1	(D) Chronic Pain Grade based on GCPS Version 2.0	Derived
PainGrade2	(D) Chronic Pain Grade based on 3-item GCP-PCS	Derived
More3mtot	(D) Currently have pain or discomfort for more than 3 months total population	Derived
pain3m	(D) Any pain for 3+ months	Derived

Cardiovascular disease

CVD General

Variable	Description	Source
CVDEd9	CVDOth: Too vague to code	Indiv
IntroCVD	CVD introduction	Indiv
docoht	Told by a doctor had PCVDOth	Indiv
ageohtg	(D) Age first told by a doctor had PCVDOth (grouped)	Derived
recoht	Had PCVDOth during the past 12 months	Indiv
cvddef	(D) Had cardiovascular condition	Derived
cvddef2	(D) Had cardiovascular condition {revised}	Derived
cvddef1	(D) Had cardiovascular condition (excluding diabetes/high BP)	Derived
cvddef3	(D) Had cardiovascular condition (excluding diabetes/high BP) {revised}	Derived
nobpcvd	(D) Had CVD: excludes those with high BP	Derived
nobpcvd2	(D) Had CVD: excludes those with high BP {revised}	Derived
cvdiahydd	(D) IHD/stroke or HT/DM or none (doctor-diagnosed)	Derived
cvdis	(D) Had CVD (Angina, Heart Attack or Stroke)	Derived
cvdis2	(D) Had CVD (Angina, Heart Attack or Stroke) {revised}	Derived
cvd3a	(D) CVD measure of severity (hierarchy)	Derived
cvdiahydd2	(D) CVD or HT/DM or none (doctor-diagnosed)	Derived
padsympt	(D) Symptoms suggestive of Peripheral Arterial Disease (PAD)	Derived
padsymptg2	(D) Symptoms suggestive of PAD, grouped	Derived

Angina

Variable	Description	Source
CVD2	Ever had angina	Indiv
CVDEd2	CVDOth: Angina	Indiv
docangi	Told by a doctor had angina	Indiv
ageangi17g	(D) Age first told by a doctor had angina (grouped)	Derived
recangi	Angina during the past 12 months	Indiv
LegPain	Pain or discomfort in either of legs which comes on when walk	Indiv
StanSit	Leg pain ever begin when standing still or sitting	Indiv
WalkLeg	Leg pain when walk uphill or hurry	Indiv
LevelPac	Leg pain when walk at an ordinary pace on the level	Indiv
Still	Leg pain (usually) when standing still	Indiv
WhereP1	Where is pain or discomfort: Calf muscle	Indiv
WhereP2	Where is pain or discomfort: Thigh or buttocks	Indiv
WhereP3	Where is pain or discomfort: Other area	Indiv
angidef	(D) Doctor diagnosed angina	Derived

Blood Pressure

Variable	Description	Source
CVD1	Ever had high blood pressure (sometimes called hypertension)	Indiv
CVDEd1	CVDOth: High blood pressure/ Hypertension	Indiv
BPMeas	Ever had blood pressure measured by a doctor or nurse	Indiv
measlast	Last time blood pressure was measured by a doctor or nurse	Indiv
levelbp	Blood pressure last time it was measured	Indiv
onlybp	Only time blood pressure has been higher than normal or has it been higher than normal a number of times	Indiv
DocBP	Told by a doctor/nurse had high BP	Indiv
PregBP	Pregnant when told had high BP	Indiv
OthBP	High BP apart from when pregnant	Indiv
AgeBPg	(D) Age told had high BP (grouped)	Derived
MedBP	Currently taking any medicines, tablets or pills for high blood pressure	Indiv
BPStill	Still have high blood pressure	Indiv

EverMed	Ever taken medicines, tablets, or pills for high blood pressure in the past	Indiv
StpMed01	Reason stopped taking (medicines/tablets/pills) for high blood pressure: Doctor advised to stop due to improvement	Indiv
StpMed02	Reason stopped taking (medicines/tablets/pills) for high blood pressure: Doctor advised to stop due to lack of improvement	Indiv
StpMed03	Reason stopped taking (medicines/tablets/pills) for high blood pressure: Doctor advised to stop due to other problem	Indiv
StpMed04	Reason stopped taking (medicines/tablets/pills) for high blood pressure: Respondent decided to stop because felt better	Indiv
StpMed05	Reason stopped taking (medicines/tablets/pills) for high blood pressure: Respondent decided to stop for other reason	Indiv
StpMed06	Reason stopped taking (medicines/tablets/pills) for high blood pressure: Other reason	Indiv
OthAdv	Receiving any other treatment or advice because of high blood pressure	Indiv
WhtTrt1	Other treatment or advice currently receiving because of high blood pressure: Blood pressure monitored by GP/other doctor/nurse	Indiv
WhtTrt2	Other treatment or advice currently receiving because of high blood pressure: Advice or treatment to lose weight	Indiv
WhtTrt3	Other treatment or advice currently receiving because of high blood pressure: Blood tests	Indiv
WhtTrt4	Other treatment or advice currently receiving because of high blood pressure: Change diet	Indiv
WhtTrt5	Other treatment or advice currently receiving because of high blood pressure: Stop smoking	Indiv
WhtTrt6	Other treatment or advice currently receiving because of high blood pressure: Reduce stress	Indiv
WhtTrt7	Other treatment or advice currently receiving because of high blood pressure: Lifestyle in general (not elsewhere specified)	Indiv
WhtTrt95	Other treatment or advice currently receiving because of high blood pressure: Other (record at next question)	Indiv
bp1	(D) Doctor diagnosed high blood pressure (excluding pregnant)	Derived

IHD/Stroke

Variable	Description	Source
CVD3	Ever had heart attack (including myocardial infarction or coronary thrombosis)	Indiv
CVDEd3	CVDOth: Heart attack (including myocardial infarction/coronary thrombosis)	Indiv
docheart	Told by a doctor had a Heart Attack (including myocardial infarction or coronary thrombosis)	Indiv
ageheartg	(D) Age first told by a doctor had a heart attack (including myocardial infarction and coronary thrombosis) (grouped)	Derived
recheart	Heart attack (including myocardial infarction and coronary thrombosis) during the past 12 months	Indiv
CVD7	Ever had a stroke	Indiv
CVDEd7	CVDOth: Stroke	Indiv
docstro	Told by a doctor had a stroke	Indiv
agestrog	(D) Age first told by a doctor had a stroke (grouped)	Derived
recstro	Stroke during the past 12 months	Indiv
WeakNum	In the last twelve months, had a sudden attack of weakness or numbness on one side of the body	Indiv
SlurSp	Sudden attack of slurred speech or difficulty in finding words in the last twelve months	Indiv
VisLos	Sudden attack of vision loss or blurred vision in one or both eyes in the last twelve months	Indiv
DocSee2	Seen a doctor about these attacks in the last twelve months	Indiv
dcwhat2	What Doctor said attacks were	Indiv
medheart	Currently taking any medicines, tablets or pills because of condition	Indiv
OthTrt1	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Special diet	Indiv
OthTrt2	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Regular check-up or monitoring	Indiv
OthTrt3	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Taking medication	Indiv
OthTrt4	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Advice to reduce/quit smoking	Indiv
OthTrt5	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Advice to reduce/quit alcohol consumption	Indiv
OthTrt6	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Advice about exercise	Indiv
OthTrt95	Currently receiving any other treatment, advice or tests because of heart condition or stroke: Other	Indiv

OthTrt96	Currently receiving any other treatment, advice or tests because of heart condition or stroke: No other treatment	Indiv
WhoTrt1	Who is responsible for this other advice or treatment: Specialist	Indiv
WhoTrt2	Who is responsible for this other advice or treatment: GP	Indiv
WhoTrt3	Who is responsible for this other advice or treatment: Practice nurse	Indiv
WhoTrt4	Who is responsible for this other advice or treatment: Doctor/nurse in hospital outpatient	Indiv
WhoTrt5	Who is responsible for this other advice or treatment: Doctor/nurse in clinic (e.g. smoking clinic)	Indiv
WhoTrt6	Who is responsible for this other advice or treatment: Other	Indiv
WhenTrt	Frequency of check-ups	Indiv
heartdef	(D) Doctor diagnosed heart attack	Derived
strodef	(D) Doctor diagnosed stroke	Derived
Stroihd	(D) Doctor Diagnosed IHD or stroke	Derived
ihdis	(D) Had IHD (Angina or Heart Attack)	Derived
ihdis2	(D) Had IHD (Angina or Heart Attack) {revised}	Derived

Diabetes

Variable	Description	Source
CVD8	Ever had diabetes	Indiv
CVDEd8	CVDOth: Diabetes	Indiv
cdiabete	Told by a doctor had diabetes	Indiv
TypeD	Told by a doctor/nurse had Type I or Type II diabetes	Indiv
DiPreg	Pregnant when told had diabetes	Indiv
DiOth	Ever had diabetes apart from when pregnant	Indiv
cdiageg	(D) Age when first told by a doctor had diabetes (grouped)	Indiv
cinsulin	Currently inject insulin for diabetes	Indiv
DiMed	Currently taking any medicines, tablets or pills for diabetes	Indiv
OthDi	Currently receiving any other treatment or advice for diabetes	Indiv
OtherDi1	Other treatment or advice currently receiving for diabetes: Special diet	Indiv
OtherDi2	Other treatment or advice currently receiving for diabetes: Eye screening / regular eye tests	Indiv
OtherDi3	Other treatment or advice currently receiving for diabetes: Regular check-up with GP/hospital/clinic	Indiv
OtherDi4	Other treatment or advice currently receiving for diabetes: Other	Indiv
WhyNoET	Any reason not having eyes tested regularly for diabetes	Indiv
diabete2	(D) Doctor diagnosed diabetes (excluding pregnant)	Derived
diabete2r	(D) Doctor diagnosed diabetes (excluding pregnant) {revised}	Derived
diabtype	(D) Type of diabetes	Derived
diabtyper	(D) Type of diabetes {revised}	Derived
glyhbok	(D) Response to Glycated HB sample (%)	Derived
diabete3	(D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes)	Derived
diabete3r	(D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes) {revised}	Derived
diabete3ra	(D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes) {revised} [adjusted to be comparable to pre-september 2013]	Derived
diabtot	(D) Total diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes)	Derived
diabtotr	(D) Total diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes) {revised}	Derived
diab3mmol	(D) Diabetes from blood sample (48+mmol/mol) or doctor diagnosis (excluding pregnancy-only diabetes)	Derived
diab3mmolg	(D) Total diabetes from blood sample or doctor diagnosis	Derived

Heart murmur

Variable	Description	Source
CVD4	Ever had heart murmur	Indiv
CVDEd4	CVDOth: Heart murmur	Indiv
murdoc	Told by a doctor had a heart murmur	Indiv
PregMur	Pregnant when told had a heart murmur	Indiv
pregmur1	Ever had a heart murmur apart from when pregnant	Indiv
AorSten	Ever been told have a narrowing of the aortic valve (or aortic stenosis)	Indiv
AorStenFol	Currently receiving any medical follow up for the narrowing of aortic valve (or aortic stenosis)	Indiv
murmur1	(D) Doctor diagnosed heart murmur (excluding pregnant)	Derived

Cholesterol

Variable	Description	Source
ToldChol	Told by a health professional had high cholesterol	Indiv
AgeHC2g	(D) Age first told by a health professional had high cholesterol (grouped)	Derived
CVDChol	Ever had high cholesterol (sometimes called hypercholesterolaemia)	Indiv
chlest	Ever had blood cholesterol level measured by a doctor or nurse	Indiv
CHMeas2	Ever had blood cholesterol level measured at a pharmacy or by another health professional	Indiv
lastchol17	Last time blood cholesterol level was measured by a health professional	Indiv
cholevel	Cholesterol level last time it was measured	Indiv

Other CVD

Variable	Description	Source
CVD5	Ever had abnormal heart rhythm	Indiv
CVD6	Ever had any other heart trouble	Indiv
CVDEd5	CVDOth: Abnormal heart rhythm	Indiv
CVDEd6	CVDOth: Other heart condition	Indiv
docireg	Told by a doctor had abnormal heart rhythm	Indiv
Irreg	Was this an irregular rhythm	Indiv
AtrFib	Told by a doctor have a heart rhythm disturbance called atrial fibrillation (or AF)	Indiv
AFFreq	Heart rhythm in atrial fibrillation (AF) occurrence	Indiv
AFCard	Atrial fibrillation required cardioversion (electric shock treatment) in the past	Indiv
iregdef	(D) Doctor diagnosed irregular heart rhythym	Derived
ohtdef	(D) Doctor diagnosed other heart condition	Derived

Use of services

Variable	Description	Source
Surgery	Ever undergone any surgery or operation because of heart condition	Indiv
whensurg	Number of years ago had surgery or operation	Indiv
WhatSurg17	What type of surgery	Indiv
Waiting	Currently on a waiting list for any such surgery or operation	Indiv
DocTlk	Talked to a doctor in last 2 weeks	Indiv
DocOccs	Number of times talked to a doctor in last 2 weeks	Indiv
ConM	Doctor consultation about condition	Indiv
ConDM171	Doctor consultation about: High blood pressure	Indiv
ConDM172	Doctor consultation about: Angina	Indiv
ConDM173	Doctor consultation about: Heart attack	Indiv
ConDM174	Doctor consultation about: Heart murmur	Indiv
ConDM175	Doctor consultation about: Abnormal heart rhythm	Indiv
ConDM176	Doctor consultation about: Other heart trouble	Indiv
ConDM177	Doctor consultation about: Stroke	Indiv
ConDM178	Doctor consultation about: Diabetes	Indiv
ConDM179	Doctor consultation about: Cholesterol	Indiv
ConDM1710	Doctor consultation about: Atrial fibrillation (AF)	Indiv
LastDoc	Last time talked to a doctor about condition	Indiv
ConCos171	Consultation about: High blood pressure	Indiv
ConCos172	Consultation about: Angina	Indiv
ConCos173	Consultation about: Heart attack	Indiv

ConCos174	Consultation about: Heart murmur	Indiv
ConCos175	Consultation about: Abnormal heart rhythm	Indiv
ConCos176	Consultation about: Other heart trouble	Indiv
ConCos177	Consultation about: Stroke	Indiv
ConCos178	Consultation about: Diabetes	Indiv
ConCos179	Consultation about: Cholesterol	Indiv
ConCos1710	Consultation about: Atrial fibrillation (AF)	Indiv
PNur	Seen a practice nurse at the GP surgery in the last 2 weeks	Indiv
NPNur	Number of times saw practice nurse or GP in the last 2 weeks	Indiv
PNurConM	Nurse consultation about condition	Indiv
PNurCons171	Nurse consultation about: High blood pressure	Indiv
PNurCons172	Nurse consultation about: Angina	Indiv
PNurCons173	Nurse consultation about: Heart attack	Indiv
PNurCons174	Nurse consultation about: Heart murmur	Indiv
PNurCons175	Nurse consultation about: Abnormal heart rhythm	Indiv
PNurCons176	Nurse consultation about: Other heart trouble	Indiv
PNurCons177	Nurse consultation about: Stroke	Indiv
PNurCons178	Nurse consultation about: Diabetes	Indiv
PNurCons179	Nurse consultation about: Cholesterol	Indiv
PNurCons1710	Nurse consultation about: Atrial fibrillation (AF)	Indiv
OutPatB	Attended hospital as an outpatient, day patient or casualty in the last 12 months	Indiv
WhyOPatB	Attendance because of condition	Indiv
OPatCons171	Condition visited the hospital for: High blood pressure	Indiv
OPatCons172	Condition visited the hospital for: Angina	Indiv
OPatCons173	Condition visited the hospital for: Heart attack	Indiv
OPatCons174	Condition visited the hospital for: Heart murmur	Indiv
OPatCons175	Condition visited the hospital for: Abnormal heart rhythm	Indiv
OPatCons176	Condition visited the hospital for: Other heart trouble	Indiv
OPatCons177	Condition visited the hospital for: Stroke	Indiv
OPatCons178	Condition visited the hospital for: Diabetes	Indiv
OPatCons179	Condition visited the hospital for: Cholesterol	Indiv
OPatCons1710	Condition visited the hospital for: Atrial fibrillation (AF)	Indiv
InPatB	Been in hospital as an inpatient, overnight or longer in the last 12 months	Indiv
YInPatB	Inpatient because of condition	Indiv
IPatCons171	Condition stayed in hospital for: High blood pressure	Indiv
IPatCons172	Condition stayed in hospital for: Angina	Indiv
IPatCons173	Condition stayed in hospital for: Heart attack	Indiv
IPatCons174	Condition stayed in hospital for: Heart murmur	Indiv
IPatCons175	Condition stayed in hospital for: Abnormal heart rhythm	Indiv
IPatCons176	Condition stayed in hospital for: Other heart trouble	Indiv
IPatCons177	Condition stayed in hospital for: Stroke	Indiv
IPatCons178	Condition stayed in hospital for: Diabetes	Indiv
IPatCons179	Condition stayed in hospital for: Cholesterol	Indiv
IPatCons1710	Condition stayed in hospital for: Atrial fibrillation (AF)	Indiv

Smoking

Adults General

Variable	Description	Source
SMKEVR	Whether ever smoked cigarette/cigar/pipe (c+sc)	Indiv/SC YP
CIGNOW	Whether smoke cigarettes nowadays (c+sc)	Indiv/SC YP
CIGEVR	Whether ever smoked cigarettes (c+sc)	Indiv/SC YP
CIGARNOW	Currently smokes cigars	Indiv
CIGARREG	How regularly smokes cigars	Indiv
PIPENOWA	Currently smokes a pipe	Indiv
CIGPIPENOW	(D) Current user of cigars or pipes, 16+yrs (c+sc)	Derived
STARTSMK	Age when started smoking	Indiv
DCIGAGE	Age first tried a cigarette	SC YP
DRSMK12	Whether a medical person has ever advised you to give up for health reasons	Indiv
SMKDAD	Whether father smoked when participant a child (c+sc)	Indiv/SC YP
SMKMUM	Whether mother smoked when participant a child (c+sc)	Indiv/SC YP
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
SHISHEVR	Ever smoked hookah or shisha (c+sc)	Indiv/SC YP
SHISHNW	Used hookah or shisha in last month (c+sc)	Indiv/SC YP
TOBEVER	Ever used non-smoked tobacco that you put in your mouth (c+sc)	Indiv/SC YP
TOBNOW	Used non-smoked tobacco that you put in your mouth in the last month (c+sc)	Indiv/SC YP
ECIGEVR	Ever used electronic cigarette or other vaping device (c+sc)	Indiv/SC YP
ECIGNW	Use e-cigarette or vaping device nowadays (c+sc)	Indiv/SC YP
EXPSMOK	Number of hours/week exposed to others' smoke (c+sc)	Indiv/SC YP
EXPSMOK3	(D) Any adult self-reported exposure to other people's smoke, 16+, binary (c+sc)	Derived
PASSMOKE1	Often near people who smoke: At home (c+sc)	Indiv/SC YP
PASSMOKE2	Often near people who smoke: At work (c+sc)	Indiv/SC YP
PASSMOKE3	Often near people who smoke: In other people's homes (c+sc)	Indiv/SC YP
PASSMOKE4	Often near people who smoke: Travelling by car/van (c+sc)	Indiv/SC YP
PASSMOKE5	Often near people who smoke: Outdoor smoking areas of pubs/restaurants/cafes (c+sc)	Indiv/SC YP
PASSMOKE6	Often near people who smoke: In other places (c+sc)	
PASSMOKE7	Often near people who smoke: None of these (c+sc)	Indiv/SC YP
PASSMKB	Does being near people who smoke bother you at all? (c+sc)	Indiv/SC YP
ECIGPASS	Regularly exposed to other people's e-cigarette or vaping device (c+sc)	Indiv/SC YP
ECIGBOTH	Does this bother you? (c+sc)	Indiv/SC YP
ECIGUSE	(D) E-cigarette or vaping device use (current use, not a current user but has used, never used)	Derived

Adult Current Smokers

Variable	Description	Source
FIRSTCIG	How soon after waking does respondent smoke	Indiv
CIGDYAL	(D) Number of cigarettes smoke a day - inc. non-smokers	Derived
CIGWDAY	Number cigarettes smoke on weekday (c+sc)	Indiv/SC YP
CIGWEND	Number cigarettes smoke on weekend day (c+sc)	Indiv/SC YP
CIGTYP	Type of cigarette smoked (c+sc)	Indiv/SC YP
ROLLWK	Number of hand-rolled cigarettes smoked on a weekday (c+sc)	Indiv/SC YP
ROLLWE	Number of hand-rolled cigarettes smoked on a weekend day (c+sc)	Indiv/SC YP
SMOKPL1	Smoked in the last 7 days: At my home, indoors (Capi)	Indiv
SMOKPL2	Smoked in the last 7 days: At my home, outside, e.g.. in garden or on doorstep (Capi)	Indiv
SMOKPL3	Smoked in the last 7 days: Outside in the street, or out and about (Capi)	Indiv
SMOKPL4	Smoked in the last 7 days: Outside at work (Capi)	Indiv
SMOKPL5	Smoked in the last 7 days: Outside at other people's homes (Capi)	Indiv
SMOKPL6	Smoked in the last 7 days: Outside pubs, bars, restaurants or shops (Capi)	Indiv
SMOKPL7	Smoked in the last 7 days: In public parks (Capi)	Indiv
SMOKPL8	Smoked in the last 7 days: Inside other people's homes (Capi)	Indiv
SMOKPL9	Smoked in the last 7 days: While travelling by car (Capi)	Indiv
SMOKPL10	Smoked in the last 7 days: Inside other places (Capi)	Indiv

SMNODAY	Ease of going without cigarettes for a day	Indiv
GIVUPSK	Like to give up smoking (c+sc)	Indiv/SC YP
WHNSTPSK	Intention to give up smoking (c+sc)	Indiv/SC YP
SERQT	Ever made a serious attempt to stop smoking completely (c+sc)	Indiv/SC YP
QUITNUM	Number of attempts made to stop smoking in last 12 months (c+sc)	Indiv/SC YP
WHYGVUP1	Main reasons for wanting to give up smoking: Better for health (c+sc)	Indiv/SC YP
WHYGVUP2	Main reasons for wanting to give up smoking: Financial reasons/can't afford it (c+sc)	Indiv/SC YP
WHYGVUP3	Main reasons for wanting to give up smoking: Family/friends want me to stop (c+sc)	Indiv/SC YP
WHYGVUP4	Main reasons for wanting to give up smoking: Worried about the effect on other people (c+sc)	Indiv/SC YP
WHYGVUP5	Main reasons for wanting to give up smoking: Something else (c+sc)	Indiv/SC YP
DCUTDOWN	Trying to cut down but not stop (sc)	SC YP
CUTDWN	Currently trying to cut down on smoking but not trying to stop (capi)	Indiv
SMKCOMPYR	Number of cigarettes smoked compared to a year ago (c+sc)	Indiv/SC YP
ECIGSTRT	When first started to use e-cigarettes or vaping devices (c+sc)	Indiv/SC YP
ECIGFREQ	How often used e-cigarette or vaping device in last month (c+sc)	Indiv/SC YP
ECIGFIRST	How soon after waking usually have first e-cigarette or vape of the day (c+sc)	Indiv/SC YP
ECIGWE	How many times use e-cigarette or vaping device on typical weekday (c+sc)	Indiv/SC YP
ECIGTIWE	Total time spend using e-cigarette or vaping device on typical weekday (c+sc)	Indiv/SC YP
ECIGWKD	How many times use e-cigarette or vaping device on typical Saturday or Sunday (c+sc)	Indiv/SC YP
ECIGTIWKD	Total time spend using e-cigarette or vaping device on typical Saturday or Sunday (c+sc)	Indiv/SC YP
ECIGTYPE	Type of e-cigarette or vaping device mainly use (c+sc)	Indiv/SC YP
ECIGSTRG	Strength of e-cigarette cartridge typically use (c+sc)	Indiv/SC YP
ECIGSTP	Would you like to give up using e-cigarettes or vaping altogether (c+sc)	Indiv/SC YP
WHCHFRST	Regularly smoking tobacco cigarettes before or after first trying e-cigarettes/vaping devices (Capi)	Indiv
WHCHFRSTSC	Regularly smoked tobacco cigarettes before first trying e-cigarettes/vaping devices (SC)	SC YP

Adult Ex-Smokers

Variable	Description	Source
QUITREAS1	Decided to give up smoking: For health reasons (c+sc)	Indiv/SC YP
QUITREAS2	Decided to give up smoking: Pregnancy (c+sc)	Indiv/SC YP
QUITREAS3	Decided to give up smoking: Financial reasons/couldn't afford it (c+sc)	Indiv/SC YP
QUITREAS4	Decided to give up smoking: Family/friends wanted me to stop (c+sc)	Indiv/SC YP
QUITREAS5	Decided to give up smoking: Worried about effect on other people (c+sc)	Indiv/SC YP
QUITREAS6	Decided to give up smoking: Own motivation (c+sc)	Indiv/SC YP
QUITREAS7	Decided to give up smoking: Something else (c+sc)	Indiv/SC YP
QUITREAS8	Decided to give up smoking: Cannot remember (c+sc)	Indiv/SC YP
CIGREG	How frequently used to smoke (c+sc)	Indiv/SC YP
ENDSMOKG	How long ago did you stop smoking cigarettes (grouped)	Derived
SMOKYRSG	How many years did you smoke cigarettes (grouped)	Derived

Nicotine replacement

Variable	Description	Source
NRNOW01	Nicotine replacement product currently used: Nicotine chewing gum (c+sc)	Indiv/SC YP
NRNOW02	Nicotine replacement product currently used: Nicotine lozenges (c+sc)	Indiv/SC YP
NRNOW03	Nicotine replacement product currently used: Nicotine patch (c+sc)	Indiv/SC YP
NRNOW04	Nicotine replacement product currently used: Nicotine inhaler (c+sc)	Indiv/SC YP
NRNOW05	Nicotine replacement product currently used: Nicotine mouthspray (c+sc)	Indiv/SC YP
NRNOW06	Nicotine replacement product currently used: Nicotine nasal spray (c+sc)	Indiv/SC YP
NRNOW07	Nicotine replacement product currently used: Another nicotine product (c+sc)	Indiv/SC YP
NRNOW08	Nicotine replacement product currently used: Electronic cigarette (c+sc)	Indiv/SC YP
NRNOW09	Nicotine replacement product currently used: None of these (c+sc)	Indiv/SC YP
NDPNOW	(D) Current use of E-cigarettes and/or NDPs, 16+yrs (c + sc)	Derived
NREVR01	Nicotine replacement product used in the past but not now: Nicotine chewing gum (c+sc)	Indiv/SC YP
NREVR02	Nicotine replacement product used in the past but not now: Nicotine lozenges (c+sc)	Indiv/SC YP
NREVR03	Nicotine replacement product used in the past but not now: Nicotine patch (c+sc)	Indiv/SC YP
NREVR04	Nicotine replacement product used in the past but not now: Nicotine inhaler (c+sc)	Indiv/SC YP
NREVR05	Nicotine replacement product used in the past but not now: Nicotine mouthspray (c+sc)	Indiv/SC YP
NREVR06	Nicotine replacement product used in the past but not now: Nicotine nasal spray (c+sc)	Indiv/SC YP

NREVR07	Nicotine replacement product used in the past but not now: Another nicotine product (c+sc)	Indiv/SC YP
NREVR08	Nicotine replacement product used in the past but not now: Electronic cigarette (c+sc)	Indiv/SC YP
NREVR09	Nicotine replacement product used in the past but not now: None of these (c+sc)	Indiv/SC YP
NDPEVRC	(D) Ever or Current use of E-cigarettes and/or NDPs, 16+yrs (c + sc)	Derived
HLPQUIT1	Nicotine replacement product used to help stop smoking: Nicotine chewing gum (c+sc)	Indiv/SC YP
HLPQUIT2	Nicotine replacement product used to help stop smoking: Nicotine lozenges (c+sc)	Indiv/SC YP
HLPQUIT3	Nicotine replacement product used to help stop smoking: Nicotine patch(c+sc)	Indiv/SC YP
HLPQUIT4	Nicotine replacement product used to help stop smoking: Nicotine inhaler (c+sc)	Indiv/SC YP
HLPQUIT5	Nicotine replacement product used to help stop smoking: Nicotine mouthspray (c+sc)	Indiv/SC YP
HLPQUIT6	Nicotine replacement product used to help stop smoking: Nicotine nasal spray (c+sc)	Indiv/SC YP
HLPQUIT7	Nicotine replacement product used to help stop smoking: Another nicotine product (c+sc)	Indiv/SC YP
HLPQUIT8	Nicotine replacement product used to help stop smoking: Electronic cigarette (c+sc)	Indiv/SC YP
HLPQUIT9	Nicotine replacement product used to help stop smoking: None of these (c+sc)	Indiv/SC YP
NRCUT1	Nicotine replacement product used to help cut down amount smoke: Nicotine chewing gum (capi)	Indiv/SC YP
NRCUT2	Nicotine replacement product used to help cut down amount smoke: Nicotine lozenges (c+sc)	Indiv/SC YP
NRCUT3	Nicotine replacement product used to help cut down amount smoke: Nicotine patch (c+sc)	Indiv/SC YP
NRCUT4	Nicotine replacement product used to help cut down amount smoke: Nicotine inhaler (c+sc)	Indiv/SC YP
NRCUT5	Nicotine replacement product used to help cut down amount smoke: Nicotine mouthspray (c+sc)	Indiv/SC YP
NRCUT6	Nicotine replacement product used to help cut down amount smoke: Nicotine nasal spray (c+sc)	Indiv/SC YP
NRCUT7	Nicotine replacement product used to help cut down amount smoke: Another nicotine product (c+sc)	Indiv/SC YP
NRCUT8	Nicotine replacement product used to help cut down amount smoke: Electronic cigarette (c+sc)	Indiv/SC YP
NRCUT9	Nicotine replacement product used to help cut down amount smoke: None of these (c+sc)	Indiv/SC YP
NRBAN1	Nicotine replacement product used when not allowed to smoke: Nicotine chewing gum (sc)	Indiv/SC YP
NRBAN2	Nicotine replacement product used when not allowed to smoke: Nicotine lozenges (c+sc)	Indiv/SC YP
NRBAN3	Nicotine replacement product used when not allowed to smoke: Nicotine patch (c+sc)	Indiv/SC YP
NRBAN4	Nicotine replacement product used when not allowed to smoke: Nicotine inhaler (c+sc)	Indiv/SC YP
NRBAN5	Nicotine replacement product used when not allowed to smoke: Nicotine mouthspray (c+sc)	Indiv/SC YP
NRBAN6	Nicotine replacement product used when not allowed to smoke: Nicotine nasal spray (c+sc)	Indiv/SC YP
NRBAN7	Another nicotine replacement product used when not allowed to smoke (c+sc)	Indiv/SC YP
NRBAN8	Nicotine replacement product used when not allowed to smoke: Electronic cigarette (c+sc)	Indiv/SC YP
NRBAN9	None of these Nicotine replacement products used when not allowed to smoke (c+sc)	Indiv/SC YP
NRQUIT1	Nicotine replacement product used during serious quit attempt: Nicotine chewing gum (c+sc)	Indiv/SC YP
NRQUIT2	Nicotine replacement product used during serious quit attempt: Nicotine lozenges (c+sc)	Indiv/SC YP
NRQUIT3	Nicotine replacement product used during serious quit attempt: Nicotine patch (c+sc)	Indiv/SC YP
NRQUIT4	Nicotine replacement product used during serious quit attempt: Nicotine inhaler (c+sc)	Indiv/SC YP
NRQUIT5	Nicotine replacement product used during serious quit attempt: Nicotine mouthspray (c+sc)	Indiv/SC YP
NRQUIT6	Nicotine replacement product used during serious quit attempt: Nicotine nasal spray (c+sc)	Indiv/SC YP
NRQUIT7	Nicotine replacement product used during serious quit attempt: Another nicotine product (c+sc)	Indiv/SC YP
NRQUIT8	Nicotine replacement product used during serious quit attempt: Electronic cigarette (c+sc)	Indiv/SC YP
NRQUIT9	Nicotine replacement product used during serious quit attempt: None of these (c+sc)	Indiv/SC YP
DRSMK12	Whether medical person ever advised to stop	Indiv
NDPNOW	(D) Current use of E-cigarettes and/or NDPs, 16+yrs (c+sc)	Derived
NDPEVRC	(D) Ever or Current use of E-cigarettes and/or NDPs, 16+yrs (c+sc)	Derived

Children General

Variable	Description	Source
EXPSMOK2	(D) Children's self reported exposure to other people's smoke, 0-15,4 groups	Derived
CHEXPSM	Whether child carer smokes (0-12s)	Indiv
ADULTSMOKE	(D) Children live with at least one adult smoker, smokes at home on most days, binary (for children aged 4-15)	Derived
SMOKE415	(D) Self-reported child smokers aged 4-15 yrs, (4-7yrs assumed non-smoker)	Derived

Children 8-15

Variable	Description	Source
ANRSM201	Often near people who smoke: At home	SC 8-15
ANRSM202	Often near people who smoke: In other people's homes	SC 8-15
ANRSM203	Often near people who smoke: In a car	SC 8-15
ANRSM204	Often near people who smoke: In the street	SC 8-15
ANRSM205	Often near people who smoke: Outdoor areas of pubs/cafes/restaurants	SC 8-15
ANRSM206	Often near people who smoke: Park/playing facilities	SC 8-15
ANRSM207	Often near people who smoke: Public places unspecified	SC 8-15
ANRSM208	Often near people who smoke: School	SC 8-15
ANRSM209	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
KECIGHR	Ever heard of electronic cigarettes (e-cigarettes) (8-15s) (SC)	SC 8-15
KECIGREG	Ever used electronic cigarettes (8-15s) (SC)	SC 8-15

Children 13-15

Variable	Description	Source
ANRNOW_1	Nicotine replacement products currently used: Nicotine chewing gum (children 13-15)	SC 13-15
ANRNOW_2	Nicotine replacement products currently used: Nicotine lozenges/ mini lozenges (children 13-15)	SC 13-15
ANRNOW_3	Nicotine replacement products currently used: Nicotine patch (children 13-15)	SC 13-15
ANRNOW_4	Nicotine replacement products currently used: Nicotine inhaler/inhalator (children 13-15)	SC 13-15
ANRNOW_5	Nicotine replacement products currently used: Nicotine mouthspray (children 13-15)	SC 13-15
ANRNOW_6	Nicotine replacement products currently used: Nicotine nasal spray (children 13-15)	SC 13-15
ANRNOW_7	Nicotine replacement products currently used: Other nicotine product (children 13-15)	SC 13-15
ANRNOW_8	Nicotine replacement products currently used: Electronic cigarette (children 13-15)	SC 13-15
ANRNOW_9	Nicotine replacement products currently used: None of these (children 13-15)	SC 13-15
ANREVR_1	Nicotine replacement products used in past but not now: Nicotine chewing gum (children 13-15)	SC 13-15
ANREVR_2	Nicotine replacement products used in past but not now: Nicotine lozenges/ mini lozenges (children 13-15)	SC 13-15
ANREVR_3	Nicotine replacement products used in past but not now: Nicotine patch (children 13-15)	SC 13-15
ANREVR_4	Nicotine replacement products used in past but not now: Nicotine inhaler/inhalator (children 13-15)	SC 13-15
ANREVR_5	Nicotine replacement products used in past but not now: Nicotine mouthspray (children 13-15)	SC 13-15
ANREVR_6	Nicotine replacement products used in past but not now: Nicotine nasal spray (children 13-15)	SC 13-15
ANREVR_7	Nicotine replacement products used in past but not now: Other nicotine product (children 13-15)	SC 13-15
ANREVR_8	Nicotine replacement products used in past but not now: Electronic cigarette (children 13-15)	SC 13-15
ANREVR_9	Nicotine replacement products used in past but not now: None of these (children 13-15)	SC 13-15
CURRENTNDPS	(D) Current use of nicotine delivery product(s) (NDP) (SC 13-15)	Derived

Current Nicotine Status

Variable	Description	Source
SMOKEN1	Use any nicotine products nowadays: Cigarettes	Nurse
SMOKEN2	Use any nicotine products nowadays: Cigars	Nurse
SMOKEN3	Use any nicotine products nowadays: Pipe	Nurse
SMOKEN4	Use any nicotine products nowadays: E-cigarette or vaping device	Nurse
SMOKEN5	Use any nicotine products nowadays: Hookah/Shisha	Nurse
SMOKEN6	Use any nicotine products nowadays: Smokeless tobacco	Nurse
SMOKEN7	Use any nicotine products nowadays: None of these	Nurse
SMOK7DAY1	Use any nicotine products in the last 7 days: Cigarettes	Nurse
SMOK7DAY2	Use any nicotine products in the last 7 days: Cigars	Nurse
SMOK7DAY3	Use any nicotine products in the last 7 days: Pipe	Nurse
SMOK7DAY4	Use any nicotine products in the last 7 days: E-cigarette or vaping device	Nurse
SMOK7DAY5	Use any nicotine products in the last 7 days: Hookah/Shisha	Nurse
SMOK7DAY6	Use any nicotine products in the last 7 days: Smokeless tobacco	Nurse
SMOK7DAY7	Use any nicotine products in the last 7 days: None of these	Nurse
NR7DAY_1	Nicotine products used in last 7 days: Nicotine chewing gum	Nurse
NR7DAY_2	Nicotine products used in last 7 days: Nicotine lozenges/mini lozenges	Nurse
LASTSMOK	How long is it since last smoked?	Nurse
SMOKEVRN	Ever regularly smoked a cigarette, a cigar or a pipe, at least one a day	Nurse
NR7DAY_3	Nicotine products used in last 7 days: Nicotine patches	Nurse
NR7DAY_4	Nicotine products used in last 7 days: Nicotine inhaler/inhalator	Nurse
NR7DAY_5	Nicotine products used in last 7 days: Nicotine mouthspray	Nurse
NR7DAY_6	Nicotine products used in last 7 days: Nicotine nasal spray	Nurse
NR7DAY_7	Nicotine products used in last 7 days: Another nicotine product	Nurse
NR7DAY_8	Nicotine products used in last 7 days: Electronic cigarette	Nurse
NR7DAY_9	Nicotine products used in last 7 days: None	Nurse
NICUSE7D	(D) Used nicotine products in last 7 days, 16+yrs (nurse)	Derived

Cotinine

Variable	Description	Source
SALINTR1	Consent to take saliva sample	Nurse
SALOBT1	Whether saliva sample obtained	Nurse
SALHOW	Method used to obtain saliva sample	Nurse
SALNOBT3	Sample not obtained: Not able to produce any saliva	Nurse
SALNOBT4	Sample not obtained: Other	Nurse
SALOUTC	Saliva sample outcome	Nurse
COTININE	Cotinine result	Lab
COTQUAL	Cotinine quality	Nurse
COTVAL	(D) Valid cotinine result (saliva)	Derived
CotVal2	(D) Valid Cotinine (16+yrs, excl users of nicotine delivery products(NDP))	Derived
Cot12Val2	(D) Binary of valid cotinine levels at 12+ ng/ml (16+yrs, excl users of NDP)	Derived
Cot12Val3	(D) Binary of valid cotinine levels at 12+ ng/ml (16+, incl users of NDP)	Derived
cot15val	(D) Valid Cotinine (saliva): 0<15,15+	Derived
Cot12ValKids	(D) Cotinine below/above 12 ng/ml (children 4-15) excl current use of NDPs	Derived
UndetectCot	(D) Binary of undetectable cotinine, <0.1ng/ml (16+yrs, excl users NDP)	Derived
DetectCot12ch	(D) Detectable cotinine for children, excl Current NDPs and smokers	Derived
SHSOutC	(D) Detectable cotinine for children (3 groups), excl Current NDPs and smokers	Derived

Adult Physical Activity

Walking

Variable	Description	Source
NoWalk	No walks of at least 10 minutes in the last 7 days	SC 16+
DaysWal1	Days on which walked for at least 10 minutes in last 7 days: Monday	SC 16+
DaysWal2	Days on which walked for at least 10 minutes in last 7 days: Tuesday	SC 16+
DaysWal3	Days on which walked for at least 10 minutes in last 7 days: Wednesday	SC 16+
DaysWal4	Days on which walked for at least 10 minutes in last 7 days: Thursday	SC 16+
DaysWal5	Days on which walked for at least 10 minutes in last 7 days: Friday	SC 16+
DaysWal6	Days on which walked for at least 10 minutes in last 7 days: Saturday	SC 16+
DaysWal7	Days on which walked for at least 10 minutes in last 7 days: Sunday	SC 16+
TWalHou	Time spent walking on each day - Hours	SC 16+
TWalMin	Time spent walking on each day - Minutes	SC 16+
SWlkPace	Usual walking pace	SC 16+
WlkEfft	During last 7 days, effort of walking for 10 mins enough to make breathe faster, feel warmer or sweat	SC 16+
Lst7Wal	(D) Number of days in last 7 walked for at least 10 minutes at a time	Derived
TotmWalD	(D) IPAQ: Total number of minutes usually spend walking in a day	Derived
TotmWalWk	(D) IPAQ: Total number of minutes walking in the last 7 days	Derived

Moderate activity

Variable	Description	Source
NoMod	No moderate physical activities in the last 7 days	SC 16+
DaysMod1	Days on which did moderate physical activity in last 7 days: Monday	SC 16+
DaysMod2	Days on which did moderate physical activity in last 7 days: Tuesday	SC 16+
DaysMod3	Days on which did moderate physical activity in last 7 days: Wednesday	SC 16+
DaysMod4	Days on which did moderate physical activity in last 7 days: Thursday	SC 16+
DaysMod5	Days on which did moderate physical activity in last 7 days: Friday	SC 16+
DaysMod6	Days on which did moderate physical activity in last 7 days: Saturday	SC 16+
DaysMod7	Days on which did moderate physical activity in last 7 days: Sunday	SC 16+
TModHou	Time spent on moderate physical activity on each day - Hours	SC 16+
TModMin	Time spent on moderate physical activity on each day - Minutes	SC 16+
Lst7Mod	(D) Number of days in last 7 did moderate physical activity	Derived
TotmModD	(D) IPAQ: Total number of minutes usually spend doing moderate activities in a day	Derived
TotmModWk	(D) IPAQ: Total number of minutes of moderate activity in the last 7 days	Derived

Vigorous activity

Variable	Description	Source
NoVig	No vigorous physical activities in the last 7 days	SC 16+
DaysVig1	Days on which did vigorous physical activity in last 7 days: Monday	SC 16+
DaysVig2	Days on which did vigorous physical activity in last 7 days: Tuesday	SC 16+
DaysVig3	Days on which did vigorous physical activity in last 7 days: Wednesday	SC 16+
DaysVig4	Days on which did vigorous physical activity in last 7 days: Thursday	SC 16+
DaysVig5	Days on which did vigorous physical activity in last 7 days: Friday	SC 16+
DaysVig6	Days on which did vigorous physical activity in last 7 days: Saturday	SC 16+
DaysVig7	Days on which did vigorous physical activity in last 7 days: Sunday	SC 16+
TVigHou	Time spent on vigorous physical activity on each day - Hours	SC 16+
TVigMin	Time spent on vigorous physical activity on each day - Minutes	SC 16+
Lst7Vig	(D) Number of days in last 7 did vigorous physical activity	Derived
TotmVigD	(D) IPAQ: Total number of minutes usually spend doing vigorous activities in a day	Derived
TotmVigWk	(D) IPAQ: Total number of minutes of vigorous activity in the last 7 days	Derived

MVPA		
Variable	**Description**	**Source**
VPAmDay	(D) IPAQ: Vigorous-intensity minutes (VPA) each day (10+ mins)*2	Derived
MPAmDay	(D) IPAQ: Moderate-intensity minutes (MPA) each day (10+ mins)	Derived
VPAmWk	(D) IPAQ: Vigorous-intensity miniutes (VPA) each week (10+ mins) * 2	Derived
MPAmWk	(D) IPAQ: Moderate-intensity minutes (MPA) each week (10+ mins)	Derived
MVPAmWk	(D) IPAQ: Active - Moderate/Vigorous-intensity minutes (MVPA) each week	Derived
MVPAmWkg	(D) IPAQ: Grouped Active - 30 minutes or more Moderate/Vigorous-intensity minutes (MVPA) each week	Derived
MVPATert	(D) IPAQ: Tertiles of moderate or vigorous intensive minutes of activity per week (sex-specific; excludes walking)	Derived

Sedentary activity		
Variable	**Description**	**Source**
TSitHou	Time spent sitting on a weekday in the last 7 days - Hours	SC 16+
TSitMin	Time spent sitting on a weekday in the last 7 days - Minutes	SC 16+
TotmSitD	(D) IPAQ: Total number of minutes spent sitting on a weekday	Derived
TotmSitWk	(D) IPAQ: Total number of minutes spent sitting (weekdays, only) in the last 7 days	Derived

Multiple Risks

Multiple risks		
Variable	**Description**	**Source**
SmokRisk	(D) Current smoker - Multiple Risk Factors	Derived
DietRisk	(D) Less than 5 portions a day - Multiple Risk Factors	Derived
PhAcRisk	(D) Inactive: less than 30mins - Multiple Risk Factors	Derived
ObesRisk	(D) Obesity risk - Multiple Risk Factors	Derived
DrnkRisk	(D) More than 14 units a week - Multiple Risk Factors	Derived
NoMuRisk	(D) Number of risks	Derived
NoMuRisk2	(D) Number of risks, 2+	Derived
NoMuRisk3	(D) Number of risks, 3+	Derived
MultiRsk	(D) Number and type(s) of risk	Derived
raisedBP	(D) Raised BP	Derived
raisedchol	(D) Raised cholesterol	Derived
raisedglyc	(D) Raised glycated haemoglobin (>=48mmol/l)	Derived
NoMuRiskBio	(D) Number of risks - raised BP, raised chol and raised glyc	Derived
NoMuRiskBio2	(D) Number of risks - raised BP, raised chol and raised glyc, grouped 2+	Derived

Social care

Help with tasks

Variable	Description	Source
ANYHLP	Whether needed any help with tasks?	Indiv
TASKSA	Whether need help: Getting in and out of bed	Indiv
TASKSB	Whether need help: Washing face and hands	Indiv
TASKSC	Whether need help: Having a bath/shower, including getting in and out of bath/shower	Indiv
TASKSD	Whether need help: Dressing and undressing, including putting on shoes and socks	Indiv
TASKSE	Whether need help: Using the toilet	Indiv
TASKSF	Whether need help: Eating, including cutting up food	Indiv
TASKSG	Whether need help: Taking the right amount of medicine at the right times	Indiv
TASKSH	Whether need help: Getting around indoors	Indiv
TASKSI	Whether need help: Getting up and down stairs	Indiv
TASKSJ	Whether need help: Getting out of the house	Indiv
TASKSK	Whether need help: Shopping for food	Indiv
TASKSL	Whether need help: Doing routine housework or laundry	Indiv
TASKSM	Whether need help: Doing paperwork or paying bills	Indiv
TASKHELPA	Received help in last month: Getting in and out of bed	Indiv
TASKHELPB	Received help in last month: Washing face and hands	Indiv
TASKHELPC	Received help in last month: Having a bath or a shower	Indiv
TASKHELPD	Received help in last month: Dressing or undressing, including putting on shoes and socks	Indiv
TASKHELPE	Received help in last month: Using the toilet	Indiv
TASKHELPF	Received help in last month: Eating, including cutting up food	Indiv
TASKHELPG	Received help in last month: Taking the right amount of medicine at the right times	Indiv
TASKHELPH	Received help in last month: Getting around indoors	Indiv
TASKHELPI	Received help in last month: Getting up and down stairs	Indiv
TASKHELPJ	Received help in last month: Getting out of the house	Indiv
TASKHELPK	Received help in last month: Shopping for food	Indiv
TASKHELPL	Received help in last month: Doing routine housework or laundry	Indiv
TASKHELPM	Received help in last month: Doing paperwork or paying bills	Indiv
HLPNUM	Derived number of activities Respondent has received help with in the last month	Indiv
HLPNUMB	Derived number of activities respondent has received help with in the last month, excluding shopping for food / housework / paperwork	Indiv
CHECKA2	Whether received help because of health, disability or age problems	Indiv
RECHLPI	(D) Did you receive help: Stairs (TASK I)	Derived
RECHLPH	(D) Did you receive help: Indoors (TASK H)	Derived
RECHLPA	(D) Did you receive help: Bed (TASK A)	Derived
RECHLPC	(D) Did you receive help: Shower (TASK C)	Derived
RECHLPD	(D) Did you receive help: Dress (TASK D)	Derived
RECHLPB	(D) Did you receive help: Wash (TASK B)	Derived
RECHLPE	(D) Did you receive help: Toilet (TASK E)	Derived
RECHLPG	(D) Did you receive help: Medicine (TASK G)	Derived
RECHLPF	(D) Did you receive help: Eat (TASK F)	Derived
RECHLPJ	(D) Did you receive help: House (TASK J)	Derived
RECHLPK	(D) Did you receive help: Shop (TASK K)	Derived
RECHLPL	(D) Did you receive help: Housework (TASK L)	Derived
RECHLPM	(D) Did you receive help: Paperwork (TASK M)	Derived
RECHELIBI	(D) Received help: Stairs (binary) (TASK I)	Derived
RECHELHBI	(D) Received help: Indoors (binary) (TASK H)	Derived
RECHELABI	(D) Received help: Bed (binary) (TASK A)	Derived
RECHELCBI	(D) Received help: Shower (binary) (TASK C)	Derived
RECHELDBI	(D) Received help: Dress (binary) (TASK D)	Derived
RECHELBBI	(D) Received help: Wash (binary) (TASK B)	Derived
RECHELEBI	(D) Received help: Toilet (binary) (TASK E)	Derived
RECHELGBI	(D) Received help: Medicine (binary) (TASK G)	Derived
RECHELFBI	(D) Received help: Eat (binary) (TASK F)	Derived
RECHELJBI	(D) Received help: House (binary) (TASK J)	Derived
RECHELKBI	(D) Received help: Shop (binary) (TASK K)	Derived
RECHELLBI	(D) Received help: Housework (binary) (TASK L)	Derived
RECHELMBI	(D) Received help: Paperwork (binary) (TASK M)	Derived
NDHLPI	(D) Need help (binary): Stairs (TASK I)	Derived
NDHLPH	(D) Need help (binary): Indoors (TASK H)	Derived
NDHLPA	(D) Need help (binary): Bed (TASK A)	Derived
NDHLPC	(D) Need help (binary): Shower (TASK C)	Derived

NDHLPD	(D) Need help (binary): Dress (TASK D)	Derived
NDHLPB	(D) Need help (binary): Wash (TASK B)	Derived
NDHLPE	(D) Need help (binary): Toilet (TASK E)	Derived
NDHLPG	(D) Need help (binary): Medicine (TASK G)	Derived
NDHLPF	(D) Need help (binary): Eat (TASK F)	Derived
NDHLPJ	(D) Need help (binary): House (TASK J)	Derived
NDHLPK	(D) Need help (binary): Shop (TASK K)	Derived
NDHLPL	(D) Need help (binary): Housework (TASK L)	Derived
NDHLPM	(D) Need help(binary): Paperwork (TASK M)	Derived
ANYADL	(D) Needed help with any personal activities (ADLs)	Derived
ANYEXSH	(D) Needed help with any personal activities (ADLs excl bath or shower)	Derived
ANYEXSH2	(D) Needed help with any personal activities (ADLs excl bath or shower, toilet, indoors & stairs)	Derived
INDOORADL	(D) Needed help with any indoor activities (ADLs: Getting around indoors, getting up and down stairs)	Derived
ANYIADL	(D) Needed help with any instrumental activities (IADLs: getting out of house,food shopping, routine housework,doing paperwork/bills)	Derived
HELPADL	(D) Received help with any indoor activities (ADLs: Getting around indoors, getting up and down stairs)	Derived
HELPEXSH	(D) Received help for any personal activities (ADLs excl bath or shower)	Derived
HELPEXSH2	(D) Received help for any personal activities (ADLs excl bath or shower, toilet, indoors & stairs)	Derived
HELPINDOOR	(D) Received help with any indoor activities (ADLs: Getting around indoors, getting up and down stairs)	Derived
HELPIADL	(D) Received help with any instrumental activities (IADLs: getting out of house,food shopping, routine housework,doing paperwork/bills)	Derived
HlpTasks3	(D) Number of ADLs or IADLs for which help was needed, 3 groups	Derived
UNMETI	(D) Unmet need: Stairs (TASK I)	Derived
UNMETH	(D) Unmet need: Indoors (TASK H)	Derived
UNMETA	(D) Unmet need: Bed (TASK A)	Derived
UNMETC	(D) Unmet need: Shower (TASK C)	Derived
UNMETD	(D) Unmet need: Dress (TASK D)	Derived
UNMETB	(D) Unmet need: Wash (TASK B)	Derived
UNMETE	(D) Unmet need: Toilet (TASK E)	Derived
UNMETG	(D) Unmet need: Medicine (TASK G)	Derived
UNMETF	(D) Unmet need: Eat (TASK F)	Derived
UNMETJ	(D) Unmet need: House (TASK J)	Derived
UNMETK	(D) Unmet need: Shop (TASK K)	Derived
UNMETL	(D) Unmet need: Housework (TASK L)	Derived
UNMETM	(D) Unmet need: Paperwork/Bills (TASK M)	Derived
UNADL	(D) Unmet need for any personal activities (ADLs)	Derived
UNADL2	(D) Whether any unmet need for any personal activities (ADLs)	Derived
UNIADL	(D) Unmet need for any instrumental activities (IADLs)	Derived
UNIADL2	(D) Whether any unmet need for any instrumental activities (IADLs)	Derived
UnIADL3	(D) Whether any unmet ADL and/or IDL needs	Derived
RECHELP	(D) Received help with ADLs/IADLs in the last month	Derived

Formal Help

Variable	Description	Source
HELPN21	Formal help provided: Home care helper/home help	Indiv
HELPN22	Formal help provided: A member of the reablement team helped	Indiv
HELPN23	Formal help provided: Occupational Therapist	Indiv
HELPN24	Formal help provided: Voluntary helper	Indiv
HELPN25	Formal help provided: Warden/Sheltered housing	Indiv
HELPN26	Formal help provided: Cleaner	Indiv
HELPN27	Formal help provided: Council's handyman	Indiv
HELPN28	Formal help provided: Other - please specify	Indiv
HELPN29	Formal help provided: None of these	Indiv
HLPFORM01	Formal help for bath: Home care worker/home help	Indiv
HLPFORM02	Formal help for bath: A member of the reablement team	Indiv
HLPFORM03	Formal help for bath: Occupational Therapist	Indiv
HLPFORM04	Formal help for bath: Voluntary helper	Indiv
HLPFORM05	Formal help for bath: Warden/Sheltered housing	Indiv
HLPFORM06	Formal help for bath: Cleaner	Indiv
HLPFORM07	Formal help for bath: Council's handyman	Indiv
HLPFORM08	Formal help for bath: Other	Indiv
HLPFORM09	Formal help for bath: None of the above	Indiv
HLPFORM10	Formal help ADLs apart from bath & toilet: Home care worker/home help	Indiv
HLPFORM11	Formal help ADLs apart from bath & toilet: A member of the reablement team	Indiv

HLPFORM12	Formal help ADLs apart from bath & toilet: Occupational Therapist	Indiv
HLPFORM13	Formal help ADLs apart from bath & toilet: Voluntary helper	Indiv
HLPFORM14	Formal help ADLs apart from bath & toilet: Warden/Sheltered housing	Indiv
HLPFORM15	Formal help ADLs apart from bath & toilet: Cleaner	Indiv
HLPFORM16	Formal help ADLs apart from bath & toilet: Council's handyman	Indiv
HLPFORM17	Formal help ADLs apart from bath & toilet: Other	Indiv
HLPFORM18	Formal help ADLs apart from bath & toilet: None of the above	Indiv
HLPFORM19	Formal help for indoor tasks: Home care worker/home help	Indiv
HLPFORM20	Formal help for indoor tasks: A member of the reablement team	Indiv
HLPFORM21	Formal help for indoor tasks: Occupational Therapist	Indiv
HLPFORM22	Formal help for indoor tasks: Voluntary helper	Indiv
HLPFORM23	Formal help for indoor tasks: Warden/Sheltered housing	Indiv
HLPFORM24	Formal help for indoor tasks: Cleaner	Indiv
HLPFORM25	Formal help for indoor tasks: Council's handyman	Indiv
HLPFORM26	Formal help for indoor tasks: Other	Indiv
HLPFORM27	Formal help for indoor tasks: None of the above	Indiv
DHELPFOHC	(D) Home care worker helped with ADLs (tasks A-I)	Derived
DHELPFOOT	(D) Other formal helper helped with ADLs (tasks A-I)	Derived
DHELPFONO	(D) No formal helpers helped with ADLs (tasks A-I)	Derived
DANYFO	(D) Any formal helper helped with ADL tasks (A-I)	Derived
DHELPFOHCI	(D) Home care worker helped with IADLs (tasks J-M)	Derived
DHELPFOOTI	(D) Other formal helper helped with IADLs (tasks J-M)	Derived
DHELPFONOI	(D) No formal helpers helped with IADLs (tasks J-M)	Derived
DANYFOI	(D) Any formal helper helped with IADL tasks (J-M)	Derived

Informal help

Variable	Description	Source
HELPN01	Informal help provided: Husband/wife/partner	Indiv
HELPN02	Informal help provided: Son	Indiv
HELPN03	Informal help provided: Daughter	Indiv
HELPN04	Informal help provided: Grandchild	Indiv
HELPN05	Informal help provided: Brother/ sister	Indiv
HELPN06	Informal help provided: Niece/nephew	Indiv
HELPN07	Informal help provided: Mother / father	Indiv
HELPN08	Informal help provided: Other family member	Indiv
HELPN09	Informal help provided: Friend	Indiv
HELPN10	Informal help provided: Neighbour	Indiv
HELPN11	Informal help provided: None of these	Indiv
HLPINF01	Informal help for bath: Husband/wife/partner	Indiv
HLPINF02	Informal help for bath: Son	Indiv
HLPINF03	Informal help for bath: Daughter	Indiv
HLPINF04	Informal help for bath: Grandchild	Indiv
HLPINF05	Informal help for bath: Brother/sister	Indiv
HLPINF06	Informal help for bath: Niece/nephew	Indiv
HLPINF07	Informal help for bath: Mother/father	Indiv
HLPINF08	Informal help for bath: Other family member	Indiv
HLPINF09	Informal help for bath: Friend	Indiv
HLPINF10	Informal help for bath: Neighbour	Indiv
HLPINF11	Informal help for bath: None of the above	Indiv
HLPINF12	Informal help ADLs apart from bath & toilet: Husband/wife/partner	Indiv
HLPINF13	Informal help ADLs apart from bath & toilet: Son	Indiv
HLPINF14	Informal help ADLs apart from bath & toilet: Daughter	Indiv
HLPINF15	Informal help ADLs apart from bath & toilet: Grandchild	Indiv
HLPINF16	Informal help ADLs apart from bath & toilet: Brother/sister	Indiv
HLPINF17	Informal help ADLs apart from bath & toilet: Niece/nephew	Indiv
HLPINF18	Informal help ADLs apart from bath & toilet: Mother/father	Indiv
HLPINF19	Informal help ADLs apart from bath & toilet: Other family member	Indiv
HLPINF20	Informal help ADLs apart from bath & toilet: Friend	Indiv
HLPINF21	Informal help ADLs apart from bath & toilet: Neighbour	Indiv
HLPINF22	Informal help ADLs apart from bath & toilet: None of the above	Indiv
HLPINF23	Informal help for indoor tasks: Husband/wife/partner	Indiv
HLPINF24	Informal help for indoor tasks: Son	Indiv
HLPINF25	Informal help for indoor tasks: Daughter	Indiv
HLPINF26	Informal help for indoor tasks: Grandchild	Indiv
HLPINF27	Informal help for indoor tasks: Brother/sister	Indiv
HLPINF28	Informal help for indoor tasks: Niece/nephew	Indiv
HLPINF29	Informal help for indoor tasks: Mother/father	Indiv

HLPINF30	Informal help for indoor tasks: Other family member	Indiv
HLPINF31	Informal help for indoor tasks: Friend	Indiv
HLPINF32	Informal help for indoor tasks: Neighbour	Indiv
HLPINF33	Informal help for indoor tasks: None of the above	Indiv
DHELPINSP	(D) Spouse/partner helped with ADLs (tasks A-I)	Derived
DHELPINSO	(D) Son helped with ADLs (tasks A-I)	Derived
DHELPINDA	(D) Daughter helped with ADLs (tasks A-I)	Derived
DHELPINFN	(D) Freind/Neighbour helped with ADLs (tasks A-I)	Derived
DHELPINOT	(D) Other member of the family helped with ADLs (tasks A-I)	Derived
DHELPINNO	(D) No informal helpers helped with ADLs (tasks A-I)	Derived
DANYINF	(D) An informal helper helped with ADLs (tasks A-I)	Derived
DHELPINSPI	(D) Spouse/partner helped with IADLs (tasks J-M)	Derived
DHELPINSOI	(D) Son helped with IADLs (tasks J-M)	Derived
DHELPINDAI	(D) Daughter helped with IADLs (tasks J-M)	Derived
DHELPINFNI	(D) Friend/neighbour helped with IADLs (tasks J-M)	Derived
DHELPINOTI	(D) Other family member helped with IADLs (tasks J-M)	Derived
DHELPINNOI	(D) No informal helper helped with IADLs (tasks J-M)	Derived
DANYINFI	(D) An informal helper helped with IADLs (tasks J-M)	Derived
DADLTYP	(D) Who provided ADL help (informal/formal helpers, tasks A-I)	Derived
DIADLTYP	(D) Who provided IADL help (informal/formal helpers, tasks J-M)	Derived

Family helper information

Variable	Description	Source
HELPFAM	Spouse/partner: Whether lives in household	Indiv
HELPFAM2	Son: Whether lives in household	Indiv
HELPFAM3	2nd Son: Whether lives in household	Indiv
HELPFAM4	3rd Son: Whether lives in household	Indiv
HELPFAM5	Daughter: Whether lives in household	Indiv
HELPFAM6	2nd Daughter: Whether lives in household	Indiv
HELPFAM7	3rd Daughter: Whether lives in household	Indiv
HELPFAM8	Grandchild: Whether lives in household	Indiv
HELPFAM9	2nd Grandchild: Whether lives in household	Indiv
HELPFA10	3rd Grandchild: Whether lives in household	Indiv
HELPFA11	Brother/sister: Whether lives in household	Indiv
HELPFA15	Niece/nephew: Whether lives in household	Indiv
HELPFA16	2nd Niece/nephew: Person lives in household	Indiv
HELPFA20	Other family member: Whether lives in household	Indiv
HELPFA21	Friend: Whether lives in household	Indiv
HELPFA22	2nd Friend: Whether lives in household	Indiv

Amount of time helped - formal

Variable	Description	Source
HRSFORM27	Hours of help received in last week: Home care worker/home help/personal assistant	Indiv
HRSFORM28	Hours of help received in last week: 2nd home care worker/home help/personal assistant	Indiv
HRSFORM29	Hours of help received in last week: 3rd home care worker/home help/personal assistant	Indiv
HRSFORM30	Hours of help received in last week: Member of the reablement/intermediate care staff team	Indiv
HRSFORM31	Hours of help received in last week: Occupational therapist/physiotherapist	Indiv
HRSFORM32	Hours of help received in last week: Voluntary helper	Indiv
HRSFORM33	Hours of help received in last week: Warden/sheltered housing manager	Indiv
HRSFORM34	Hours of help received in last week: Cleaner	Indiv
HRSFORM35	Hours of help received in last week: Council's handyman	Indiv
HRSFORM36	Hours of help received in last week: Other	Indiv
HLPHRSF30G9	Grouped hours of formal help received in last week (9 groups): Member of the reablement/ intermediate care staff team	Indiv
HLPHRSF34G9	Grouped hours of formal help received in last week (9 groups): Cleaner	Indiv
HLPHRSF36G9	Grouped hours of formal help received in last week (9 groups): Other	Indiv
HLPHRSF34G3	Grouped hours of formal help received in last week (3 groups): Cleaner	Indiv

Amount of time helped – Informal

Variable	Description	Source
HLPHRSI01G9	Grouped hours of informal help received in last week (9 groups): Husband/wife/partner	Indiv
HLPHRSI02G9	Grouped hours of informal help received in last week (9 groups): Son	Indiv
HLPHRSI05G9	Grouped hours of informal help received in last week (9 groups): Daughter	Indiv

HLPHRSI08G9	Grouped hours of informal help received in last week (9 groups): Grandchild	Indiv
HLPHRSI11G9	Grouped hours of informal help received in last week (9 groups): brother/sister	Indiv
HLPHRSI15G9	Grouped hours of informal help received in last week (9 groups): Niece/nephew	
HLPHRSI20G9	Grouped hours of informal help received in last week (9 groups): Other family member	
HLPHRSI21G9	Grouped hours of informal help received in last week (9 groups): Friend	Indiv
HLPHRSI01G3	Grouped hours of informal help received in last week (3 groups): Husband/wife/partner	Indiv
HLPHRSI02G3	Grouped hours of informal help received in last week (3 groups): Son	Indiv
HLPHRSI05G3	Grouped hours of informal help received in last week (3 groups): Daughter	Indiv
HLPHRSI21G3	Grouped hours of informal help received in last week (3 groups): Friend	Indiv
DURATION	Amount of time been receiving these kinds of help	Indiv
HlpUsHrs01	Average hours of help in a usual week: Husband/wife/partner/spouse	Indiv
HlpUsHrs02	Average hours of help in a usual week: Son	Indiv
HlpUsHrs05	Average hours of help in a usual week: Daughter	Indiv
HlpUsHrs08	Average hours of help in a usual week: Grandchild	Indiv
HlpUsHrs11	Average hours of help in a usual week: Brother/sister	Indiv
HlpUsHrs20	Average hours of help in a usual week: Other family member	Indiv
HlpUsHrs21	Average hours of help in a usual week: Friend	Indiv
SPhr6	(D) Grouped spouse hours who helped (6 groups, 50+)	Derived
SPhr10	(D) Grouped spouse hours who helped (4 groups, 10+)	Derived
SPhr20	(D) Grouped spouse hours who helped (4 groups, 20+)	Derived
Sonhrs	(D) Grouped, hours of help provided in the last week by the son who helped the most (9 groups)	Derived
sohr6	(D) Grouped, hours of help provided in the last week by son who helped the most (6 groups, 50+)	Derived
sohr10	(D) Grouped, hours of help provided in the last week by son who helped the most (4 groups, 10+)	Derived
sohr20	(D) Grouped, hours of help provided in the last week by son who helped the most (4 groups, 20+)	Derived
DAhrs	(D) Grouped, hours of help provided in the last week by daughter who helped the most (9 groups)	Derived
DAhr6	(D) Grouped, hours of help provided in the last week by daughter who helped the most (6 groups, 50+)	Derived
DAhr10	(D) Grouped, hours of help provided in the last week by daughter who helped the most (4 groups, 10+)	Derived
DAhr20	(D) Grouped, hours of help provided in the last week by daughter who helped the most (4 groups, 20+)	Derived
Othrs	(D) Grouped, hours of help provided in the last week by other family member who helped the most (9 groups)	Derived
OtMost	(D) Other famillly member who provided most hours of care	Derived
othr6	(D) Grouped, hours of help provided in the last week by other family member who helped the most (6 groups, 50+)	Derived
othr10	(D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 10+)	Derived
othr20	(D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 20+)	Derived
FNhrs	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (9 groups)	Derived
FNhr6	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (6 groups, 50+)	Derived
FNhr10	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (4 groups, 10+)	Derived
FNhr20	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (4 groups, 20+)	Derived
HCHrs1	(D) Hours of help provided in the last week by home care worker who helped the most	Derived
HCHrs	(D) Grouped hours of help, for home care worker who helped the most	Derived
HCHr6	(D) Home care worker hours of help (grouped)	Derived
HCHr10	(D) Home care worker 10+ hours of help	Derived
HCHr20	(D) Home care worker 20+ hours of help	Derived

Payment for care

Variable	Description	Source
CareAss	Whether council or local authority has made an assessment/review of care needs	Indiv
PersBudg	Whether has Personal Budget	Indiv
AnyDP	Whether any amount of personal budget is taken as a direct payment	Indiv
PBTopUp	Whether respondent pays to top up personal budget at all	Indiv
LAcare	Whether receives any care paid for by the council or local authority	Indiv
PayPriv	Whether pays for any private care at the moment	Indiv
UnpdIntr	Unpaid care received	Indiv
HrsUnpd	Hours of unpaid work received from people who live with respondent	Indiv
UnpdOth	Hours of unpaid work received from people who do not live with respondent	Indiv
WHOANS	Whether respondent answered on own	Indiv
PayCare	(D) Payment for care	Derived

Identifying care providers

Variable	Description	Source
PROVHLP	Whether personally provided help to anyone with long-term physical/mental ill-health, disability or problems relating to old age in last month	Indiv
PROVHLP2	(D) Who provided help with ADLs or IADLs in the last month	Derived
CHECKHLP	Confirm help is because person/people have long-term physical/mental ill-health, disability or problems relating to old age	Indiv
HELPNO	Number of people provide help to	Indiv
NUMCOLD	Computed number of people 65+ cared for	Indiv
NUMCYNG	Computed number of people aged up to 64 cared for	Indiv

Carers information

Variable	Description	Source
PRHHOLD	Person 1 provide help/ support to: lives in household	Indiv
AGEHLPg5	Person 1 provide help/ support to: age (banded)	Derived
GENDHLP	Person 1 provide help/ support to: sex	Indiv
PRHHOLD2	Person 2 provide help/ support to: lives in household	Indiv
AGEHLP2g5	Person 2 provide help/ support to: age (recoded)	Derived
GENDHLP2	Person 2 provide help/ support to: sex	Indiv
PRHHOLD3	Person 3 provide help/ support to: lives in household	Indiv
AGEHLP3g5	Person 3 provide help/ support to: age (recoded)	Derived
GENDHLP3	Person 3 provide help/ support to: sex	Indiv
GAVEHLP	(D) Provided help - binary	Derived
HELPNUM	(D) Number provided help to - grouped	Derived

Carers time

Variable	Description	Source
PRHOURS	Hours helped 1st person in the last week	Indiv
PRHOURSB	Hours helped 1st person in the last week (3 groups)	Indiv
PRUSHRS	Hours helped 1st person in a usual week	Indiv
PRHOURS2	Hours helped 2nd person in the last week	Indiv
PRHOURS3	Hours helped 2nd person in the last week (3 groups)	Indiv
PRUSHRS2	Hours helped 2nd person in a usual week	Indiv
PRHOURS4	Hours helped 3rd person in the last week	Indiv
PRHOURS5	Hours helped 3rd person in the last week (3 groups)	Indiv
PRUSHRS3	Hours helped 3rd person in a usual week	Indiv
PRALLHOUR	Number of hours spent helping in last week	Indiv
PRALLRNG	Number of hours spent helping in last week (8 groups)	Indiv
SPHR6	(D) Grouped spouse hours who helped (6 groups, 50+)	Derived
SPHR10	(D) Grouped spouse hours who helped (4 groups, 10+)	Derived
SPHR20	(D) Grouped spouse hours who helped (4 groups, 20+)	Derived
SOHR6	(D) Grouped, hours of help provided in the last week by son who helped the most (6 groups, 50+)	Derived
SOHR10	(D) Grouped, hours of help provided in the last week by son who helped the most (4 groups, 10+)	Derived
SOHR20	(D) Grouped, hours of help provided in the last week by son who helped the most (4 groups, 20+)	Derived
SONHRS	(D) Grouped, hours of help provided in the last week by the son who helped the most (9 groups)	Derived
DAHR6	(D) Grouped, hours of help provided in the last week by daughter who helped the most (6 groups, 50+)	Derived
DAHR10	(D) Grouped, hours of help provided in the last week by daughter who helped the most (4 groups, 10+)	Derived
DAHR20	(D) Grouped, hours of help provided in the last week by daughter who helped the most (4 groups, 20+)	Derived
DAHRS	(D) Grouped, hours of help provided in the last week by daughter who helped the most (9 groups)	Derived
OTHR6	(D) Grouped, hours of help provided in the last week by other family member who helped the most (6 groups, 50+)	Derived
OTHR10	(D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 10+)	Derived
OTHR20	(D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 20+)	Derived
OTHRS	(D) Grouped, hours of help provided in the last week by other family member who helped the most (9 groups)	Derived
OTMOST	(D) Other familly member who provided most hours of care	Derived
FNHR6	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (6 groups, 50+)	Derived
FNHR10	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (4 groups, 10+)	Derived

FNHR20	(D)Grouped, hours of help provided in the last week by friend or neighbour who helped the most (4 groups, 20+)	Derived
FNHRS	(D) Grouped, hours of help provided in the last week by friend or neighbour who helped the most (9 groups)	Derived
HCHR6	(D) Home care worker hours of help (grouped)	Derived
HCHR10	(D) Home care worker 10+ hours of help	Derived
HCHR20	(D) Home care worker 20+ hours of help	Derived
HCHRS1	(D) Hours of help provided in the last week by home care worker who helped the most	Derived
HCHRS	(D) Grouped hours of help, for home care worker who helped the most	Derived
GRPHRS4	(D) Grouped hours provided (for care receipient for whom most hours provided)	Derived
GRPHRS6	(D) Grouped hours provided(for care receipient for whom most hours provided)	Derived
GRPHRS10	(D) 10+ hours provided (for care recipient for whom most hours provided)	Derived
GRPHRS20	(D) 20+ hours provided (for care recipient for whom most hours provided)	Derived
MOSTHRS	(D) Care recipient for most hours provided	Derived

Carers tasks

Variable	Description	Source
PRTASK1	Task helped care recipient 1 with: Bed	Indiv
PRTASK2	Task helped care recipient 1 with: Washing	Indiv
PRTASK3	Task helped care recipient 1 with: Bath/shower	Indiv
PRTASK4	Task helped care recipient 1 with: Dressing	Indiv
PRTASK5	Task helped care recipient 1 with: Toilet	Indiv
PRTASK6	Task helped care recipient 1 with: Eating	Indiv
PRTASK7	Task helped care recipient 1 with: Medicine	Indiv
PRTASK8	Task helped care recipient 1 with: Indoors	Indiv
PRTASK9	Task helped care recipient 1 with: Stairs	Indiv
PRTASK10	Task helped care recipient 1 with: Getting out of the house	Indiv
PRTASK11	Task helped care recipient 1 with: Shopping	Indiv
PRTASK12	Task helped care recipient 1 with: Housework	Indiv
PRTASK13	Task helped care recipient 1 with: Paperwork	Indiv
PRTASK14	Task helped care recipient 2 with: Bed	Indiv
PRTASK15	Task helped care recipient 2 with: Washing	Indiv
PRTASK16	Task helped care recipient 2 with: Bath/shower	Indiv
PRTASK17	Task helped care recipient 2 with: Dressing	Indiv
PRTASK18	Task helped care recipient 2 with: Toilet	Indiv
PRTASK19	Task helped care recipient 2 with: Eating	Indiv
PRTASK20	Task helped care recipient 2 with: Medicine	Indiv
PRTASK21	Task helped care recipient 2 with: Indoors	Indiv
PRTASK22	Task helped care recipient 2 with: Stairs	Indiv
PRTASK23	Task helped care recipient 2 with: Getting out of the house	Indiv
PRTASK24	Task helped care recipient 2 with: Shopping	Indiv
PRTASK25	Task helped care recipient 2 with: Housework	Indiv
PRTASK26	Task helped care recipient 2 with: Paperwork	Indiv
PRTASK27	Task helped care recipient 3 with: Bed	Indiv
PRTASK28	Task helped care recipient 3 with: Washing	Indiv
PRTASK29	Task helped care recipient 3 with: Bath/shower	Indiv
PRTASK30	Task helped care recipient 3 with: Dressing	Indiv
PRTASK31	Task helped care recipient 3 with: Toilet	Indiv
PRTASK32	Task helped care recipient 3 with: Eating	Indiv
PRTASK33	Task helped care recipient 3 with: Medicine	Indiv
PRTASK34	Task helped care recipient 3 with: Indoors	Indiv
PRTASK35	Task helped care recipient 3 with: Stairs	Indiv
PRTASK36	Task helped care recipient 3 with: Getting out of the house	Indiv
PRTASK37	Task helped care recipient 3 with: Shopping	Indiv
PRTASK38	Task helped care recipient 3 with: Housework	Indiv
PRTASK39	Task helped care recipient 3 with: Paperwork	Indiv
REC1PAY1	Receive money for helping recipient 1: Yes, paid from income /savings/ pension	Indiv
REC1PAY2	Receive money for helping recipient 1: Yes, paid from personal budget/ direct payment	Indiv
REC1PAY3	Receive money for helping recipient 1: Yes, receive carers allowance	Indiv
REC1PAY4	Receive money for helping recipient 1: Yes, receive money in another way	Indiv
REC1PAY5	Receive money for helping recipient 1: No, receive no money for helping	Indiv
REC2PAY1	Receive money for helping recipient 2: Yes, paid from income /savings/ pension	Indiv
REC2PAY2	Receive money for helping recipient 2: Yes, paid from personal budget/ direct payment	Indiv
REC2PAY3	Receive money for helping recipient 2: Yes, receive carers allowance	Indiv
REC2PAY4	Receive money for helping recipient 2: Yes, receive money in another way	Indiv
REC2PAY5	Receive money for helping recipient 2: No, receive no money for helping	Indiv

REC3PAY1	Receive money for helping recipient 3: Yes, paid from income /savings/ pension	Indiv
REC3PAY2	Receive money for helping recipient 3: Yes, paid from personal budget/ direct payment	Indiv
REC3PAY3	Receive money for helping recipient 3: Yes, receive carers allowance	Indiv
REC3PAY4	Receive money for helping recipient 3: Yes, receive money in another way	Indiv
REC3PAY5	Receive money for helping recipient 3: No, receive no money for helping	Indiv
REC1PFRQ17	Frequency receive payment for helping recipient 1	Indiv
REC2PFRQ17	Frequency receive payment for helping recipient 2	Indiv
REC1AMTWR	(D) Amount received for helping recipient 1 per week (grouped)_	Derived
REC2AMTWR	(D) Amount received for helping recipient 2 per week (grouped)	Derived

Carers support

Variable	Description	Source
SUPPORT1	Carer received help from GP or nurse (P1)	Indiv
SUPPORT2	Carer received help from access to respite care (P1)	Indiv
SUPPORT3	Carer received help from professional care staff (P1)	Indiv
SUPPORT4	Carer received help from carers' organisation or charity (P1)	Indiv
SUPPORT5	Carer received help from other family members (P1)	Indiv
SUPPORT6	Carer received help from LA/social services (P1)	Indiv
SUPPORT7	Carer received help from friends/neighbours (P1)	Indiv
SUPPORT8	Carer received no help from these types of support (P1)	Indiv
SUPPORT9	Carer received help from GP or nurse (P2)	Indiv
SUPPOR10	Carer received help from access to respite care (P2)	Indiv
SUPPOR11	Carer received help from professional care staff (P2)	Indiv
SUPPOR12	Carer received help from carers' organisation or charity (P2)	Indiv
SUPPOR13	Carer received help from other family members (P2)	Indiv
SUPPOR14	Carer received help from LA/social services (P2)	Indiv
SUPPOR15	Carer received help from friends/neighbours (P2)	Indiv
SUPPOR16	Carer received no help from these types of support (P2)	Indiv
SUPPOR17	Carer received help from GP or nurse (P2)	Indiv
SUPPOR18	Carer received help from access to respite care (P3)	Indiv
SUPPOR19	Carer received help from professional care staff (P3)	Indiv
SUPPOR20	Carer received help from carers' organisation or charity (P3)	Indiv
SUPPOR21	Carer received help from other family members (P3)	Indiv
SUPPOR22	Carer received help from LA/social services (P3)	Indiv
SUPPOR23	Carer received help from friends/neighbours (P3)	Indiv
SUPPOR24	Carer received no help from these types of support (P3)	Indiv
Support1D	(D) Support received for caring: Help from GP or nurse	Derived
Support2D	(D) Support received for caring: Access to respite care	Derived
Support3D	(D) Support received for caring: Help from professional care staff	Derived
Support4D	(D) Support received for caring: Help from carers' organisation or charity	Derived
Support5D	(D) Support received for caring: Help from other family members	Derived
Support6D	(D) Support received for caring: Advice from local authority/ social services	Derived
Support7D	(D) Support received for caring: Help from friends/neighbours	Derived
Support8D	(D) Support received for caring: None of these	Derived

Carers health

Variable	Description	Source
HEALTHA1	Health affected in the last three months by help/ support provided: Feeling tired	Indiv
HEALTHA2	Health affected in the last three months by help/ support provided: Feeling depressed	Indiv
HEALTHA3	Health affected in the last three months by help/ support provided: Loss of appetite	Indiv
HEALTHA4	Health affected in the last three months by help/ support provided: Disturbed sleep	Indiv
HEALTHA5	Health affected in the last three months by help/ support provided: General feeling of stress	Indiv
HEALTHA6	Health affected in the last three months by help/ support provided: Physical strain	Indiv
HEALTHA7	Health affected in the last three months by help/ support provided: Short tempered	Indiv
HEALTHA8	Health affected in the last three months by help/ support provided: Developed my own health condition	Indiv
HEALTHA9	Health affected in the last three months by help/ support provided: Made an existing condition worse	Indiv
HEALTHA10	Health affected in the last three months by help/ support provided: Other	Indiv
HEALTHA11	Health affected in the last three months by help/ support provided: None of these	Indiv
HEALTHGP	Whether seen GP due to health being affected by support given to people	Indiv
HLTHEMP1	Left employment because of help given	Indiv
HLTHEMP2	Took new job because of help given	Indiv
HLTHEMP3	Worked fewer hours because of help given	Indiv

HLTHEMP4	Reduced responsibility at work because of help given	Indiv
HLTHEMP5	Flexible employment agreed because of help given	Indiv
HLTHEMP6	Changed to work at home because of help given	Indiv
HLTHEMP7	Other employment affected because of help given	Indiv
HLTHEMP8	Employment not affected because of help given	Indiv
LAASS	Whether Local Authority carried out carer's assessment as a result of help given to people	Indiv

Health Survey for England

Health, social care and lifestyles

2017

Derived Variable Specification

A survey carried out on behalf of NHS Digital

Joint Health Surveys Unit
NatCen Social Research
Department of Epidemiology and Public Health, University College London

Contents

Classification

Individual

AG16G10: (D) Age 16-75+ 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)
  (0 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".
```

Age35g: (D) Respondent age – grouped, approx. 3 year bands for 0-15, 5 year bands 16+

1 0-1
2 2-4
3 5-7
4 8-10
5 11-12
6 13-15
7 16-19
8 20-24
9 25-29
10 30-34
11 35-39
12 40-44
13 45-49
14 50-54
15 55-59
16 60-64
17 65-69
18 70-74
19 75-79
20 80-84
21 85-89
22 90+

SPSS Syntax

```
Numeric Age35g (F3).
compute Age35g = -99.
if range(age,0,1) Age35g = 1.
if range(age,2,4) Age35g = 2.
if range(age,5,7) Age35g  = 3.
if range(age, 8,10) Age35g  = 4.
if range(age,11,12) Age35g  = 5.
if range(age, 13,15) Age35g  = 6.
if range(age,16,19) Age35g =7.
if range(age,20,24) Age35g =8.
if range(age,25,29) Age35g =9.
if range(age,30,34) Age35g =10.
if range(age,35,39) Age35g =11.
if range(age,40,44) Age35g =12.
if range(age,45,49) Age35g =13.
if range(age,50,54) Age35g =14.
if range(age,55,59) Age35g =15.
if range(age,60,64) Age35g =16.
if range(age,65,69) Age35g =17.
if range(age,70,74) Age35g =18.
if range(age,75,79) Age35g =19.
if range(age,80,84) Age35g =20.
if range(age,85,89) Age35g =21.
```

```
if Age  ge 90 Age35g=22.
variable labels Age35g  "(D) Respondent age - grouped, approx 3 year bands for 0-15, 5 year bands 16+".
add value labels Age35g
   1 "0-1"
   2 "2-4"
   3 "5-7"
   4 "8-10"
   5 "11-12"
   6 "13-15"
   7 "16-19"
   8 "20-24"
   9 "25-29"
   10 "30-34"
   11 "35-39"
   12 "40-44"
   13 "45-49"
   14 "50-54"
   15 "55-59"
   16 "60-64"
   17 "65-69"
   18 "70-74"
   19 "75-79"
   20 "80-84"
   21 "85-89" 22 "90+".
```

Age16g5: (D) Age 16+, 5 year bands

-1 Not applicable (under 16)
1 16-17 year olds
2 18-19 year olds
3 20-24 year olds
4 25-29 year olds
5 30-34 year olds
6 35-39 year olds
7 40-44 year olds
8 45- 49 year olds
9 50- 54 year olds
10 55-59 year olds
11 60-64 year olds
12 65-69 year olds
13 70-74 year olds
14 75-79 year olds
15 80-84 year olds
16 85-89 year olds
17 90+

SPSS Syntax

```
Numeric Age16g5 (F3).
if age lt 16 Age16g5 = -1.
if range(age,16,17) Age16g5 = 1.
if range(age,18,19) Age16g5 = 2.
if range(age,20,24) Age16g5 = 3.
if range(age,25,29) Age16g5 = 4.
if range(age,30,34) Age16g5 =5.
if range(age,35,39) Age16g5 = 6.
if range(age,40,44) Age16g5 =7.
if range(age,45,49) Age16g5 = 8.
if range(age,50,54) Age16g5 =9.
if range(age,55,59) Age16g5 = 10.
if range(age,60,64) Age16g5 =11.
if range(age,65,69) Age16g5 = 12.
if range(age,70,74) Age16g5 =13.
if range(age,75,79) Age16g5 = 14.
if range(age,80,84) Age16g5 =15.
if range(age,85,89) Age16g5= 16.
if age ge 90 Age16g5 = 17.
add value labels Age16g5 -1 "Not applicable (under 16)"  1 "16-17 year olds"
2 "18-19 year olds"
3 "20-24 year olds"
4 "25-29 year olds"
5 "30-34 year olds"
6 "35-39 year olds"
7 "40-44 year olds"
8 "45- 49 year olds"
9 "50- 54 year olds"
10 "55-59 year olds"
11 "60-64 year olds"
12 "65-69 year olds"
13 "70-74 year olds"
14 "75-79 year olds"
15 "80-84 year olds"
16 "85-89 year olds"
17 "90+".
variable labels Age16g5 "(D) Age 16+, 5 year bands".
```

Ag015g4: (D) Age 2-15 in three groups

1 2-4
2 5-10
3 11-15

SPSS Syntax

```
Numeric Ag015g4  (F3).
compute Ag015g4 = -99.
if Age GE 16 Ag015g4 =-1.
if range(age,0,1) Ag015g4 = -1.
if  range(age,2,4) Ag015g4 = 1.
if  range(age,5,10) Ag015g4 = 2.
if  range(age,11,15) Ag015g4 = 3.
variable labels Ag015g4  "(D) Age 2-15 in three groups".
add value labels Ag015g4
   -1 "Not applicable"
   1 "2-4"
   2 "5-10"
   3 "11-15".
```

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".
exe.
```

QRTINT: (D) Quarter of year of individual interview

1 First quarter of year
2 Second quarter of year
3 Third quarter of year
4 Fourth quarter of year

SPSS Syntax

```
NUMERIC Qrtint (F3.0).
COMPUTE Qrtint=-99.
IF ANY(mintB,1,2,3) Qrtint=1.
IF ANY(mintB,4,5,6) Qrtint=2.
IF ANY(mintB,7,8,9) Qrtint=3.
IF ANY(mintB,10,11,12) Qrtint=4.
IF mintB<0 Qrtint=mintB.
EXECUTE.
VARIABLE LABELS Qrtint "(D) Quarter of year of individual interview".
VALUE LABELS Qrtint
1 "First quarter of year"
2 "Second quarter of year"
3 "Third quarter of year"
4 "Fourth quarter of year".
```

Booklet Admin

BOOKLET: (D) Eligible for which self-completion booklet

1 Green 8-12
2 Blue 13-15
3 Orange Young Adults
4 Grey 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<18 and screc=1 booklet=3.
IF age>=18 and screc=1 booklet=4.
IF age>=18 and age<25 and screc=1 & bookchk=2 booklet=3.
VARIABLE LABELS booklet "(D) Eligible for which self-completion booklet?".
VALUE LABELS booklet
 -1 "Item not applicable"   1 "8-12"  2 " 13-15"   3 "Young Adults"  4 " Adults".exe.
```

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

SPSS Syntax

```
IF (qual<0 | (qual=1 & quala1<0)) topqual2=quala1.
IF (topqual3>0) topqual2=topqual3.
IF (educend=1 | activb=1) topqual2=8.
VARIABLE LABELS 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'
```

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 & quala1<0)) topqual3=quala1.
if (ANY(1,quala1, quala23, quala24)) topqual3=1.
if (ANY(1,quala2, quala3, quala4, quala6) & topqual3<>1) topqual3=2.
if (ANY(1,quala5,quala7,quala9,quala10,quala11,quala25) & ~RANGE(topqual3,1,2)) topqual3=3.
if (ANY(1,quala8,quala12,quala13,quala15,quala17,quala20,quala22,quala26) & ~RANGE(topqual3,1,3))
topqual3=4.
if (ANY(1,quala14,quala16,quala18,quala21,quala27,quala28) & ~RANGE(topqual3,1,4)) topqual3=5.
if ((quala29=1) & ~RANGE(topqual3,1,5)) topqual3=6.
if((quala19=1 | qual=2) & ~RANGE(topqual3,1,6)) topqual3=7.
exe.
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'.
```

TOPQUAL4: (D) Highest Educational Qualification, 3 groups

1 NVQ4/NVQ5/Degree or equivalent
2 Below degree
3 No qualification.

SPSS Syntax

```
COMPUTE Topqual4=-99.
RECODE Topqual3 (1=1) (2 thru 6=2) (7=3) (else=copy) INTO TopQual4.
VARIABLE LABELS TopQual4 "(D) Highest Educational Qualification, 3 groups".
VALUE LABELS TopQual4
 1 'NVQ4/NVQ5/Degree or equiv'
 2 'Below degree'
 3 'No qualification'.
```

Employment Status

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

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 labels nssec8 "(D) NS-SEC 8 variable classification (individual)".
Value labels 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".
```

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

SPSS Syntax

```
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 labels nssec5 "(D) NS-SEC 5 variable classification (individual)".
Value labels 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".
```

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 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

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 labels hpnssec8 "(D) NS-SEC 8 variable classification (hrp)".
Value labels 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".
fre hpnssec8.
```

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

SPSS Syntax

```
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 LABELS 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".
```

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 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".
exe.
```

Income

EQV5: (D) Equivalised Income Quintiles

-90.00 Age of household member refused
-1.00 Item not applicable
1.00 Lowest Quintile (<=£13,313)
2.00 Second lowest Quintile (>£13,313 <=£20,073)
3.00 Middle Quintile (>£20,073 <=£30,824)
4.00 Second highest Quintile (>£30,824 <=£49,367)
5.00 Highest Quintile (>£49,367)

EQV3: (D) Equivalised Income Tertiles

-90.00 Age of household member refused
-1.00 Item not applicable
1.00 Lowest Tertile (<=£17,967)
2.00 Middle Tertile (>£17,967- £35,934)
3.00 Highest Tertile (>£35,934)

Syntax for equivalised income is available on request

Nurse Admin

QRTNVIS: (D) Quarter of year of nurse visit

1 First quarter of year
2 Second quarter of year
3 Third quarter of year
4 Fourth quarter of year

SPSS Syntax

```
NUMERIC QrtNvis (F3.0).
COMPUTE QrtNvis=-99.
IF ANY(vismon,1,2,3) QrtNvis=1.
IF ANY(vismon,4,5,6) QrtNvis=2.
IF ANY(vismon,7,8,9) QrtNvis=3.
IF ANY(vismon,10,11,12) QrtNvis=4.
IF vismon<0 QrtNvis=vismon.
EXECUTE.
VARIABLE LABELS QrtNvis "(D) Quarter of year of nurse visit interview".
VALUE LABELS QrtNvis
1 "First quarter of year"
2 "Second quarter of year"
3 "Third quarter of year"
4 "Fourth quarter of year”.
```

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

MARSTATD: (D) Marital status including cohabitees

1. Single
2. Married, including civil partnership
3. Separated, including from civil partnership
4. Divorced, including dissolved civil partnership
5. Widowed, including civil partnership
6. Cohabitees

SPSS Syntax

```
RECODE MaritalD (6=2)(7=3) (8=4) (9=5) (else=copy) INTO MarStatD.
COUNT xxx=relto01 to relto12 (2).
IF xxx>0 marstatD=6.
VARIABLE LABELS marstatD "(D) Marital status including cohabitees".
VALUE LABELS marstatD
  1 'Single'
  2 'Married, including civil partnership'
  3 'Separated, including from a civil partnership'
  4 'Divorced, including dissolved civil partnership'
  5 'Widowed, including civil partnership'
  6 'Cohabitees'.
```

Intra-Household

Fath_bmi: (D) Father's BMI - three groups
Moth_bmi: (D) Mother's BMI - three groups

1 Not overweight or obese
2 Overweight
3 Obese

fath_bmi2: (D) Father's BMI – two groups
moth_bmi2: (D) Mother's BMI – two groups

1 Not overweight or obese
2 Overweight or obese

Syntax for father's and mother's BMI is available on request

Sample Info

QIMD: (D) Quintile of IMD SCORE 2015 (Index of multiple deprivation) – least deprived to most deprived

1 0.48->8.37 [least deprived]
2 8.37->13.92
3 13.92->21.43
4 21.43->33.88
5 33.88->92.60 [most deprived]

The Overall Index of Multiple Deprivation 2015 (QIMD) 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 IMD2015 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 2015 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

ESTHT2: (D) Final height - measured or estimated (cm)
ESTWT2: (D) Final Weight - measured or estimated (cm)

SPSS Syntax

```
Do IF Height gt -1.
compute EstHt2 = Height.
       ELSE IF (EHtFt gt -1) AND (EHtIn gt -1).
compute EstHt2 = ((EHtFt * 12) + EHtIn) * 2.54.
      ELSE IF (EHtFt gt -1) AND (EHtIn le -1).
compute                  EstHt2 = EHtFt * 30.48.
            ELSE IF EHtm gt -1.
compute     EstHt2 = EHtm * 100.
 END IF.
if age lt 2 estht2 = -1.
if ehtch = -8 estht2 = -1.
if ehtch = -9 estht2 = -1.
if range(resphts,2,4) and age lt 16 estht2=-1.
add value labels estht2 -1 "Not applicable".
VARIABLE LABELS ESTHT2 "(D) Final height - measured or estimated (cm)".


Numeric Estwt2 (F5.1).

do  IF Weight gt -1.
compute   EstWt2 = Weight.
            ELSE IF (EWtSt gt -1) AND (EWtL gt -1).
compute  EstWt2 =  RND(((EWtSt * 14) + EWtL) * 4.54)  * 0.1.
            ELSE IF (EWtSt gt -1) AND (EWtL le -1).
compute    EstWt2 =  RND(EWtSt * 63.56)  * 0.1.
            ELSE IF EWtkg gt -1.
compute               EstWt2 = EWtkg.
            END IF.
if ewtch = -8 estwt2 = -1.
if ewtch = -9 estwt2 = -1.
if range(respwts,2,4) and age lt 16 estwt2=-1.
add value labels estwt2 -1 "Not applicable".
VARIABLE LABELS ESTwT2 "(D) Final weight - measured or estimated (kg)".
```

HTOK: (D) Whether height measure is valid

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

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".
fre htok.
```

WTOK: (D) Whether weight measure is valid

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

SPSS Syntax

```
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".
```

BMIOK: (D) Whether BMI measure is valid

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

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

```
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)

SPSS Syntax

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

WTVAL2: (D) Valid weight (Kg) inc. estimated>200kg

SPSS Syntax

```
COMPUTE wtval2=-1.
IF wtok=1 wtval2=weight.
if range(wtsr,200,500) & any(wtok,3,4,5) wtval2=wtsr.
VARIABLE LABELS wtval2 "(D) Valid weight (Kg) inc. estimated>200kg".
```

WSTVAL: (D) Valid Mean Waist (cm)

SPSS Syntax

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

HIPVAL: (D) Valid Mean Hip (cm)

SPSS Syntax

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

BMIOWGT: (D) Overweight, incl obese, binary

1 Not overwight
2 Overweight or obese

SPSS Syntax

```
COMPUTE BMIOwgt=-999.
RECODE BMIVal (25 thru hi=2)(0 thru 25=1)(else=copy) into BMIOwgt.
VARIABLE LABELS BMIOwgt "(D) Overweight, incl obese,binary".
VALUE LABELS BMIOwgt
-1 'Not applicable'
-8 "Don't know"
-9 'Refuse'
1 'Not overweight'
2 'Overweight or obese'.
```

BMISR: (D) Self-reported BMI

SPSS Syntax

```
COMPUTE bmisr=-1.
IF htsr>0 & wtsr>0 bmisr=(wtsr*100*100)/(htsr*htsr).
If age<16 bmisr=-1.
VARIABLE LABELS bmisr "(D) Self-reported BMI".
```

BMISRG5: (D) Self-reported 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

```
RECODE bmisr (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 bmisrg5.
If age<16 bmisrg5=-1.
VARIABLE LABELS bmisrg5 "(D) Self-reported BMI (grouped:<18.5,18.5-25,25-30,30-40 40+)".
VALUE LABELS bmisrg5
1 "Under 18.5"
2 "18.5 and below 25"
3 "25 and below 30"
4 "30 and below 40"
5 "Over 40".
```

BMI: (D) BMI - inc. unreliable measurements

SPSS Syntax

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

BMIVAL: (D) Valid BMI measurements using estimated weight if measured weight >130kg

SPSS Syntax

```
COMPUTE bmival=-1.
IF (bmiok=1) bmival=bmi.
IF (range(wtsr,130,500) & ANY(wtok,3,4,5) & htok=1) bmival=(wtsr * 100 * 100)/(height * height).
VARIABLE LABELS bmival "(D) Valid BMI measurements using estimated weight if >130kg".
```

BMIVAL2: (D) Valid BMI measurements using estimated weight if measured weight over 200kg.

SPSS Syntax

```
COMPUTE bmival2=-1.
IF (bmiok=1) bmival2=bmi.
IF (range(wtsr,200,500) & ANY(wtok,3,4,5) & htok=1) bmival2=(wtsr * 100 * 100)/(height * height).
VARIABLE LABELS bmival2 "(D) Valid BMI measurements using estimated weight if >200kg".
```

BMIVG5: (D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+) using estimated weight if >130kg

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

```
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+) estimated weight if >130kg".
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".
```

BMIVG52: (D) BMI (grouped: <18.5, 18.5-25,25-30,30-40,+40) using estimated weight if >200kg

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

```
RECODE bmival2 (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 bmivg52.
If age<16 bmivg52=-1.
VARIABLE LABELS bmivg52 "(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-40 40+) estimated weight if
>200kg".
VALUE LABELS bmivg52 1 "Under 18.5"  2 "18.5 and below 25"  3 "25 and below 30"  4 "30 and below 40"
5 "Over 40".
```

BMIVG53: (D) Valid BMI (grouped: <18.5, 18.5-25,25-30,30-35,35+) if weight >200kg

1 Under 18.5
2 18.5 and below 25
3 25 and below 30
4 30 and below 35
5 Over 35

SPSS Syntax

```
RECODE bmival2 (0 thru 18.5=1)(18.5 thru 25=2)(25 thru 30=3) (30 thru 35=4) (35 thru hi=5) (lo thru -
1=COPY) INTO bmivg53.
If age<16 bmivg53=-1.
VARIABLE LABELS bmivg53 "(D) Valid BMI (grouped:<18.5,18.5-25,25-30,30-35,35+) estimated weight if
>200kg".
VALUE LABELS bmivg53 1 "Under 18.5"   2 "18.5 and below 25"  3 "25 and below 30"
4 "30 and below 35"
5 "Over 35".
```

BMI6grp: (D) Valid BMI (grouped:<18.5,18.5-23,23-25,25-27.5,27.5-30,30+) estimated weight if >200kg

-1 Not applicable
1 Under 18.5
2 18.5 and below 23
3 23 and below 25
4 25 and below 27.5
5 27.5 and below 30
6 Over 30

SPSS Syntax

```
NUMERIC BMI6grp (F2.0).
RECODE bmival2 (0 thru 18.499999=1)(18.500000 thru 22.999999=2)(23.000000 thru 24.999999=3)
(25.000000 thru 27.499999=4) (27.500000 thru 29.999999=5) (30.000000 thru hi=6) (lo thru -1=COPY) INTO
BMI6grp.
If age<16 BMI6grp=-1.
VARIABLE LABELS BMI6grp "(D) Valid BMI (grouped:<18.5,18.5-23,23-25,25-27.5,27.5-30,30+) estimated weight
if >200kg".
VALUE LABELS BMI6grp
-1 "Not applicable"
```

```
1 "Under 18.5"
2 "18.5 and below 23"
3 "23 and below 25"
4 "25 and below 27.5"
5 "27.5 and below 30"
6 "Over 30".
```

BMIVG3: (D) BMI grouped combining underweight and normal, overweight and combining obese and mobidly obese

1 Not overwight or obese
2 Overweight
3 Obese

SPSS Syntax

```
 recode bmivg52 (1 thru 2=1)(3=2)(4 thru 5=3)(else=copy) into bmivg3.
 variable labels bmivg3 "(D) BMI grouped combining underweight and normal, overweight and combining obese
and morbidly obese".
 value labels bmivg3
 1 "Not overweight or obese"
 2 "Overweight"
 3 "Obese".
```

BMIVG6: (D) BMI grouped with obese categories I,II,III

1 Underweight: less than 18.5
2 Normal: 18.5 to less than 25
3 Overweight: 25 to less than 30
4 Obese I: 30 to less than 35
5 Obese II: 35 to less than 40
6 Obese III: 40 or more

SPSS Syntax

```
compute BMIvg6=0.
IF RANGE(BMIVAL,0,18.50) BMIVG6=1.
IF RANGE(BMIVAL,18.50,25.00) BMIVG6=2.
IF RANGE(BMIVAL,25.00,30.00) BMIVG6=3.
IF RANGE(BMIVAL,30.00,35.00) BMIVG6=4.
IF RANGE(BMIVAL,35.00,40.00) BMIVG6=5.
IF RANGE(BMIVAL,40.00,70.00) BMIVG6=6.
IF Age<16 | BMIval<0 | wstval<0 BMIVG6=-1.
VARIABLE LABELS BMIvg6 "(D) BMI grouped with Obese categories I, II, III".
val labels BMIVG6
1 'Underweight: less than 18.5'
2 'Normal: 18.5 to less than 25'
3 'Overweight: 25 to less than 30'
4 'Obese I: 30 to less than 35'
5 'Obese II: 35 to less than 40'
6 'Obese III: 40 or more'.
```

BMIVG8: (D) BMI in 8 categories

1 0-18.5
2 18.5-23
3 23-25
4 25-27.5
5 27.5-30
6 30-32.5
7 32.5-35
8 35+

SPSS Syntax

```
recode bmival2 (0 thru 18.5=1)(18.5 thru 23=2)(23 thru 25=3) (25 thru 27.5=4) (27.5 thru 30=5) (30 thru
32.5=6) (32.5 thru 35=7) (35 thru hi=8) (lo thru -1=COPY) INTO bmivg8.
VARIABLE LABELS bmivg8 "(D) BMI in 8 categories".
VALUE LABELS bmivg8 1 "0-18.5" 2 "18.5-23" 3 "23-25" 4 "25-27.5" 5 "27.5-30" 6 "30-32.5" 7 "32.5-35" 8
"35+".
fre bmivg8.
```

BMI_GROUP: (D) BMI grouped excluding underweight and combining obese and morbidly obese

1 Normal
2 Overweight
3 Obese
-99 underweight excluded from analysis

SPSS Syntax

```
NUMERIC bmi_group (F3.0).
RECODE bmivg52 (1=-99) (2=1) (3=2) (4=3) (5=3) (else=copy) into bmi group.
MISSING VALUES bmi_group(-99).
variable labels bmi_group "(D) BMI grouped excluding underweight and combining obese and morbidly obese".
```

```
value labels bmi_group
1 "Normal"
2 "Overweight"
3 "Obese"
-99 "underweight excluded from analysis".
```

BMIVGDR: (D) WHO diabetes risk category

1 underweight or acceptable risk
2 increased risk
3 high risk

SPSS Syntax

```
* white, mixed, other.

do if origin2 = 1 or origin2 = 4 or origin2 =5.
recode bmivg8 (1 thru 3 = 1) (4 thru 5 = 2) (6 thru hi = 3) (lo thru -1=COPY) INTO bmivgdr.
end if.

* black, asian.

do if origin2 = 2 or origin2 = 3 .
recode bmivg8 (1 thru 2 = 1) (3 thru 4 = 2) (5 thru hi = 3) (lo thru -1=COPY) INTO bmivgdr.
end if.

do if origin2=-8 or origin2=-9.
compute bmivgdr=origin2.
end if.

VARIABLE LABELS bmivgdr "(D) WHO diabetes risk category".
VALUE LABELS bmivgdr -9 "refused ethnic" -8 "dont know" -1 "not applicable" 1 "underweight or acceptable
risk" 2 "increased risk" 3 "high risk".
fre bmivgdr.
```

BMICAT1: (D) Children's BMI standards (85th/95th centile)

1 Normal-weight
2 Over-weight
3 Obese

SPSS Syntax

```
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.
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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.
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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.
exe.

*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 | age<2 | age>=16 | intexage<0) bmicat1=-1.

VARIABLE LABELS bmicat1 '(D) BMI standards age 2-15 (85th/95th centile) updated 2008'.
value labels bmicat1
1 'Normal-weight'
2 'Over-weight' 3 'Obese'.
```

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

1 Neither overweight nor obese
2 Overweight incl obese

SPSS Syntax

```
RECODE bmicat1 (1=1) (2 thru 3=2)(else=copy) INTO bmicat2.
VARIABLE LABELS bmicat2 '(D) BMI status age 2-15 (ovrwght inc. obese)'.
VALUE LABELS bmicat2   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

```
RECODE bmicat1 (1 thru 2=1) (3=2)(else=copy) INTO bmicat3.
VAR LAB bmicat3 '(D) BMI status age 2-15 (non-obese vs obese)'.
VAL LAB bmicat3  1 'Non-obese'   2 'Obese'.
```

WHVAL: (D) Valid Mean Waist/Hip ratio

SPSS Syntax

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

MENWHGP: (D) Male waist-hip ratio groups (adults)

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 (adults)'.
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 groups

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

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) Female 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) Female 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.
```

WAISTHI: (D) Raised waist measurement over 102cm for men and 88cm for women

1 Normal
2 Over 102/88cm

SPSS syntax

```
recode wstval (0 thru hi = 1) (else = copy) into waisthi.
if sex = 1 and wstval >102 waisthi = 2.
if sex = 2 and wstval >88 waisthi = 2.
variable labels waisthi "(D) Raised waist measurement over 102cm for men and 88cm for women".
value labels waisthi
1 "Normal" 2 "Over 102 / 88 cm".
```

WSTGP3: (D) Waist circumference in in 3 groups (valid waist)

1 Desirable - less than 94cm men or 80cm women'
2 High – 94-102cm men or 80-88cm women '
3 Very high – over 102cm men or 88cm women'.

SPSS syntax

```
DO IF (sex=1) .
         RECODE wstval  (0 thru 93.999=1)  (94 thru 102=2)  (102 thru Highest=3) (else = copy) INTO
wstgp3 .
         ELSE IF (sex=2) .
                RECODE wstval  (0 thru 79.999=1)  (80 thru 88=2)  (88 thru Highest=3) (else = copy) INTO
wstgp3 .
    END IF .
EXECUTE .
freq wstgp3.

VARIABLE LABELS wstgp3 "(D) waist circumference in 3 groups (valid waist)".
VALUE LABELS wstgp3
    1  'Desirable - less than 94cm men or 80cm women'
    2  'High - 94-102cm men or 80-88cm women '
    3  'Very high - over 102cm men or 88cm women'.
```

WAIST: (D) Waist circumference, defined by NICE (3 groups, based on valid waist and BMIvg6)

1 Low waist circ
2 High
3 Very high

SPSS syntax

```
DO IF wstval>50 & range(BMIVG6,1,6).
   DO IF (sex=1) .
         RECODE wstval  (Lowest thru 93.999=1)  (94 thru 102=2)  (102 thru Highest=3)  INTO  waist .
         ELSE IF (sex=2) .
                RECODE wstval  (Lowest thru 79.999=1)  (80 thru 88=2)  (88 thru Highest=3)  INTO  waist .
    END IF .
    ELSE IF (wstval<=50 | (BMIvg6<1 | BMIvg6>6)).
         compute Waist=-1.
END IF.
EXECUTE .
VARIABLE LABELS Waist '(D) Waist circumference, defined by NICE (3 groups, based on valid waist and
BMIvg6)'.
VALUE LABELS WAIST
    1 'Low waist circ'
    2  'High'
    3 'Very high'.
```

OHthRisk: (D) Health risk classifications based on BMI and waist circumference (as defined by NICE)

1 Underweight - low waist circ
2 Underweight - high waist circ
3 Underweight - very high waist circ
4 Normal - low waist circ
5 Normal - high waist circ
6 Normal - very high waist circ
7 Overweight - low waist circ
8 Overweight - high waist circ
9 Overweight - very high waist circ
10 Obese I - low waist circ
11 Obese I - high waist circ
12 Obese I - very high waist circ
13 Obese II - low waist circ
14 Obese II - high waist circ
15 Obese II - very high waist circ
16 Obese III - low waist circ
17 Obese III - high waist circ
18 Obese III - very high waist circ

SPSS syntax

```
if bmivg6=1 & waist=1 OhthRisk=1.
if bmivg6=1 & waist=2 OhthRisk=2.
if bmivg6=1 & waist=3 OhthRisk=3.
if bmivg6=2 & waist=1 OhthRisk=4.
if bmivg6=2 & waist=2 OhthRisk=5.
if bmivg6=2 & waist=3 OhthRisk=6.
if bmivg6=3 & waist=1 OhthRisk=7.
if bmivg6=3 & waist=2 OhthRisk=8.
if bmivg6=3 & waist=3 OhthRisk=9.
if bmivg6=4 & waist=1 OhthRisk=10.
if bmivg6=4 & waist=2 OhthRisk=11.
if bmivg6=4 & waist=3 OhthRisk=12.
if bmivg6=5 & waist=1 OhthRisk=13.
if bmivg6=5 & waist=2 OhthRisk=14.
if bmivg6=5 & waist=3 OhthRisk=15.
if bmivg6=6 & waist=1 OhthRisk=16.
if bmivg6=6 & waist=2 OhthRisk=17.
if bmivg6=6 & waist=3 OhthRisk=18.
if waist<0 OHthRisk=Waist.
EXECUTE.
VARIABLE LABELS OHthRisk "(D) Health risk classifications based on body mass index (BMI) and waist
circumference (as defined by NICE)".
VALUE LABELS OHthRisk
 1 'Underweight - low waist circ'
 2 'Underweight - high waist circ'
 3 'Underweight - very high waist circ'
 4 'Normal - low waist circ'
 5 'Normal - high waist circ'
 6 'Normal - very high waist circ'
 7 'Overweight - low waist circ'
 8 'Overweight - high waist circ'
 9 'Overweight - very high waist circ'
10 'Obese I - low waist circ'
11 'Obese I - high waist circ'
12 'Obese I - very high waist circ'
13 'Obese II - low waist circ'
14 'Obese II - high waist circ'
15 'Obese II - very high waist circ'
16 'Obese III - low waist circ'
17 'Obese III - high waist circ'
18 'Obese III - very high waist circ'.
```

OHthRiskg: (D) Health risk classifications based on BMI and waist circumference, grouped (as defined by NICE)

1 Unclassified
2 No increased risk
3 Increased risk
4 High risk
5 Very high risk

SPSS syntax

```
RECODE OHthRisk (1 thru 3=1)(4,5,7=2)(6,8,10=3) (9,11=4) (12 thru 18=5)(-1=-1) INTO OHthRiskg.
EXECUTE.
VARIABLE LABELS OHthRiskg "(D) Health risk classifications based on body mass index (BMI) and waist
circumference, grouped (as defined by NICE)".
VALUE LABELS OHthRiskg
1 'Unclassified (Underweight)' 2 'No increased risk' 3 'Increased risk' 4 'High risk' 5 'Very high risk'.
```

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

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) wstokb=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".
```

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

SPSS syntax

```
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".
```

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

1 Valid
2 Waist/Hip not usable
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 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 hipokb=-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 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 bswill=2 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".
```

CHOLOK2: (D) Response to Total Cholesterol sample
HDLOK2: (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 cholok2.
if bswill=2 cholok2=5.
if cholest>0 & cholqual<0 cholok2=1.
if cholest>0 & lipid2=1 cholok2=2.
variable labels cholok2 "(D) Response to Total Cholesterol sample {revised}".
value labels cholok2
 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 hdlok2.
if bswill=2 hdlok2=5.
if hdlchol>0 & hdlqual<0 hdlok2=1.
if hdlchol>0 & lipid2=1 hdlok2=2.
variable labels hdlok2 "(D) Response to HDL Cholesterol sample {revised}".
value labels hdlok2
 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 haemoglobin sample (%)".
value labels glyhbok
 1 "Valid sample"
 3 "Sample not obtained, not usable"
 4 "Ineligible"
 5 "Refused".
```

CHOLVAL3: (D) Valid Total Cholesterol Result mmol/L (sample received after 16th June)

SPSS Syntax

```
Numeric Cholval3 (F2.1).
compute Cholval3 = cholval2.
if cholflag3 = 1 Cholval3  =  -1.
exe.
variable labels  Cholval3  "(D) Valid Total Cholesterol Result mmol/L (sample received after 16th June)".
add value labels  Cholval3  -1 "Not applicable".
```

CHOLVAL13: (D) Valid Total Cholesterol Result mmol/L (incl those on LLD) (sample received after 16th June)

SPSS Syntax

```
Numeric Cholval13 (F2.1).
compute Cholval13 =  cholval12.
if cholflag3 = 1 cholval13 = -1.
variable labels  Cholval13  "(D) Valid Total Cholesterol Result mmol/L (incl those on LLD) (sample
received after 16th June)".
add value labels  Cholval13  -1 "Not applicable".
```

CHOLFOUR3: (D) Whether Total Cholesterol < 4 (incl those on LLD) {revised} (sample received after 16th June)

1 <4.0
2 >4.0

SPSS Syntax

```
Numeric Cholfour3 (F8.2).
compute Cholfour3 =  Cholfour2.
if cholflag3 = 1 cholfour3 = -1.
exe.
variable labels Cholfour3  "(D) Whether Total Cholesterol < 4 (incl those on LLD) {revised} (sample
received after 16th June)".
add value labels  Cholfour3  -1 "Not applicable" 1.00 "<4.0" 2.00 ">=4.0".
```

CHOLFIVE3: (D) Whether Total Cholesterol < 5 (incl those on LLD) {revised} (sample received after 16th June)

1 <5.0
2 >5.0

SPSS Syntax

```
Numeric Cholfive3  (F8.2).
compute Cholfive3  =  cholfive2.
if cholflag3 = 1 cholfive3 = -1.
exe.
variable labels Cholfive3   "(D) Whether Total Cholesterol < 5 (incl those on LLD) {revised} (sample
received after 16th June)".
add value labels  Cholfive3   -1 "Not applicable" 1.00 "<5.0" 2.00 ">=5.0".
```

HDLVAL3: (D) Valid HDL Cholesterol Result mmol/L (sample received after 16th June)

SPSS Syntax

```
Numeric Hdlval3 (F2.1).
compute Hdlval3 = hdlval2.
if cholflag3 = 1 Hdlval3 = -1.
exe.
var labs Hdlval3 "(D) Valid HDL Cholesterol Result mmol/L  (sample received after 16th June)".
add value labels Hdlval3 -1 "Not applicable".
```

HDLVAL13: (D) Valid HDL Cholesterol Result mmol/L (incl those on LLD) (sample received after 16th June)

SPSS Syntax

```
Numeric Hdlval13 (F2.1).
compute Hdlval13 = hdlval12.
if cholflag3 = 1 hdlval13 = -1.
var labs Hdlval13 "(D) Valid HDL Cholesterol Result mmol/L (incl those on LLD)  (sample received after
16th June)".
add value labels Hdlval13 -1 "Not applicable".
```

HDLONE3: (D) Whether HDL Cholesterol result <1 (incl those on LLD) {revised} (sample received after 16th June)

1 <1
2 >1

SPSS Syntax

```
Numeric Hdlone3 (F8.2).
compute Hdlone3 =hdlone2.
if cholflag3 = 1 hdlone3 = -1.
exe.
var labs Hdlone3 "(D) Whether HDL Cholesterol result <1 (incl those on LLD) {revised} (sample received
after 16th June)".
add value labels Hdlone3 -1 "Not applicable" 1.00 "<1" 2.00 ">=1".
```

Raised: (D) Total cholesterol - raised, over 4.9 (mmol/L)

1 Above 4.9

SPSS Syntax

```
Numeric Raised (F8).
compute raised=0.
if cholest>4.9 raised=1.
if cholest = -1 Raised = -1.
Variable labels Raised "(D) Total cholesterol - raised, over 4.9 (mmol/L)".
add value labels Raised 0 "Below 4.9"
1 "Above 4.9"
-1 "Not applicable".
exe.
```

GLYHBVALA: (D) Valid Glycated HB Result [adjusted to be comparable to pre-September 2013]

SPSS Syntax

```
compute glyhbvala= glyhbval.
execute.
if glyhbval>3.5 and glyhbval<6.3 glyhbvala = glyhbval+0.1.
if glyhbval>6.2 and glyhbval<9 glyhbvala = glyhbval+0.2.
if glyhbval>8.9 glyhbvala = glyhbval+0.3.
```

CHOLVALA: (D) Valid Total Cholesterol Result mmol/L (later results adjusted to be comparable with pre-2010 results)

SPSS Syntax

```
Numeric Cholvala (F2.1).
compute Cholvala  = -99.
if cholflag3 = 1 Cholvala  = cholval2 -0.1.
if cholflag3 = 2 Cholvala  = cholval3.
if cholok2 ge 2 Cholvala = -1.
EXECUTE.
variable labels Cholvala "(D)  Valid Total Cholesterol Result mmol/L (later results adjusted to be
comparable with pre-2010 results)".
add value labels Cholvala
-1 "Not applicable"
-8 "Don't know"
-9 "Refused".
```

CHOLVAL1A: (D) Valid Total Cholesterol Result mmol/L (incl those on LLD) (later results adjusted to be comparable with pre-2010 results)

SPSS Syntax

```
Numeric Cholval1a  (F2.1).
compute Cholval1a  = -99.
if cholflag3 = 1 Cholval1a  = (cholval12 -0.1).
if cholflag3 = 2 Cholval1a  = cholval13.
if cholok2 gt 2 cholval1a = -1.
exe.
variable labels Cholval1a "(D) Valid Total Cholesterol Result mmol/L (incl those on LLD) (later results
adjusted to be comparable with pre-2010 results)".
add value labels Cholval1a
-1 "Not applicable"
-8 "Don't know"
-9 "Refused".
```

CHOLFOURA: (D) Whether Total Cholesterol < 4 (incl those on LLD) {revised} (later results adjusted to be comparable with pre-2010 results)

1 <4.0
2 >4.0

SPSS Syntax

```
Numeric Cholfoura (F8.2).
COMPUTE cholfoura=cholval1a.
If cholval1a>=4.0 cholfoura=2.
if cholval1a>0 & cholval1a LT 4.0 cholfoura=1.
VALUE LABELS cholfoura 1 "<4.0"
 2 ">=4.0" -1 "Not applicable".
variable labels  Cholfoura "(D) Whether Total Cholesterol < 4 (incl those on LLD) {revised} (later results
adjusted to be comparable with pre-2010 results)".
```

CHOLFIVEA: (D) Whether Total Cholesterol < 5 (incl those on LLD) {revised} (later results adjusted to be comparable with pre-2010 results)

1 <5.0
2 >5.0

SPSS Syntax

```
Numeric  Cholfivea  (F8.2).
compute  Cholfivea  = cholval1a.
if cholval1a>=5.0 cholfivea=2.
if cholval1a>0 & cholval1a<5.0 cholfivea = 1.
exe.
variable labels  Cholfivea "(D) Whether Total Cholesterol < 5 (incl those on LLD) {revised} (later results
adjusted to be comparable with pre-2010 results)".
add value labels  Cholfivea
 1 "<5.0"
 2 ">=5.0"
-1 "Not applicable".
```

HDLVALA: (D) Valid HDL Cholesterol Result mmol/L (later results adjusted to be comparable with pre-2010 results)

SPSS Syntax

```
Numeric Hdlvala (F2.1).
compute Hdlvala = -99.
if cholflag3 = 1 Hdlvala = hdlval2+0.1.
if cholflag3 = 2 Hdlvala = hdlval3+0.2.
if hdlok2 ge 2  hdlvala = -1.
exe.

* code in missings
EXECUTE.
variable labels Hdlvala "(D) Valid HDL Cholesterol Result mmol/L (later results adjusted to be comparable
with pre-2010 results)".
add value labels Hdlvala
-1 "Not applicable"
-8 "Don't know"
-9 "Refused".
```

HDLVAL1A: (D) Valid HDL Cholesterol Result mmol/L (incl those on LLD) (later results adjusted to be comparable with pre-2010 results)

SPSS Syntax

```
Numeric Hdlval1a (F2.1).
compute Hdlval1a = -99.
if cholflag3 = 1  Hdlval1a = hdlval12+0.1.
if cholflag3 = 2  Hdlval1a = hdlval13+0.2.
if hdlok2 gt 2 hdlval1a = -1.
EXECUTE.
variable labels Hdlval1a "(D) Valid HDL Cholesterol Result mmol/L (incl those on LLD) (later results
adjusted to be comparable with pre-2010 results)".
add value labels Hdlval1a
-1 "Not applicable"
-8 "Don't know"
-9 "Refused".

fre hdlval1a.
```

HDLONEA: (D) Whether HDL Cholesterol result <1 (incl those on LLD) {revised} (later results adjusted to be comparable with pre-2010 results)

1 <1.0
2 >1.0

SPSS Syntax

```
Numeric Hdlonea (F2.1).
compute Hdlonea = -99.
if hdlval1a>=1 hdlonea=2.
if hdlval1a>0 and hdlval1a<1 hdlonea=1.
IF HDLVAL1A = -1 HDLONEA= -1.
VALUE LABELS hdlonea
 1 "<1"
 2 ">=1"
-1 "Not applicable".
variable labels Hdlonea "(D) Whether HDL Cholesterol result <1 (incl those on LLD) {revised} (later
results adjusted to be comparable with pre-2010 results)".
```

GLYHBVAL2: (D) Valid Glycated HB Result (%)

SPSS Syntax

```
compute glyhbval2=-1.
if glyhbok=1 glyhbval2=glyhb.
formats glyhbval2 (F2.1).
variable labels glyhbval2 "(D) Valid Glycated haemoglobin result (%)".
ADD VALUE LABELS GLYHBVAL2 -1 "Item not appliable".
```

GLYHB3G2: (D) Glycated haemoglobin (%) 3 groups

1 Under 6.5
2 6.5 to 7.4
3 7.5 or over.

SPSS Syntax

```
recode glyhbval2 (7.5 thru hi = 3) (6.5 thru 7.4 = 2) (0 thru 6.4 = 1) (else = copy) into glyhb3g2.
add value labels glyhb3g2
-1 "Item not applicable"
1 "Under 6.5"
2 "6.5 to 7.4"
3 "7.5 or over".
var label glyhb3g2 "(D) Glycated haemoglobin (%) 3 groups".
```

GLYHBHI2: (D) Raised Glycated haemoglobin (%)

1 Not raised (under 6.5)
2 Raised (6.5 or over)

SPSS Syntax

```
recode glyhbval2 (6.5 thru hi = 2) (0 thru 6.4 = 1) (else = copy) into glyhbhi2.
VARIABLE LABELS glyhbhi2 "(D) Raised Glycated haemoglobin (%)".
add value labels glyhbhi2
-1 "Item not applicable"
 1 "Not raised (under 6.5)"
 2 "Raised (6.5 or over)".
```

IFFCVAL2: (D) Valid Glycated haemoglobin result in mmol/ml (IFFC)

SPSS Syntax

```
recode IFCCA1 (else = copy) into iffcval2.
if glyhbval2 = 6.0 iffcval2 = 42.
if glyhbval2<0 iffcval2=glyhbval2.
Variable labels iffcval2 "(D) Valid Glycated haemoglobin result in mmol/ml (IFFC)".
add value labels iffcval2 -1 "Item not appliable".
```

GLYHB3GA: (D) Glycated haemoglobin 3 groups (later results adjusted to be comparable with pre-September 2013)

1 Under 6.5
2 6.5 to 7.4
3 7.5 or over

SPSS Syntax

```
numeric Glyhb3ga (f8.2).
recode glyhbvala (7.5 thru hi = 3) (6.5 thru 7.4 = 2) (0 thru 6.4 = 1) (else = copy) into Glyhb3ga.
exe.
variable labels  Glyhb3ga "(D) Glycated haemoglobin 3 groups (later results adjusted to be comparable with
pre-September 2013)".
add value labels glyhb3ga -1 "Not applicable"  1 "Under 6.5"   2 "6.5 to 7.4"  3 "7.5 or over".
```

GLYHBHIA: (D) Raised glycated haemoglobin (later results adjusted to be comparable with pre-September 2013)

1 Not raised (under 6.5)
2 Raised (6.5 or over)

SPSS Syntax

```
recode glyhbvala (6.5 thru hi = 2) (0 thru 6.4 = 1) (else = copy) into Glyhbhia.
variable labels Glyhbhia  "(D) Raised glycated haemoglobin (later results adjusted to be comparable with
pre-September 2013)".
add value labels Glyhbhia  -1 "Not applicable"
 1 "Not raised (under 6.5)"
 2 "Raised (6.5 or over)".
```

IFFCVALA: (D) Valid Glycated haemoglobin Result in mmol per ml (IFFC) (later results adjusted to be comparable with pre-September 2013)

SPSS Syntax

```
numeric Iffcvala (F2.1).
compute iffcvala= iffcval2.
if iffcval2>15 and iffcval2<45 iffcvala = iffcval2+1.
if iffcval2>44 and iffcval2<75 iffcvala = iffcval2+2.
if iffcval2>74 iffcvala = iffcval2+3.
exe.
variable labels  iffcvala "(D) Valid Glycated haemoglobin Result in mmol per ml (IFFC) (later results
adjusted to be comparable with pre-September 2013)".
add value labels iffcvala -1 "Not applicable".
```

iffcvalag3: (D) Glycated haemoglobin (mmol/mol) 3 groups

1 <42mmol/mol
2 42-47mmol/mol
3 48+mmol/mol

SPSS Syntax

```
NUMERIC iffcvalag3 (F8).
recode iffcvalag4 (4=3)  (else=copy) into iffcvalag3.
variable labels  iffcvalag3  "(D) Glycated haemoglobin (mmol/mol) 3 groups".
add value labels iffcvalag3
  -1 "Not applicable"
1 "<42mmol/mol"
2 "42-47mmol/mol"
3 "48+mmol/mol".
```

iffcvalag4: (D) Glycated haemoglobin (mmol)

1 <42mmol/mol
2 42-47mmol/mol
3 48-53mmol/mol
4 54+mmol/mol

SPSS Syntax

```
Numeric iffcvalag4 (F3).
recode iffcvala (54 thru hi = 4) (48 thru 53 = 3) (42 thru 47 = 2) (0 thru 41 = 1) (else = copy) into
iffcvalag4.
value labels iffcvalag4
-1 "Not applicable"
1 "<42mmol/mol"
2 "42-47mmol/mol"
3 "48-53mmol/mol"
4 "54+mmol/mol".
variable label iffcvalag4 "(D) Glycated haemoglobin (mmol/mol) 4 groups".
exe.
```

Blood Pressure

Admin

BPRESPC: (D) Whether BP readings are valid

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

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,consu2x1,consu2x4)) bprespc= 2.
IF (respbps = 1 & ANY(-9,consu2x1,consu2x4)) bprespc= 3.
IF (pregntj = 1) bprespc = 5.
VARIABLE LABELs 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. In previous years, blood pressure variables aware also derived using a calibration factor to convert readings from the Omron measurements to a Dinamap equivalent. Due to changes in thresholds and a lack oaf need for the Dinamap conversions, these variables have not been in the HSE2012 data.

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

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'
```

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

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" .
```

HYPER1OM2: (D) Hypertensive categories: all prescribed drugs for BP (Omron readings) {revised}
HYPER2OM2: (D) Hypertensive categories: all taking BP drugs (Omron readings) {revised}
HY140OM2: (D) Hypertensive categories: 140/90: all prescribed drugs for BP (Omron readings) {revised}

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 hyper1om2.
DO IF bprespc=1.
IF ANY(bpmedd2,0,-1) & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper1om2=1.
IF bpmedd2=1 & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper1om2=2.
IF bpmedd2=1 & (omsyst>=160 | omdiast>=95) hyper1om2=3.
IF ANY(bpmedd2,0,-1) & (omsyst>=160 | omdiast>=95) hyper1om2=4.
END IF.
VARIABLE LABELS hyper1om2
 "(D) Hypertensive categories: all prescribed drugs for BP (Omron readings) {revised}" .
VALUE LABELS hyper1om2
    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 hyper2om2.
DO IF bprespc=1.
IF ANY(bpmedc2,0,-1) & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper2om2=1.
IF bpmedc2=1 & RANGE(omsyst,0,159.999) & RANGE(omdiast,0,94.999)
  hyper2om2=2.
IF bpmedc2=1 & (omsyst>=160 | omdiast>=95) hyper2om2=3.
IF ANY(bpmedc2,0,-1) & (omsyst>=160 | omdiast>=95) hyper2om2=4.
END IF.
IF (bpmedc2 = -9) hyper2om2 = -9 .
VARIABLE LABELS hyper2om2
 "(D) Hypertensive categories: all taking BP drugs (Omron readings) {revised}" .
VALUE LABELS hyper2om2
    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 hy140om2.
DO IF bprespc=1.
IF ANY(bpmedd2,0,-1) & RANGE(omsyst,0,139.999) &  RANGE(omdiast,0,89.999)
  hy140om2=1.
IF bpmedd2=1 & RANGE(omsyst,0,139.999) &  RANGE(omdiast,0,89.999)
  hy140om2=2.
IF bpmedd2=1 & (omsyst>=140 | omdiast>=90)  hy140om2=3.
IF ANY(bpmedd2,0,-1) & (omsyst>=140 |  omdiast>=90) hy140om2=4.
END IF.
IF (bpmedd2 = -9) hy140om2 = -9 .
VARIABLE LABELS hy140om2
 "(D) Hypertensive categories:140/90: all prescribed drugs for BP (Omron readings) {revised}" .
VALUE LABELS hy140om2
 1 'Normotensive'
 2 'Hypertensive controlled'
 3 'Hypertensive uncontrolled'
 4 'Hypertensive untreated'     -7 'Refused, attempted but not obtained, not attempted'.
```

HIBP1OM2: (D) Whether hypertensive: all prescribed drugs for BP (Omron readings) {revised}
HIBP2OM2: (D) Whether hypertensive: all taking BP drugs (Omron readings) {revised}
HBP140OM2: (D) Whether hypertensive:140/90: all prescribed drugs for BP (Omron readings) {revised}

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 hyper1om2 (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp1om2.
VARIABLE LABELS hibp1om2 "(D) Whether hypertensive: all prescribed drugs for BP (Omron readings)
{revised}".
VALUE LABELS hibp1om2
  0 'Not high BP'
  1 'High BP'.
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hyper2om2 (lo thru -1=COPY)(1=0)(2,3,4=1) INTO hibp2om2.
VARIABLE LABELS hibp2om2 "(D) Whether hypertensive: all taking BP drugs (Omron readings) {revised}".
VALUE LABELS hibp2om2
  0 'Not high BP'
  1 'High BP'
  -7 'Refused, attempted but not obtained, not attempted'.

RECODE hy140om2 (lo thru -1=COPY)(1=0)(2,3,4=1)  INTO hbp140om2.
VARIABLE LABELS hbp140om2 "(D) Whether  hypertensive:140/90: all prescribed drugs for BP (Omron readings)
{revised}".
VALUE LABELS hbp140om2   0 'Not high BP'     1 'High BP'    -7 'Refused, attempted but not obtained, not
attempted'.
```

BPHI3G: (D) Valid blood pressure 3 groups

1 BP under 130/80
2 BP under 140/90 but not under 130/80
3 BP 140/90 or above

SPSS syntax

```
recode omsysval (0 thru 129.5 = 1) (130 thru 139.5 = 2) (140 thru hi = 3) (else = copy) into bphi3g.
if bphi3g = 1 and omdiaval >= 80 bphi3g = 2.
if (bphi3g = 1 or bphi3g = 2) and omdiaval >= 90 bphi3g = 3.
var lab bphi3g "(D) Valid blood pressure 3 groups".
val lab bphi3g
1 "BP under 130/80"
2 "BP under 140/90 but not under 130/80"
3 "BP 140/90 or above"
-7 'Refused, attempted but not obtained, not attempted'.
```

HBP160OM2: (D) Hypertensive untreated (160/100)

1 BP under 160/100 and/or taking medication
2 BP 160/100 or above and not taking medication

SPSS syntax

```
recode hy140om2 (1 thru 3 = 1) (4=2) (else = copy) into hbp160om2.
if hy140om2>0 and range (omsysval,0,159.999) and range(omdiaval,0,99.999) hbp160om2 = 1.
var lab hbp160om2 "(D) Hypertensive untreated (160/100): all prescribed drugs for BP (Omron readings)
{revised}".
val lab hbp160om2  1 "BP under 160/100 and or taking medication"
2 "BP 160/100 or above and not taking medication"
-7 'Refused, attempted but not obtained, not attempted'.
```

Hyptreat: (D) Hypertensive untreated: all prescribed drugs for BP (Omron readings)

1 Normotensive, hypertensive controlled and hypertensive uncontrolled
0 Hypertensive untreated

SPSS syntax

```
Numeric Hyptreat (F8).
compute hyptreat=hy140om2.
recode hyptreat  (2 thru 3=1)  (4=0).
variable labels Hyptreat "(D) Hypertensive untreated: all prescribed drugs for BP (Omron readings)
{revised}".
add value labels Hyptreat
-7 "Refused, attempted but not obtained, not attempted"
-1 "Not applicable"
1 "Normotensive, hypertensive controlled and hypertensive uncontrolled"
0 "Hypertensive untreated".
```

omsysvalg5: (D) SBP in 5 groups

1 <115mmHg
2 115-129mmHg
3 130-139mmHg
4 140-159mmHg
5 160+ mmHg

SPSS syntax

```
numeric omsysvalg5 (F3).
recode omsysval (160.00 thru hi = 5) (140.00 thru 159.99 = 4) (130.00 thru 139.99 = 3) (115.00 thru 129.99
= 2)
(0 thru 114.99 = 1) (else = copy) into omsysvalg5.
value labels omsysvalg5
-7 'Refused, attempted but not obtained, not attempted'
-9 "Refused"
-8 "Don't know"
-1 "Not applicable"
1 "<115mmHg"
2 "115-129mmHg"
3 "130-139mmHg"
4 "140-159mmHg"
5 "160+ mmHg".
var label omsysvalg5 "(D) SBP in 5 groups".
```

Drinking

Adults General

DNOFT3: (D) Frequency drink alcohol in past 12 months: including non-drinkers (16yrs+)

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 (16yrs+)".
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".
```

DRINKYN: (D) Drink alcohol in last 12 months, binary

1 No
2 Yes

SPSS Syntax

```
COMPUTE DrinkYN=-99.
RECODE dnoft3 (1 thru 7=2) (8=1) (else=copy) INTO drinkYN.
VARIABLE LABELS drinkYN "(D) Drink alcohol in last 12 months, binary".
VALUE LABELS drinkYN
-1 'Not applicable'
-8 "Don't know"
-9 'Refused'
 1 'No'
 2 "Yes".
```

NORBOT: (D) Normal beer bottle multiplier (16 yrs +)
STRBOT: (D) Strong beer bottle multiplier (16 yrs +)

SPSS Syntax

```
COMPUTE norbot=0.
IF l7ncodeq>=0 norbot=l7ncodeq*2.5.
COMPUTE strbot=0.
IF l7scodeq>=0 strbot=l7scodeq*4.
exe.
formats norbot strbot (F2.2).
VARIABLE LABELS norbot "(D) Normal beer bottle multiplier (16yrs+)".
VARIABLE LABELS strbot "(D) Strong beer bottle multiplier (16yrs+)".
```

Adults 7 Days[1]

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

SPSS Syntax

```
compute d7many3=d7many.
if any(2,dnany,d7day) d7many3=0.
if dnoft3=8 d7many3=0.
variable labels d7many3 "(D) Number of days drank in last week, including none".
```

D7UNITWG: (D) Units drunk on heaviest day in last 7 (16yrs+)
D7UNITWGRP: (D) Units drunk on heaviest day in last 7 (16yrs+) (grouped)

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) 7
7 Over 8+

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 (wbtlgz>0) d7unitwg=d7unitwg+wbtlgz*1.5.
IF (popsqsm7>0) d7unitwg=d7unitwg+popsqsm7*1.5.
IF (popsqlg7>0) d7unitwg=d7unitwg+popsqlg7*3.
IF ANY(-9,nberqhp7,nberqsm7,nberqlg7,nberqbt7,nberqpt7,
  sberqhp7, sberqsm7,sberqlg7,sberqbt7,sberqpt7,spirqme7, sherqgs7,
  wgls250ml,wgls175ml,wgls125ml,wl7bt, popsqsm7,popsqlg7) d7unitwg=-9.
IF ANY(-8,nberqhp7,nberqsm7,nberqlg7,nberqbt7,nberqpt7,
  sberqhp7, sberqsm7,sberqlg7,sberqbt7,sberqpt7,spirqme7, sherqgs7,
  wgls250ml,wgls175ml,wgls125ml,wl7bt, popsqsm7,popsqlg7) d7unitwg=-8.
IF ANY(-6,nberqhp7,nberqsm7,nberqlg7,nberqbt7,nberqpt7,
  sberqhp7, sberqsm7,sberqlg7,sberqbt7,sberqpt7,spirqme7, sherqgs7,
  wgls250ml,wgls175ml,wgls125ml,wl7bt, popsqsm7,popsqlg7) d7unitwg=-6.
IF any(d7day,2,-1) d7unitwg=-1.
VARIABLE LABELS d7unitwg"(D) Units drunk on heaviest day in last 7 (16yrs+)".
variable label d7unitwgrp "(D) 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+".
```

[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.

WDRINK07B: (D) 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) 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'.
```

MDRINK07B: (D) Men number of units

-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'.
```

ALCLIMIT07B: (D) Alcohol units – limits based on (variable d7unitwgrp) 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

```
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 wdrink07B (-9 thru -1).
```

D7BEERU: (D) Units of normal beer on heaviest day

SPSS Syntax

```
freq nberqhp7 nberqsm7 nberqlg7 nberqbt7 nberqpt7 d7unitwg.
NUMERIC d7beeru (F2.1).
COMPUTE d7beeru=0.
IF (nberqhp7>0) d7beeru=d7beeru+nberqhp7.
IF (nberqsm7>0) d7beeru=d7beeru+nberqsm7*1.5.
IF (nberqlg7>0) d7beeru=d7beeru+nberqlg7*2.
IF (nberqbt7>0) d7beeru=d7beeru+nberqbt7*norbot.
IF (nberqpt7>0) d7beeru=d7beeru+nberqpt7*2.
if d7unitwg<= 0 d7beeru = d7unitwg .
VARIABLE LABELS d7beeru"(D) Units of normal beer on heaviest day".
```

D7SBU: (D) Units of strong beer on heaviest day

SPSS Syntax

```
NUMERIC d7sbu (F2.1).
COMPUTE d7sbu=0.
IF (sberqhp7>0) d7sbu=d7sbu+sberqhp7*2.
IF (sberqpt7>0) d7sbu=d7sbu+sberqpt7*4.
IF (sberqsm7>0) d7sbu=d7sbu+sberqsm7*2.
IF (sberqbt7>0) d7sbu=d7sbu+sberqbt7*strbot.
IF (sberqlg7>0) d7sbu=d7sbu+sberqlg7*3.
if d7unitwg<= 0 d7sbu = d7unitwg .
VARIABLE LABELS d7sbu"(D) Units of strong beer on heaviest day".
```

D7SPIRU: (D) Units of spirits on heaviest day

SPSS Syntax

```
NUMERIC d7spiru (F2.1).
compute d7spiru=0 .
IF (spirqme7>0) d7spiru=spirqme7.
if d7unitwg<= 0 d7spiru = d7unitwg .
VARIABLE LABELS d7spiru "(D) Units of spirits on heaviest day".
```

D7WINU: (D) Units of wine on heaviest day

SPSS Syntax

```
NUMERIC d7winu (F2.1).
compute d7winu=0 .
IF (wgls250ml>0) d7winu=d7winu+wgls250ml*3.0.
IF (wgls175ml>0) d7winu=d7winu+wgls175ml*2.0.
IF (wgls125ml>0) d7winu=d7winu+wgls125ml*1.5.
IF (wbtlgz>0) d7winu=d7winu+wbtlgz*1.5.
if d7unitwg<= 0 d7winu = d7unitwg .
VARIABLE LABELS d7winu" (D) Units of wine on heaviest day".
```

D7SHERU: (D) Units of sherry on heaviest day

SPSS Syntax

```
NUMERIC d7sheru (F2.1).
compute d7sheru=0 .
IF (sherqgs7>0) d7sheru=sherqgs7.
if d7unitwg<= 0 d7sheru = d7unitwg .
VARIABLE LABELS d7sheru "(D) Units of sherry on heaviest day".
```

D7POPU: (D) Units of alcopops on heaviest day

SPSS Syntax

```
NUMERIC d7popu (F2.1).
compute d7popu=0 .
IF (popsqsm7>0) d7popu=d7popu+popsqsm7*1.5.
IF (popsqlg7>0) d7popu=d7popu+popsqlg7*3.
if d7unitwg<= 0 d7popu = d7unitwg .
VARIABLE LABELS d7popu "(D) Units of alcopops on heaviest day".
```

Adult 12 months

NBEERWU: (D) Units of normal beer/week
SBEERWU: (D) Units of strong beer/week
SPIRWU: (D) Units of spirits/week
SHERWU: (D) Units of sherry/week
WINEWU: (D) Units of wine/week
POPSWU: (D) Units of alcopops/week

Variables with 'x' as a prefix are temporary variables and are not kept on the final data

SPSS Syntax

```
missing values all ().
compute xnbeer=0 .
do if nbeer > 0.
RECODE nbeer (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xnbeer.
else if scnbeer > 0.
RECODE scnbeer (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
```

```
  INTO xnbeer.
end if .

compute xsbeer=0 .
do if sbeer>0 .
RECODE sbeer (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xsbeer.
else if scsbeer>0 .
RECODE scsbeer (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xsbeer.
end if .

compute xspir=0 .
do if spirits>0 .
RECODE spirits (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xspir.
else if scspirit>0 .
RECODE scspirit (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xspir.
end if .

compute xsher=0 .
do if sherry>0 .
RECODE sherry (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xsher.
else if scsherry>0 .
RECODE scsherry (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xsher.
end if .

COMPUTE xwine=0 .
do if wine>0 .
RECODE wine (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xwine.
else if scwine>0 .
RECODE scwine (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xwine.
end if .

compute xpops=0 .
do if pops>0 .
RECODE pops (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xpops.
else if scpops>0 .
RECODE scpops (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO xpops.
end if .

COMPUTE nbeerwu=0.
*CAPI variables .
if (nbeerm1 > 0) nbeerwu=nbeerwu+(xnbeer*nbeerq1).
if (nbeerm2 > 0) nbeerwu=nbeerwu+(xnbeer*nbeerq2*1.5).
if (nbeerm3 > 0) nbeerwu=nbeerwu+(xnbeer*nbeerq3*2).
if (nbeerm4 > 0) nbeerwu=nbeerwu+(xnbeer*nbeerq4*1.5).
*self-comp variables .
if (scnbeeq1 > 0) nbeerwu=nbeerwu+(xnbeer*scnbeeq1).
if (scnbeeq2 > 0) nbeerwu=nbeerwu+(xnbeer*scnbeeq2*1.5).
if (scnbeeq3 > 0) nbeerwu=nbeerwu+(xnbeer*scnbeeq3*2).
formats nbeerwu (F2.1).

* strong beer.

COMPUTE sbeerwu=0.
*CAPI variables .
if (sbeerm1 > 0) sbeerwu=sbeerwu+(xsbeer*sbeerq1*2).
if (sbeerm2 > 0) sbeerwu=sbeerwu+(xsbeer*sbeerq2*2).
if (sbeerm3 > 0) sbeerwu=sbeerwu+(xsbeer*sbeerq3*3).
if (sbeerm4 > 0) sbeerwu=sbeerwu+(xsbeer*sbeerq4*2).
*self-comp variables .
if (scsbeeq1 > 0) sbeerwu=sbeerwu+(xsbeer*scsbeeq1*2).
if (scsbeeq2 > 0) sbeerwu=sbeerwu+(xsbeer*scsbeeq2*2).
if (scsbeeq3 > 0) sbeerwu=sbeerwu+(xsbeer*scsbeeq3*3).
formats sbeerwu (F2.1).

COMPUTE spirwu=0.
if (spiritsq>0) spirwu=spirwu+(xspir*spiritsq).
if (scspirq>0) spirwu=spirwu+(xspir*scspirq).
formats spirwu (f2.1).


COMPUTE sherwu=0.
if (sherryq>0) sherwu=sherwu+(xsher*sherryq).
if (scsherrq>0) sherwu=sherwu+(xsher*scsherrq).
formats sherwu (f2.1).

compute winewu=0 .
*CAPI variables .
if bwineq2=1 winewu=winewu+(xwine*wineq*1.5) .
```

```
if bwineq2=2 winewu=winewu+(xwine*wineq*2) .
if bwineq2=3 winewu=winewu+(xwine*wineq*3) .
if bwineq2=4 winewu=winewu+(xwine*wineq*9) .
if bwineq2=5 winewu=winewu+(xwine*wineq*2) .

*self-comp variables .
if (scwineq1>0) winewu=winewu+(xwine*scwineq1*1.5) .
if (scwineq2>0) winewu=winewu+(xwine*scwineq2*2) .
if (scwineq3>0) winewu=winewu+(xwine*scwineq3*3) .
if (scwineq4>0) winewu=winewu+(xwine*scwineq4*9) .
formats winewu (f2.1).

COMPUTE popswu=0.
*CAPI variables .
if (popsly11>0) popswu=popswu+(xpops*popsq111*1.5).
if (popsly12>0) popswu=popswu+(xpops*popsq112*1.5).
if (popsly13>0) popswu=popswu+(xpops*popsq113*3).
*self-comp variables .
if (scpopsq1>0) popswu=popswu+(xpops*scpopsq1*3).
if (scpopsq2>0) popswu=popswu+(xpops*scpopsq2*1.5).
if (scpopsq3>0) popswu=popswu+(xpops*scpopsq3*1.5).
formats popswu (f2.1).
format nbeerwu sbeerwu spirwu sherwu winewu popswu (F3.2).
VARIABLE LABELS
   nbeerwu "(D) Units of normal beer/week"
   sbeerwu "(D) Units of strong beer/week"
   spirwu "(D) Units of spirits/week"
   sherwu "(D) Units of sherry/week"
   winewu "(D) Units of wine/week"
   popswu "(D) Units of alcopops/week".
add value labels nbeerwu sbeerwu spirwu sherwu winewu popswu
-9 "Refused/not answered" -8 "Don't know" -1 "Item not applicable".
```

TOTALWU: (D) Total unit so of alcohol/week

SPSS Syntax

```
COMPUTE totalwu=0.
IF (nbeerwu>0) totalwu=totalwu+nbeerwu.
IF (sbeerwu>0) totalwu=totalwu+sbeerwu.
IF (spirwu>0) totalwu=totalwu+spirwu.
IF (sherwu>0) totalwu=totalwu+sherwu.
IF (winewu>0) totalwu=totalwu+winewu.
IF (popswu>0) totalwu=totalwu+popswu.
IF ANY(-9,nbeerwu,sbeerwu,spirwu,sherwu,winewu,popswu) totalwu=-9.
IF ANY(-8,nbeerwu,sbeerwu,spirwu,sherwu,winewu,popswu) totalwu=-8.
IF ANY(-1,nbeerwu,sbeerwu,spirwu,sherwu,winewu,popswu) totalwu=-1.
IF age<16 totalwu=-1.
VARIABLE LABELS totalwu "(D) Total units of alcohol/week".
value label totalwu -9 "Refused/not answered" -8 "Don't know" -1 "Item not applicable".
```

TOTALWUG: (D) Total units of alcohol per week grouped

0 None drinker/ not in last 12 months
1 Non-zero, but under 1
2 1-7
3 Over 7-10
4 Over 10-14
5 Over 14-21
6 Over 21-28
7 Over 28-35
8 Over 35-50
9 Over 50

TOTALWUG2: (D) Alcohol units per week grouped

0 Non-drinker/ did not drink at all in the last 12 months
1 Over 0, under 14
2 Over 14-21
3 Over 21-35
4 Over 35-50
5 Over 50

SPSS Syntax

```
compute totalwug=alcbase.
if range(alcbase,1,3) totalwug=0 .
if alcbase>3 totalwug=alcbase-3.
if dnoft=8 totalwug=0 .
VARIABLE LABELS totalwug "(D) Alcohol units per week grouped".
VALUE LABELS totalwug
  0 "Non-drinker/not in last 12 months"   1 "Non-zero, but under 1"
  2 "1-7"   3 "Over 7-10"    4 "Over 10-14"   5 "Over 14-21"   6 "Over 21-28"   7 "Over 28-35"  8 "Over
35-50"   9 "Over 50".
```

TOTALWUG215: (D) Alcohol units per week - risk groups (new guidelines for men)

0 Non drinker/not in last 12 months
1 Lower risk (up to 14 units)
2 Increased risk (14-50/14-35)
3 Higher risk (more than 50/35)

SPSS Syntax

```
compute totalwug215 = -99 .
if (totalwug <= 0) totalwug215 = totalwug .
if sex = 1 & range(totalwug, 1, 4) totalwug215 = 1 .
if sex = 1 & range(totalwug, 5, 8) totalwug215 = 2 .
if sex = 1 & totalwug = 9 totalwug215 = 3 .
if sex = 2 & range(totalwug, 1, 4) totalwug215 = 1 .
if sex = 2 & range(totalwug, 5, 7) totalwug215 = 2 .
if sex = 2 & range(totalwug,8, 9) totalwug215 = 3 .
var lab totalwug215 '(D) Alcohol units per week - risk groups (new guidelines for men)' .
add val lab totalwug215 -1 "Not applicable" -2 "Schedule not applicable" -8 "Don't know" -9 "Refused" 0
'Non drinker/not in last 12 months' 1 'Lower risk (up to14 units)'
  2 'Increased risk (14-50/14-35)'
  3 'Higher risk (more than 50/35)' .
```

ALCBASE: (D) Alcohol consumption rating units/week

0 Never drank
1 Ex-drinker
2 Trivial drinker
3 Non-zero, but under 1
4 1-7
5 Over 7-10
6 Over 10-14
7 Over 14-21
8 Over 21-28
9 Over 28-35
10 Over 35-50
11 Over 50

SPSS Syntax

```
RECODE totalwu (0=3) (0 thru 0.5=4)(0.5 thru 7=5) (7 thru 10=6) (10 thru 14=7) (14 thru 21=8)
 (21 thru 28=9)( 28 thru 35=10) (35 thru 50=11)(50 thru hi=12) INTO alcbase.
exe.
RECODE dnevr(1=1)(2=2) INTO alcbase.
IF ANY(-9,totalwu,dnnow,dnany,dnevr) alcbase=-9.
IF ANY(-8,totalwu,dnnow,dnany,dnevr) alcbase=-8.
IF ANY(-1,totalwu,dnnow) alcbase=-1.
VARIABLE LABELS alcbase "(D) Alcohol consumption rating units/week".
VALUE LABELS alcbase   1 "Never drank"    2 "Ex-drinker"    3 "Trivial drinker"   4 "Non-zero, but under"
  5 "1-7"   6 "Over 7-10"    7 "Over 10-14"   8 "Over 14-21"   9 "Over 21-28"   10 "Over 28-35"   11 "Over
35-50"   12 "Over 50" -9 "Refused/not answered"  -8 "Don't know" -1 "Item not applicable".
```

ALCBSMT: (D) Alcohol consumption: men

1 Never drunk alcohol
2 Ex-drinker
3 Under 1 per week
4 Over 1-10
5 Over 10-21
6 Over 21-35
7 Over 35-50
8 Over 50 units per week

SPSS Syntax

```
DO IF (sex=1).
RECODE alcbase (1=1)(2=2)(3 thru 4=3)(5 thru 6=4)(7 thru 8=5)(9 thru 10=6)
  (11=7)(12=8)(lo thru -1=COPY) INTO alcbsmt .

END IF .
IF (sex=2) alcbsmt=-1 .
VARIABLE LABELS alcbsmt "(D) Alcohol consumption: men" .
VALUE LABELS alcbsmt
  1 'Never drunk alcohol'
  2 'Ex-drinker'
  3 'Under 1 per week'
  4 'Over 1-10'
  5 'Over 10-21'
  6 'Over 21-35'
  7 "Over 35-50"
  8 'Over 50 units per week'.
```

ALCBSMT15: (D) Alcohol consumption: men – new guidelines[2]

1 Never drunk alcohol
2 Ex-drinker
3 Under 1 per week
4 Over 1-7
5 Over 7-14
6 Over 14-35
7 Over 35-50
8 Over 50 units per week

SPSS Syntax

```
DO IF (sex=1).
RECODE alcbase (1=1)(2=2)(3 thru 4=3)(5=4)(6 thru 7=5)(8 thru 10=6)
  (11=7)(12=8)(lo thru -1=COPY) INTO alcbsmt15.
END IF .
IF (sex=2) alcbsmt15=-1 .
VARIABLE LABELS alcbsmt15 "(D) Alcohol consumption: men - new guidelines" .
VALUE LABELS alcbsmt15
  1 'Never drunk alcohol'
  2 'Ex-drinker'
  3 'Under 1 per week'
  4 'Over 1-10'
  5 'Over 10-21'
  6 'Over 21-35'
  7 "Over 35-50"
  8 'Over 50 units per week'.
```

ALCBSWT: (D) Alcohol consumption: women

1 Never drunk alcohol
2 Ex-drinker
3 Under 1 per week
4 Over 1-7
5 Over 7-14
6 Over 14-21
7 Over 21-35
8 Over 35

SPSS Syntax

```
DO IF (sex=2).
RECODE alcbase (1=1)(2=2)(3 thru 4=3)(5=4)(6 thru 7=5)(8=6)(9 thru 10=7)
  (11 thru 12=8)(lo thru -1=COPY) INTO alcbswt .
END IF .
IF (sex=1) alcbswt=-1 .
VARIABLE LABELS alcbswt "(D) Alcohol consumption: women" .
VALUE LABELS alcbswt
  1 'Never drunk alcohol'
  2 'Ex-drinker'
  3 'Under 1 per week'
  4 'Over 1-7'
  5 'Over 7-14'
  6 'Over 14-21'
  7 "Over 21-35"
  8 'Over 35'.
```

MENWUG: (D) Weekly alcohol consumption: men

0 Non-drinker/not in the last 12 months
1 Under 1 per week
2 Over 1-10
3 Over 10-21
4 Over 21-35
5 Over 35-50
6 Over 50 units per week

SPSS Syntax

```
DO IF (sex=1).
RECODE totalwug (0=0) (1 =1) (2 thru 3=2 ) (4 thru 5=3) (6 thru 7=4)  (8=5) (9=6) (else=COPY) INTO menwug
IF (sex=2) menwug=-1
END IF .
VARIABLE LABELS menwug "(D) Weekly alcohol consumption: men" .
VALUE LABELS menwug
  0 'Non-drinker/not in last 12 months'
  1 'Under 1 per week'
  2 'Over 1-10'
  3 'Over 10-21'
  4 'Over 21-35'
  5 "Over 35-50"   6 'Over 50 units per week'.
```

2 The derived variables for drinking were revised in HSE 2015 to reflect the revised drinking guidelines for men. These amended variables are suffixed with a '15'

MENWUG15: (D) Weekly alcohol consumption: men - new guidelines

0 Non-drinker/not in the last 12 months
1 Under 1 per week
2 Over 1-7
3 Over 7-14
4 Over 14-35
5 Over 35-50
6 Over 50 units per week

SPSS Syntax

```
DO IF (sex=1).
RECODE totalwug (0=0) (1 =1) (2=2 ) (3 thru 4=3) (5 thru 7=4)  (8=5) (9=6) (else=COPY) INTO menwug15
IF (sex=2) menwug15=-1
END IF .
VARIABLE LABELS menwug15 "(D) Weekly alcohol consumption: men - new guidelines" .
VALUE LABELS menwug15
  0 'Non-drinker/not in last 12 months'
  1 'Under 1 per week'
  2 'Over 1-10'
  3 'Over 10-21'
  4 'Over 21-35'
  5 "Over 35-50"
  6 'Over 50 units per week'.
```

MENWUGg2: (D) Weekly alcohol consumption for men, 3 groups

1 None/ up to 21 units
2 21-50
3 More than 50 units

SPSS Syntax

```
COMPUTE MenWUGg2=-99.
RECODE MenWug (0 thru 3=1)(4 thru 5=2)(6=3)(else=copy) into MenWUGg2.
VARIABLE LABELS MenWUGg2 "(D) Weekly alcohol consumption for men, 3 groups".
VALUE LABELS MenWUGg2
-1 'Not applicable'
-8 "Don't know"
-9 'Refuse'
 1 'None/Up to 21 units'
 2 '21-50'
 3 'More than 50 units'.
```

MENWUGg215: (D) Weekly alcohol consumption for me, 3 groups – new guidelines

1 None/ up to 14 units
2 14-50
3 More than 50 units

SPSS Syntax

```
COMPUTE MenWUGg215=-99.
RECODE MenWug15 (0 thru 3=1)(4 thru 5=2)(6=3)(else=copy) into MenWUGg215.
VARIABLE LABELS MenWUGg215 "(D) Weekly alcohol consumption for men, 3 groups - new guidelines".
VALUE LABELS MenWUGg215
-1 'Not applicable'
-8 "Don't know"
-9 'Refuse'
 1 'None/Up to 14 units'
 2 '14-50'
 3 'More than 50 units'.
```

WOMENWUG: (D) Weekly alcohol consumption: women

0 Non-drinker/not in the last 12 months
1 Under 1 per week
2 Over 1-7
3 Over 7-14
4 Over 14-21
5 Over 21-35
6 Over 35

SPSS Syntax

```
DO IF (sex=2).
RECODE totalwug (0=0) (1=1) (2=2) (3 thru 4=3) (5=4) (6 thru 7=5) (8 thru 9=6) (else=COPY) INTO womenwug .
END IF .
IF (sex=1) womenwug=-1 .
VARIABLE LABELS womenwug "(D) Weekly alcohol consumption: women" .
VALUE LABELS womenwug
  0 'Non-drinker/not in last 12 months'
  1 'Under 1 per week'
  2 'Over 1-7'
  3 'Over 7-14'
  4 'Over 14-21'   5 "Over 21-35"   6 'Over 35'.
```

WOMENWUGg2: (D) Weekly alcohol consumption for women, 3 groups

1 None/ up to 14 units
2 14-35
3 More than 35 units

SPSS Syntax

```
COMPUTE WomenWUGg2=-99.
RECODE WomenWug  (0 thru 3=1) (4 thru 5=2) (6=3) (else=copy) into WomenWUGg2.
VARIABLE LABELS WomenWUGg2 "(D) Weekly alcohol consumption for Women, 3 groups".
VALUE LABELS WomenWUGg2
-1 'Not applicable'
-8 "Don't know"
-9 'Refused'  1 'None/Up to 14 units'  2 '14-35'  3 'More than 35 units'.
```

Children 8-15

AEVDRINK: (D) Ever had a proper alcoholic drink, including alcopops (age 8-12, 13-15)

1 Yes
2 No

SPSS Syntax

```
compute aevdrink = adrprop.
IF adrpops = 1 aevdrink = 1.
variable labels aevdrink '(D) Ever had proper alcoholic drink, including alcopops (age 8-12, 13-15)'.
add value labels aevdrink 1 'Yes' 2 'No' -1 'Item not applicable' -9 'No answer/refused'.
```

Children 13-15

ADRKWQ08[3]: (D) Total units of alcohol in last 7 days (13-15yrs)

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

```
exe. COMPUTE adrkwq08= 0 .
RECODE adrlast(-2=-2)(-9=-1)(-6=-6) INTO adrkwq08.
IF age>15 or age<13 adrkwq08=-2.
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 LABELS adrkwq08 "(D) Total units of alcohol in last 7 days (13-15yrs)".
formats adrkwq08 (F2.1).
add value labels adrkwq08 -2 'Schedule not applicable (aged<13 or >15)'.
```

ADRKWQ08G: (D) Total units of alcohol in last 7 days (grouped) (13-15yrs)

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

SPSS syntax

```
missing values adrkwq08 ().
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.
IF adrkwq08>=4 and adrkwq08<6 adrkwq08g=4.
```

[3] 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>=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 - grouped (13-15yrs)".
val lab adrkwq08g
-2 'Schedule not applicable (aged<13 or >15)'
-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".
```

ABER2WC: (D) Drunk beer in last 7 days - inc. non-drinkers (13-15)
ASPIRWC: (D) Drunk spirits in last 7 days - inc. non-drinkers (13-15)
ASHERWC: (D) Drunk sherry in last 7 days - inc. non-drinkers (13-15)
AWINEWC: (D) Drunk wine in last 7 days - inc. non-drinkers (13-15)
APOPSWC: (D) Drunk alcopops in last 7 days - inc. non-drinkers (13-15)

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

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 (13-15)"
  /aspirwc "(D) Drunk spirits in last 7 days - inc. non-drinkers (13-15)"
  /asherwc "(D) Drunk sherry in last 7 days - inc. non-drinkers (13-15)"
  /awinewc "(D) Drunk wine in last 7 days - inc. non-drinkers (13-15)"
  /apopswc "(D) Drunk alcopops in last 7 days - inc. non-drinkers (13-15)".
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".
```

Fruit and vegetable consumption

Fruit and vegetable consumption

PORLGE: (D) Large portion

SPSS Syntax

```
COMPUTE porlge=0.
DO REPEAT xxx=frtc01 frtc02 frtc03 frtc04 frtc05 frtc06 frtc07 frtc08 frtc09 frtc10 frtc11
  /yyy=frtq01 frtq02 frtq03 frtq04 frtq05 frtq06 frtq07 frtq08 frtq09 frtq10 frtq11.
IF (xxx=2 & yyy>0) porlge=porlge+yyy*2.
END REPEAT.
```

PORSML: (D) Small portion

SPSS Syntax

```
COMPUTE porsml=0.
DO REPEAT xxx=frtc01 frtc02 frtc03 frtc04 frtc05 frtc06 frtc07 frtc08 frtc09 frtc10 frtc11
  /yyy=frtq01 frtq02 frtq03 frtq04 frtq05 frtq06 frtq07 frtq08 frtq09 frtq10 frtq11.
IF (xxx=4 & yyy>0) | (xxx=5 & yyy>0) porsml=porsml+yyy/2.
```

POROTH: (D) Other portion

SPSS Syntax

```
COMPUTE poroth=0.
DO REPEAT xxx=frtc01 frtc02 frtc03 frtc04 frtc05 frtc06 frtc07 frtc08 frtc09 frtc10 frtc11
  /yyy=frtq01 frtq02 frtq03 frtq04 frtq05 frtq06 frtq07 frtq08 frtq09 frtq10 frtq11.
IF (xxx=1 & yyy>0) | (xxx=3 & yyy>0) poroth=poroth+yyy.
END REPEAT.
```

PORPUL: (D) Portion of pulses

SPSS Syntax

```
COMPUTE porpul=0.
IF (vegpul=1 & vegpulq>0) porpul=vegpulq/3.
IF porpul>1 porpul=1.
IF ANY(vegpul,-9,-8) | ANY(vegpulq,-9,-8) porpul=-9.
```

PORSAL: (D) Portion of salad

SPSS Syntax

```
COMPUTE porsal=0.
IF (vegsal=1 & vegsalq>0) porsal=vegsalq.
IF ANY(vegsal,-9,-8) | ANY(vegsalq,-9,-8) porsal=-9.
```

PORVEG: (D) Portion of vegetables

SPSS Syntax

```
COMPUTE porveg=0.
IF (vegveg=1 & vegvegq>0) porveg=vegvegq/3.
IF ANY(vegveg,-9,-8) | ANY(vegvegq,-9,-8) porveg=-9.
```

PORVDISH: (D) Portion of vegetables in composites

SPSS Syntax

```
COMPUTE porvdish=0.
IF (vegdish=1 & vegdishq>0) porvdish=vegdishq/3.
IF ANY(vegdish,-9,-8) | ANY(vegdishq,-9,-8) porvdish=-9.
```

PORJUICE: (D) Portion of fruit juice

SPSS Syntax

```
COMPUTE porjuice=0.
IF (frtdrnk=1 & frtdrnkq>0) porjuice=frtdrnkq.
IF porjuice>1 porjuice=1.
IF ANY(frtdrnk,-9,-8) | ANY(frtdrnkq,-9,-8) porjuice=-9.
```

PORFRT: (D) Portion of all sized fruit

SPSS Syntax

```
COMPUTE porfrt=porlge+porsml+poroth.
IF ANY(frt,-9,-8) porfrt=-9.
```

PORDRY: (D) Portion of dried fruit

SPSS Syntax

```
COMPUTE pordry=0.
IF (frtdry=1 & frtdryq>0) pordry=frtdryq.
IF pordry>1 pordry=1.
IF ANY(frtdry,-9,-8) | ANY(frtdryq,-9,-8) pordry=-9.
```

PORFRZ15: (D) Portion of frozen fruit[4]

SPSS Syntax

```
COMPUTE porfroz=0.
IF (frtfrz15=1 & frtfrzq15>0) porfrz15=frtfrzq15/3.
IF ANY(frtfrz15,-9,-8) | ANY(frtfrzq15,-9,-8) porfrz15=-9.
```

PORTIND: (D) Portion of canned fruit

SPSS Syntax

```
COMPUTE portind = 0.
IF (FrtTin =1 and FrtTinQ >0) portind =  FrtTinQ/3.
```

PORFDISH: (D) Portion of fruit in composites

SPSS Syntax

```
COMPUTE porfdish=0.
IF (frtdish=1 & frtdishq>0) porfdish=frtdishq/3.
IF ANY(frtdish,-9,-8) | ANY(frtdishq,-9,-8) porfdish=-9.
```

VEGPOR: (D) Total portion of vegetables (inc. salad)

SPSS Syntax

```
COMPUTE vegpor=porpul+porsal+porveg+porvdish.
IF porsal=-9 & porpul=-9 & porveg=-9 & porvdish=-9 vegpor=-9.
```

FRTPOR15: (D) Total portion of fruit

SPSS Syntax

```
COMPUTE frtpor=porjuice+porfrt+pordry+porfrz15+porfdish.
IF porjuice=-9 & pordry=-9 & porfrz15=-9 & porfdish=-9 & porfrt=-9 frtpor=-9.
```

PORFV15: (D) Total portion of fruit and veg

SPSS Syntax

```
COMPUTE porfv=vegpor+frtpor15.
IF vegpor=-9 & frtpor15=-9 porfv=-9.
```

PORFTVG15: (D) Grouped portions of fruit (inc. orange juice) & veg yesterday

0 None
1 Less than 1 portion
2 1 portions 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

SPSS Syntax

```
RECODE porfv15 (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) (else=copy) into porftvg15.
VARIABLE LABELS  porftvg15 "(D) Grouped portions of fruit (inc.orange juice) & veg yesterday" .
VALUE LABELS porftvg15
  0 "None"
```

[4] The questions on frozen fruit and tinned fruit were separated in HSE 2015. Variables in the dataset are suffixed with '15' to indicate the change and derived variables have been amended accordingly

```
  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".
```

VEGYN: (D) Any vegetables? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porveg (0=0)(0 thru hi = 1) (else=copy) into VegYN.
VARIABLE LABELS VegYN "(D) Any vegetables? (binary)".
VALUE LABELS VegYN
0 "None"
1 "Yes".
```

VDISHYN: (D) Any vegetables in composites? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porvdish (0=0)(0 thru hi = 1) (else=copy) into VDishYN.
VARIABLE LABELS vdishyn "(D) Any vegetables in composites? (binary)".
VALUE LABELS VDishYN
0 "None"
1 "Yes".
```

FRTYN: (D) Any fresh fruit? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porfrt (0=0)(0 thru hi = 1) (else=copy) into FrtYn.
VARIABLE LABELS FrtYN "(D) Any fresh fruit? (binary)".
VALUE LABELS FrtYN
0 "None"
1 "Yes".
```

FDISHYN: (D) Any fruit in composites? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porfdish (0=0)(0 thru hi = 1) (else=copy) into fdishYN.
VARIABLE LABELS fdishYN "(D) Any fruit in composites? (binary)".
VALUE LABELS fdishYN
0 "None"
1 "Yes".
```

DRYYN:(D) Any dried fruit? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Pordry (0=0)(0 thru hi = 1) (else=copy) into DryYN.
VARIABLE LABELS DryYN "(D) Any dried fruit? (binary)".
VALUE LABELS dryYN
0 "None"
1 "Yes".
```

FRZYN15: (D) Any frozen fruit? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porfroz (0=0)(0 thru hi = 1)(else=copy) into frozYN.
VARIABLE LABELS FrozYN "(D) Any frozen fruit? (binary)".
VALUE LABELS frozYN
0 "None"
1 "Yes".
```

TINYN: (D) Any canned fruit? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE portind (0=0)(0 thru hi = 1)(else=copy) into TinYN.
VARIABLE LABELS TinYN "(D) Any canned fruit? (binary)".
VALUE LABELS TinYN  -1 "Item not applicable" -9 "Refused/ not answered"
0 "None"
1 "Yes".
```

PULYN: (D) Any pulses? (binary)

2 None
3 Yes

SPSS Syntax

```
RECODE Porpul (0=0)(0 thru hi = 1) (else=copy) into PulYN.
VARIABLE LABELS PulYN "(D) Any pulses? (binary)".
VALUE LABELS PulYN
0 "None"
1 "Yes".
```

JUICEYN: (D) Any fruit juice? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porjuice (0=0)(0 thru hi = 1) (else=copy) into juiceYN.
VARIABLE LABELS juiceyn "(D) Any fruit juice? (binary)".
VALUE LABELS juiceyn
0 "None"
1 "Yes".
```

SALYN: (D) Any salad? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE Porsal (0=0)(0 thru hi = 1) (else=copy) into SalYN.
VARIABLE LABELS salyn "(D) Any salad? (binary)".
VALUE LABELS salyn
0 "None"
1 "Yes".
```

FVYN15: (D) Any fruit and vegetables? (binary)

0 None
1 Yes

SPSS Syntax

```
RECODE PorFV15 (0=0)(0 thru hi = 1) (else=copy) into FVyn15.
VARIABLE LABELS FVyn15 "(D) Any fruit and vegetables? (binary)".
VALUE LABELS FVyn15
0 "None"
1 "Yes".
```

PORFV05b: (D) Portions of fruit and vegetables consumed, 6 groups – capped 5+

0 None
1 Less than 1
2 1 portion or more but less than 2
3 2 portions or more but less then 3
4 3 portions or more but less than 4
5 4 portions or more but less than 5
6 5 portions or more

SPSS Syntax

```
RECODE PorFtVg15 (7,8,9=6) (else=copy) into PorFV05b.
VARIABLE LABELS PorFV05b "(D) Portions of fruit and vegetables consumed, 6 groups - capped at 5+".
VALUE LABELS PorFV05b
-9 "No answer/refused"
-1 "Not applicable"
 0 "None"
 1 "Less than 1"
 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".
```

VEGTYN: (D) Any vegetables eaten, incl salad, excl pulses? (binary)

0 None
1 Yes

SPSS Syntax

```
COMPUTE VegtYN=-99.
IF range(age,0,4) VegtYN=-1.
IF (PorSal>0 | PorVeg>0 | PorVdish>0) VegtYN=1 .
IF (PorSal=0 & PorVeg=0 & PorVdish=0) VegtYN=0.
IF VegtYN=-99 & (any(0, PorSal, PorVeg, PorVdish) | any(-9, PorSal, PorVeg, PorVdish)) VegtYN=-9.
VARIABLE LABELS VegtYN "(D) Any vegetables eaten, incl salad, excl pulses? (binary)".
VALUE LABELS VegtYN
0 "None"
1 "Yes".
```

VEGTYN2: (D) Any vegetables eaten, excl salad & pulses? (binary)

0 None
1 Yes

SPSS Syntax

```
COMPUTE VegtYN2=-99.
IF RANGE(age,0,4) VegtYN2=-1.
IF (PorVeg>0 | PorVdish>0) VegtYN2=1 .
IF (PorVeg=0 & PorVdish=0) VegtYN2=0.
IF VegtYN2=-99 & (any(0, PorVeg, PorVdish) | any(-9,PorVeg, PorVdish)) VegtYN2=-9.
VARIABLE LABELS VegtYN2 "(D) Any vegetables eaten, excl salad & pulses? (binary)".
VALUE LABELS VegtYN2
0 "None"
1 "Yes".
```

FRTTYN15: (D) Any fruit eaten? (Fruit, dry, canned, frozen composites, incl juice, (binary))

0 None
1 Yes

SPSS Syntax

```
COMPUTE FrttYN15=-99.
IF RANGE(age,0,4) FrttYN15=-1.
IF (PorFRT>0 | PorDRY>0 | PorFRz15>0 | Portind>0 | PorFDish>0 | PorJuice>0)  FrttYN15=1 .
IF (PorFRT=0 & PorDRY=0 & PorFRz15=0 & Portind=0 & PorFDish=0 & PorJuice=0)  FrttYN15=0 .
IF FrttYN15=-99 & (ANY(0, PorFRT, PorDRY, PorFRz15, Portind, PorFDish, PorJuice) | ANY(-9, PorFRT, PorDRY,
PorFRz15, Portind, PorFDish, PorJuice)) FrttYN15=-9 .
VARIABLE LABELS FrttYN15 "(D) Any fruit eaten? (Fruit, dry, canned, frozen composites, incl juice
(binary))".
VALUE LABELS FrttYN15
0 "None"
1 "Yes".
```

FRTTYN2b: (D) Any fruit eaten? (Fruit, dry, canned, frozen composites excl juice, (binary))

0 None
1 Yes

SPSS Syntax

```
COMPUTE FrttYN2b=-99.
IF RANGE(age,0,4) FrttYN2b=-1.
IF (PorFRT>0 | PorDRY>0 | PorFRz15>0 | Portind>0 | PorFDish>0)  FrttYN2b=1 .
IF (PorFRT=0 & PorDRY=0 & PorFRz15=0 & Portind=0 & PorFDish=0)  FrttYN2b=0 .
IF FrttYN2b=-99 & (ANY(0, PorFRT, PorDRY, PorFRz15, Portind,  PorFDish) | ANY(-9, PorFRT, PorDRY,
PorFRz15, Portind, PorFDish)) FrttYN2b=-9 .
VARIABLE LABELS FrttYN2b "(D) Any fruit eaten? (Fruit, dry, canned, frozen composites excl juice,
(binary))".
VALUE LABELS FrttYN2b
0 "None"
1 "Yes".
```

General Health

General Health

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'.
```

Mentald: (D) Mental disorder as longlasting illness - 16+

1 No longlasting illness
2 Limiting or non-limiting longlasting illness but no mental disorder
3 Mental disorder

SPSS Syntax

```
numeric mentald (F3).
compute mentald=-11.
if (limlast=3) mentald=1.
if (limlast=1|limlast=2) & (complst3=0) mentald=2.
if (limlast=1|limlast=2) & (complst3=1) mentald=3.
if limlast=-9 mentald=-9.
if limlast=-8 mentald=-8.
if age lt 16 mentald=-1.
var label mentald "(D) Mental disorder as longlasting illness - 16+".
val labels mentald
-8 "Don't know"
-1 "Not applicable"
1 "No longlasting illness"
2 "Limiting or non-limiting longlasting illness but no mental disorder"
3 "Mental disorder".
exe.
```

General Wellbeing

LIFESATG:(D) Overall, how satisfied with life nowadays - grouped

1 Low (0-4)
2 Medium (5-6)
3 High (7-8)
4 Very high (9-10)

SPSS Syntax

```
Numeric LifeSatG (F3).
recode scSatis (0 thru 4 = 1) (5 thru 6 = 2) (7 thru 8 = 3) (9 thru 10 = 4) (else = copy) into LifeSatG.
variable labels LifeSatG "(D) Overall, how satisfied with life nowadays - grouped".
add value labels LifeSatG
   -1 "Not applicable"
-8 "Don't know"
-9 "Refused"
   1 "Low (0-4)"
   2 "Medium (5-6)"
   3 "High (7-8)"
   4 "Very high (9-10)".
```

EQ-5D

BESTHEALTH3: (D) 11111 health status in 3 groups

1 No problems (11111)
2 Slight or moderate but not severe
3 At least one severe problem

SPSS Syntax

```
Numeric BestHealth3 (F2.0).
compute BESTHEALTH3=2.
if (Mobil17=1) & (Selfca17=1) & (UsualA17=1) & (Pain17=1) & (Anxiet17=1) BESTHEALTH3=1.
if any(-9, Mobil17, Selfca17, UsualA17, Pain17, Anxiet17) BESTHEALTH3=-9.
if any(-8, Mobil17, Selfca17, UsualA17, Pain17, Anxiet17) BESTHEALTH3=-8.
if any(-1, Mobil17, Selfca17, UsualA17, Pain17, Anxiet17) BESTHEALTH3=-1.
if any(Mobil17,4,5)|any(Selfca17,4,5)|any(UsualA17,4,5)|any(Pain17,4,5)|any(Anxiet17,4,5) BESTHEALTH3=3.
variable labels BESTHEALTH3 "(D) 11111 health status in 3 groups".
 value labels BESTHEALTH3
-1 "Not applicable" -8 "Don't know" -9 "Refused"  1 "No problems (11111)" 2 "Slight or moderate but not
severe" 3 "At least one severe problem".
```

Long Lasting Illness

LIMLAST: (D) Limiting longstanding illness

1 Limiting longlasting illness
2 Non limiting longlasting illness
3 No longlasting illness

SPSS Syntax

```
RECODE Ill12m (1=2) (2=3) (ELSE=COPY) INTO limlast.
IF range(ReducAct,1,2) limlast=1.
IF ReducAct=3 limlast=2.
IF ReducAct=-8 limlast=-8.
VARIABLE LABEL limlast '(D) Limiting longlasting illness'.
VALUE LABLES limlast
  1 'Limiting longlasting illness'
  2 'Non limiting longlasting illness'
  3 'No longlasting illness'.
```

COMPLST1: (D) II Neoplasms & benign growths
COMPLST2: (D) III Endocrine & metabolic
COMPLST3: (D) V Mental disorders
COMPLST4: (D) VI Nervous System
COMPLST5: (D) VI Eye complaints
COMPLST6: (D) VI Ear complaints
COMPLST7: (D) VII Heart & circulatory system
COMPLST8: (D) VIII Respiratory system
COMPLST9: (D) IX Digestive system
COMPLST10: (D) X Genito-urinary system
COMPLST11: (D) XII Skin complaints
COMPLST12: (D) XIII Musculoskeletal system
COMPLST13: (D) I Infectious Disease
COMPLST14: (D) IV Blood & related organs
COMPLST15: (D) Other complaints
COMPLST17: (D) No long-standing illness
COMPLST18: (D) No longer present
COMPLST99: (D) Unclass/NLP/inadeq.describe

0 No condition present
1 Has condition

All variables in the COMPLST series have the same value labels

SPSS Syntax

```
DO REPEAT xcompl=complst1 complst2 complst3 complst4 complst5 complst6 complst7 complst8
 complst9 complst10 complst11 complst12 complst13 complst14 complst15 complst17 complst18.
```

```
COMPUTE xcompl=0.
IF Ill12m<0 xcompl=-9.
END REPEAT.
DO REPEAT xill12=Ill12M1 Ill12M2 Ill12M3 Ill12M4 Ill12M5 Ill12M6.
IF xill12=1 complst1=1.
IF (RANGE(xill12,2,3)) complst2=1.
IF (RANGE(xill12,4,5)) complst3=1.
IF (RANGE(xill12,6,8)) complst4=1.
IF (RANGE(xill12,9,10)) complst5=1.
IF (RANGE(xill12,11,14)) complst6=1.
IF (RANGE(xill12,15,21)) complst7=1.
IF (RANGE(xill12,22,25)) complst8=1.
IF (RANGE(xill12,26,29)) complst9=1.
IF (RANGE(xill12,30,33)) complst10=1.
IF xill12=39 complst11=1.
IF (RANGE(xill12,34,36)) complst12=1.
IF xill12=37 complst13=1.
IF xill12=38 complst14=1.
IF xill12=40 complst15=1.
IF (Ill12m=1 & xill12=42) complst18 = 1 .
END REPEAT.
IF (Ill12m = 2) complst17 = 1.
COMPUTE complst99 = 0 .
IF (Ill12m = 1 & ANY(ill12m1,41,42,-1,-8,-9)) complst99 = 1 .
IF (Ill12m<0) complst99 = -9.
VARIABLE LABELS complst1 '(D) II Neoplasms & benign growths'
 /complst2 '(D) III Endocrine & metabolic'
 /complst3 '(D) V Mental disorders'
 /complst4 '(D) VI Nervous system'
 /complst5 '(D) VI Eye complaints'
 /complst6 '(D) VI Ear complaints'
 /complst7 '(D) VII Heart & circulatory system'
 /complst8 '(D) VIII Respiratory system'
 /complst9 '(D) IX Digestive system'
 /complst10 '(D) X Genito-urinary system'
 /complst11 '(D) XII Skin complaints'
 /complst12 '(D) XIII Musculoskeletal system'
 /complst13 '(D) I Infectious disease'
 /complst14 '(D) IV Blood & related organs'
 /complst15 '(D) Other complaints'
 /complst17 "(D) No longlasting illness"
 /complst18 "(D) No longer present"
 /complst99 "(D) Unclass/NLP/inadeq.describe" .
VALUE LABELS complst1 TO complst99
  0 'No condition present'
  1 'Has condition'.
```

CONDLCNT: (D) Number of grouped condition categories

0 No LS illness

SPSS Syntax

```
IF Ill12m=2 condlcnt=0 .
DO IF Ill12m=1.
COUNT condlcnt=complst1 TO complst15 (1) .
END IF.
IF (Ill12m = 1 & (Ill12M1 = 41 | Ill12M1<0)) condlcnt = 1 .
IF Ill12m<0 condlcnt=-9 .
VARIABLE LABEL condlcnt "(D) Number of grouped condition categories" .
VALUE LABELS condlcnt
   0 'No longlasting illness'.
```

CONDLCNT2: (D) Number of grouped conditions - 4 plus

0 No LS illness

4 4 or more

SPSS Syntax

```
RECODE condlcnt (4 thru hi=4)(ELSE=COPY) INTO condlcnt2.
VARIABLE LABEL condlcnt2 "(D) Number of grouped conditions - 4 plus" .
VALUE LABELS condlcnt2
  0 'No longlasting illness'
  4 '4 or more'.
```

ILLMORE1: (D) Number of longstanding illnesses grouped

0 No longstanding illnesses

1 One longstanding illness

2 Two or more longstanding illnesses

SPSS Syntax

```
Numeric illmore1 (F2.0).
compute illmore1=-999.
if condlcnt=0 illmore1=0.
if condlcnt=1 illmore1=1.
if condlcnt=2 illmore1=2.
```

```
if condlcnt=3 illmore1=2.
if condlcnt=4 illmore1=2.
if condlcnt=5 illmore1=2.
if condlcnt=6 illmore1=2.
if condlcnt<0 illmore1=condlcnt.
variable labels illmore1 "(D) Number of longstanding illnesses grouped".
value labels illmore1
0 "No longstanding illnesses"
1 "One longstanding illness"
2 "Two or more longstanding illnesses".
```

Prescribed Medicines: Drugs affecting blood analytes

DIUR2: (D) Diuretics (Blood pressure)
BETA2: (D) Beta blockers (Blood pressure/Fibrinogen)
ACEINH2: (D) Ace inhibitors (Blood pressure) {revised}
CALCIUMB2: (D) Calcium blockers (Blood pressure) {revised}
OBPDRUG2: (D) Other drugs affecting BP {revised}
LIPID2: (D) Lipid lowering (Cholesterol/Fibrinogen) – prescribed {revised}
IRON2: (D) Iron deficiency (Haemoglobin/Ferritin) {revised}
BPMEDC2: (D) Whether taking drugs affecting blood pressure {revised}
BPMEDD2: (D) Whether taking drugs prescribed for blood pressure {revised}
ANTIPLAM2: (D) Antiplatlets prescribed (binary)
ANALGM2: (D) Analgesics prescribed (binary)
PROTONM2: (D) Proton pump inhibitors prescribed (binary)
ANTIDEPM2: (D) Antidepressants prescribed (binary)
COPDM2: (D) Asthma or COPD prescribed (binary)
ANTIDIABM2: (D) Antidiabetic prescribed (binary)
ANTIBACM2: (D) Antibacterial medications prescribed (binary)

0 Not taking drug
1 Taking drug

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

SPSS Syntax

```
DO REPEAT xxdrug2=diur2 beta2 aceinh2 calciumb2 obpdrug2 lipid2 iron2 bpmedc2 bpmedd2 antiplaM2 analgM2
protonM2 antidepM2 COPDM2 antidiabM2 antibacM2.
COMPUTE xxdrug2=0.
RECODE medcnjd(-9 thru -1=COPY) INTO xxdrug2.
END REPEAT.
DO REPEAT xxcode2=medbi01 medbi02 medbi03 medbi04 medbi05 medbi06 medbi07 medbi08 medbi09 medbi10
 medbi11 medbi12 medbi13 medbi14 medbi15 medbi16 medbi17 medbi18 medbi19 medbi20 medbi21 medbi22.
IF xxcode2=0 diur2=-9.
IF xxcode2=0 beta2=-9.
IF xxcode2=0 aceinh2 =-9.
IF xxcode2=0 calciumb2 =-9.
IF xxcode2=0 iron2 =-9.
IF xxcode2=0 lipid2 =-9.
IF xxcode2=0 obpdrug2 =-9.
IF xxcode2=0 bpmedc2=-9.
IF xxcode2=0 bpmedd2=-9.
IF xxcode2=0 antiplaM2 =-9.
IF xxcode2=0 analgM2 =-9.
IF xxcode2=0 protonM2 =-9.
IF xxcode2=0 antidepM2 =-9.
IF xxcode2=0 COPM2 =-9.
IF xxcode2=0 antidiabM2=-9.
IF xxcode2=0 antibacM2=-9.
END REPEAT.
DO REPEAT xxcode2=medbi01 medbi02 medbi03 medbi04 medbi05 medbi06 medbi07 medbi08 medbi09 medbi10
 medbi11 medbi12 medbi13 medbi14 medbi15 medbi16 medbi17 medbi18 medbi19 medbi20 medbi21 medbi22.
IF RANGE(xxcode2,20201,20208) diur2=1.
IF xxcode2=20400 beta2=1.
IF RANGE(xxcode2, 020551, 020553) aceinh2=1.
IF xxcode2=20602 calciumb2=1.
IF ANY(xxcode2,20501,20502,20503,20504) obpdrug2=1.
IF ANY(xxcode2,21200, 21201, 21202) lipid2=1.
IF xxcode2=90101 iron2=1.
IF xxcode2=20900 antiplaM2=1.
IF ANY(xxcode2, 100101,40701,40702,40703,40704,100302) analgM2=1.
```

```
IF xxcode2=10305  protonM2=1.
IF ANY(xxcode2, 40301,40302,40303,40304) antidepM2=1.
IF ANY(xxcode2, 30101,30102,30103,30104,30200,30301,30302,30303,30600) COPDM2=1.
IF ANY(xxcode2, 60101,60102,60121,60122,60123) antidiabM2=1.
IF ANY(xxcode2, 50101,50102,50103,50104,50105,50106,50107,50108,50109,50110,50111,50112,50113)
antibacM2=1.
END REPEAT.
IF ANY(1,diur2,beta2,aceinh2,calciumb2,obpdrug2) bpmedc2=1.
COUNT xbpdrug2=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,diur2,beta2,aceinh2,calciumb2,obpdrug2) & xbpdrug2>0 bpmedd2=1.
EXECUTE.
VARIABLE LABELS diur2 "(D) Diuretics prescribed (Blood pressure) {revised}".
VARIABLE LABELS beta2 "(D) Beta blockers prescribed (Blood pressure/Fibrinogen) {revised}".
VARIABLE LABELS aceinh2 "(D) Ace inhibitors prescribed (Blood pressure) {revised}".
VARIABLE LABELS calciumb2 "(D) Calcium blockers prescribed (Blood pressure) {revised}".
VARIABLE LABELS obpdrug2 "(D) Other prescribed drugs affecting BP {revised}".
VARIABLE LABELS lipid2 "(D) Lipid lowering (Cholesterol/Fibrinogen) prescribed {revised}".
VARIABLE LABELS iron2 "(D) Iron deficiency (Haemoglobin/Ferritin) prescribed {revised}".
VARIABLE LABELS bpmedc2 "(D) Whether taking drugs affecting blood pressure {revised}".
VARIABLE LABELS bpmedd2 "(D) Whether taking drugs prescribed for blood pressure {revised}".
VARIABLE LABELS AntiPlaM2 "(D) Antiplatlets prescribed (binary)".
VARIABLE LABELS AnalgM2 "(D) Analgesics prescribed (binary)".
VARIABLE LABELS ProtonM2 "(D) Proton pump inhibitors prescribed (binary)".
VARIABLE LABELS AntiDepM2 "(D) Antidepressants prescribed (binary)".
VARIABLE LABELS COPDM2 "(D) Asthma or COPD  prescribed (binary)".
VARIABLE LABELS AntiDiabM2 "(D) Antidiabetic prescribed (binary)".
VARIABLE LABELS AntiBacM2 "(D) Antibacterial medications prescribed (binary)".
VALUE LABELS diur2 beta2 aceinh2 calciumb2 obpdrug2 lipid2 iron2 bpmedc2 bpmedd2 AntiPlaM2 AnalgM2
ProtonM2 AntidepM2 COPDM2 AntidiabM2 AntibacM2     0 'Not taking drug'     1 'Taking drug'..
```

Prescribed Medicines: General

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

1 Yes
2 No
3 Yes, but unable to code as name of drug(s) not available

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 LABELS medcnj "(D) Whether taking medication - excluding contraceptives only" .
VALUE LABELS medcnj   1 'Yes'  2 'No'      3 'Yes, but unable to code as name of drug(s) not available'.
```

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?
MEDTYP14: (D) Contraceptives taken?

0 No
1 Yes

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

SPSS Syntax

```
DO REPEAT xtyp = medtyp1 TO medtyp14.
COMPUTE xtyp=0.
```

```
RECODE medcnj (2=0)(-9 thru -1=COPY) INTO xtyp.
END REPEAT.
DO REPEAT xmed= medbi01 medbi02 medbi03 medbi04 medbi05 medbi06 medbi07 medbi08 medbi09 medbi10
 medbi11 medbi12 medbi13 medbi14 medbi15 medbi16 medbi17 medbi18 medbi19 medbi20 medbi21 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,40101,41100)) 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,70300,70305)) medtyp14 = 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,110101,110802,120101,120305)) medtyp11 = 1.
IF (RANGE(xmed,130100,131400)) medtyp12 = 1.
END REPEAT.
VARIABLE LABELS
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 or immunosuppressive 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?'
medtyp14 '(D) Contraception taken?' .
VALUE LABELS medtyp1 TO medtyp14    0 'No'     1 'Yes'.
```

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

0 Doesn't take prescribed meds
4 Four or more

SPSS Syntax

```
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'.
```

MEDSNUMG8: (D) Grouped number of prescribed medications reported- incl contraceptives & nicotine dependency drugs

0 None taken
1 1
2 2
3 3
4 4
5 5
6 6
7 7
8 8 or more medications perscribed

SPSS Syntax

```
Recode MedsNum (8 thru hi=8) (ELSE=COPY) INTO MedsNumG8.
VARIABLE LABELS MedsNumG8 "(D) Grouped number of prescribed medications reported- incl contraceptives &
nicotine dependency drugs".
VALUE LABELS MedsNumG8
 -1 "Not applicable"
-8 "Don't know/Refused"
0 "None prescribed"
1 "1"
2 "2"
3 "3"
4 "4"
5 "5"
6 "6"
7 "7"
8 "8 or more medications prescribed".
```

MEDSNUM2G8: (D) Grouped number of prescribed medications reported (8 groups) - excl contraceptives & nicotine dependency drugs

0 None taken
1 1
2 2
3 3
4 4
5 5
6 6
7 7
8 8 or more medications perscribed

SPSS Syntax

```
Recode MedsNum2 (8 thru hi=8) (ELSE=COPY) INTO MedsNum2G8.
EXECUTE.
VARIABLE LABELS MedsNum2G8 "(D) Grouped number of prescribed medications reported (8 groups) - excl
contraceptives & nicotine dependency drugs ".
VALUE LABELS MedsNum2G8
 -1 "Not applicable"
 -8 "Don't know/Refused"
  0 "None prescribed"   1 "1"    2 "2"   3 "3"   4 "4"  5 "5"   6 "6"   7 "7"   8 "8 or more medications
prescribed".
```

MEDSTAKG8: (D) Grouped number of prescribed medications taken (8 groups)- incl contraceptives & nicotine dependency drugs

0 None taken
1 1 medications taken
2 2 medications taken
3 3 medications taken
4 4 medications taken
5 5 medications taken
6 6 medications taken
7 7 medications taken
8 8 or more medications taken

SPSS Syntax

```
NUMERIC MedsTakG8 (F3.0).
Recode MedsTak (8 thru hi=8) (ELSE=COPY) INTO MedsTakG8.
EXECUTE.
VARIABLE LABELS MedsTakG8 "(D) Grouped number of prescribed medications taken (8 groups)- incl
contraceptives & nicotine dependency drugs".
VALUE LABELS MedsTakG8
 -1 "Not applicable"
 -8 "Don't know/Refused"
  0 "None taken"
 1 "1 medication taken"
 2 "2 medications taken"
 3 "3 medications taken"
 4 "4 medications taken"
 5 "5 medications taken"
 6 "6 medications taken"
 7 "7 medications taken"
 8 "8 or more medications taken".
```

MEDSTAK2G8: (D) Number of prescribed medications taken in last 7 days (8 groups), excl contraceptives & nicotine dependency

0 None taken/only contaceptives or Nicotine dependency meds taken
1 1 medication taken
2 2 medications taken
3 3 medications taken
4 4 medications taken
5 5 medications taken
6 6 medications taken
7 7 medications taken
8 8 or more medications taken.

SPSS Syntax

```
NUMERIC MedsTak2g8 (F3.0).
RECODE  MedsTak2 (0 THRU 8=COPY) (9 THRU HI=8)(ELSE=COPY) INTO MedsTak2g8.
VARIABLE LABELS MedsTak2g8 "(D) Number of prescribed medications taken in last 7 days (8 groups), excl
contraceptives & nicotine dependency".
VALUE LABELS MedsTak2g8 -8 "Don't know" -1 "Not applicable"
 0 "None taken/only contaceptives or Nicotine dependency meds taken"
 1 "1 medication taken"
 2 "2 medications taken"
 3 "3 medications taken"
 4 "4 medications taken"
```

```
 5 "5 medications taken"
 6 "6 medications taken"
 7 "7 medications taken"
 8 "8 or more medications taken".
```

CARDIOTAKG2: (D) Any prescribed cardiovascular medications taken in last 7 days (binary)

0 No
1 Yes,at least one.

SPSS Syntax

```
NUMERIC CardioTakg2 (F3.0).
RECODE CardioTak (2 THRU HI=1)(ELSE=COPY) INTO CardioTakg2.
VARIABLE LABELS CardioTakg2 "(D) Any prescribed cardiovascular medications taken in last 7 days (binary)".
VALUE LABELS CardioTakg2
-8 "Don't know" -1 "Not applicable"  0 "No"  1 "Yes,at least one".
```

HYPERTAKG2: (D) Any prescribed antihypertensives taken in last 7 days, if has hypertension (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC HyperTakg2 (F3.0).
RECODE HyperTak (2 THRU HI=1)(ELSE=COPY) INTO HyperTakg2.
VARIABLE LABELS HyperTakg2 "(D) Any prescribed antihypertensives taken in last 7 days, if has hypertension
(binary)".
VALUE LABELS HyperTakg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

LIPIDTAKG2: (D) Any prescribed lipid-lowering medications taken in last 7 days, (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC LipidTakg2 (F3.0).
RECODE LipidTak (2 THRU HI=1)(ELSE=COPY) INTO LipidTakg2.
VARIABLE LABELS LipidTakg2 "(D) Any prescribed lipid-lowering medications taken in last 7 days, (binary)".
VALUE LABELS LipidTakg2
-8 "Don't know" -1 "Not applicable"   0 "No"  1 "Yes,at least one".
```

ANTIPLATAKG2: (D) Any prescribed antiplatlets taken in last 7 days, (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC AntiPlaTakg2 (F3.0).
RECODE AntiPlaTak (2 THRU HI=1)(ELSE=COPY) INTO AntiPlaTakg2.
VARIABLE LABELS AntiPlaTakg2 "(D) Any prescribed antiplatlets taken in last 7 days, (binary)".
VALUE LABELS AntiPlaTakg2
-8 "Don't know" -1 "Not applicable"  0 "No"  1 "Yes,at least one".
```

ANALGTAKG2: (D) Any prescribed analgesics taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC AnalgTakg2 (F3.0).
RECODE AnalgTak (2 THRU HI=1)(ELSE=COPY) INTO AnalgTakg2.
VARIABLE LABELS AnalgTakg2 "(D) Any prescribed analgesics taken in last 7 days (binary)".
VALUE LABELS AnalgTakg2
-8 "Don't know"
-1 "Not applicable"  0 "No"
 1 "Yes,at least one".
```

PROTONTAKG2: (D) Any prescribed proton pump inhibitors taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC ProtonTakg2 (F3.0).
RECODE ProtonTak (2 THRU HI=1)(ELSE=COPY) INTO ProtonTakg2.
VARIABLE LABELS ProtonTakg2 "(D) Any prescribed proton pump inhibitors taken in last 7 days (binary)".
VALUE LABELS ProtonTakg2 -8 "Don't know" -1 "Not applicable"  0 "No"  1 "Yes,at least one".
```

ANTIDEPTAKG2: (D) Any antidepressants taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC AntiDepTakg2 (F3.0).
RECODE AntiDepTak (2 THRU HI=1)(ELSE=COPY) INTO AntiDepTakg2.
VARIABLE LABELS AntiDepTakg2 "(D) Any antidepressants taken in last 7 days (binary)".
VALUE LABELS AntiDepTakg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

COPDTAKG2: (D) Any prescribed asthma or COPD medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC COPDTakg2 (F3.0).
RECODE COPDTak (2 THRU HI=1)(ELSE=COPY) INTO COPDTakg2.
VARIABLE LABELS COPDTakg2 "(D) Any prescribed asthma or COPD medications taken in last 7 days (binary)".
VALUE LABELS COPDTakg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

ANTIDIABTAKG2: (D) Any prescribed antidiabetic medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC AntiDiabTakg2 (F3.0).
RECODE AntiDiabTak (2 THRU HI=1)(ELSE=COPY) INTO AntiDiabTakg2.
VARIABLE LABELS AntiDiabTakg2 "(D) Any prescribed antidiabetic medications taken in last 7 days (binary)".
VALUE LABELS AntiDiabTakg2
-8 "Don't know" -1 "Not applicable"   0 "No"  1 "Yes,at least one".
```

ANTIBACTAKG2: (D) Any prescribed antibacterial medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC AntiBacTakg2 (F3.0).
RECODE AntiBacTak (2 THRU HI=1)(ELSE=COPY) INTO AntiBacTakg2.
VARIABLE LABELS AntiBacTakg2 "(D) Any prescribed antibacterial medications taken in last 7 days (binary)".
VALUE LABELS AntiBacTakg2 -8 "Don't know" -1 "Not applicable"   0 "No"  1 "Yes,at least one".
```

DIURTAKg2: (D) Any prescribed diuretic medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC  DIURTAKg2 (F3).
RECODE DIURTAK (2 THRU HI=1)(ELSE=COPY) INTO DIURTAKg2.
VARIABLE LABELS DIURTAKg2 "(D) Any prescribed diuretic medications taken in last 7 days (binary)".
VALUE LABELS DIURTAKg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

NSAIDTAKg2: (D) Any prescribed NSAIDs medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC NSAIDTAKg2 (F3.0).
RECODE NSAIDTAK (2 THRU HI=1)(ELSE=COPY) INTO NSAIDTAKg2.
VARIABLE LABELS NSAIDTAKg2 "(D) Any prescribed NSAIDs medications taken in last 7 days (binary)".
VALUE LABELS NSAIDTAKg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

ACETAKg2: (D) Any prescribed ACE medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC ACETAKg2 (F3.0).
RECODE ACETAK (2 THRU HI=1)(ELSE=COPY) INTO ACETAKg2.
VARIABLE LABELS ACETAKg2 "(D) Any prescribed ACE medications taken in last 7 days (binary)".
VALUE LABELS ACETAKg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

METFORTAKg2: (D) Any prescribed Metformin medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC METFORTAKg2 (F3.0).
RECODE METFORTAK (2 THRU HI=1)(ELSE=COPY) INTO METFORTAKg2.
VARIABLE LABELS METFORTAKg2 "(D) Any prescribed Metformin medications taken in last 7 days (binary)".
VALUE LABELS METFORTAKg2
-8 "Don't know" -1 "Not applicable"   0 "No"  1 "Yes,at least one".
```

ANTIPSYTAKg2: (D) Any prescribed Antipsychotic medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC ANTIPSYTAKg2 (F3.0).
RECODE ANTIPSYTAK (2 THRU HI=1)(ELSE=COPY) INTO ANTIPSYTAKg2.
VARIABLE LABELS ANTIPSYTAKg2 "(D) Any prescribed Antipsychotic medications taken in last 7 days (binary)".
VALUE LABELS ANTIPSYTAKg2
-8 "Don't know" -1 "Not applicable"
 0 "No"  1 "Yes,at least one".
```

HYPNOTAKg2: (D) Any prescribed Hypnotics medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC HYPNOTAKg2 (F3.0).
RECODE   HYPNOTAK  (2 THRU HI=1)(ELSE=COPY) INTO  HYPNOTAKg2.
VARIABLE LABELS   HYPNOTAKg2 "(D) Any prescribed Hypnotics medications taken in last 7 days (binary)".
VALUE LABELS   HYPNOTAKg2 -8 "Don't know" -1 "Not applicable"  0 "No" 1 "Yes,at least one".
```

MENHTAKg2: (D) Any prescribed mental health medications taken in last 7 days (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC  MENHTAKg2 (F3.0).
RECODE   MENHTAK  (2 THRU HI=1)(ELSE=COPY) INTO   MENHTAKg2.
VARIABLE LABELS   MENHTAKg2 "(D) Any prescribed mental health medications taken in last 7 days (binary)".
VALUE LABELS   MENHTAKg2
-8 "Don't know"
-1 "Not applicable"
 0 "No"
 1 "Yes,at least one".
```

HyperATakg2: (D) Any prescribed antiHyperAtensives taken in last 7 days regardless of Hypertension (binary)

0 No
1 Yes,at least one

SPSS Syntax

```
NUMERIC HyperATakg2 (F2).
RECODE HyperATak (2 THRU HI=1)(ELSE=COPY) INTO HyperATakg2.
VARIABLE LABELS HyperATakg2 "(D) Any prescribed antiHyperAtensives taken in last 7 days regardless of
Hypertension (binary)".
VALUE LABELS HyperATakg2
-8 "Don't know" -1 "Not applicable" 0 "No" 1 "Yes,at least one".
```

Antiplatelet2: (D) Number of antiplatelet meds in last 7 days (grouped)

0 0
1 1+

SPSS Syntax

```
RECODE antiplatelet (0=0)(1 thru hi=1) (lo thru -1=COPY) INTO antiplatelet2.
var label antiplatelet2 "(D) Number of antiplatelet meds in last 7 days (grouped)".
val labels antiplatelet2
-8 "Don't know"
-1 "Not applicable"
0 "0"
1 "1+".
```

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'.
```

GENHELF4: (D) Self-assessed general health – four categories

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

SPSS Syntax

```
recode Genhelf (1=1)(2=2)(3=3)(4=4)(5=4)(-1=-1) (-8=-8) (-9=-9) into GenHelf4.
var lab GenHelf4 '(D) Self reported health - four categories'.
val lab GenHelf4
 1 'Very good'  2 'Good'  3 'Fair' 4 'Bad/very bad' -1 'Not applicable' -8 "Don't know" -9 "Refused".
```

Chronic Pain

IMPACTP2: (D) IMPACTP re-coded to Graded Chronic Pain Scale categories

SPSS Syntax

```
recode IMPACTP (0=0) (1=1) (2=2) (3=3) (4=4) (5=5) (6=6) (7=7) (8,9=8) (10=9) (11=10) (ELSE=COPY) INTO
IMPACTP2.
exe.
variable labels IMPACTP2 '(D) IMPACTP re-coded to Graded Chronic Pain Scale categories'.
```

CPI: (D) Characteristic Pain Intensity

SPSS Syntax

```
* Characteristic pain intensity.

compute CPI=-1.
do if (painnow>=0 and worstp>=0 and usualp>=0).
compute CPI=painnow+worstp+usualp.
end if.
variable labels CPI '(D) Characteristic Pain Intensity'.
```

FIDS: (D) Four-Item Disability Score

SPSS Syntax

```
compute FIDS=-1.
do if (dailyp>=0 and socialp>=0 and workp>=0 and impactp2>=0).
compute FIDS=dailyp+socialp+workp+impactp2.
end if.
exe.
variable labels FIDS '(D) Four-Item Disability Score'.
```

TIDS: (D) Two-Item Disability Score

SPSS Syntax

```
compute TIDS=-1.
do if (dailyp>=0 and impactp2>=0).
compute TIDS=dailyp+impactp2.
end if.
variable labels TIDS '(D) Two-Item Disability Score'.
```

PainGrade1: (D) Chronic Pain Grade based on GCPS Version 2.0

0 Grade 0
1 Grade I - Low intensity
2 Grade II - High intensity
3 Grade III - Moderately limiting
4 Grade IV - Severely limiting

SPSS Syntax

```
compute PainGrade1=-5.
if CPI>=0 and CPI<15 and FIDS>=0 and FIDS<17 PainGrade1=1.
if CPI>=15 and FIDS<17 PainGrade1=2.
if FIDS>=17 and FIDS<=24 PainGrade1=3.
if FIDS>=25 PainGrade1=4.
exe.
variable labels PainGrade1 '(D) Chronic Pain Grade based on GCPS Version 2.0'.
value labels PainGrade1 -1 'Not applicable' 0 'Grade 0 ' 1 'Grade I - Low intensity' 2 'Grade II - High
intensity' 3 'Grade III - Moderately limiting'  4 'Grade IV - Severely limiting'.
```

PainGrade2: (D) Chronic Pain Grade based on 3-item GCP-PCS

0 Grade 0
1 Grade I - Low intensity
2 Grade II - High intensity
3 Grade III - Moderately limiting
4 Grade IV - Severely limiting

SPSS Syntax

```
compute PainGrade2=-5.
*if usualp=0 and TIDS=0 PainGrade2=0.
*if usualp=0 and TIDS>=1 and TIDS<9 PainGrade2=1.
*if usualp>=1 and usualp<5 and TIDS<9 PainGrade2=1.
if usualp>=0 and usualp<5 and TIDS>=0 and TIDS<9 PainGrade2=1.
if CPI>=5 and TIDS<9 PainGrade2=2.
if TIDS>=9 and TIDS<=12 PainGrade2=3.
```

```
if TIDS>=13 PainGrade2=4.
exe.
variable labels PainGrade2 '(D) Chronic Pain Grade based on 3-item GCP-PCS'.
value labels PainGrade2 -1 'Not applicable' 0 'Grade 0 ' 1 'Grade I - Low intensity' 2 'Grade II - High
intensity' 3 'Grade III - Moderately limiting'  4 'Grade IV - Severely limiting'.
```

More3mtot: (D) Currently have pain or discomfort for more than 3 months total population

4 Yes
5 No

SPSS Syntax

```
Numeric More3mtot (F8).
IF  (AnyPain  = 1 AND More3m=1) More3mtot=1.
IF  (AnyPain  = 2 OR More3m=2) More3mtot=2.
if any(-8, Anypain, More3m) More3mtot = -8.
if any(-9, Anypain, More3m) More3mtot = -9.
if age lt 16 More3mtot = -1.
Variable labels More3mtot  '(D) Currently have pain or discomfort for more than 3 months total
population'.
Value labels  More3mtot -9 "Refused"  -8 "Don't know" -1 "Not applicable" 1 "Yes" 2 "No".
```

pain3m: (D) Any pain for 3+ months

0 No
1 Yes: pain for 3+ months

SPSS Syntax

```
Numeric pain3m (F3).
compute pain3m=-11.
if (anypain=2)|(anypain=1 & more3m=2) pain3m=0.
if (anypain=1 & more3m=1) pain3m=1.
if any(-9,anypain,more3m) pain3m=-9.
if any(-8,anypain,more3m) pain3m=-8.
if any(-1,anypain) pain3m=-1.
var label pain3m "(D) Any pain for 3+ months".
val labels pain3m -9 "Refused"  -8 "Don't know" -1 "Not applicable"
0 "No" 1 "Yes: pain for 3+ months".
```

Cardiovascular disease

CVD General

cvddef: (D) Had cardiovascular condition

1 Yes
2 No

cvddef2: (D) Had cardiovascular condition {revised}

1 Yes
2 No

cvddef1: (D) Had cardiovascular condition (excluding diabetes/high BP)

1 Yes
2 No

cvddef3: (D) Had cardiovascular condition (excluding diabetes/high BP) {revised}

1 Yes
2 No

SPSS Syntax

```
* cvddef.
IF (ANY(2,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef=2.
IF (ANY(1,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef=1.
IF (ANY(-9,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef=-9.
IF (ANY(-8,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef=-8.
if samptype=2 and age>=65 cvddef=-1.
if age<=15 cvddef=-1.
VARIABLE LABELS cvddef "(D) Had cardiovascular condition".
VALUE LABELS cvddef 1 "Yes" 2 "No".

* CVDDEF2

IF (ANY(2,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef2=2.
IF (ANY(-9,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef2=-9.
IF (ANY(-8,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef2=-8.
IF (ANY(1,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,
  strodef)) cvddef2=1.
if samptype=2 and age>=65 cvddef2=-1.
if age<=15 cvddef2=-1.
VARIABLE LABELS cvddef2 "(D) Had cardiovascular condition {revised}".
VALUE LABELS cvddef2 1 "Yes" 2 "No".

* CVDDEF1

**cvd without diabetes and high BP.
IF (ANY(2,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef1=2.
IF (ANY(1,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef1=1.
IF (ANY(-9,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef1=-9.
IF (ANY(-8,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef1=-8.
if samptype=2 and age>=65 cvddef1=-1.
if age<=15 cvddef1=-1.
VARIABLE LABELS cvddef1 "(D) Had cardiovascular condition (excluding diabetes/high BP)".
VALUE LABELS cvddef1 1 "Yes" 2 "No".

* cvddef3

IF (ANY(2,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef3=2.
IF (ANY(-9,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef3=-9.
IF (ANY(-8,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef3=-8.
IF (ANY(1,murmur1,angidef,heartdef,iregdef,ohtdef,
strodef)) cvddef3=1.
if samptype=2 and age>=65 cvddef3=-1.
if age<=15 cvddef3=-1.
VARIABLE LABELS cvddef3 "(D) Had cardiovascular condition (excluding diabetes/high BP) {revised}".
VALUE LABELS cvddef3 1 "Yes" 2 "No".
```

Nobpcvd: (D) Had CVD: excludes those with high BP
Nobpcvd2: (D) Had CVD: excludes those with high BP {revised}

1 Yes
2 No

SPSS Syntax

```
** nobpcvd.
IF (ANY(2,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd=2.
IF (ANY(1,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd=1.
IF (ANY(-9,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd=-9.
IF (ANY(-8,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd=-8.
if samptype=2 and age>=65 nobpcvd=-1.
if age<=15 nobpcvd=-1.
VARIABLE LABELS nobpcvd "(D) Had CVD: excludes those with high BP".
VALUE LABELS nobpcvd 1 "Yes" 2 "No".
freq nobpcvd.

*** Revised derivation

IF (ANY(2,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd2=2.
IF (ANY(-9,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd2=-9.
IF (ANY(-8,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd2=-8.
IF (ANY(1,murmur1,diabete2,angidef,heartdef,iregdef,ohtdef,
  strodef)) nobpcvd2=1.
if samptype=2 and age>=65 nobpcvd2=-1.
if age<=15 nobpcvd2=-1.
VARIABLE LABELS nobpcvd2 "(D) Had CVD: excludes those with high BP {revised}".
VALUE LABELS nobpcvd2 1 "Yes" 2 "No".
```

cvdiahydd: (D) IHD/stroke or HT/DM or none (doctor-diagnosed)

1 IHD or stroke
2 HT or DM but no IHD/stroke
3 None of these

cvdiahydd2: (D) CVD or HT/DM or none (doctor-diagnosed)

1 CVD
2 HT or DM but no IHD/stroke
3 None of these

SPSS Syntax

```
numeric  cvdiahydd (F3).
compute cvdiahydd=-5.
if cvdis=1 cvdiahydd=1.
DO IF cvdis=2.
IF (diabete2=1)|(bp1=1) cvdiahydd=2.
end if.
if cvdis=2 and diabete2=2 and bp1=2 cvdiahydd=3.
if (cvdis=-8 or cvdis=-9) and cvdiahydd=-5 cvdiahydd=cvdis.
if (diabete2=-8 or diabete2=-9) and cvdiahydd=-5 cvdiahydd=diabete2.
if (bp1<0) and cvdiahydd=-5 cvdiahydd=bp1.
recode cvdiahydd (-5=-1).
Var label cvdiahydd "(D) IHD/stroke or HT/DM or none (doctor-diagnosed)".
Val label cvdiahydd -1 'Not applicable' -8 "Don't know"
 -9 'Refusal' 1 "IHD or stroke" 2 "HT or DM but no IHD/stroke" 3 "None of these".


Numeric cvdiahydd2  (f8).
compute cvdiahydd2 =-5.
if cvddef1=1 cvdiahydd2 =1.
DO IF cvddef1=2.
IF (diabete2=1)|(bp1=1) cvdiahydd2 =2.
end if.
if cvddef1=2 and diabete2=2 and bp1=2 cvdiahydd2 =3.
if any(-8, diabete2, cvddef1, bp1) cvdiahydd2 = -8.
if cvddef1 = -1 cvdiahydd2 =-1.
exe.
Var label cvdiahydd2  "(D) CVD or HT/DM or none (doctor-diagnosed)".
Val label cvdiahydd2  -1 'Not applicable' -8 "Don't know"
 -9 'Refusal' 1 "CVD" 2 "HT or DM but no CVD" 3 "None of these".
EXECUTE.
```

cvdis: (D) Had CVD (Angina, Heart Attack or Stroke)
cvdis2: (D) Had CVD (Angina, Heart Attack or Stroke) {revised}

1 Yes
2 No

SPSS Syntax

```
*** cvdis.
IF (ANY(2,angidef,heartdef,strodef)) cvdis=2.
IF (ANY(1,angidef,heartdef,strodef)) cvdis=1.
IF (ANY(-9,angidef,heartdef,strodef)) cvdis=-9.
IF (ANY(-8,angidef,heartdef,strodef)) cvdis=-8.
if samptype=2 and age>=65 cvdis=-1.
if age<=15 cvdis=-1.
VARIABLE LABELS cvdis "(D) Had CVD (Angina, Heart Attack or Stroke)".
VALUE LABELS cvdis 1 "Yes" 2 "No".
fre cvdis.

*** Revised derivation

IF (ANY(2,angidef,heartdef,strodef)) cvdis2=2.
IF (ANY(-9,angidef,heartdef,strodef)) cvdis2=-9.
IF (ANY(-8,angidef,heartdef,strodef)) cvdis2=-8.
IF (ANY(1,angidef,heartdef,strodef)) cvdis2=1.
if samptype=2 and age>=65 cvdis2=-1.
if age<=15 cvdis2=-1.
VARIABLE LABELS cvdis2 "(D) Had CVD (Angina, Heart Attack or Stroke) {revised}".
VALUE LABELS cvdis2 1 "Yes" 2 "No".
```

cvd3a: (D) CVD measure of severity (hierarchy)

0 No CVD
1 Only murmur, irregular heart rhythm or other heart trouble
2 High BP or diabetes only
3 Angina only
4 Heart attack or stroke

SPSS Syntax

```
compute cvd3a = -9.
if  (heartdef=2 & strodef=2 & angidef=2 & bp1=2 & diabete2=2 & murmur1=2 & iregdef=2 & ohtdef=2) cvd3a=0.
if (murmur1=1 | docoht=1 | docireg=1) cvd3a=1.
if (bp1=1 | diabete2=1) cvd3a=2.
if docangi =1 cvd3a=3.
if (docheart=1 | docstro=1) cvd3a=4.
if samptype=2 and age>=65 cvd3a=-1.
if age<=15 cvd3a=-1.
value labels cvd3a
 0 'No CVD'
 1 'Only murmur, irregular heart rhythm or other heart trouble'
 2 'High BP or diabetes only'
 3 'Angina only'
 4 'Heart attack or stroke'.
variable label cvd3a '(D) CVD measure of severity (hierarchy)'.
```

padsympt: (D) Symptoms suggestive of Peripheral Arterial Disease (PAD)

1 No symptoms
2 Less severe
3 More severe

padsymptg2: (D) Symptoms suggestive of PAD, grouped

1 No symptoms
2 Any symptoms

SPSS Syntax

```
Numeric padsympt (F8).
compute padsympt=1.
if (wherep1=1) & (walkleg=1) & (still=2) & (stansit=2) & (levelpac=2) padsympt=2.
if (wherep1=1) & (levelpac=1) & (still=2) & (stansit=2) padsympt=3.
if (walkleg=3) & (levelpac=2|levelpac=3) padsympt=-1.
if any(-9,legpain,wherep1,walkleg,still,stansit,levelpac) padsympt=-1.
if any(-8,legpain,wherep1,levelpac,still,stansit,levelpac) padsympt=-1.
variable label padsympt "(D) Symptoms suggestive of Peripheral Arterial Disease (PAD)".
val labels padsympt
-1 "Not applicable" 1 "No symptoms"  2 "Less severe" 3 "More severe".
* padsymptg2

Numeric padsymptg2 (F8).
recode padsympt (1=1) (2=2) (3=2) (else=copy) into padsymptg2.
VARIABLE LABELS padsymptg2 "(D) Symptoms suggestive of PAD, grouped".
val labels  padsymptg2 -1 "Not applicable" 1 "No symptoms" 2 "Any symptoms".
```

Angina

angidef: (D) Doctor diagnosed angina

1 Yes
2 No

SPSS Syntax

```
RECODE docangi (-1=2)(else=copy) into angidef.
if samptype=2 and age>=65 angidef=-1.
if age<=15 angidef=-1.
VARIABLE LABELS angidef "(D) Doctor diagnosed angina".
VALUE LABELS angidef 1 "Yes" 2 "No".
```

Blood Pressure

BP1: (D) Doctor diagnosed high blood pressure (excluding pregnant)

1 Yes
2 No

SPSS Syntax

```
RECODE docbp (-9 thru -2=COPY) (1=1) (2=2) (-1=2) INTO bp1.
IF (sex=2 & othbp=2) bp1=2.
IF (ANY(-9,docbp,pregbp,othbp)) bp1=-9.
IF (ANY(-8,docbp,pregbp,othbp)) bp1=-8.
VARIABLE LABEL bp1 "(D) Doctor diagnosed high blood pressure (excluding pregnant)".
VALUE LABELS bp1
   1 "Yes"
   2 "No".
```

IHD and Stroke

heartdef: (D) Doctor diagnosed heart attack
strodef: (D) Doctor diagnosed stroke

1 Yes
2 No

SPSS Syntax

```
RECODE docheart (-1=2)(else=copy) into heartdef.
if samptype=2 and age>=65 heartdef=-1.
if age<=15 heartdef=-1.
VARIABLE LABELS heartdef "(D) Doctor diagnosed heart attack".
VALUE LABELS heartdef 1 "Yes" 2 "No".

RECODE docstro (-1=2)(else=copy) into strodef.
if samptype=2 and age>=65 strodef=-1.
if age<=15 strodef=-1.
VARIABLE LABELS strodef "(D) Doctor diagnosed stroke".
VALUE LABELS strodef 1 "Yes" 2 "No".
```

Stroihd: (D) Doctor Diagnosed IHD or stroke

1 Yes
2 No

SPSS Syntax

```
Numeric Stroihd (F8).
compute stroihd=ihdis.
IF (strodef=1) stroihd=1.
IF (ihdis=2) and (strodef<0) stroihd = strodef.
Var label stroihd "(D) Doctor Diagnosed IHD or stroke".
Val label stroihd 1 "Yes" 2 "No" -1 "Not applicable".
EXECUTE.
```

ihdis: (D) Had IHD (Angina or Heart Attack)
ihdis2: (D) Had IHD (Angina or Heart Attack) {revised}

1 Yes
2 No

SPSS Syntax

```
*** ihdis.
IF (ANY(2,angidef,heartdef)) ihdis=2.
IF (ANY(1,angidef,heartdef)) ihdis=1.
IF (ANY(-9,angidef,heartdef)) ihdis=-9.
IF (ANY(-8,angidef,heartdef)) ihdis=-8.
if samptype=2 and age>=65 ihdis=-1.
if age<=15 ihdis=-1.
VARIABLE LABELS ihdis "(D) Had IHD (Angina or Heart Attack)".
VALUE LABELS ihdis 1 "Yes" 2 "No".
freq ihdis.

*** Revised derivation

IF (ANY(2,angidef,heartdef)) ihdis2=2.
IF (ANY(-9,angidef,heartdef)) ihdis2=-9.
IF (ANY(-8,angidef,heartdef)) ihdis2=-8.
IF (ANY(1,angidef,heartdef)) ihdis2=1.
if samptype=2 and age>=65 ihdis2=-1.
if age<=15 ihdis2=-1.
VARIABLE LABELS ihdis2 "(D) Had IHD (Angina or Heart Attack) {revised}".
VALUE LABELS ihdis2 1 "Yes" 2 "No".
```

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 LABELS diabete2 "(D) Doctor diagnosed diabetes (excluding pregnant)".
VALUE LABELS diabete2    1 "Yes"     2 "No".
```

DIABETE2R: (D) Doctor diagnosed diabetes (excluding pregnant) {revised}

1 Yes
2 No

SPSS Syntax

```
RECODE diabetes (-9 thru -2=COPY) (1=1) (2=2) (-1=2) INTO diabete2r.
IF (sex=2 & dioth=2) diabete2r=2.
IF (ANY(-9,diabetes,dipreg)) diabete2r=-9.
IF (ANY(-8,diabetes,dipreg)) diabete2r=-8.
IF everdi<0 diabete2r=everdi.
if age<=15 diabete2r=-1.
VARIABLE LABELS diabete2r "(D) Doctor diagnosed diabetes (excluding pregnant) {revised}".
VALUE LABELS diabete2r    1 "Yes"     2 "No".
```

DIABTYPE: (D) Type of diabetes

1 Diagnosed aged 35+ and/or not treated with insulin
2 Not diabetic
3 Diagnosed before the age of 35 and treated with insulin

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 'Diagnosed aged 35+ and/or not treated with insulin'
 2 'Not diabetic'  3 'Diagnosed before the age of 35 and treated with insulin'.
```

DIABTYPER: (D) Type of diabetes {revised}

1 Diagnosed aged 35+ and/or not treated with insulin
2 Not diabetic
3 Diagnosed before the age of 35 and treated with insulin

SPSS Syntax

```
RECODE diabete2r (ELSE=Copy) INTO diabtyper.
DO IF (diage<35 and insulin=1).
RECODE diabtyper (1=3) .
END IF.
VARIABLE LABELS diabtyper '(D) Type of diabetes {revised}'.
VALUE LABELS diabtyper
 1 'Diagnosed aged 35+ and/or not treated with insulin'   2 'Not diabetic'
 3 'Diagnosed before the age of 35 and treated with insulin'.
```

DIABETE3: (D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes)

1 No diabetes
2 Doctor diagnosed diabetes
3 Undiagnosed diabetes HbA1c>=6.5

SPSS Syntax

```
recode glyhbval (6.5 thru hi = 3) (0 thru 6.4 = 1) (else = copy) into diabete3.
if glyhbval>0 and diabete2 = 1 diabete3 = 2.
if diabete2<0 diabete3 = diabete2.
add value labels diabete3
 1 "No diabetes"
 2 "Doctor diagnosed diabetes"
 3 "Undiagnosed diabetes HbA1c>=6.5".
var label diabete3 "(D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only
diabetes)".
```

DIABETE3R: (D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes) {revised}

1 No diabetes
2 Doctor diagnosed diabetes
3 Undiagnosed diabetes HbA1c>=6.5

SPSS Syntax

```
recode glyhbval (6.5 thru hi = 3) (0 thru 6.4 = 1) (else = copy) into diabete3r.
if glyhbval>0 and diabete2r = 1 diabete3r = 2.
if diabete2r<0 diabete3r = diabete2r.
add value labels diabete3r
 1 "No diabetes"   2 "Doctor diagnosed diabetes"  3 "Undiagnosed diabetes HbA1c>=6.5".
var label diabete3r "(D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only
diabetes) {revised}".
```

DIABETE3RA: (D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes) {revised} [adjusted to be comparable to pre-September 2013]

1 No diabetes
2 Doctor diagnosed diabetes
3 Undiagnosed diabetes HbA1c>=6.5

SPSS Syntax

```
recode glyhbvala (6.5 thru hi = 3) (0 thru 6.4 = 1) (else = copy) into diabete3ra.
if glyhbvala>0 and diabete2r = 1 diabete3ra = 2.
if diabete2r<0 diabete3ra = diabete2r.
add value labels diabete3ra  1 "No diabetes"   2 "Doctor diagnosed diabetes"
 3 "Undiagnosed diabetes HbA1c>=6.5".
var label diabete3ra "(D) Diabetes from blood sample or doctor diagnosis (excluding pregnancy-only
diabetes) {revised} [adjusted to be comparable to pre-September 2013]".
```

DIABTOT: (D) Total diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes)

1 No diabetes
2 Doctor diagnosed diabetes and or HbA1c >=6.5

SPSS Syntax

```
recode diabete3 (3=2) (else = copy) into diabtot.
add value labels diabtot
 1 "No diabetes"
 2 "Doctor diagnosed diabetes and or HbA1c >=6.5".
var label diabtot "(D) Total diabetes from blood sample or doctor diagnosis (excluding pregnancy-only
diabetes)".
```

DIABTOTR: (D) Total diabetes from blood sample or doctor diagnosis (excluding pregnancy-only diabetes) {revised}

1 No diabetes
2 Doctor diagnosed diabetes and or HbA1c >=6.5

SPSS Syntax

```
recode diabete3r (3=2) (else = copy) into diabtotr.
add value labels diabtotr
 1 "No diabetes"
 2 "Doctor diagnosed diabetes and or HbA1c >=6.5".
var label diabtotr "(D) Total diabetes from blood sample or doctor diagnosis (excluding pregnancy-only
diabetes) {revised}".
freq diabtot diabtotr.
```

diab3mmol: (D) Diabetes from blood sample (48+mmol/mol) or doctor diagnosis (excluding pregnancy-only diabetes)

1 No diabetes
2 "Doctor diagnosed diabetes
3 Undiagnosed diabetes HbA1c>=48mmol/l

diab3mmolg: (D) Total diabetes from blood sample or doctor diagnosis

1 No diabetes
2 Doctor diagnosed diabetes and or HbA1c >=48mmol/l

SPSS Syntax

```
Numeric diab3mmol (F3).
compute  diab3mmol =-11.
If (iffcvala>0 & iffcvala<48) & (diabete2=2) diab3mmol =1.
If (iffcvala>0 & diabete2=1) diab3mmol =2.
If (iffcvala>=48) & (diabete2=2) diab3mmol =3.
If any(-9,diabete2,iffcvala) diab3mmol =-9.
If any(-8,diabete2,iffcvala) diab3mmol =-8.
If any(-1,diabete2,iffcvala) diab3mmol =-1.
Value labels diab3mmol
-9 "Refused"
-8 "Don't know"
-1 "Not applicable"
1 "No diabetes"
2 "Doctor diagnosed diabetes"
3 "Undiagnosed diabetes HbA1c>=48mmol/l".
Variable label diab3mmol  "(D) Diabetes from blood sample (48+mmol/mol) or doctor diagnosis (excluding
pregnancy-only diabetes)".

fre diab3mmol .

cro  iffcvala by diab3mmol  by diabete2.

* Grouped

Numeric  diab3mmolg (F3).
recode diab3mmol (3=2) (else = copy) into diab3mmolg.
add value labels diab3mmolg
-9 "Refused"
-8 "Don't know"
-1 "Not applicable"
1 "No diabetes"
2 "Doctor diagnosed diabetes and or HbA1c >=48mmol/l".
variable label diab3mmolg "(D) Total diabetes from blood sample or doctor diagnosis".
```

Heart Murmur

murmur1: (D) Doctor diagnosed heart murmur (excluding pregnant)

1 Yes
2 No

SPSS Syntax

```
RECODE murdoc (-9 thru -2=COPY) (1=1) (2=2) (-1=2) INTO murmur1.
IF (sex=2 & pregmur1=2) murmur1=2.
IF (ANY(-9,murdoc,pregmur, pregmur1)) murmur1=-9.
IF (ANY(-8,murdoc,pregmur, pregmur1)) murmur1=-8.
if samptype=2 and age>=65 murmur1=-1.
if age<=15 murmur1=-1.
VARIABLE LABEL murmur1 "(D) Doctor diagnosed heart murmur (excluding pregnant)".
VALUE LABELS murmur1    1 "Yes"    2 "No".
```

iregdef: (D) Doctor diagnosed irregular heart rhythym
ohtdef: (D) Doctor diagnosed other heart condition

1 Yes
2 No

SPSS Syntax

```
RECODE docireg (-1=2)(else=copy) into iregdef.
if samptype=2 and age>=65 iregdef=-1.
if age<=15 iregdef=-1.
VARIABLE LABELS iregdef "(D) Doctor diagnosed irregular heart rhythym".
VALUE LABELS iregdef 1 "Yes" 2 "No".
fre docireg iregdef.

RECODE docoht (-1=2)(else=copy) into ohtdef.
if samptype=2 and age>=65 ohtdef=-1.
if age<=15 ohtdef=-1.
VARIABLE LABELS ohtdef "(D) Doctor diagnosed other heart condition".
VALUE LABELS ohtdef 1 "Yes" 2 "No".
```

Smoking

Adults General

CIGPIPENOW: (D) Current user of cigars or pipes, 16+yrs (c+sc)

0 Has never smoked
1 Ever smoked but not currently smoking a cigar or pipe
2 Ever smoked but questions about cigar or pipe not applicable
3 Currently smokes a cigar or pipe

SPSS Syntax

```
COMPUTE CigPipeNow=-99.
IF SmkEvr<0 CigPipeNow=SmkEvr.
IF SmkEvr=2 CigPipeNow=0.
IF SmkEvr=1 & age>=18 & ( (pipenowA=2 & sex=1) | cigarnow=2) CigPipenow=1.
IF SmkEvr=1  & age>=16 & ((pipenowA=-1 & sex=1) | cigarnow=-1) CigPipeNow=2.
IF SmkEvr=1  & age>=18 & ( (pipenowA=1 & sex=1) | cigarnow=1) CigPipenow=3.
IF range(age,0,15)  cigPipeNow=-1.
Freq CigPipenow.
VARIABLE LABELS CigPipeNow "(D) Current user of cigars or pipes, 16+yrs (c+sc)".
VALUE LABELS CigPipeNow
-9 "No answer/refused"
-8 "Don't know"
-1 "Item not applicable"
 0 "Has never smoked"
 1 "Ever smoked but not currently smoking a cigar or pipe"
 2 "Ever smoked but questions about cigar or pipe not applicable"
 3 "Currently smokes a cigar or pipe".
```

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".
```

EXPSMOK3: (D) Any adult self-reported exposure to other people's smoke, 16+, binary (c+sc)

1 No
2 Yes

SPSS Syntax

```
COMPUTE Expsmok3 = -99.
RECODE Expsmok (0=1) (0 thru HI=2)(ELSE=COPY) INTO Expsmok3.
IF RANGE(age,0,15) Expsmok3=-1.
VARIABLE LABELS Expsmok3 "(D) Any adult self-reported exposure to other people's smoke, 16+, binary
(c+sc)".
VALUE LABELS Expsmok3 -9 "Refused"  -8 "Don't know" -1 "Not applicable"  1 "No"   2 "Yes" .
```

ECIGUSE: (D) E-cigarette or vaping device use (current use, not a current user but has used, never used)

1 Currently uses e-cigarettes or vaping device
2 Not a current user but has tried e-cigarettes or vaping device
3 Never tried e-cigarettes or vaping device

SPSS Syntax

```
numeric eciguse (F2.0).
if ecigevr=1 or ecigevr=2 eciguse=2.
if ecignw=1 eciguse=1.
if ecigevr=3 eciguse=3.
if any(-8, ecigevr, ecignw) eciguse = -8.
if  ecigevr =-1 and  ecignw =-1  eciguse = -1.
if any(-9, ecigevr, ecignw) eciguse = -9.
variable labels eciguse "(D) E-cigarette or vaping device use (current use, not a current user but has
used, never used)".
add value labels eciguse 1 "Currently uses e-cigarettes or vaping device" 2 "Not a current user but has
tried e-cigarettes or vaping device" 3 "Never tried e-cigarettes or vaping device"
-1 "Not applicable"
-8 "Don't know"
-9 "Refused".
```

Adult Current Smokers

CIGDYAL: (D) Number of cigarettes smoked 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,-1=COPY)(2=0) INTO cigdyal.
RECODE smkevr(-9,-8,-1=COPY)(2=0) INTO cigdyal.
RECODE cigevr(-9,-8=COPY)(2=0) INTO cigdyal.
formats cigdyal (F2.1).
VARIABLE LABELS cigdyal "(D) Number of cigarettes smoke a day - inc. non-smokers".
```

Nicotine replacement

NDPNOW: (D) Current use of E-cigarettes and/or NDPs, 16+yrs (c+sc)

1 E-cigarettes only
2 Other nicotine delivery products only
0 Both
1 None

SPSS Syntax

```
COMPUTE NDPNow=-99.
IF NRnow08=1 & (NRNow01=0 & NRNow02=0 & NRNow03=0 & NRNow04=0 & NRNow05=0  & NRNow06=0 & NRNow07=0)
NDPNow=1.
IF NRnow08=0 & ANY(1,NRNow01, NRNow02, NRNow03, NRNow04, NRNow05, NRNow06 ,NRNow07) NDPNow=2.
IF NRnow08=1 & ANY(1,NRNow01, NRNow02, NRNow03, NRNow04, NRNow05, NRNow06 ,NRNow07) NDPNow=3.
IF NRnow09=1 NDPNow=4.
IF  NRnow08<0 NDPNow=NRnow08.
IF range(age, 0,15) NDPNow=-1.
variable labels NDPNow "(D) Current use of E-cigarettes and/or NDPs, 16+yrs (c+sc) ".
add value labels  NDPNow
1 "E-cigarettes only"
2 "Other nicotine delivery products only"
3 "Both" 4 "None"
```

NDPEVRC: (D) Ever or Current use of E-cigarettes and/or NDPs, 16+yrs (c+sc)

1 E-cigarettes only
2 Other nicotine delivery products only
3 Both
4 None

SPSS Syntax

```
COMPUTE NDPEvrC=-99.
IF NREvr08=1 & (NREvr01=0 & NREvr02=0 & NREvr03=0 & NREvr04=0 & NREvr05=0  & NREvr06=0 & NREvr07=0)
NDPEvrC=1.
IF NREvr08=0 & ANY(1,NREvr01, NREvr02, NREvr03, NREvr04, NREvr05, NREvr06 ,NREvr07) NDPEvrC=2.
IF NREvr08=1 & ANY(1,NREvr01, NREvr02, NREvr03, NREvr04, NREvr05, NREvr06 ,NREvr07) NDPEvrC=3.
IF NREvr09=1 NDPEvrC=4.
IF NREvr09<0  NDPEvrC=NREvr09.
IF Any(NDPNow,1,2,3) & any(NDPEvrC,4,-1)  NDPEvrC=NDPNow.
IF NDPNow=1 & NDPEvrC=-9  NDPEvrC=1.
IF (NDPNow=2 & NDPEvrC=1) | (NDPNow=1  & NDPEvrC=2) NDPEvrC=3.
IF NDPNow=3 & any(NDPEvrC,1,2) NDPEvrC=3.
IF NDPNow=3 & ANY(NDPEvrC,-1,-8,-9) NDPEvrC=3.
IF NDPNow=-9  & NDPEvrC=4  NDPEvrC=-9.
IF range(age, 0,15) NDPEvrC=-1.
variable labels NDPEvrC "(D) Ever or Current use of E-cigarettes and/or NDPs, 16+yrs (c+sc) ".
add value labels  NDPEvrC
1 "E-cigarettes only" 2 "Other nicotine delivery products only"  3 "Both"4 "None"
-9 "No answer/Refused"  -8 "Don't know"-1 "Not applicable".
```

Children General

EXPSMOK2: (D) Children's self reported exposure to other people's smoke, 0-15, 4 groups

0 Not exposed
1 1-14 hours a week
2 15-28 hours a week
3 More than 28 hours

SPSS Syntax

```
COMPUTE ExpSmok2=-99.
RECODE expsmok (0=0) (1 thru 14=1)(14 thru 28=2)(28 thru hi=3) (-9 thru -1=COPY) INTO expsmok2.
VARIABLE LABELS expsmok2 "(D) Children's self reported exposure to other people's smoke, 0-15yrs, 4
groups, (c+sc)".
If age>15 expsmok2=-1.
VALUE LABELS expsmok2
-9 "Refused"
-8 "Don't know"
-1 "Not applicable"
0 "Not exposed"
1 "1-14 hours a week"
2 "15-28 hours a week"
3 "More than 28 hours".
+".
```

ADULTSMOKE: (D) Children live with at least one adult smoker, smokes at home on most days,binary (for children aged 4-15)

0 None
1 1+ adults

SPSS Syntax

```
COMPUTE adultsmoke=-99.
RECODE numsm (1 THRU HI=1) INTO adultsmoke.
IF Passm=2 Adultsmoke=0.
IF range(age,0,3) | range(age,16,120) adultsmoke=-1.
VARIABLE LABELS adultsmoke "(D) Children live with at least one adult smoker, smokes at home on most days,
binary (for children aged 4-15)".
VALUE LABELS adultsmoke
-1 "Not applicable"
 0 "None"
 1 "1+ adults".
```

SMOKE415: (D) Self-reported child smokers aged 4-15yrs, (4-7yrs assumed non-smoker)

0 None smoker
1 Current smoker

SPSS Syntax

```
COMPUTE Smoke415=-99.
IF RANGE(Age, 0,3) | RANGE(Age,16,150) Smoke415=-1.
IF RANGE(Age, 4,7) Smoke415=0.
IF Smoke415=-99 & RANGE(Age,8,15) & ANY(KcigReg,1,2,3,4) Smoke415=0.
IF Smoke415=-99  & RANGE(Age,8,15) & ANY(KcigReg,5,6) Smoke415=1.
IF Smoke415=-99 & RANGE(Age,8,15) & ANY(KcigReg,-1,-8,-9)  Smoke415=KcigReg.
VARIABLE LABELS smoke415 "(D) Self-reported child smokers aged 4-15 yrs, (4-7yrs assumed non-smoker)".
VALUE LABELS Smoke415
-9 "Refused"
-1 "Not applicable"
 0 "Non-smoker"
 1 "Current 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".
```

Children 13-15

CURRENTNDPS: (D) Current use of nicotine delivery product(s) (NDP) (SC 13-15)

0 No current use
1 Current use

SPSS Syntax

```
RECODE ANRNow 9 (0=1) (1=0)(ELSE=COPY) INTO CurrentNDPs.
VARIABLE LABELS CurrentNDPs "(D) Current use of nicotine delivery product(s) ie NDP (SC 13-15)".
VALUE LABELS  CurrentNDPs
-9 "No answer/refused"
-8 "Don't know"
-1 "Item not applicable"
 0 "No current use"
 1 "Current use".
```

Current Nicotine Status

NICUSE7D: (D) Used nicotine products in last 7 days, 16+yrs (nurse)

1 Uses nicotine products
2 Doesn't use nicotine products

SPSS Syntax

```
COMPUTE NicUse7D=-99.
IF (Nuroutc<>81 | range(age,0,15)) NicUse7D=-1.
IF ANY(1, NR7Day 1, NR7Day 2, NR7Day 3, NR7Day 4, NR7Day 5, NR7Day 6, NR7Day 7, NR7Day 8) NicUse7D=1.
IF NR7Day_9=1 NicUse7D=2.
VARIABLE LABELS NicUse7D "(D) Used nicotine products in last 7 days, 16+yrs (nurse)".
VALUE LABELS NicUse7D  1 "Uses nicotine products"
 2 "Doesn't use nicotine products" -1 "Not applicable"  -9 "Refused" -8 "Don't know".
```

Cotinine

COTVAL: (D) Valid continine result (saliva)

SPSS Syntax

```
NUMERIC cotval (F3.2).
COMPUTE cotval=cotinine.
IF ANRNow 9 =0 & range(age,4,15) cotval=-90.
VARIABLE LABELS cotval "(D) Valid Cotinine (saliva) - 4-15 year olds ".
VALUE LABELS cotval
  -90 "Use nicotine products"-1 "Not applicable.
```

CotVal2: (D) Valid Cotinine (16+yrs, excl users of nicotine delivery products(NDP))

SPSS Syntax

```
NUMERIC CotVal2 (F7.1).
 RECODE Cotinine (ELSE=COPY) INTo CotVal2.
 IF NurOutc<>81 | range(age, 0,15) | saloutc<>1 CotVal2=-1.
 IF NicUse7d=1 & Cotinine=-1 CotVal2=-1.
 IF NicUse7d=1 & CotVal2<>-1 CotVal2=-5.
 VARIABLE LABELS CotVal2 "(D) Valid Cotinine (16+yrs, excl users of nicotine delivery products(NDP))".
 VALUE LABELS CotVal2
 -5 "NA - used NDP in past 7 days"
 -1 "Not applicable".
```

Cot12Val2: (D) Binary of valid cotinine levels at 12+ ng/ml (16+yrs, excl users of NDP)

1 Below 12 ng/ml
2 At least 12+ ng/ml

SPSS Syntax

```
NUMERIC Cot12Val2 (F3.0).
RECODE CotVal2 (12 thru HI=2) (0 THRU 12=1)(ELSE=COPY) INTo Cot12Val2.
VARIABLE LABELS Cot12val2 "(D) Binary of valid cotinine levels at 12+ ng/ml (16+yrs, excl users of NDP)".
VALUE LABELS Cot12Val2
 -5 "Not applicable - used NDP in past 7 days"
 -1 "Not applicable"
  1 "Below 12 ng/ml"
  2 "At least 12+ ng/ml".
```

Cot12Val3: (D) Binary of valid cotinine levels at 12+ ng/ml (16+, incl users of NDP)

1 Below 12 ng/ml
2 At least 12+ ng/ml

SPSS Syntax

```
NUMERIC Cot12Val3 (F3.0).
RECODE Cotinine (12 thru HI=2) (0 THRU 12=1)(ELSE=COPY) INTO Cot12Val3.
IF NurOutc<>81 | range(age, 0,15) | saloutc<>1 Cot12Val3=-1.
VARIABLE LABELS Cot12val3 "(D) Binary of valid cotinine levels at 12+ ng/ml (16+, incl users of NDP)".
VALUE LABELS Cot12Val3   -1 "Not applicable"   1 "Below 12 ng/ml"     2 "At least 12+ ng/ml" .
```

cot15val: (D) Valid Cotinine (saliva): 0<15,15+

SPSS Syntax

```
NUMERIC cot15val (f2.0).
RECODE cotval (lo thru -1=COPY)(15 thru hi=2)(0 thru 15=1) INTO cot15val.
VARIABLE LABELS cot15val "(D) Valid Cotinine (saliva): 0<15,15+".
VALUE LABELS cot15val
-1 "Not applicable"     1 "0<15 ng/ml"      2 "15+ ng/ml"   -90 "Use nicotine products".
```

Cot12ValKids: (D) Cotinine below/above 12 ng/ml (children 4-15) excl current use of NDPs

1 Below 12 ng/ml
2 At least 12+ ng/ml

SPSS Syntax

```
NUMERIC Cot12ValKids (F3.0).
COMPUTE Cot12valkids=-99.
RECODE Cotinine (lo thru -1=COPY)(12 thru hi=2)(0 thru 12=1) INTO Cot12valkids.
if RANGE(age,0,3) | RANGE(age,16,120) Cot12valkids=-1.
if RANGE(AGE,4,15) AND ANRNow_9=0 Cot12valkids=-2.
VARIABLE LABELS Cot12valkids "(D) Cotinine below/above 12 ng/ml (children 4-15) excl current use of NDPs".
VALUE LABELS Cot12valkids
-2 "Not applicable -Current NDP user"
-1 "Not applicable"
 1 "Below 12 ng/ml"
 2 "At least 12+ ng/ml" .
```

UndetectCot: (D) Binary of undetectable cotinine, <0.1ng/ml (16+yrs, excl users NDP)

1 Below 0.1 ng/ml, Undetectable
2 At least 0.1+ ng/ml, Detectable

SPSS Syntax

```
NUMERIC UndetectCot (F3.0).
RECODE Cotval2  (0.1 thru hi=2)(0 thru 0.1=1)(ELSE=COPY) INTO UnDetectCot.
VARIABLE LABELS UnDetectCot '(D) Binary of undetectable cotinine, <0.1ng/ml (16+yrs, excl users NDP)'.
VALUE LABELS  UnDetectCot
 -5 "NA - used NDP in past 7 days"
 -1 "Not applicable"
  1 "Below 0.1 ng/ml, Undetectable"
  2 "At least 0.1+ ng/ml, Detectable" .
```

DETECTCOT12CH: (D) Detectable cotinine for children, excl Current NDPs and smokers

1 0 ng/ml
2 0.001 & below 12ng/ml

SPSS Syntax

```
COMPUTE DetectCot12ch=-99.
RECODE cotinine (0.001 thru 11.99=1) (11.99 thru hi = -3)(ELSE=COPY) INTO DetectCot12ch.
IF ANRNOW_9=0 DetectCot12ch=-2.
IF RANGE(Age, 0,3) | RANGE(Age,16,120) DetectCot12ch=-1.
IF RANGE(Age, 8,15) & ANY(Kcigreg,-1,-8,-9) DetectCot12ch=KcigReg.
IF RANGE(Age, 8,15) & ANY(kcigreg,5,6) DetectCot12ch=-3.
VARIABLE LABELS Detectcot12ch "(D) Detectable cotinine for children, excl Current NDPs and smokers".
VALUE LABELS DetectCot12ch -9  "Refused"  -3 "Not applicable -12ng/ml or more/self-reported current
smokers" -2 "Not applicable -Current NDP user" -1 "Not applicable"  0 "0 ng/ml"
 1 "0.001 & below 12ng/ml".
```

SHSOUTC: (D) Detectable cotinine for children (3 groups), excl Current NDPs and smokers

0 0 ng/ml
1 0.001 to less than 1 ng/ml
2 1 to less than 12 ng/ml

SPSS Syntax

```
COMPUTE SHSOutC=-99.
RECODE cotinine (0.001 thru 0.99=1) (0.99 thru 11.99=2) (11.99 thru hi = -3)(ELSE=COPY) INTO SHSOutC.
IF ANRNOW 9=0 SHSOutC=-2.
IF RANGE(Age, 0,3) | RANGE(Age,16,120) SHSOutC=-1.
IF RANGE(Age, 8,15) & ANY(Kcigreg,-1,-8,-9) SHSOutC=KcigReg.
IF RANGE(Age, 8,15) & ANY(kcigreg,5,6) SHSOutC=-3.
VARIABLE LABELS SHSOutC "(D) Detectable cotinine for children (3 groups), excl Current NDPs and smokers".
VALUE LABELS SHSOutC
-9  "Refused"
-3 "Not applicable -12ng/ml or more/self-reported current smokers"
-2 "Not applicable -Current NDP user" -1 "Not applicable"  0 "0 ng/ml"
 1 "0.001 to less than 1 ng/ml"
```

Adult Physical Activity

International Physical Activity Questionnaire (IPAQ)

Lst7Wal: (D) Number of days in last 7 walked for at least 10 minutes at a time
Lst7Mod: (D) Number of days in last 7 did moderate physical activity
Lst7Vig: (D) Number of days in last 7 did vigorous physical activity

SPSS Syntax

```
NUMERIC Lst7Vig (F1.0).
COUNT Lst7Vig = DaysVig1, DaysVig2, DaysVig3, DaysVig4, DaysVig5, DaysVig6, DaysVig7 (1).
IF any(-9,DaysVig1, DaysVig2, DaysVig3, DaysVig4, DaysVig5, DaysVig6, DaysVig7) Lst7Vig = -9.
IF any(-8,DaysVig1, DaysVig2, DaysVig3, DaysVig4, DaysVig5, DaysVig6, DaysVig7) Lst7Vig = -8.
IF any(-1,DaysVig1, DaysVig2, DaysVig3, DaysVig4, DaysVig5, DaysVig6, DaysVig7) Lst7Vig = -1.
EXECUTE.
VARIABLE LABELS Lst7Vig '(D) Number of days in last 7 did vigorous physical activity (NurSCDat.Lst7Vig)'.
value labels Lst7Vig -9 "Refused" -8 "Don't know" -1 "Not applicable

**LST7MOD **
============.
NUMERIC Lst7Mod (F1.0).
COUNT Lst7Mod = DaysMod1, DaysMod2, DaysMod3, DaysMod4, DaysMod5, DaysMod6, DaysMod7 (1).
IF any(-9,DaysMod1, DaysMod2, DaysMod3, DaysMod4, DaysMod5, DaysMod6, DaysMod7) Lst7Mod = -9.
IF any(-8,DaysMod1, DaysMod2, DaysMod3, DaysMod4, DaysMod5, DaysMod6, DaysMod7) Lst7Mod = -8.
IF any(-1,DaysMod1, DaysMod2, DaysMod3, DaysMod4, DaysMod5, DaysMod6, DaysMod7) Lst7Mod = -1.
EXECUTE.
VARIABLE LABELS Lst7Mod (D) 'Number of days in last 7 did moderate physical activity'.
value labels Lst7Mod -9 "Refused" -8 "Don't know" -1 "Not applicable".


**LST7WAL**
===========.
NUMERIC Lst7Wal (F1.0).
COUNT Lst7Wal = DaysWal1, DaysWal2, DaysWal3, DaysWal4, DaysWal5, DaysWal6, DaysWal7 (1).
IF any(-9,DaysWal1, DaysWal2, DaysWal3, DaysWal4, DaysWal5, DaysWal6, DaysWal7) Lst7Wal = -9.
IF any(-8,DaysWal1, DaysWal2, DaysWal3, DaysWal4, DaysWal5, DaysWal6, DaysWal7) Lst7Wal = -8.
IF any(-1,DaysWal1, DaysWal2, DaysWal3, DaysWal4, DaysWal5, DaysWal6, DaysWal7) Lst7Wal = -1.
EXECUTE.
VARIABLE LABELS Lst7Wal '(D) Number of days in last 7 walked for at least 10 minutes at a time'.
value labels Lst7Wal -9 "Refused" -8 "Don't know" -1 "Not applicable
```

TOTMVIGD: (D) IPAQ: Total number of minutes usually spent doing vigiorous activities in a day

SPSS Syntax

```
NUMERIC TotmVigD (F7.2).
COMPUTE TotmVigD=-99.
IF age<16 TotmVigD=-1.
IF any(Screc,2,-1) TotmVigD=-1.
IF TVighou>=0  TotmVigD=TVigHou*60.
IF TVigMin>=0  TotmVigD=TotmVigD +TVigmin.
IF any(-9, TVigHou, TVigMin) TotmVigD=-9.
IF TotmVigD=-99 & NoVig=2 TotmVigD=0.
VARIABLE LABELS TotmVigD "(D) IPAQ: Total number of minutes usually spend doing vigorous activities in a
day".
```

TOTMMODD: (D) IPAQ: Total number of minutes usually spent doing moderate activities in a day

SPSS Syntax

```
NUMERIC TotmModD (F7.2).
COMPUTE TotmModD=-99.
IF age<16 TotmModD=-1.
IF any(Screc,2,-1) TotmModD=-1.
IF TModhou>=0  TotmModD=TModHou*60.
IF TModMin>=0  TotmModD=TotmModD +TModmin.
IF any(-9, TModHou, TModMin) TotmModD=-9.
IF TotmModD=-99 & NoMod=2 TotmModD=0
VARIABLE LABELS TotmModD "(D) IPAQ: Total number of minutes usually spend doing moderate activities in a
day".
```

TOTMWALD: (D) IPAQ: Total number of minutes usually spent walking in a day

SPSS Syntax

```
NUMERIC TotmWalD (F7.2).
COMPUTE TotmWalD=-99.
IF age<16 TotmWalD=-1.
IF any(Screc,2,-1) TotmWalD=-1.
IF TWalhou>=0  TotmWalD=TWalHou*60.
IF TWalMin>=0  TotmWalD=TotmWalD +TWalmin.
IF any(-9, TWalHou, TWalMin) TotmWalD=-9.
IF TotmWalD=-99 & NoWalk=2 TotmWalD=0.
VARIABLE LABELS TotmWalD "(D) IPAQ: Total number of minutes usually spend walking in a day".
```

TOTMSITD: (D) IPAQ: Total number of minutes usually spent sitting on a weekday

SPSS Syntax

```
NUMERIC TotmSitD (F7.2).
COMPUTE TotmSitD=-99.
IF age<16 TotmSitD=-1.
IF any(Screc,2,-1) TotmSitD=-1.
IF TSithou>=0  TotmSitD=TSitHou*60.
IF TSitMin>=0  TotmSitD=TotmSitD +TSitmin.
IF any(-9, TSitHou, TSitMin) TotmSitD=-9.
VARIABLE LABELS TotmSitD "(D) IPAQ: Total number of minutes spent sitting on a weekday".
```

TOTMVIGWK: (D) IPAQ: Total number of minutes of vigiorous activity in the last 7 days

SPSS Syntax

```
NUMERIC TotmVigWk (F7.2).
COMPUTE TotmVigWk=-99.
IF Lst7Vig=-1 TotmVigWk=-1.
IF Lst7Vig>0  TotmVigWk=Lst7Vig*TotmVigD.
IF NoVig=2 TotmVigWk=0.
IF Lst7Vig=-9 | TotmVigD=-9 TotmVigWk=-9.
VARIABLE LABELS TotmVigWk "(D) IPAQ: Total number of minutes of vigorous activity in the last 7 days".
```

TOTMMODWK: (D) IPAQ: Total number of minutes of moderate activity in the last 7 days

SPSS Syntax

```
NUMERIC TotmModWk (F7.2).
COMPUTE TotmModWk=-99.
IF Lst7Mod=-1 TotmModWk=-1.
IF Lst7Mod>0 TotmModWk=Lst7Mod*TotmModD.
IF NoMod=2 TotmModWk=0.
IF Lst7Mod=-9 | TotmModD=-9 TotmModWk=-9.
VARIABLE LABELS TotmModWk "(D) IPAQ: Total number of minutes of moderate activity in the last 7 days".
```

TOTMWALWK: (D) IPAQ: Total number of minutes of walking in the last 7 days

SPSS Syntax

```
NUMERIC TotmWalWk (F7.2).
COMPUTE TotmWalWk=-99.
IF Lst7Wal=-1 TotmWalWk=-1.
IF Lst7Wal>0 TotmWalWk=Lst7Wal*TotmWalD.
IF NoWalk=2 TotmWalWk=0.
IF Lst7Wal=-9 | TotmWalD=-9 TotmWalWk=-9.
VARIABLE LABELS TotmWalWk "(D) IPAQ: Total number of minutes walking in the last 7 days".
```

TOTMSITWK: (D) IPAQ: Total number of minutes spent sitting (weekdays only) in the last 7 days

SPSS Syntax

```
NUMERIC TotmSitWk (F7.2).
COMPUTE TotmSitWk=-99.
IF TotmSitD=-1 TotmSitWk=-1.
IF TotmSitD>=0 TotmSitWk=5*TotmSitD.
IF TotmSitD=-9 TotmSitWk=-9.
VARIABLE LABELS TotmSitWk "(D) IPAQ: Total number of minutes spent sitting (weekdays, only) in the last 7
days".
```

VPAMDAY: (D) IPAQ: Vigorous-intensity minutes (VPA) each day (10+ mins) *2

SPSS Syntax

```
NUMERIC VPAmDay (F7.2).
COMPUTE VPAmDay =-999.
IF NOT (age>=16 & range(scomp,1,2) & screc=1) VPAmDay=-1.
```

```
IF (Lst7Vig=-9 | (TvigHou=-9 & TvigMin=-9) | (TvigHou=-9 & TvigMin=0) | (TvigHou=0 & TvigMin=-9))
VPAmDay=-9.
IF (TVigMin>=0 & TVigHou>=0) & any(Lst7vig,1,2,3,4,5,6,7) VPAmDay  = (TVigMin + (TVigHou*60)) * 2.
IF NoVig=2 VPAmDay =0.
IF Range(VPAmDay,0,9) VPAmDay=0.
VARIABLE LABELS VPAmDay "(D) IPAQ: Vigorous-intensity minutes (VPA) each day (10+ mins)*2".
VALUE LABELS VPAmDay -1 "Not applicable"  -9 "Refusal/Unknown".
```

MPAMDAY: (D) IPAQ: Moderate-intensity minutes (MPA) each day (10+ mins) *2

SPSS Syntax

```
NUMERIC MPAmDay (F7.2).
COMPUTE MPAmDay =-999.
IF NOT (age>=16 & range(scomp,1,2) & screc=1) MPAmDay=-1.
IF (Lst7Mod=-9 | (TModHou=-9 & TModMin=-9) | (TModHou=-9 & TModMin=0) | (TModHou=0 & TModMin=-9))
MPAmDay=-9.
if (TModMin>=0 & TModHou>=0) & any(Lst7Mod,1,2,3,4,5,6,7) MPAmDay  = TModMin + (TModHou*60).
if NoMod=2 MPAmDay =0.
IF Range(MPAmDay,0,9) MPAmDay=0.
VARIABLE LABELS MPAmDay "(D) IPAQ: Moderate-intensity minutes (MPA) each day (10+ mins)".
VALUE LABELS MPAmDay -1 "Not applicable"  -9 "Refusal/Unknown".
```

VPAMWK: (D) IPAQ: Vigorous-intensity minutes (VPA) each week (10+ mins) *2

SPSS Syntax

```
NUMERIC VPAmWk (F7.2).
COMPUTE VPAmWk=-999.
IF VPAmDay<=0 VPAmWK=VPAmDay.
IF ANY(Lst7vig,1,2,3,4,5,6,7) & (VPAmDay>0) VPAmWk=(Lst7vig * VPAmDay).
VARIABLE LABELS VPAmWk  "(D) IPAQ: Vigorous-intensity miniutes (VPA) each week (10+ mins) * 2".
```

MPAMWK: (D) IPAQ: Moderate-intensity minutes (MPA) each week (10+ mins) *2

SPSS Syntax

```
NUMERIC MPAmWk (F7.2).
COMPUTE MPAmWk=-999.
IF MPAmDay<=0 MPAmWK=MPAmDay.
IF ANY(Lst7mod,1,2,3,4,5,6,7) & (MPAmDay>0) MPAmWk=(Lst7mod * MPAmDay).
VARIABLE LABELS MPAmWk "(D) IPAQ: Moderate-intensity minutes (MPA) each week (10+ mins)".
```

MVPAMWK: (D) IPAQ: Active – Moderate/Vigorous-intensity minutes (MVPA) each week

SPSS Syntax

```
NUMERIC MVPAmWk (F7.2).
COMPUTE MVPAmWk=-999.
IF MPAmDay=-1 MVPAmWK=MPAmDay.
IF MPAmWk=-9 | VPAmWk=-9  MVPAmWK=-9.
IF MPAmWK>=0 & VPAmWK>=0 MVPAmWK= MPAmWK + VPAmWk.
VARIABLE LABELS MVPAmWk "(D) IPAQ: Active - Moderate/Vigorous-intensity minutes (MVPA) each week".
```

MVPAMWKG: (D) IPAQ: Grouped Active – 30 minutes or more Moderate/Vigorous-intensity minutes (MVPA) each week

1 Inactive below 30mins MVPA per week
2 Active 30 mins or more

SPSS Syntax

```
NUMERIC MVPAmWkg (F7.2).
RECODE MVPAmWk  (0 thru 29.99999=1) (30.0 thru hi=2) (lo thru -1=COPY) INTO MVPAmWkg.
VARIABLE LABELS MVPAmWkg "(D) IPAQ: Grouped Active -  30 minutes or more Moderate/Vigorous-intensity
minutes (MVPA) each week".
VALUE LABELS MVPAmWKg -1 "Not applicable"  -9 "Refusal/Unknown"  1 "Inactive below 30 mins MVPA per week"
2 "Active 30 mins or more".
```

MVPATERT: (D) IPAQ: Tertiles of moderate or vigorous intensive minutes of activity per week (sex-specific; excludes walking

1 Low
2 Medium
3 High

SPSS Syntax

```
NUMERIC MVPATert (F3.0).
COMPUTE MVPATert=-999.
if MVPAmWk<0 MVPATert=MVPAmWk.
if sex=1 & range(MVPAmWk,0,120)  MVPATert=1.
if sex=1 & range(MVPAmWk,121,840)  MVPATert=2.
```

```
if sex=1 & range(MVPAmWk,841,13320)  MVPATert=3.
if sex=2 & MVPAmWk=0 MVPATert=1.
if sex=2 & range(MVPAmWk,10,496)  MVPATert=2.
if sex=2 & range(MVPAmWk,496,15120)  MVPATert=3.
VARIABLE LABELS MVPATert "(D) IPAQ: Tertiles of moderate or vigorous intensive minutes of activity per
week ( sex-specific; excludes walking)".
VALUE LABELS MVPATert -1 "Not applicable"  -9 "Refusal/Unknown" 1 "Low" 2 "Medium" 3 "High".
```

Multiple Risks

SmokRisk: (D) Current smoker - Multiple Risk Factors
DietRisk: (D) Less than 5 portions a day - Multiple Risk Factors
PhAcRisk: (D) Inactive: less than 30mins - Multiple Risk Factors
ObesRisk: (D) Obesity risk - Multiple Risk Factors
DrnkRisk: (D) More than 14 units a week - Multiple Risk Factors

SPSS Syntax

```
Numeric SmokRisk (F8).
compute SmokRisk=-11.
if any(cigsta3,-9,-8,-6,-2,-1) SmokRisk=cigsta3.
if any(cigsta3,2,3) SmokRisk=0.
if cigsta3=1 SmokRisk=1.
variable label SmokRisk "(D) Current smoker - Multiple Risk Factors".
value labels SmokRisk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "No"
1 "Yes".

* Fruit & veg (less than 5 portions a day)

Numeric DietRisk (F8).
compute DietRisk=-11.
if any(porftvg15,-9,-8,-2,-1) DietRisk=porftvg15.
if any(porftvg15,6,7,8,9) DietRisk=0.
if any(porftvg15,0,1,2,3,4,5) DietRisk=1.
variable label DietRisk "(D) Less than 5 portions a day - Multiple Risk Factors".
value labels DietRisk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "No"
1 "Yes".

* Inactive (less than 30 minutes MVPA).

Numeric PhAcRisk (F8).
compute PhAcRisk=-11.
if any(MVPAmWkg,-9,-8,-2,-1) PhAcRisk=MVPAmWkg.
if MVPAmWkg=2 PhAcRisk=0.
if MVPAmWkg=1 PhAcRisk=1.
variable label PhAcRisk "(D) Inactive: less than 30mins - Multiple Risk Factors".
value labels PhAcRisk 0 "No" 1 "Yes".
value labels PhAcRisk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "No"
1 "Yes".
fre PhAcRisk.

* Obesity.

Numeric ObesRisk (F8).
compute ObesRisk=-11.
if bmival2<0 ObesRisk=bmival2.
if (bmival2>0 & bmival2<=29.9999) ObesRisk=0.
if (bmival2>=30.00000) ObesRisk=1.
variable label ObesRisk "(D) Obesity risk - Multiple Risk Factors".
```

```
value labels ObesRisk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused\ not answered"
-6 "Schedule not obtained"
0 "No"
1 "Yes".

* Alcohol (more than 14 units).

Numeric DrnkRisk (F8).
compute DrnkRisk=-11.
if any(totalwug,-9,-8,-2,-1) DrnkRisk=totalwug.
if any(totalwug,0,1,2,3,4) DrnkRisk=0.
if any(totalwug,5,6,7,8,9) DrnkRisk=1.
variable label DrnkRisk "(D) More than 14 units a week - Multiple Risk Factors".
value labels DrnkRisk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "No"
1 "Yes".
```

NoMuRisk: (D) Number of risks

NoMuRisk2: (D) Number of risks, 2+

0 0-1 risks
1 2+ risks

NoMuRisk3: (D) Number of risks, 3+

0 0-1 risks
1 2+ risks
2 3+ risks

SPSS Syntax

```
* NoMuRisk

Numeric NoMuRisk (F8).
count NoMuRisk= Smokrisk DrnkRisk PhAcRisk ObesRisk DietRisk (1).
if any (-1, Smokrisk, DrnkRisk, PhAcRisk, ObesRisk, DietRisk) NoMuRisk = -1.
if any (-9, Smokrisk, DrnkRisk, PhAcRisk, ObesRisk, DietRisk) NoMuRisk = -9.
if any (-8, Smokrisk, DrnkRisk, PhAcRisk, ObesRisk, DietRisk) NoMuRisk = -8.
if any (-2, Smokrisk, DrnkRisk, PhAcRisk, ObesRisk, DietRisk) NoMuRisk = -2.
if any (-6, Smokrisk, DrnkRisk, PhAcRisk, ObesRisk, DietRisk) NoMuRisk = -6.
if ag16g10<1 NoMuRisk=-1.
variable labels NoMuRisk "(D) Number of risks".
add value labels NoMuRisk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained".

* NoMuRisk2

Numeric NoMuRisk2 (F8).
recode NoMuRisk (0=0) (1=0) (2=1) (3=1) (4=1) (5=1) (else=copy) into  NoMuRisk2.
variable labels NoMuRisk2 "(D) Number of risks, 2+".
add value labels NoMuRisk2
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "0-1 risks"
1 "2+ risks".
exe.

Numeric NoMuRisk3 (F8).
recode NoMuRisk (0=0) (1=0) (2=0) (3=1) (4=1) (5=1) (else=copy) into  NoMuRisk3.
EXECUTE.
variable labels NoMuRisk3 "(D) Number of risks, 3+".
add value labels NoMuRisk3
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "0-2 risks"
1 "3+ risks".
exe.
```

MultiRsk: (D) Number and type(s) of risk

SPSS Syntax

```
* Multiple risks (and type of risk)

Numeric MultiRsk (F8).
if NoMuRisk = 0 MultiRsk = 0.
if NoMuRisk = 1 and SmokRisk = 1 MultiRsk =1.
if NoMuRisk = 1 and DrnkRisk = 1 MultiRsk =2.
if NoMuRisk = 1 and DietRisk = 1 MultiRsk =3.
if NoMuRisk = 1 and PhAcRisk = 1 MultiRsk =4.
if NoMuRisk = 1 and ObesRisk = 1 MultiRsk =5.
if NoMuRisk = 2 and SmokRisk = 1 and DrnkRisk =1 MultiRsk =6.
if NoMuRisk = 2 and SmokRisk = 1 and DietRisk =1 MultiRsk =7.
if NoMuRisk = 2 and SmokRisk = 1 and PhAcRisk = 1 MultiRsk =8.
if NoMuRisk = 2 and SmokRisk = 1 and Obesrisk =1 MultiRsk =9.
if NoMuRisk = 2 and DrnkRisk = 1 AND DietRisk =1 MultiRsk =10.
if NoMuRisk = 2 and DrnkRisk = 1 AND PhAcRisk =1 MultiRsk =11.
if NoMuRisk = 2 and DrnkRisk = 1 AND ObesRisk =1 MultiRsk =12.
if NoMuRisk = 2 and DietRisk = 1 AND PhAcRisk =1 MultiRsk =13.
if NoMuRisk = 2 and DietRisk = 1 AND ObesRisk =1 MultiRsk =14.
if NoMuRisk = 2 and PhAcRisk = 1 AND ObesRisk =1 MultiRsk =15.
if NoMuRisk = 3 and SmokRisk = 1 and DrnkRisk =1 and DietRisk = 1 MultiRsk =16.
if NoMuRisk = 3 and SmokRisk = 1 and DrnkRisk =1 and PhAcRisk = 1 MultiRsk =17.
if NoMuRisk = 3 and SmokRisk = 1 and DrnkRisk =1 and ObesRisk = 1 MultiRsk =18.
if NoMuRisk = 3 and SmokRisk = 1 and DietRisk =1 and PhAcRisk = 1 MultiRsk =19.
if NoMuRisk = 3 and SmokRisk = 1 and DietRisk =1 and ObesRisk = 1 MultiRsk =20.
if NoMuRisk = 3 and SmokRisk = 1 and PhAcRisk =1 and ObesRisk = 1 MultiRsk =21.
if NoMuRisk = 3 and DrnkRisk = 1 and DietRisk =1 and PhAcRisk = 1 MultiRsk =22.
if NoMuRisk = 3 and DrnkRisk = 1 and DietRisk =1 and ObesRisk = 1 MultiRsk =23.
if NoMuRisk = 3 and DrnkRisk = 1 and PhAcRisk =1 and ObesRisk = 1 MultiRsk =24.
if NoMuRisk = 3 and DietRisk = 1 and PhAcRisk =1 and ObesRisk = 1 MultiRsk =25.
if NoMuRisk = 4 and SmokRisk = 1 and DrnkRisk =1 and DietRisk = 1 and PhAcRisk = 1 MultiRsk =26.
if NoMuRisk = 4 and SmokRisk = 1 and DietRisk =1 and PhAcRisk = 1 and ObesRisk = 1 MultiRsk =27.
if NoMuRisk = 4 and SmokRisk = 1 and DrnkRisk =1 and DietRisk = 1 and ObesRisk = 1 MultiRsk =28.
if NoMuRisk = 4 and DrnkRisk = 1 and DietRisk =1 and PhAcRisk = 1 and ObesRisk = 1 MultiRsk =29.
if NoMuRisk = 4 and SmokRisk = 1 and PhAcRisk = 1 and ObesRisk = 1 and DrnkRisk =1 MultiRsk =30.
if NoMuRisk = 5 MultiRsk = 31.
if  NoMuRisk  le -1 MultiRsk =  NoMuRisk .
EXECUTE.
var labels MultiRsk "(D) Number and type(s) of risk".
add value labels MultiRsk
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained"
0 "No current risks"
1 "1 - Smoking risk only (S)"
2 "1 - Drinking risk only (A)"
3 "1- Diet risk only (F)"
4 "1 - Inactivity risk only (P)"
5 "1- Obesity risk only (O)"
6 "2 - Smoking and drinking risk (SA)"
7 "2 - Smoking and diet risk (SF)"
8 "2 - Smoking and lack of physical activity risk (SP)"
9 "2 - Smoking and obesity risk (SO)"
10 "2 - Drinking and diet risk (AF)"
11 "2 - Drinking and Lack of physical activity risk (AP)"
12 "2 - Drinking and obesity risk (AO)"
13 "2 - Diet and lack of physical activity risk (FP)"
14 "2 - Diet and obesity risk (FO)"
15 "2 - Lack of physical activity and obesity risk (PO)"
16 "3- Smoking, drinking and diet risk (SAF)"
17 "3- Smoking, drinking and lack of physical activity risk (SAP)"
18 "3- Smoking, drinking and obesity risk (SAO)"
19 "3- Smoking, diet and lack of physical activity risk (SFP)"
20 "3- Smoking, diet and obesity risk (SFO)"
21 "3- Smoking, lack of physical activity and obesity risk (SPO)"
22 "3- Drinking, diet and lack of physical activity risk (AFP)"
23 "3- Drinking, diet and obesity risk (AFO)"
24 "3- Drinking, lack of physical activity and obesity risk (APO)"
25 "3- Diet, lack of physical activity and obesity risk (FPO)"
26 "4- Smoking, drinking, diet and lack of physical activity risk (SAFP)"
27 "4- Smoking, diet, lack of physical activity and obesity risk (SFPO)"
28 "4- Smoking, drinking, diet and obesity risk (SAFO)"
29 "4- Drinking, diet, lack of physical activity and obesity risk (AFPO)"
30 "4- Smoking, lack of physical activity, obesity and drinking risk (SPOA)"
31 "All 5 risks".
```

raisedBP: (D) Raised BP
raisedchol: (D) Raised cholesterol
raisedglyc: (D) Raised glycated haemoglobin (>=48mmol/l)

0 No
1 Yes

SPSS Syntax

```
Numeric raisedBP (F8).
compute raisedBP=-11.
if (omsysval<0 & omdiaval<0) raisedBP=omsysval.
if bprespc=1 & (omsysval>0 & omsysval<140)|(omdiaval>0 & omdiaval<90) raisedBP=0.
if bprespc=1 & (omsysval>=140)|(omdiaval>=90) raisedBP=1.
variable label raisedBP "(D) Raised BP".
value labels raisedBP -8 "Don't know"
-7 "Refused, attempted but not obtained, not attempted" -1 "Not applicable" 0 "No" 1 "Yes".

NUMERIC  raisedchol (F8).
compute raisedchol=-2.
if any(cholfive3,-9,-8,-2,-1) raisedchol=-1.
if (cholval13>0 & cholval13<5) raisedchol=0.
if (cholval13>=5) raisedchol=1.
variable label raisedchol "(D) Raised cholesterol".
value labels raisedchol  -8 "Don't know"
-7 "Refused, attempted but not obtained, not attempted" -1 "Not applicable" 0 "No" 1 "Yes".

Numeric raisedglyc (F8).
compute raisedglyc=-11.
if iffcvalag4<0 raisedglyc=-1.
if (iffcvalag4=1|iffcvalag4=2) raisedglyc=0.
if (iffcvalag4=3|iffcvalag4=4) raisedglyc=1.
variable label raisedglyc "(D) Raised glycated haemoglobin (>=48mmol/l)".
value labels raisedglyc  -8 "Don't know"
-7 "Refused, attempted but not obtained, not attempted" -1 "Not applicable" 0 "No" 1 "Yes".
```

NoMuRiskBio: (D) Number of risks - raised BP, raised chol and raised glyc
NoMuRiskBio2: (D) Number of risks - raised BP, raised chol and raised glyc, grouped 2+

0 0-1 risks
1 2+ risks

SPSS Syntax

```
Numeric NoMuRiskBio (F8).
count NoMuRiskBio=raisedBP raisedchol raisedglyc (1).
if any (-1,raisedBP,raisedchol,raisedglyc) NoMuRiskBio = -1.
if any (-9,raisedBP,raisedchol,raisedglyc) NoMuRiskBio = -9.
if any (-8,raisedBP,raisedchol,raisedglyc) NoMuRiskBio = -8.
if any (-2,raisedBP,raisedchol,raisedglyc) NoMuRiskBio = -2.
if any (-6,raisedBP,raisedchol,raisedglyc) NoMuRiskBio = -6.
if any (-7,raisedBP,raisedchol,raisedglyc) NoMuRiskBio = -7.
if ag16g10<1 NoMuRiskBio=-1.
variable labels NoMuRiskBio "(D) Number of risks - raised BP, raised chol and raised glyc".
add value labels NoMuRiskBio
-7 "BP - refused, attempted but not obtained, not attempted"
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained".

NUMERIC NoMuRiskBio2 (f8).
recode NoMuRiskBio (0=0) (1=0) (2=1) (3=1) (else=copy) into  NoMuRiskBio2.
variable labels NoMuRiskBio2 "(D) Number of risks - raised BP, raised chol and raised glyc, grouped 2+".
add value labels NoMuRiskBio2
-7 "BP - refused, attempted but not obtained, not attempted"
0 "0-1 risks"
1 "2+ risks"
-1 "Item not applicable"
-2 "Schedule not applicable"
-8 "Don't know"
-9 "Refused"
-6 "Schedule not obtained".
fre NoMuRiskBio2.
```

Help with tasks

RECHLPI: (D) Did you receive help: Stairs (TASK I)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpi=-99.
*Not applicable aged<65yrs*.
IF rechlpi=-99 & range(age,0,64) rechlpi=-1.
*No help required for any task, ie independent*.
IF rechlpi=-99 & anyhlp=2 rechlpi=5.
*Received help but didn't need it*.
IF rechlpi=-99 & (taskhelpi=1 & tasksi=1)  rechlpi=1.
*Received help and needed it*.
IF rechlpi=-99 & (taskhelpi=1 & any(tasksi,2,3,4))  rechlpi=2.
*Did not receive help but needed it*.
IF rechlpi=-99 & (taskhelpi=2  & any(tasksi,2,3,4))  rechlpi=3.
*Did not receive help but didn't need it*.
IF rechlpi=-99 & (taskhelpi=2  & tasksi=1) rechlpi=4.
*Missing info on receipt of help or help needed*.
IF rechlpi=-99 & any(taskhelpi,-8,-9) | any(tasksi,-8,-9)  rechlpi=-8.
```

RECHLPH: (D) Did you receive help: Indoors (TASK H)

1 Received help but didn’t need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn’t need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlph=-99.
*Not applicable aged<65yrs*.
IF rechlph=-99 & range(age,0,64) rechlph=-1.
*No help required for any task, ie independent*.
IF rechlph=-99 & anyhlp=2 rechlph=5.
*Received help but didn't need it*.
IF rechlph=-99 & (taskhelph=1 & tasksh=1)  rechlph=1.
*Received help and needed it*.
IF rechlph=-99 & (taskhelph=1 & any(tasksh,2,3,4))  rechlph=2.
*Did not receive help but needed it*.
IF rechlph=-99 & (taskhelph=2  & any(tasksh,2,3,4))  rechlph=3.
*Did not receive help but didn't need it*.
IF rechlph=-99 & (taskhelph=2  & tasksh=1) rechlph=4.
*Missing info on receipt of help or help needed*.
IF rechlph=-99 & any(taskhelph,-8,-9) | any(tasksh,-8,-9)  rechlph=-8.
```

RECHLPA: (D) Did you receive help: Bed (TASK A)

1 Received help but didn’t need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn’t need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpa=-99.
*Not applicable aged<65yrs*.
IF rechlpa=-99 & range(age,0,64) rechlpa=-1.
*No help required for any task, ie independent*.
IF rechlpa=-99 & anyhlp=2 rechlpa=5.
*Received help but didn't need it*.
IF rechlpa=-99 & (taskhelpa=1 & tasksa=1)  rechlpa=1.
*Received help and needed it*.
IF rechlpa=-99 & (taskhelpa=1 & any(tasksa,2,3,4))  rechlpa=2.
*Did not receive help but needed it*.
IF rechlpa=-99 & (taskhelpa=2  & any(tasksa,2,3,4))  rechlpa=3.
*Did not receive help but didn't need it*.
IF rechlpa=-99 & (taskhelpa=2  & tasksa=1) rechlpa=4.
*Missing info on receipt of help or help needed*.
IF rechlpa=-99 & any(taskhelpa,-8,-9) | any(tasksa,-8,-9)  rechlpa=-8.
```

RECHLPC: (D) Did you receive help: Shower (TASK C)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpc=-99.
*Not applicable aged<65yrs*.
IF rechlpc=-99 & range(age,0,64) rechlpc=-1.
*No help required for any task, ie independent*.
IF rechlpc=-99 & anyhlp=2 rechlpc=5.
*Received help but didn't need it*.
IF rechlpc=-99 & (taskhelpc=1 & tasksc=1)  rechlpc=1.
*Received help and needed it*.
IF rechlpc=-99 & (taskhelpc=1 & any(tasksc,2,3,4))  rechlpc=2.
*Did not receive help but needed it*.
IF rechlpc=-99 & (taskhelpc=2  & any(tasksc,2,3,4))  rechlpc=3.
*Did not receive help but didn't need it*.
IF rechlpc=-99 & (taskhelpc=2  & tasksc=1) rechlpc=4.
*Missing info on receipt of help or help needed*.
IF rechlpc=-99 & any(taskhelpc,-8,-9) | any(tasksc,-8,-9)  rechlpc=-8.
```

RECHLPD: (D) Did you receive help: Dress (TASK D)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpd=-99.
*Not applicable aged<65yrs*.
IF rechlpd=-99 & range(age,0,64) rechlpd=-1.
*No help required for any task, ie independent*.
IF rechlpd=-99 & anyhlp=2 rechlpd=5.
*Received help but didn't need it*.
IF rechlpd=-99 & (taskhelpd=1 & tasksd=1)  rechlpd=1.
*Received help and needed it*.
IF rechlpd=-99 & (taskhelpd=1 & any(tasksd,2,3,4))  rechlpd=2.
*Did not receive help but needed it*.
IF rechlpd=-99 & (taskhelpd=2  & any(tasksd,2,3,4))  rechlpd=3.
*Did not receive help but didn't need it*.
IF rechlpd=-99 & (taskhelpd=2  & tasksd=1) rechlpd=4.
*Missing info on receipt of help or help needed*.
IF rechlpd=-99 & any(taskhelpd,-8,-9) | any(tasksd,-8,-9)  rechlpd=-8.
```

RECHLPB: (D) Did you receive help: Wash (TASK B)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpb=-99.
*Not applicable aged<65yrs*.
IF rechlpb=-99 & range(age,0,64) rechlpb=-1.
*No help required for any task, ie independent*.
IF rechlpb=-99 & anyhlp=2 rechlpb=5.
*Received help but didn't need it*.
IF rechlpb=-99 & (taskhelpb=1 & tasksb=1)  rechlpb=1.
*Received help and needed it*.
IF rechlpb=-99 & (taskhelpb=1 & any(tasksb,2,3,4))  rechlpb=2.
*Did not receive help but needed it*.
IF rechlpb=-99 & (taskhelpb=2  & any(tasksb,2,3,4))  rechlpb=3.
*Did not receive help but didn't need it*.
IF rechlpb=-99 & (taskhelpb=2  & tasksb=1) rechlpb=4.
*Missing info on receipt of help or help needed*.
IF rechlpb=-99 & any(taskhelpb,-8,-9) | any(tasksb,-8,-9)  rechlpb=-8.
```

RECHLPE: (D) Did you receive help: Toilet (TASK E)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpe=-99.
*Not applicable aged<65yrs*.
IF rechlpe=-99 & range(age,0,64) rechlpe=-1.
*No help required for any task, ie independent*.
IF rechlpe=-99 & anyhlp=2 rechlpe=5.
*Received help but didn't need it*.
IF rechlpe=-99 & (taskhelpe=1 & taskse=1)  rechlpe=1.
*Received help and needed it*.
IF rechlpe=-99 & (taskhelpe=1 & any(taskse,2,3,4))  rechlpe=2.
*Did not receive help but needed it*.
IF rechlpe=-99 & (taskhelpe=2  & any(taskse,2,3,4))  rechlpe=3.
*Did not receive help but didn't need it*.
IF rechlpe=-99 & (taskhelpe=2  & taskse=1) rechlpe=4.
*Missing info on receipt of help or help needed*.
IF rechlpe=-99 & any(taskhelpe,-8,-9) | any(taskse,-8,-9)  rechlpe=-8.
```

RECHLPG: (D) Did you receive help: Medicine (TASK G)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpg=-99.
EXECUTE.
*Not applicable aged<65yrs*.
IF rechlpg=-99 & range(age,0,64) rechlpg=-1.
*No help required for any task, ie independent*.
IF rechlpg=-99 & anyhlp=2 rechlpg=5.
*Received help but didn't need it*.
IF rechlpg=-99 & (taskhelpg=1 & tasksg=1)  rechlpg=1.
*Received help and needed it*.
IF rechlpg=-99 & (taskhelpg=1 & any(tasksg,2,3,4))  rechlpg=2.
*Did not receive help but needed it*.
IF rechlpg=-99 & (taskhelpg=2  & any(tasksg,2,3,4))  rechlpg=3.
*Did not receive help but didn't need it*.
IF rechlpg=-99 & (taskhelpg=2  & tasksg=1) rechlpg=4.
*Missing info on receipt of help or help needed*.
IF rechlpg=-99 & any(taskhelpg,-8,-9) | any(tasksg,-8,-9)  rechlpg=-8.
```

RECHLPF: (D) Did you receive help: Eat (TASK F)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpf=-99.
EXECUTE.
*Not applicable aged<65yrs*.
IF rechlpf=-99 & range(age,0,64) rechlpf=-1.
*No help required for any task, ie independent*.
IF rechlpf=-99 & anyhlp=2 rechlpf=5.
*Received help but didn't need it*.
IF rechlpf=-99 & (taskhelpf=1 & tasksf=1)  rechlpf=1.
*Received help and needed it*.
IF rechlpf=-99 & (taskhelpf=1 & any(tasksf,2,3,4))  rechlpf=2.
*Did not receive help but needed it*.
IF rechlpf=-99 & (taskhelpf=2  & any(tasksf,2,3,4))  rechlpf=3.
*Did not receive help but didn't need it*.
IF rechlpf=-99 & (taskhelpf=2  & tasksf=1) rechlpf=4.
*Missing info on receipt of help or help needed*.
IF rechlpf=-99 & any(taskhelpf,-8,-9) | any(tasksf,-8,-9)  rechlpf=-8.
```

RECHLPJ: (D) Did you receive help: House (TASK J)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpj=-99.
EXECUTE.
*Not applicable aged<65yrs*.
IF rechlpj=-99 & range(age,0,64) rechlpj=-1.
*No help required for any task, ie independent*.
IF rechlpj=-99 & anyhlp=2 rechlpj=5.
*Received help but didn't need it*.
IF rechlpj=-99 & (taskhelpj=1 & tasksj=1)  rechlpj=1.
*Received help and needed it*.
IF rechlpj=-99 & (taskhelpj=1 & any(tasksj,2,3,4))  rechlpj=2.
*Did not receive help but needed it*.
IF rechlpj=-99 & (taskhelpj=2  & any(tasksj,2,3,4))  rechlpj=3.
*Did not receive help but didn't need it*.
IF rechlpj=-99 & (taskhelpj=2  & tasksj=1) rechlpj=4.
*Missing info on receipt of help or help needed*.
IF rechlpj=-99 & any(taskhelpj,-8,-9) | any(tasksj,-8,-9)  rechlpj=-8.
```

RECHLPK: (D) Did you receive help: Shop (TASK K)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpk=-99.
EXECUTE.
*Not applicable aged<65yrs*.
IF rechlpk=-99 & range(age,0,64) rechlpk=-1.
*No help required for any task, ie independent*.
IF rechlpk=-99 & anyhlp=2 rechlpk=5.
*Received help but didn't need it*.
IF rechlpk=-99 & (taskhelpk=1 & tasksk=1)  rechlpk=1.
*Received help and needed it*.
IF rechlpk=-99 & (taskhelpk=1 & any(tasksk,2,3,4))  rechlpk=2.
*Did not receive help but needed it*.
IF rechlpk=-99 & (taskhelpk=2  & any(tasksk,2,3,4))  rechlpk=3.
*Did not receive help but didn't need it*.
IF rechlpk=-99 & (taskhelpk=2  & tasksk=1) rechlpk=4.
*Missing info on receipt of help or help needed*.
IF rechlpk=-99 & any(taskhelpk,-8,-9) | any(tasksk,-8,-9)  rechlpk=-8.
```

RECHLPL: (D) Did you receive help: Housework (TASK L)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpl=-99.
EXECUTE.
*Not applicable aged<65yrs*.
IF rechlpl=-99 & range(age,0,64) rechlpl=-1.
*No help required for any task, ie independent*.
IF rechlpl=-99 & anyhlp=2 rechlpl=5.
*Received help but didn't need it*.
IF rechlpl=-99 & (taskhelpl=1 & tasksl=1)  rechlpl=1.
*Received help and needed it*.
IF rechlpl=-99 & (taskhelpl=1 & any(tasksl,2,3,4))  rechlpl=2.
*Did not receive help but needed it*.
IF rechlpl=-99 & (taskhelpl=2  & any(tasksl,2,3,4))  rechlpl=3.
*Did not receive help but didn't need it*.
IF rechlpl=-99 & (taskhelpl=2  & tasksl=1) rechlpl=4.
*Missing info on receipt of help or help needed*.
IF rechlpl=-99 & any(taskhelpl,-8,-9) | any(tasksl,-8,-9)  rechlpl=-8.
```

RECHLPM: (D) Did you receive help: Paperwork (TASK M)

1 Received help but didn't need it
2 Received help and needed it
3 Did not receive help but needed it
4 Did not receive help but didn't need it
5 No help required for any task, ie independent

SPSS Syntax

```
COMPUTE rechlpm=-99.
*Not applicable aged<65yrs*.
IF rechlpm=-99 & range(age,0,64) rechlpm=-1.
*No help required for any task, ie independent*.
IF rechlpm=-99 & anyhlp=2 rechlpm=5.
*Received help but didn't need it*.
IF rechlpm=-99 & (taskhelpm=1 & tasksm=1)  rechlpm=1.
*Received help and needed it*.
IF rechlpm=-99 & (taskhelpm=1 & any(tasksm,2,3,4))  rechlpm=2.
*Did not receive help but needed it*.
IF rechlpm=-99 & (taskhelpm=2  & any(tasksm,2,3,4))  rechlpm=3.
*Did not receive help but didn't need it*.
IF rechlpm=-99 & (taskhelpm=2  & tasksm=1) rechlpm=4.
*Missing info on receipt of help or help needed*.
IF rechlpm=-99 & any(taskhelpm,-8,-9) | any(tasksm,-8,-9)  rechlpm=-8.
```

RECHELIBI: (D) Received help: Stairs (binary) (TASK I)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelibi=rechlpi.
IF rechlpi=1 or rechlpi=2 rechelibi=1.
IF any(rechlpi, 3,4,5) rechelibi=2.
```

RECHELHBI: (D) Received help: Indoors (binary) (TASK H)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelhbi=rechlph.
IF rechlph=1 or rechlph=2 rechelhbi=1.
IF any(rechlph, 3,4,5) rechelhbi=2.
```

RECHELABI: (D) Received help: Bed (binary) (TASK A)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelabi=rechlpa.
IF rechlpa=1 or rechlpa=2 rechelabi=1.
IF any(rechlpa, 3,4,5) rechelabi=2.
```

RECHELCBI: (D) Received help: Shower (binary) (TASK C)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelcbi=rechlpc.
IF rechlpc=1 or rechlpc=2 rechelcbi=1.
IF any(rechlpc, 3,4,5) rechelcbi=2.
```

RECHELDBI: (D) Received help: Dress (binary) (TASK D)

1 Help
2 No help

SPSS Syntax

```
COMPUTE recheldbi=rechlpd.
IF rechlpd=1 or rechlpd=2 recheldbi=1.
IF any(rechlpd, 3,4,5) recheldbi=2.
```

RECHELBBI: (D) Received help: Wash (binary) (TASK B)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelbbi=rechlpb.
IF rechlpb=1 or rechlpb=2 rechelbbi=1.
IF any(rechlpb, 3,4,5) rechelbbi=2.
```

RECHELEBI: (D) Received help: Toilet (binary) (TASK E)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelebi=rechlpe.
IF rechlpe=1 or rechlpe=2 rechelebi=1.
IF any(rechlpe, 3,4,5) rechelebi=2.
```

RECHELGBI: (D) Received help: Medicine (binary) (TASK G)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelgbi=rechlpg.
IF rechlpg=1 or rechlpg=2 rechelgbi=1.
IF any(rechlpg, 3,4,5) rechelgbi=2.
```

RECHELFBI: (D) Received help: Eat (binary) (TASK F)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelfbi=rechlpf.
IF rechlpf=1 or rechlpf=2 rechelfbi=1.
IF any(rechlpf, 3,4,5) rechelfbi=2.
```

RECHELJBI: (D) Received help: House (binary) (TASK J)

1 Help
2 No help

SPSS Syntax

```
COMPUTE recheljbi=rechlpj.
IF rechlpj=1 or rechlpj=2 recheljbi=1.
IF any(rechlpj, 3,4,5) recheljbi=2.
```

RECHELKBI: (D) Received help: Shop (binary) (TASK K)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelkbi=rechlpk.
IF rechlpk=1 or rechlpk=2 rechelkbi=1.
IF any(rechlpk, 3,4,5) rechelkbi=2.
```

RECHELLBI: (D) Received help: Housework (binary) (TASK L)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechellbi=rechlpl.
IF rechlpl=1 or rechlpl=2 rechellbi=1.
IF any(rechlpl, 3,4,5) rechellbi=2.
```

RECHELMBI: (D) Received help: Paperwork (binary) (TASK M)

1 Help
2 No help

SPSS Syntax

```
COMPUTE rechelmbi=rechlpm.
IF rechlpm=1 or rechlpm=2 rechelmbi=1.
IF any(rechlpm, 3,4,5) rechelmbi=2.
```

NDHLPI: (D) Need help: Stairs (binary) (TASK I)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksi (1=0) (2 thru 4=1) (-9=-8) (else=copy) INTO ndhlpi.
VALUE LABELS ndhlpi 0 'No' 1 'Yes' -8 'Don't know' .
```

NDHLPH: (D) Need help: Indoors (binary) (TASK H)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksh (1=0) (2 thru 4=1) (-9=-8) (else=copy) INTO ndhlph.
VALUE LABELS ndhlph 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPA: (D) Need help: Bed (binary) (TASK A)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksa  (1=0) (2 thru 4=1) (-9=-8) (else=copy)  INTO ndhlpa.
VALUE LABELS ndhlpa 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPC: (D) Need help: Shower (binary) (TASK C)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksc (1=0) (2 thru 4=1) (-9=-8) (else=copy) INTO ndhlpc.
VALUE LABELS ndhlpc 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPD: (D) Need help: Dress (binary) (TASK D)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksd (1=0) (2 thru 4=1) (-9=-8)(else=copy)  INTO ndhlpd.
VALUE LABELS ndhlpd 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPB: (D) Need help: Wash (binary) (TASK B)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksb (1=0) (2 thru 4=1) (-9=-8) (else=copy)  INTO ndhlpb.
VALUE LABELS ndhlpb 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPE: (D) Need help: Toilet (binary) (TASK E)

0 No
1 Yes

SPSS Syntax

```
RECODE taskse (1=0) (2 thru 4=1) (-9=-8) (else=copy)  INTO ndhlpe.
VALUE LABELS ndhlpe 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPG: (D) Need help: Medicine (binary) (TASK G)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksg (1=0) (2 thru 4=1) (-9=-8)(else=copy)  INTO ndhlpg.
VALUE LABELS ndhlpg 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPF: (D) Need help: Eat (binary) (TASK F)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksf (1=0) (2 thru 4=1) (-9=-8) (else=copy)  INTO ndhlpf.
VALUE LABELS ndhlpf 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPJ: (D) Need help: House (binary) (TASK J)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksj (1=0) (2 thru 4=1) (-9=-8) (else=copy) INTO ndhlpj.
VALUE LABELS ndhlpj 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPK: (D) Need help: Shop (binary) (TASK K)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksk (1=0) (2 thru 4=1) (-9=-8) (else=copy) INTO ndhlpk.
VALUE LABELS ndhlpk 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPL: (D) Need help: Housework (binary) (TASK L)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksl (1=0) (2 thru 4=1) (-9=-8)(else=copy) INTO ndhlpl.
VALUE LABELS ndhlpl 0 'No' 1 'Yes' -8 'Don't know'.
```

NDHLPM: (D) Need help: Paperwork (binary) (TASK M)

0 No
1 Yes

SPSS Syntax

```
RECODE tasksm (1=0) (2 thru 4=1) (-9=-8)(else=copy) INTO ndhlpm.
VALUE LABELS ndhlpm 0 'No' 1 'Yes' -8 'Don't know'.
```

ANYADL: (D) Needed help with any personal activities (ADLs)

0 No
1 Yes

SPSS Syntax

```
COMPUTE AnyADL=-99.
IF (ndhlpa=1 or ndhlpb=1 or ndhlpc=1 or ndhlpd=1 or ndhlpe=1 or ndhlpf=1 or ndhlpg=1 or ndhlph=1 or
ndhlpi=1) AnyADL=1.
IF (ndhlpa=0 and ndhlpb=0 and ndhlpc=0 and ndhlpd=0 and ndhlpe=0 and ndhlpf=0 and ndhlpg=0 and ndhlph=0
and ndhlpi=0) AnyADL=0.
IF AnyADL=-99 and ndhlpa=-1 AnyADL=-1.
IF AnyADL=-99 AnyADL=-8.
VARIABLE LABELS AnyADL "(D) Needed help with any personal activities (ADLs)".
VALUE LABELS AnyADL  0 'No' 1 'Yes' -1 'Not applicable' -8 'Don't know'.
```

ANYEXSH: (D) Needed help with any personal activities (ADLs excluding bath or shower)

0 No
1 Yes

SPSS Syntax

```
COMPUTE AnyExsh=-99.
IF (ndhlpa=1 or ndhlpb=1 or ndhlpd=1 or ndhlpe=1 or ndhlpf=1 or ndhlpg=1 or ndhlph=1 or ndhlpi=1)
AnyExsh=1.
IF (ndhlpa=0 and ndhlpb=0 and ndhlpd=0 and ndhlpe=0 and ndhlpf=0 and ndhlpg=0 and ndhlph=0 and ndhlpi=0)
AnyExsh=0.
IF AnyExsh=-99 and ndhlpa=-1 AnyExsh=-1.
IF AnyExsh=-99 AnyExsh=-8.
VARIABLE LABELS AnyExsh "(D) Needed help with any personal activities (ADLs excl bath or shower)".
VALUE LABELS AnyExsh  0 'No' 1 'Yes' -1 'Not applicable' -8 'Don't know'.
```

ANYEXSH2: (D) Needed help with any personal activities (ADLs excl bath, shower, toilet, indoors and stairs)

0 No
1 Yes

SPSS Syntax

```
Compute AnyExsh2=-99.
If AnyExsh2=-99 and (ndhlpa=1 or ndhlpb=1 or ndhlpd=1 or ndhlpf=1 or ndhlpg=1) AnyExsh2=1.
If AnyExsh2=-99 and (ndhlpa=0 and ndhlpb=0 and ndhlpd=0 and ndhlpf=0 and ndhlpg=0) AnyExsh2=0.
if AnyExsh2=-99 and ndhlpa=-1 AnyExsh2=-1.
IF AnyExsh2=-99 AnyExsh2=-8.
VARIABLE LABELS AnyExsh2 "(D) Needed help with any personal activities (ADLs excl bath or shower, toilet,
indoors & stairs)".
VALUE LABELS AnyExsh2  0 'No' 1 'Yes' -1 'Not applicable' -8 'Don't know'.
```

INDOORADL: (D) Needed help with any indoor activities (ADLs: Getting around indoors, getting up and down stairs)

0 No
1 Yes

SPSS Syntax

```
Compute IndoorADL=-99.
IF (ndhlph=1 | ndhlpi=1) IndoorADL=1.
IF ndhlph=0 and ndhlpi=0 IndoorADL=0.
IF IndoorADL=-99 and ndhlph=-1 IndoorADL=-1.
IF IndoorADL=-99 IndoorADL=-8.
VARIABLE LABELS IndoorADL "(D) Needed help with any indoor activities (ADLs: Getting around indoors,
getting up and down stairs)".
VALUE LABELS IndoorADL 0 'No' 1 'Yes' -1 'Not applicable' -8 'Refused'.
```

ANYIADL: (D) Need help with any instrumental activities (IADLs: getting out of house,food shopping, routine housework,doing paperwork/bills

0 No
1 Yes

SPSS Syntax

```
COMPUTE AnyIADL=-1.
IF (ndhlpj=1 or ndhlpk=1 or ndhlpl=1 or ndhlpm=1) AnyIADL=1.
IF (ndhlpj=0 and ndhlpk=0 and ndhlpl=0 and ndhlpm=0) AnyIADL=0.
if AnyIADL=-99 and ndhlpj=-1 AnyIADL=-1.
IF AnyIADL=-99 AnyIADL=-8.
VARIABLE LABELS AnyIADL "(D) Needed help with any instrumental activities (IADLs: getting out of
house,food shopping, routine housework,doing paperwork/bills)".
VALUE LABELS AnyIADL 0 'No' 1 'Yes' -1 'Not applicable' -8 'Don't know'.
```

HELPADL: (D) Received help for any personal activities (ADLs)

0 No
1 Yes

SPSS Syntax

```
COMPUTE HelpADL=-99.
IF (taskhelpa=1 or taskhelpb=1 or taskhelpc=1 or taskhelpd=1 or taskhelpe=1 or taskhelpf=1 or taskhelpg=1
or taskhelph=1 or taskhelpi=1) HelpADL=1.
IF (taskhelpa=2 and taskhelpb=2 and taskhelpc=2 and taskhelpd=2 and taskhelpe=2 and taskhelpf=2 and
taskhelpg=2 and taskhelph=2 and taskhelpi=2)  | anyhlp=2 HelpADL=0.
IF HelpADL=-99 & range(age, 0,64) HelpADL=-1.
IF HelpADL=-99  HelpADL=-8.
VARIABLE LABELS HelpADL "(D) Received help for any personal activities (ADLs)".
VALUE LABELs HelpADL 0 'No' 1 'Yes' -1 'Not applicable' -8 'Don't know'.
```

HELPEXSH: (D) Received help for any personal activities (ADLs excluding bath or shower)

SPSS Syntax

```
COMPUTE HelpExsh=-99.
IF (taskhelpa=1 or taskhelpb=1 or taskhelpd=1 or taskhelpe=1 or taskhelpf=1 or taskhelpg=1 or taskhelph=1
or taskhelpi=1) HelpExsh=1.
IF (taskhelpa=2 and taskhelpb=2 and taskhelpd=2 and taskhelpe=2 and taskhelpf=2 and taskhelpg=2 and
taskhelph=2 and taskhelpi=2)  | anyhlp=2 HelpExsh=0.
IF HelpExsh=-99 & range(age, 0,64) HelpExsh=-1.
IF HelpExsh=-99  HelpExsh=-8.
VARIABLE LABELS HelpExsh "(D) Received help for any personal activities (ADLs excl bath or shower)".
VALUE LABELS HelpExsh 0 'No' 1 'Yes'.
```

HELPEXSH2: (D) Received help for any personal activities (ADLs excl bath or shower, toilet, indoors or stairs)

0 No
1 Yes

SPSS Syntax

```
COMPUTE HelpExsh2=-99.
IF (taskhelpa=1 or taskhelpb=1 or taskhelpd=1 or taskhelpf=1 or taskhelpg=1) HelpExsh2=1.
IF (taskhelpa=2 and taskhelpb=2 and taskhelpd=2 and taskhelpf=2 and taskhelpg=2) | anyhlp=2 HelpExsh2=0.
IF HelpExsh2=-99 & range(age, 0,64) HelpExsh2=-1.
IF HelpExsh2=-99  HelpExsh2=-8.
VARIABLE LABELS HelpExsh2 "(D) Received help for any personal activities (ADLs excl bath or shower,
toilet, indoors & stairs)".
VALUE LABELS HelpExsh2 0 'No' 1 'Yes'.
```

HELPINDOOR: (D) Received help with any indoor activities (ADL: Getting around indoors, getting up and down stairs)

0 No
1 Yes

SPSS Syntax

```
COMPUTE HelpIndoor=-99.
IF  (taskhelph=1 | taskhelpi=1) HelpIndoor=1.
IF  ((taskhelph=2 and taskhelpi=2)  | anyhlp=2) HelpIndoor=0.
IF HelpIndoor=-99 & range(age, 0,64) HelpIndoor= -1.
IF HelpIndoor=-99 HelpIndoor= -8.
VARIABLE LABELS HelpIndoor "(D) Received help with any indoor activities (ADLs: Getting around indoors,
getting up and down stairs)".
VALUE LABELS HelpIndoor 0 'No' 1 'Yes' -1 'Not applicable' -8 ‘Don’t know’.
```

HELPIADL: (D) Received help with any instrumental activities (IADLs: getting out of house, food shopping, routine housework, doing paperwork/ bills)

0 No
1 Yes

SPSS Syntax

```
COMPUTE HelpIADL=-99.
IF (taskhelpj=1 or taskhelpk=1 or taskhelpl=1 or taskhelpm=1) HelpIADL=1.
IF (taskhelpj=2 and taskhelpk=2 and taskhelpl=2 and taskhelpm=2)  | anyhlp=2 HelpIADL=0.
IF HelpIADL=-99 & range(age, 0,64) HelpIADL= -1.
IF HelpIADL=-99 HelpIADL= -8.
VARIABLE LABELS HelpIADL "(D) Received help with any instrumental activities (IADLs: getting out of
house,food shopping, routine housework,doing paperwork/bills)".
VALUE LABELS HelpIADL 0 'No' 1 'Yes' -1 'Not applicable' -8 ‘Don’t know’.
```

HlpTasks3: (D) Number of ADLs or IADLs for which help was needed, 3 groups

0 No help needed with ADLs or IADLs
1 Help needed with one ADL or IADL
2 Help needed with two or more ADLs or IADLs

SPSS Syntax

```
count HlpTasks3 = ndhlpi ndhlph  ndhlpa ndhlpc ndhlpd ndhlpb ndhlpe ndhlpg ndhlpf ndhlpj ndhlpk ndhlpl
ndhlpm (1).
Recode HlpTasks3 (2 thru hi = 2).
if (HlpTasks3  lt 2) and ANY(-8, ndhlpi, ndhlph,  ndhlpa, ndhlpc, ndhlpd, ndhlpb, ndhlpe, ndhlpg, ndhlpf,
ndhlpj, ndhlpk, ndhlpl, ndhlpm) HlpTasks3 = -8.
if age lt 65 HlpTasks3 = -1.
if (HlpTasks3  lt 2) and ANY(-9, ndhlpi, ndhlph,  ndhlpa, ndhlpc, ndhlpd, ndhlpb, ndhlpe, ndhlpg, ndhlpf,
ndhlpj, ndhlpk, ndhlpl, ndhlpm) HlpTasks3 = -9.
variable labels HlpTasks3 "(D) Number of ADLs or IADLs for which help was needed, 3 groups".
add value labels HlpTasks3
0 "No help needed with ADLs or IADLs" 1 "Help needed with one ADL or IADL"
2 "Help needed with two or more ADLs or IADLs" -1 "Not applicable"  -8 "Don't know" -9 "Refused".
```

UNMETI: (D) Unmet need: Stairs (TASK I)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmeti=-99.
IF ndhlpi=1 AND taskhelpi=2 Unmeti=1.
IF ndhlpi=1 AND taskhelpi=1 Unmeti=2.
IF ndhlpi=0 Unmeti=3.
IF ndhlpi=-1 Unmeti=-1.
IF any(-8, ndhlpi, TaskHelpi) Unmeti=-8.
```

```
VARIABLE LABELS Unmeti  "(D) Unmet need: Stairs (TASK I)".
VALUE LABELS Unmeti 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETH: (D) Unmet need: Indoors (TASK H)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmeth=-99.
IF ndhlph=1 AND taskhelph=2 Unmeth=1.
IF ndhlph=1 AND taskhelph=1 Unmeth=2.
IF ndhlph=0 Unmeth=3.
IF ndhlph=-1 Unmeth=-1.
IF any(-8, ndhlph, TaskHelph) Unmeth=-8.
VARIABLE LABELS Unmeth  "(D) Unmet need: Indoors (TASK H)".
VALUE LABELS Unmeth 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETA: (D) Unmet need: Bed (TASK A)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmeta=-99.
IF ndhlpa=1 AND taskhelpa=2 Unmeta=1.
IF ndhlpa=1 AND taskhelpa=1 Unmeta=2.
IF ndhlpa=0 Unmeta=3.
IF ndhlpa=-1 Unmeta=-1.
IF any(-8, ndhlpa, TaskHelpa) Unmeta=-8.
VARIABLE LABELS Unmeta  "(D) Unmet need: Bed (TASK A)".
VALUE LABELS Unmeta 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETC: (D) Unmet need: Shower (TASK C)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetc=-99.
IF ndhlpc=1 AND taskhelpc=2 Unmetc=1.
IF ndhlpc=1 AND taskhelpc=1 Unmetc=2.
IF ndhlpc=0 Unmetc=3.
IF ndhlpc=-1 Unmetc=-1.
IF any(-8, ndhlpc, TaskHelpc) Unmetc=-8.
VARIABLE LABELS Unmetc  "(D) Unmet need: Shower (TASK C)".
VALUE LABELS Unmetc 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETD: (D) Unmet need: Dress (TASK D)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetd=-99.
IF ndhlpd=1 AND taskhelpd=2 Unmetd=1.
IF ndhlpd=1 AND taskhelpd=1 Unmetd=2.
IF ndhlpd=0 Unmetd=3.
IF ndhlpd=-1 Unmetd=-1.
IF any(-8, ndhlpd, TaskHelpd) Unmetd=-8.
VARIABLE LABELS Unmetd  "(D) Unmet need: Dress (TASK D)".
VALUE LABELS Unmetd 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETB: (D) Unmet need: Wash (TASK B)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetb=-99.
IF ndhlpb=1 AND taskhelpb=2 Unmetb=1.
IF ndhlpb=1 AND taskhelpb=1 Unmetb=2.
IF ndhlpb=0 Unmetb=3.
IF ndhlpb=-1 Unmetb=-1.
IF any(-8, ndhlpb, TaskHelpb) Unmetb=-8.
VARIABLE LABELS Unmetb  "(D) Unmet need: Wash (TASK B)".
VALUE LABELS Unmetb 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETE: (D) Unmet need: Toilet (TASK E)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmete=-99.
IF ndhlpe=1 AND taskhelpe=2 Unmete=1.
IF ndhlpe=1 AND taskhelpe=1 Unmete=2.
IF ndhlpe=0 Unmete=3.
IF ndhlpe=-1 Unmete=-1.
IF any(-8, ndhlpe, TaskHelpe) Unmete=-8.
VARIABLE LABELS Unmete  "(D) Unmet need: Toilet (TASK E)".
VALUE LABELS Unmete 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETG: (D) Unmet need: Medicine (TASK G)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetg=-99.
IF ndhlpg=1 AND taskhelpg=2 Unmetg=1.
IF ndhlpg=1 AND taskhelpg=1 Unmetg=2.
IF ndhlpg=0 Unmetg=3.
IF ndhlpg=-1 Unmetg=-1.
IF any(-8, ndhlpg, TaskHelpg) Unmetg=-8.
VARIABLE LABELS Unmetg  "(D) Unmet need: Medicine (TASK G)".
VALUE LABELS Unmetg 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETF: (D) Unmet need: Eat (TASK F)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetf=-99.
IF ndhlpf=1 AND taskhelpf=2 Unmetf=1.
IF ndhlpf=1 AND taskhelpf=1 Unmetf=2.
IF ndhlpf=0 Unmetf=3.
IF ndhlpf=-1 Unmetf=-1.
IF any(-8, ndhlpf, TaskHelpf) Unmetf=-8.
VARIABLE LABELS Unmetf  "(D) Unmet need: Eat (TASK F)".
VALUE LABELS Unmetf 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'
```

UNMETJ: (D) Unmet need: House (TASK J)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetj=-99.
IF ndhlpj=1 AND taskhelpj=2 Unmetj=1.
IF ndhlpj=1 AND taskhelpj=1 Unmetj=2.
IF ndhlpj=0 Unmetj=3.
IF ndhlpj=-1 Unmetj=-1.
IF any(-8, ndhlpj, TaskHelpj) Unmetj=-8.
VARIABLE LABELS Unmetj  "(D) Unmet need: House (TASK J)".
VALUE LABELS Unmetj 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETK: (D) Unmet need: Shop (TASK K)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetk=-99.
IF ndhlpk=1 AND taskhelpk=2 Unmetk=1.
IF ndhlpk=1 AND taskhelpk=1 Unmetk=2.
IF ndhlpk=0 Unmetk=3.
IF ndhlpk=-1 Unmetk=-1.
IF any(-8, ndhlpk, TaskHelpk) Unmetk=-8.
VARIABLE LABELS Unmetk  "(D) Unmet need: Shop (TASK K)".
VALUE LABELS Unmetk 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETL: (D) Unmet need: Housework (TASK L)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetl=-99.
IF ndhlpl=1 AND taskhelpl=2 Unmetl=1.
IF ndhlpl=1 AND taskhelpl=1 Unmetl=2.
IF ndhlpl=0 Unmetl=3.
IF ndhlpl=-1 Unmetl=-1.
IF any(-8, ndhlpl, TaskHelpl) Unmetl=-8.
VARIABLE LABELS Unmetl  "(D) Unmet need: Housework (TASK L)".
VALUE LABELS Unmetl 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNMETM: (D) Unmet need: Paperwork (TASK M)

1 Unmet
2 Met
3 No need

SPSS Syntax

```
COMPUTE Unmetm=-99.
IF ndhlpm=1 AND taskhelpm=2 Unmetm=1.
IF ndhlpm=1 AND taskhelpm=1 Unmetm=2.
IF ndhlpm=0 Unmetm=3.
IF ndhlpm=-1 Unmetm=-1.
IF any(-8, ndhlpm, TaskHelpm) Unmetm=-8.
VARIABLE LABELS Unmetm  "(D) Unmet need: Paperwork/Bills (TASK M)".
VALUE LABELS Unmetm 1 'Unmet' 2 'Met' 3 'No need'  -1 'Not applicable' -8 'Don't know'.
```

UNADL: (D) Unmet need: Any personal activities

0 No
1 Yes

SPSS Syntax

```
COMPUTE UnADL=-99.
IF ANY(1,Unmeta, Unmetb, Unmetc, Unmetd, Unmete, Unmetf, Unmetg, Unmeth, Unmeti) UnADL=1.
IF UnADL=-99 & ANY(2,Unmeta, Unmetb, Unmetc, Unmetd, Unmete, Unmetf, Unmetg, Unmeth, Unmeti)  UnADL=0.
IF UnADL=-99 & ANY(3,Unmeta, Unmetb, Unmetc, Unmetd, Unmete, Unmetf, Unmetg, Unmeth, Unmeti)  UnADL=0.
IF (Unmeta=-8 and Unmetb=-8 and Unmetc=-8 and Unmetd=-8 and Unmete=-8 and Unmetf=-8 and Unmetg=-8 and
Unmeth=-8 and Unmeti=-8)  UnADL=-8.
IF Unmeta=-1 UnADL=-1.
VARIABLE LABELS UnADL "(D) Unmet need for any personal activities (ADLs)".
VALUE LABELS UnADL 0 'No' 1 'Yes' -8 'Don't know' -1 "Not applicable" .
```

UNADL2: (D) Whether any unmet need for any personal activities (ADLs)

1 Yes, unmet need
2 No, all needs met
3 No need

SPSS Syntax

```
COMPUTE UnADL2=-99.
IF ANY(1,Unmeta, Unmetb, Unmetc, Unmetd, Unmete, Unmetf, Unmetg, Unmeth, Unmeti) UnADL2=1.
IF UnADL2=-99 & ANY(2, Unmeta, Unmetb, Unmetc, Unmetd, Unmete, Unmetf, Unmetg, Unmeth, Unmeti) UnADL2=2.
IF UnADL2=-99 & (Unmeta=3 and Unmetb=3 and Unmetc=3 and Unmetd=3 and Unmete=3 and Unmetf=3 and Unmetg=3
and Unmeth=3 and Unmeti=3)  UnADL2=3.
IF UnADL2<>1 & ANY(-8, Unmeta, Unmetb, Unmetc, Unmetd, Unmete, Unmetf, Unmetg, Unmeth, Unmeti) UnADL2=-8.
IF Unmeta=-1 UnADL2=-1.
VARIABLE LABELS UnADL2 "(D) Whether any unmet need for any personal activities (ADLs)".
VALUE LABELS UnADL2  1 'Yes, unmet need' 2 "No, all needs met" 3 "No need" -8 "Refused" -1 "Not
applicable"
```

UNIADL: (D) Unmet need: Any instrumental activities

0 No
1 Yes

SPSS Syntax

```
COMPUTE UnIADL=-99.
IF ANY(1,Unmetj, Unmetk, Unmetl, Unmetm) UnIADL=1.
IF UnIADL=-99 & ANY(2,Unmetj, Unmetk, Unmetl, Unmetm)  UnIADL=0.
IF UnIADL=-99 & ANY(3,Unmetj, Unmetk, Unmetl, Unmetm) UnIADL=0.
IF (Unmetj=-8 and Unmetk=-8 and Unmetl=-8 and Unmetm=-8)  UnIADL=-8.
IF Unmetj=-1 UnIADL=-1.
VARIABLE LABELS UnIADL "(D) Unmet need for any instrumental activities (IADLs)".
VALUE LABELS UnIADL 0 'No' 1 'Yes' -8 'Don't know' -1 "Not applicable" .
```

UNIADL2: (D) Whether any unmet need for any instrumental activities (IADLs)

1 Yes, unmet need
2 No all needs met
3 No Need

SPSS Syntax

```
COMPUTE UnIADL2=-99.
IF ANY(1,Unmetj, Unmetk, Unmetl, Unmetm) UnIADL2=1.
IF UnIADL2=-99 & ANY(2, Unmetj, Unmetk, Unmetl, Unmetm) UnIADL2=2.
IF UnIADL2=-99 & (Unmetj=3 and Unmetk=3 and Unmetl=3 and Unmetm=3)  UnIADL2=3.
IF UnIADL2<>1 & ANY(-8, Unmetj, Unmetk, Unmetl, Unmetm) UnIADL2=-8.
IF Unmetj=-1 UnIADL2=-1.
VARIABLE LABELS UnIADL2 "(D) Whether any unmet need for any instrumental activities (IADLs)".
VALUE LABELS UnIADL2  1 'Yes, Unmet need' 2 "No all needs met" 3 "No need" -8 "Refused" -1 "Not
applicable" .
```

UNIADL3: (D) Whether any unmet ADL and/or IDL needs

1 Yes, some unmet ADL and/or IDL needs
2 No, all needs met
3 No need

SPSS Syntax

```
numeric UnIADL3 (F3).
compute UnIADL3 =-99.
if UnADL2 = 3 and  UnIADL2  =3 UnIADL3  = 3.
if UnIADL3 =-99  and  (UnADL2 = 2 and  UnIADL2  =2) UnIADL3  = 2.
if UnIADL3 =-99  and (UnADL2 = 3 and  UnIADL2  =2) UnIADL3  = 2.
if UnIADL3 =-99  and (UnADL2 = 2 and  UnIADL2  =3) UnIADL3  = 2.
if UnADL2  = -8 or UnIADL2  = -8 UnIADL3 = -8.
if  (UnADL2 = 1 or  UnIADL2  =1) UnIADL3 =1. if UnADL2 = -1 and UnIADL2 =-1 UnIADL3 = -1. exe.
variable labels UnIADL3 "(D) Whether any unmet ADL and/or IDL needs".
value labels UnIADL3
-8 "Don't know"
-1 "Not applicable"
1 "Yes, some unmet ADL and/or IDL needs"
2 "No, all needs met"
3 "No need".
```

RECHELP: (D) Received help with ADLs/IADLs in the last month

0 No
1 Yes

SPSS Syntax

```
COMPUTE RecHelp=-99.
IF helpADL=1 or helpIADL=1 rechelp=1.
IF helpADL=0 and helpIADL=0 rechelp=0.
IF RecHelp=-99 & any(-8, helpADL,  helpIADL) RecHelp=-8.
IF RecHelp=-99 & helpADL=-1 RecHelp=-1.
VARIABLE LABELS rechelp "(D) Received help with ADLs/IADLs in the last month".
VALUE LABELS rechelp 0 "No " 1 "Yes".
```

Formal help

DHELPFOHC: (D) Home care worker helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpfoHC=-99.
if any(1, hlpform01, hlpform10, hlpform19, hlpform28) DhelpfoHC=1.
if DhelpfoHC=-99 & helpADL=1 DhelpfoHC=0.
if DhelpfoHC=-99 & helpADL=0 DhelpfoHC=-2.
if DhelpfoHC=-99 & helpADL<0 DhelpfoHC=helpADL.
if  hlpform01=-8 & hlpform10=-8 & hlpform19=-8 & hlpform28=-8 DhelpfoHC=-8.
EXECUTE.
VARIABLE LABELS DhelpfoHC '(D) Home care worker helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpfoHC 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPFOOT: (D) Other formal helper, helped with ADL tasks (A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpfoOT=-99.
```

```
if (any(1,hlpform02, hlpform11, hlpform20, hlpform29) | any(1,hlpform03, hlpform12, hlpform21, hlpform30)
| any(1, hlpform04, hlpform13, hlpform22, hlpform31) |
    any(1,hlpform05, hlpform14, hlpform23, hlpform32) | any(1,hlpform06, hlpform15, hlpform24, hlpform33)
|
    any(1,hlpform07, hlpform16, hlpform25, hlpform34) | any(1,hlpform08, hlpform17, hlpform26, hlpform35))
DhelpfoOT=1.
if DhelpfoOT=-99 & helpADL=1 DhelpfoOT=0.
if DhelpfoOT=-99 & helpADL=0 DhelpfoOT=-2.
if DhelpfoOT=-99 & helpADL<0 DhelpfoOT=helpADL.
if hlpform02=-8 & hlpform11=-8 & hlpform20=-8 & hlpform29=-8 & hlpform03=-8 & hlpform12=-8 & hlpform21=-8
&   hlpform30=-8 & hlpform04=-8 & hlpform13=-8 & hlpform22=-8 & hlpform31=-8 & hlpform05=-8 & hlpform14=-8
&    hlpform23=-8 & hlpform32=-8 & hlpform06=-8 & hlpform15=-8 & hlpform24=-8 & hlpform33=-8 & hlpform07=-
8 &    hlpform16=-8 & hlpform25=-8 & hlpform34=-8 & hlpform08=-8 & hlpform17=-8 & hlpform26=-8 &
hlpform35=-8 DhelpfoOT=-8.
VARIABLE LABELS DhelpfoOT '(D) Other formal helper helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpfoOT 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPFONO: (D) No formal helpers helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpfoNO=-99.
if any(1,hlpform09, hlpform18, hlpform27, hlpform36) & ~any(0,hlpform09, hlpform18, hlpform27, hlpform36)
& anyhlp=1 DhelpfoNO=1.
if DhelpfoNO=-99 & helpADL=1 DhelpfoNO=0.
if DhelpfoNO=-99 & helpADL=0 DhelpfoNO=-2.
if DhelpfoNO=-99 & helpADL<0 DhelpfoNO=helpADL.
IF hlpform09=-8 & hlpform18=-8 & hlpform27=-8 & hlpform36=-8  DhelpfoNO=-8.
VARIABLE LABELS DhelpfoNO '(D) No formal helpers helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpfoNO 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DANYFO: (D) Any formal helper helped with ADLs (tasks A-I)

0 No formal helper
1 Formal helper

SPSS Syntax

```
COMPUTE DanyFo=-99.
IF any(1, DhelpfoHC, DhelpfoOT) DanyFo=1.
if DanyFo=-99 & helpADL=1 DanyFo= 0.
if DanyFo=-99 & helpADL=0 DanyFo=-2.
if DanyFo=-99 & helpADL<0 DanyFo=helpADL.
IF DhelpfoHC=-8 & DhelpfoOT=-8 DanyFo=-8.
var labels DanyFo '(D) Any formal helper helped with ADL tasks (A-I)'.
VALUE LABELS DanyFo 1 'Yes'  0 'No'  -8 'Don't know'  -2 'No help received' -1 'Not applicable'.
```

DHELPFOHCI: (D) Home care worker helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpfoHCi=-99.
if  (checkA2=2 & recheljbi~=1)  DhelpfoHCi=-1.
if hlpform37=1 DhelpfoHCi=1.
if DhelpfoHCi=-99 & helpIADL=1 DhelpfoHCi=0.
if DhelpfoHCi=-99 & helpIADL=0 DhelpfoHCi=-2.
if DhelpfoHCi=-99 & helpIADL<0 DhelpfoHCi=helpIADL.
if hlpform37=-8 DhelpfoHCi=-8.
VARIABLE LABELS DhelpfoHCi '(D) Home care worker helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpfoHCi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPFOOTI: (D) Other formal helper helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpfoOTi=-99.
if  (checkA2=2 & recheljbi~=1)  DhelpfoOTi=-1.
if any(1,hlpform38, hlpform39, hlpform40, hlpform41, hlpform42, hlpform43, hlpform44) DhelpfoOTi=1.
if DhelpfoOTi=-99 & helpIADL=1 DhelpfoOTi=0.
if DhelpfoOTi=-99 & helpIADL=0 DhelpfoOTi=-2.
if DhelpfoOTi=-99 & helpIADL<0 DhelpfoOTi=helpIADL.
if  hlpform38=-8 & hlpform39=-8 & hlpform40=-8 & hlpform41=-8 & hlpform42=-8 & hlpform43=-8 & hlpform44=-8
DhelpfoOTi=-8.
VARIABLE LABELS DhelpfoOTi '(D) Other formal helper helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpfoOTi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPFONOI: (D) No formal helpers helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpfoNOi=-99.
if  (checkA2=2 & recheljbi~=1)  DhelpfoNOi=-1.
if hlpform45=1 & anyhlp=1 DhelpfoNOi=1.
if DhelpfoNOi=-99 & helpIADL=1 DhelpfoNOi=0.
if DhelpfoNOi=-99 & helpIADL=0 DhelpfoNOi=-2.
if DhelpfoNOi=-99 & helpIADL<0 DhelpfoNOi=helpIADL.
if hlpform45=-8 DhelpfoNOi=-8.
EXECUTE.
VARIABLE LABELS DhelpfoNOi '(D) No formal helpers helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpfoNOi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DANYFOI: (D) Any formal helper helped with IADL tasks (J-M)

0 No formal helper
1 Formal helper

SPSS Syntax

```
COMPUTE DanyFoi=-99.
if  (checkA2=2 & recheljbi~=1) DanyFoi=-1.
IF any(1, DhelpfoHCi, DhelpfoOTi) DanyFoi=1.
if DanyFoi=-99 & helpIADL=1 DanyFoi= 0.
if DanyFoi=-99 & helpIADL=0 DanyFoi=-2.
if DanyFoi=-99 & helpIADL<0 DanyFoi=helpIADL.
if  DhelpfoHCi=-8 & DhelpfoOTi=-8 DanyFoi=-8.
var labels DanyFoi '(D) Any formal helper helped with IADL tasks (J-M)'.
VALUE LABELS DanyFoi 1 'Yes'  0 'No'  -8 'Don't know'  -2 'No help received' -1 'Not applicable'.
```

Informal help

DHELPINSP: (D) Spouse/ partner helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinSP=-99.
if any (1,hlpinf01, hlpinf12, hlpinf23, hlpinf34) DhelpinSP=1.
if DhelpinSP=-99 & helpADL=1 DhelpinSP=0.
if DhelpinSP=-99 & helpADL=0 DhelpinSP=-2.
if DhelpinSP=-99 & helpADL<0 DhelpinSP=helpADL.
if hlpinf01=-8 & hlpinf12=-8 & hlpinf23=-8 & hlpinf34=-8 DhelpinSP=-8.
EXECUTE.
VARIABLE LABELS DhelpinSP '(D) Spouse/partner helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpinSP 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINSO: (D) Son helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinSO=-99.
if any (1,hlpinf02, hlpinf13, hlpinf24, hlpinf35) DhelpinSO=1.
if DhelpinSO=-99 & helpADL=1 DhelpinSO=0.
if DhelpinSO=-99 & helpADL=0 DhelpinSO=-2.
if DhelpinSO=-99 & helpADL<0 DhelpinSO=helpADL.
if  hlpinf02=-8 & hlpinf13=-8 & hlpinf24=-8 & hlpinf35=-8 DhelpinSO=-8.
EXECUTE.
VARIABLE LABELS DhelpinSO '(D) Son helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpinSO 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINDA: (D) Daughter helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinDA=-99.
if any (1,hlpinf03, hlpinf14, hlpinf25, hlpinf36) DhelpinDA=1.
if DhelpinDA=-99 & helpADL=1 DhelpinDA=0.
```

```
if DhelpinDA=-99 & helpADL=0 DhelpinDA=-2.
if DhelpinDA=-99 & helpADL<0 DhelpinDA=helpADL.
if hlpinf03=-8 & hlpinf14=-8 & hlpinf25=-8 & hlpinf36=-8 DhelpinDA=-8.
EXECUTE.
VARIABLE LABELS DhelpinDA '(D) Daughter helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpinDA 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINFN: (D) Friend or neighbour, ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinFN=-99.
if any (1,hlpinf09, hlpinf20, hlpinf31, hlpinf42) | any(1,hlpinf10, hlpinf21, hlpinf32, hlpinf43)
DhelpinFN=1.
if DhelpinFN=-99 & helpADL=1 DhelpinFN=0.
if DhelpinFN=-99 & helpADL=0 DhelpinFN=-2.
if DhelpinFN=-99 & helpADL<0 DhelpinFN=helpADL.
if hlpinf09=-8 & hlpinf20=-8 & hlpinf31=-8 & hlpinf42=-8 & hlpinf10=-8 & hlpinf21=-8 & hlpinf32=-8 &
hlpinf43=-8 DhelpinFN=-8.
EXECUTE.
VARIABLE LABELS DhelpinFN '(D) Freind/Neighbour helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpinFN 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINOT: (D) Other family member helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinOT=-99.
if (any(1,hlpinf04, hlpinf15, hlpinf26, hlpinf37) | any(1,hlpinf05, hlpinf16, hlpinf27, hlpinf38) | any(1,
hlpinf06, hlpinf17, hlpinf28, hlpinf39) | any(1,hlpinf07, hlpinf18, hlpinf29, hlpinf40) | any(1,hlpinf08,
hlpinf19, hlpinf30, hlpinf41) ) DhelpinOT=1.
if DhelpinOT=-99 & helpADL=1 DhelpinOT=0.
if DhelpinOT=-99 & helpADL=0 DhelpinOT=-2.
if DhelpinOT=-99 & helpADL<0 DhelpinOT=helpADL.
if hlpinf04=-8 & hlpinf15=-8 & hlpinf26=-8 & hlpinf37=-8 & hlpinf05=-8 & hlpinf16=-8 & hlpinf27=-8 &
hlpinf38=-8 & hlpinf06=-8 & hlpinf17=-8 &
   hlpinf28=-8 & hlpinf39=-8 & hlpinf07=-8 & hlpinf18=-8 & hlpinf29=-8 & hlpinf40=-8 & hlpinf08=-8 &
hlpinf19=-8 & hlpinf30=-8 & hlpinf41=-8 DhelpinOT=-8.
EXECUTE.
VARIABLE LABELS DhelpinOT '(D) Other member of the family helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpinOT 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINNO: (D) No informal helpers helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinNO=-99.
if any(1,hlpinf11,hlpinf22, hlpinf33, hlpinf44) & ~any(0,hlpinf11,hlpinf22, hlpinf33, hlpinf44) & anyhlp=1
DhelpinNO=1.
if DhelpinNO=-99 & helpADL=1 DhelpinNO=0.
if DhelpinNO=-99 & helpADL=0 DhelpinNO=-2.
if DhelpinNO=-99 & helpADL<0 DhelpinNO=helpADL.
if hlpinf11=-8 &hlpinf22=-8 & hlpinf33=-8 & hlpinf44=-8 DhelpinNO=-8.
EXECUTE.
VARIABLE LABELS DhelpinNO '(D) No informal helpers helped with ADLs (tasks A-I)'.
VALUE LABELS DhelpinNO 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'
```

DANYINF: (D) An informal helper helped with ADLs (tasks A-I)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DAnyInf=-99.
if any(1, DhelpinSP, DhelpinSO, DhelpinDA, DhelpinOT, DhelpinFN) DAnyInf=1.
if DAnyInf=-99 & helpADL=1 DAnyInf=0.
if DAnyInf=-99 & helpADL=0 DAnyInf=-2.
if DAnyInf=-99 & helpADL<0 DAnyInf=helpADL.
if DhelpinSP=-8 & DhelpinSO=-8 & DhelpinDA=-8 & DhelpinOT=-8 & DhelpinFN=-8 DAnyInf=-8.
EXECUTE.
VARIABLE LABELS DAnyInf '(D) An informal helper helped with ADLs (tasks A-I)'.
VALUE LABELS DAnyInf 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINSPI: (D) Spouse/ partner helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinSPi=-99.
if  (checkA2=2 & recheljbi~=1) DhelpinSPi=-1.
if DhelpinSPi=-99 & hlpinf45=1  DhelpinSPi=1.
if DhelpinSPi=-99 & helpIADL=1 DhelpinSPi=0.
if DhelpinSPi=-99 & helpIADL=0 DhelpinSPi=-2.
if DhelpinSPi=-99 & helpIADL<0 DhelpinSPi=helpIADL.
if hlpinf45=-8 DhelpinSPi=-8.
EXECUTE.
VARIABLE LABELS DhelpinSPi '(D) Spouse/partner helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpinSPi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINSOI: (D) Son helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinSOi=-99.
if  (checkA2=2 & recheljbi~=1) DhelpinSOi=-1.
if hlpinf46=1 DhelpinSOi=1.
if DhelpinSOi=-99 & helpIADL=1 DhelpinSOi=0.
if DhelpinSOi=-99 & helpIADL=0 DhelpinSOi=-2.
if DhelpinSOi=-99 & helpIADL<0 DhelpinSOi=helpIADL.
if hlpinf46=-8 DhelpinSOi=-8.
EXECUTE.
VARIABLE LABELS DhelpinSOi '(D) Son helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpinSOi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINDAI: (D) Daughter helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinDAi=-99.
if  (checkA2=2 & recheljbi~=1) DhelpinDAi=-1.
if hlpinf47=1 DhelpinDAi=1.
if DhelpinDAi=-99 & helpIADL=1 DhelpinDAi=0.
if DhelpinDAi=-99 & helpIADL=0 DhelpinDAi=-2.
if DhelpinDAi=-99 & helpIADL<0 DhelpinDAi=helpIADL.
if hlpinf47=-8 DhelpinDAi=-8.
EXECUTE.
VARIABLE LABELS DhelpinDAi '(D) Daughter helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpinDAi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINFNI: (D) Friend or neighbour helped with IADL (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinFNi=-99.
if  (checkA2=2 & recheljbi~=1) DhelpinFNi=-1.
if any (1,hlpinf53, hlpinf54) DhelpinFNi=1.
if DhelpinFNi=-99 & helpIADL=1 DhelpinFNi=0.
if DhelpinFNi=-99 & helpIADL=0 DhelpinFNi=-2.
if DhelpinFNi=-99 & helpIADL<0 DhelpinFNi=helpIADL.
if hlpinf53=-8 & hlpinf54=-8 DhelpinFNi=-8.
EXECUTE.
VARIABLE LABELS DhelpinFNi '(D) Friend/neighbour helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpinFNi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DHELPINOTI: (D) Other family member helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinOTi=-99.
if  (checkA2=2 & recheljbi~=1) DhelpinOTi=-1.
if any (1,hlpinf48, hlpinf49, hlpinf50, hlpinf51, hlpinf52) DhelpinOTi=1.
if DhelpinOTi=-99 & helpIADL=1 DhelpinOTi=0.
if DhelpinOTi=-99 & helpIADL=0 DhelpinOTi=-2.
if DhelpinOTi=-99 & helpIADL<0 DhelpinOTi=helpIADL.
if hlpinf48=-8 & hlpinf49=-8 & hlpinf50=-8 & hlpinf51=-8 & hlpinf52=-8 DhelpinOTi=-8.
EXECUTE.
VARIABLE LABELS DhelpinOTi '(D) Other family member helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpinOTi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable
```

DHELPINNOI: (D) No informal helper helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DhelpinNOi=-99.
if  (checkA2=2 & recheljbi~=1) DhelpinNOi=-1.
if hlpinf55=1 DhelpinNOi=1.
if DhelpinNOi=-99 & helpIADL=1 DhelpinNOi=0.
if DhelpinNOi=-99 & helpIADL=0 DhelpinNOi=-2.
if DhelpinNOi=-99 & helpIADL<0 DhelpinNOi=helpIADL.
if hlpinf55=-8 DhelpinNOi=-8.
EXECUTE.
VARIABLE LABELS DhelpinNOi '(D) No informal helper helped with IADLs (tasks J-M)'.
VALUE LABELS DhelpinNOi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DANYINFI: (D) Any informal helper helped with IADLs (tasks J-M)

0 No
1 Yes

SPSS Syntax

```
COMPUTE DAnyInfi=-99.
if  (checkA2=2 & recheljbi~=1) Danyinfi=-1.
if any(1, DhelpinSPi, DhelpinSOi, DhelpinDAi, DhelpinOTi, DhelpinFNi) DAnyInfi=1.
if DAnyInfi=-99 & helpIADL=1 DAnyInfi=0.
if DAnyInfi=-99 & helpIADL=0 DAnyInfi=-2.
if DAnyInfi=-99 & helpIADL<0 DAnyInfi=helpIADL.
if DhelpinSPi=-8 & DhelpinSOi=-8 & DhelpinDAi=-8 & DhelpinOTi=-8 & DhelpinFNi=-8 DAnyInfi=-8.
EXECUTE.
VARIABLE LABELS DAnyInfi '(D) An informal helper helped with IADLs (tasks J-M)'.
VALUE LABELS DAnyInfi 1 'Yes' 0 'No' -8 'Don't know' -2 'No help received' -1 'Not applicable'.
```

DADLTYP: (D) Who provided ADL help (informal/ formal helpers, tasks A-I)

1 Informal only
2 Formal only
3 Both informal and formal
4 None of these

SPSS Syntax

```
COMPUTE DADLtyp=-99.
IF DanyInf=1 and DanyFo=0 DADLtyp=1.
IF DanyInf=0 and DanyFo=1 DADLtyp=2.
IF DanyInf=1 and DanyFo=1 DADLtyp=3.
IF DhelpinNO=1 and DhelpfoNO=1 DADLtyp=4.
IF DanyInf=-2 and DanyFo=-2 DADLtyp=-2.
IF DanyInf=-1 and DanyFo=-1 DADLtyp=-1.
IF ANY(-8, DanyInf, DanyFo) DADLtyp=-8.
VARIABLE LABELS DADLtyp '(D) Who provided ADL help (informal/formal helpers, tasks A-I)'.
VALUE LABELS DADLtyp
 1 'Informal only'
 2 'Formal only'
 3 'Both informal and formal'
 4 'None of these'
-8 'Don't know'
-2 'No help received'
-1 'Not applicable'.
```

DIADLTYP: (D) Who provided IADL help

1 Informal only
2 Formal only
3 Both informal and formal
4 None of these

SPSS Syntax

```
COMPUTE DIADLtyp=-99.
IF (checkA2=2 & recheljbi~=1) DIADLtyp=-1.
IF DIADLtyp=-99 & DanyInfi=1 and DanyFoi=0 DIADLtyp=1.
IF DIADLtyp=-99 & DanyInfi=0 and DanyFoi=1 DIADLtyp=2.
IF DIADLtyp=-99 & DanyInfi=1 and DanyFoi=1 DIADLtyp=3.
IF DIADLtyp=-99 & DhelpinNOi=1 and DhelpfoNOi=1 DIADLtyp=4.
IF DIADLtyp=-99 & DanyInfi=-2 and DanyFoi=-2 DIADLtyp=-2.
IF DIADLtyp=-99 & DanyInfi=-1 and DanyFoi=-1 DIADLtyp=-1.
IF ANY(-8, DanyInfi, DanyFoi) DIADLtyp=-8.
VARIABLE LABELS DIADLtyp '(D) Who provided IADL help (informal/formal helpers, tasks J-M)'.
VALUE LABELS DIADLtyp
 1 'Informal only'  2 'Formal only'    3 'Both informal and formal'
 4 'None of these'
-8 'Don't know'
-2 'No help received' -1 'Not applicable'.
```

Carers time

SPHR6: (D) Grouped spouse hours who helped (6 groups, 50+)

1 No help in the last week
2 <1 hour
3 1-9
4 10-19
5 20-49
6 50+

SPHR10: (D) Grouped spouse hours who helped (4 groups, 10+)

1 No help in the last week
2 <1 hour
3 1-10
4 10 or more

SPHR20: (D) Grouped spouse hours who helped (4 groups, 20+)

1 No help in the last week
2 <1 hour
3 1-19
4 20 or more

SPSS Syntax

```
COMPUTE SPhr6=-99.
RECODE HlpHrsi01g9 (1=1) (2=2) (3 thru 4=3) (5=4) ( 6 thru 7 =5) (8 thru 9=6)(else=-1) into SPhr6.
VARIABLE LABELS SPhr6 '(D) Grouped spouse hours who helped (6 groups, 50+)'.
VALUE LABELS SPhr6   1 'No help'    2 '<1 hour'  3 '1-9'   4 '10-19'   5 '20-49'   6 '50+'.

COMPUTE SPhr10=-99.
RECODE HlpHrsi01g9  (1=1) (2=2) (3 thru 4=3) (5 thru 9=4)(else=-1) into SPhr10.
VARIABLE LABELS SPhr10 '(D) Grouped spouse hours who helped (4 groups, 10+)'.
VALUE LABELS SPhr10   1 'No help'    2 '<1 hour'   3 '1-9'   4 '10 or more'.

COMPUTE SPhr20=-99.
RECODE HlpHrsi01g9 (1=1) (2=2) (3 thru 5=3) (6 thru 9=4)(else=-1) into SPhr20.
VARIABLE LABELS SPhr20 '(D) Grouped spouse hours who helped (4 groups, 20+)'.
VALUE LABELS SPhr20
 1 'No help'  2 '<1 hour'    3 '1-19'   4 '20 or more'.
```

SOHR6: (D) Grouped, hours of help provided by son who helped the most (6 groups, 50+)

1 No help
2 <1 hour
3 1-9
4 10-19
5 20-49
6 50+

SOHR10: (D) Grouped, hours of help provided by son who helped the most (4 groups, 10+)

1 No help
2 <1 hour
3 1-10
4 10 or more

SOHR20: (D) Grouped, hours of help provided by son who helped the most (4 groups, 20+)

1 No help
2 <1 hour
3 1-19
4 20 or more

SONHRS: (D) Grouped, hours of help provided by son who helped the most (9 groups)

1 No help
2 <1 hour
3 1-19
4 20 or more

SPSS Syntax

```
COMPUTE sohr6=-99.
RECODE sonhrs (1=1) (2=2) (3 thru 4=3) ( 5 =4) (6 thru 7=5)(8 thru 9=6)(else=-1) into sohr6.
VARIABLE LABELS sohr6 '(D) Grouped, hours of help provided in the last week by son who helped the most (6
groups, 50+)'.
VALUE LABELS sohr6  1 'No help'  2 '<1 hour'    3 '1-9'   4 '10-19'  5 '20-49'   6 '50+'.

COMPUTE sohr10=-99.
RECODE sonhrs (1=1) (2=2) (3 thru 4=3) (5 thru 9=4)(else=-1) into sohr10.
VARIABLE LABELS sohr10 '(D) Grouped, hours of help provided in the last week by son who helped the most (4
groups, 10+)'.
VALUE LABELS sohr10   1 'No help'    2 '<1 hour'   3 '1-9'   4 '10 or more'.

COMPUTE sohr20=-99.
RECODE sonhrs (1=1) (2=2) (3 thru 5=3) (6 thru 9=4)(else=-1) into sohr20.
```

```
VARIABLE LABELS sohr20 '(D) Grouped, hours of help provided in the last week by son who helped the most (4
groups, 20+)'.
VALUE LABELS sohr20
 1 'No help'
 2 '<1 hour'
 3 '1-19'
 4 '20 or more'.

COMPUTE Sonhrs=MAX(HlpHrsI02g9, HlpHrsI03g9, HlpHrsI04g9).
VARIABLE LABELS Sonhrs '(D) Grouped, hours of help provided in the last week by the son who helped the
most (9 groups)'.
VALUE LABELS Sonhrs
-8 "Don't know"
-1 "Not applicable"
1 "No help in the last week"
2 "Less than one hour"
3 "1-4 hours"
4 "5-9 hours"
5 "10-19 hours"
6 "20-34 hours"
7 "35-49 hours"
8 "50-99 hours"
9 "100 hours or more".
```

DAHR6: (D) Grouped, hours of help provided by daughter who helped the most (6 groups, 50+)

1 No help
2 <1 hour
3 1-9
4 10-19
5 20-49
6 50+

DAHR10: (D) Grouped, hours of help provided by daughter who helped the most (4 groups, 10+)

1 No help
2 <1 hour
3 1-10
4 10 or more

DAHR20: (D) Grouped, hours of help provided by daughter who helped the most (4 groups, 20+)

1 No help
2 <1 hour
3 1-19
4 20 or more

DAHRS: (D) Grouped, hours of help provided by daughter who helped the most (9 groups)

-8 Don't Know
-1 Not applicable
1 No help in the last week
2 Less than one hour
3 1-4 hours
4 5-9 hours
5 10-19 hours
6 20-34 hours
7 35-49 hours
8 50-99 hours
9 100 hours or more.

SPSS Syntax

```
COMPUTE dahr6=-99.
EXECUTE.
RECODE daughterhrs (1=1) (2=2) (3 thru 4=3) ( 5 =4) (6 thru 7=5)(8 thru 9=6)(else=-1) into dahr6.
VARIABLE LABELS dahr6 '(D) Grouped, hours of help provided in the last week by daughter who helped the
most (6 groups, 50+)'.
VALUE LABELS dahr6
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10-19'
 5 '20-49'
 6 '50+'.
COMPUTE dahr10=-99.
EXECUTE.
RECODE daughterhrs (1=1) (2=2) (3 thru 4=3) (5 thru 9=4)(else=-1) into dahr10.
VARIABLE LABELS dahr10 '(D) Grouped, hours of help provided in the last week by daughter who helped the
most (4 groups, 10+)'.
VALUE LABELS dahr10
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10 or more'.
```

```
COMPUTE dahr20=-99.
EXECUTE.
RECODE daughterhrs (1=1) (2=2) (3 thru 5=3) (6 thru 9=4)(else=-1) into dahr20.
VARIABLE LABELS dahr20 '(D) Grouped, hours of help provided in the last week by daughter who helped the
most (4 groups, 20+)'.
VALUE LABELS dahr20
 1 'No help'
 2 '<1 hour'
 3 '1-19'
 4 '20 or more'.

COMPUTE DAhrs=MAX(HlpHrsI05g9 , HlpHrsI06g9 , HlpHrsI07g9 ).
VARIABLE LABELS DAhrs '(D) Grouped, hours of help provided in the last week by daughter who helped the
most (9 groups)'.
VALUE LABELS DAhrs
-8 "Don't Know"
-1 "Not applicable"
 1 "No help in the last week"
 2 "Less than one hour"
 3 "1-4 hours"
 4 "5-9 hours"
 5 "10-19 hours"
 6 "20-34 hours"
 7 "35-49 hours"
 8 "50-99 hours"
 9 "100 hours or more".
```

OTHR6: (D) Grouped, hours of help provided in the last week by other family member who helped the most (6 groups, 50+)

1 No help
2 <1 hour
3 1-9
4 10-19
5 20-49
6 50+

OTHR10: (D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 10+)

1 No help
2 <1 hour
3 1-10
4 10 or more

OTHR20: (D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 20+)

1 No help
2 <1 hour
3 1-19
4 20 or more

OTHRS: (D) Grouped, hours of help provided in the last week by other family member who helped the most (9 groups)

-8 Don't Know
-1 Not applicable
1 No help in the last week
2 Less than one hour
3 1-4 hours
4 5-9 hours
5 10-19 hours
6 20-34 hours
7 35-49 hours
8 50-99 hours
9 100 hours or more.

OTMOST: (D) Other family member who provided most hours of care

1 Grandchild 1
2 Grandchild 2
3 Grandchild 3
4 Brother/sister 1
5 Brother/sister 2
6 Brother/sister 3
7 Niece/nephew 1
8 Niece/nephew 2
9 Niece/nephew 3
10 Parent
11 Other parent
12 Other family member

SPSS Syntax

```
COMPUTE othr6=-99.
```

```
EXECUTE.
RECODE othrs (1=1) (2=2) (3 thru 4=3) (5=4) ( 6 thru 7 =5) (8 thru 9=6)(else=-1) into othr6.
VARIABLE LABELS othr6 '(D) Grouped, hours of help provided in the last week by other family member who
helped the most (6 groups, 50+)'.
VALUE LABELS othr6
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10-19'
 5 '20-49'
 6 '50+'.

NUMERIC othr10 (F3.0).
COMPUTE othr10=-99.
EXECUTE.
RECODE othrs (1=1) (2=2) (3 thru 4=3) (5 thru 9=4)(else=-1) into othr10.
VARIABLE LABELS othr10 '(D) Grouped, hours of help provided in the last week by other family member who
helped the most (4 groups, 10+)'.
VALUE LABELS othr10
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10 or more'.

NUMERIC othr20 (F3.0).
COMPUTE othr20=-99.
EXECUTE.
RECODE othrs (1=1) (2=2) (3 thru 5=3) (6 thru 9=4)(else=-1) into othr20.
VARIABLE LABELS othr20 '(D) Grouped, hours of help provided in the last week by other family member who
helped the most (4 groups, 20+)'.
VALUE LABELS othr20
 1 'No help'
 2 '<1 hour'
 3 '1-19'
 4 '20 or more'.

NUMERIC Othrs(F3.0).
COMPUTE Othrs=MAX(HlpHrsI08g9, HlpHrsI09g9, HlpHrsI10g9, HlpHrsI11g9, HlpHrsI12g9, HlpHrsI13g9,
HlpHrsI15g9, HlpHrsI16g9, HlpHrsI17g9, HlpHrsI18g9, HlpHrsI19g9, HlpHrsI20g9 ).
VARIABLE LABELS Othrs '(D) Grouped, hours of help provided in the last week by other family member who
helped the most (9 groups)'.
VALUE LABELS Othrs
-8 "Don't Know"
-1 "Not applicable"
1 "No help in the last week"
2 "Less than one hour"
3 "1-4 hours"
4 "5-9 hours"
5 "10-19 hours"
6 "20-34 hours"
7 "35-49 hours"
8 "50-99 hours"
9 "100 hours or more".

NUMERIC OtMost (F3.0).
compute otmost=-1.
if othrs=HlpHrsI20g9 otmost=12.
if othrs=HlpHrsI19g9 otmost=11.
if othrs=HlpHrsI18g9 otmost=10.
if othrs=HlpHrsI17g9 otmost=9.
if othrs=HlpHrsI16g9 otmost=8.
if othrs=HlpHrsI15g9 otmost=7.
if othrs=HlpHrsI13g9 otmost=6.
if othrs=HlpHrsI12g9 otmost=5.
if othrs=HlpHrsI11g9 otmost=4.
if othrs=HlpHrsI10g9 otmost=3.
if othrs=HlpHrsI09g9 otmost=2.
if othrs=HlpHrsI08g9 otmost=1.
if othrs=-1 otmost=-1.
VARIABLE LABELS OTmost '(D) Other familly member who provided most hours of care'.
VALUE LABELS OTmost
 1 'Grandchild 1'
 2 'Grandchild 2'
 3 'Grandchild 3'
 4 'Brother/sister 1'
 5 'Brother/sister 2'
 6 'Brother/sister 3'
 7 'Niece/nephew 1'
 8 'Niece/nephew 2'
 9 'Niece/nephew 3'
 10 'Parent'
 11'Other parent'
 12 'Other family member'.
```

FNHR6: (D) Grouped, hours of help provided in the last week by other family member who helped the most (6 groups, 50+)

1 No help
2 <1 hour
3 1-9
4 10-19
5 20-49
6 50+

FNHR10: (D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 10+)

1 No help
2 <1 hour
3 1-10
4 10 or more

FNHR20: (D) Grouped, hours of help provided in the last week by other family member who helped the most (4 groups, 20+)

1 No help
2 <1 hour
3 1-19
4 20 or more

FNHRS: (D) Grouped, hours of help provided in the last week by other family member who helped the most (9 groups)

-8 Don't Know
-1 Not applicable
1 No help in the last week
2 Less than one hour
3 1-4 hours
4 5-9 hours
5 10-19 hours
6 20-34 hours
7 35-49 hours
8 50-99 hours
9 100 hours or more.

SPSS Syntax

```
NUMERIC FNhr6 (F3.0).
COMPUTE FNhr6=-99.
EXECUTE.
RECODE FNhrs (1=1) (2=2) (3 thru 4=3) (5=4) ( 6 thru 7 =5) (8 thru 9=6)(else=-1) into FNhr6.
VARIABLE LABELS FNhr6 '(D) Grouped, hours of help provided in the last week by friend or neighbour who
helped the most (6 groups, 50+)'.
VALUE LABELS FNhr6
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10-19'
 5 '20-49'
 6 '50+'.

NUMERIC FNhr10 (F3.0).
COMPUTE FNhr10=-99.
EXECUTE.
RECODE FNhrs (1=1) (2=2) (3 thru 4=3) (5 thru 9=4)(else=-1) into FNhr10.
VARIABLE LABELS FNhr10 '(D) Grouped, hours of help provided in the last week by friend or neighbour who
helped the most (4 groups, 10+)'.
VALUE LABELS FNhr10
 1 'No help'
 2 '<1 hour'
 3 '1-10'
 4 '10 or more'.

NUMERIC FNhr20 (F3.0).
COMPUTE FNhr20=-99.
EXECUTE.
RECODE FNhrs (1=1) (2=2) (3 thru 5=3) (6 thru 9=4)(else=-1) into FNhr20.
VARIABLE LABELS FNhr20 '(D)Grouped, hours of help provided in the last week by friend or neighbour who
helped the most (4 groups, 20+)'.
VALUE LABELS FNhr20
 1 'No help'
 2 '<1 hour'
 3 '1-19'
 4 '20 or more'.

COMPUTE FNhrs=MAX(HlpHrsI21g9, HlpHrsI22g9, HlpHrsI23g9, HlpHrsI24g9, HlpHrsI25g9, HlpHrsI26g9 ).
VARIABLE LABELS FNhrs '(D) Grouped, hours of help provided in the last week by friend or neighbour who
helped the most (9 groups)'.
VALUE LABELS FNhrs
-8 "Don't Know"
-1 "Not applicable"
```

```
1 "No help in the last week"
2 "Less than one hour"
3 "1-4 hours"
4 "5-9 hours"
5 "10-19 hours"
6 "20-34 hours"
7 "35-49 hours"
8 "50-99 hours"
9 "100 hours or more".
```

HCHR6: (D) Home care worker hours of help (grouped)

1 No help
2 <1 hour
3 1-9
4 10-19
5 20-49
6 50+

HCHR10: (D) Home care worker 10+ hours of help

1 No help
2 <1 hour
3 1-10
4 10 or more

HCHR20: (D) Home care worker 20+ hours of help

1 No help
2 <1 hour
3 1-19
4 20 or more

HCHRS1: (D) Hours of help provided in the last week by home care worker who helped the most

1 Home care worker 1
2 Home care worker 2
3 Home care worker 3

HCHRS: (D) Grouped hours of help, for home care workers who helped the most

1 No help
2 <1 hour
3 1-4
4 5-9
5 10-19
6 20-34
7 35-49
8 50-99
9 100 hours or more.

SPSS Syntax

```
COMPUTE HCHr6=-99.
EXECUTE.
recode HCHrs (1=1) (2=2) (3 thru 4=3) (5=4) ( 6 thru 7 =5) (8 thru 9=6) (-8=-8)(else=-1) into HCHr6.
Variable labels HCHr6 '(D) Home care worker hours of help (grouped)'.
value labels HCHr6
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10-19'
 5 '20-49'
 6 '50+'.
COMPUTE HCHr10=-99.
EXECUTE.
recode HCHrs (1=1) (2=2) (3 thru 4=3) (5 thru 9=4) (-8=-8) (else=-1)into HCHr10.
variable labels HCHr10 '(D) Home care worker 10+ hours of help'.
value labels HCHr10
 1 'No help'
 2 '<1 hour'
 3 '1-9'
 4 '10 or more'.

COMPUTE HCHr20=-99.
EXECUTE.
recode HCHrs (1=1) (2=2) (3 thru 5=3) (6 thru 9=4) (-8=-8)(else=-1) into HCHr20.
variable labels HCHr20 '(D) Home care worker 20+ hours of help'.
value labels HCHr20
 1 'No help'
 2 '<1 hour'
 3 '1-19'
 4 '20 or more'.

COMPUTE HCHrs1=MAX(Hrsform27, Hrsform28, Hrsform29).
VARIABLE LABELS HCHrs1 "(D) Hours of help provided in the last week by home care worker who helped the
most".
*COMPUTE HCmost=-1.
IF HCHrs1=Hrsform29 HCmost=3.
```

```
IF HCHrs1=Hrsform28 HCmost=2.
IF HCHrs1=Hrsform27 HCmost=1.
IF HCHrs1=-1 HCmost=-1.
VARIABLE LABELS HCmost '(D) Home care worker who gave most hours of care'.
VALUE LABELS HCmost
 1 'Home care worker 1'
 2 'Home care worker 2'
 3 'Home care worker 3'.

COMPUTE HCHrs=-99.
EXECUTE.
RECODE HCHrs1 (100 thru Hi=9) (50 thru 100=8) (35 thru 50=7) (20 thru 35=6) (10 thru 20=5) (5 thru 10=4)
(1 thru 5=3) (0.01 thru 1=2)(0=1)
(-8=-8) (else=-1) into HCHrs.
VARIABLE LABELS HCHrs '(D) Grouped hours of help, for home care worker who helped the most'.
value labels HCHrs
1 'No help'
2 '<1 hour'
3 '1-4'
4 '5-9'
5 '10-19'
6 '20-34'
7 '35-49'
8 '50-99'
9 '100 hours or more'.
```

grphrs4: (D) Grouped hours provided (for care receipient for whom most hours provided)

1 No help
2 Less than 1hr
3 1-9
4 10-19
5 20 or more

SPSS Syntax

```
recode grphrs6 (1=1) (2=2) (3=3) (4 = 4) (5 thru hi = 5) (else = copy) into grphrs4.
var lab grphrs4 '(D) Grouped hours provided (for care receipient for whom most hours provided)'.
add VALUE LABELS grphrs4 1 'No help'
 2 'Less than 1hr'
 3 '1-9'
4 '10-19'
5 '20 or more' -1 'Not applicable' -8 "Don't know" -9 'Refused'.
FREQUENCIES grphrs4.
```

GRPHRS6: (D) Grouped hours provided(for care receipient for whom most hours provided)

1 'No help'
2 'less then 1hr'
3 '1-9'
4 '10-19'
5 '20-49'
6 '50 or more'

SPSS Syntax

```
Compute grphrs6=99.
IF ProvHlp = -1 grphrs6 = -1.
IF Any(-8, prhours, prhours2, prhours4) grphrs6 = -8.
IF Any(-9, prhours, prhours2, prhours4) grphrs6 = -9.
IF Any(-1, prhours, prhours2, prhours4) grphrs6 = -1.
IF prhours=1 or prhours2=1 or prhours4=1 grphrs6=1.
if prhours=2 or prhours2=2 or prhours4=2 grphrs6=2.
if prhours=3 or prhours=4 or prhours2=3 or prhours2=4 or prhours4=3 or prhours4=4 grphrs6=3.
if prhours=5 or prhours2=5 or prhours4=5 grphrs6=4.
if prhours=6 or prhours=7 or prhours2=6 or prhours2=7 or prhours4=6 or prhours4=7 grphrs6=5.
if prhours=8 or prhours=9 or prhours2=8 or prhours2=9 or prhours4=8 or prhours4=9 grphrs6=6.
var lab grphrs6 '(D) Grouped hours provided(for care receipient for whom most hours provided)'.
VALUE LABELS grphrs6 1 'No help' 2 'less then 1hr' 3 '1-9' 4 '10-19' 5 '20-49' 6 '50 or more' -1 'Not
applicable' -8 "Don't know" -9 'Refused'.
FREQUENCIES grphrs6.
```

GRPHRS10: (D) 10+ hours provided (for care recipient for whom most hours provided)

1 'No hours'
2 '1-10 hours'
3 '10 or more hours'

SPSS Syntax

```
RECODE grphrs6 (1=1) (2 thru 3=2) (4 thru 6=3) (Else = Copy) into grphrs10.
var labs grphrs10 '10+ hours provided (for care recipient for whom most hours provided)'.
VALUE LABELS grphrs10 1 'No hours' 2 '1-10 hours' 3 '10 or more hours'.
FREQUENCIES grphrs10.
```

GRPHRS20: (D) 20+ hours provided (for care recipient for whom most hours provided)

1 'No hours'
2 '1-19 hours'
3 '20 or more hours'

SPSS Syntax

```
recode grphrs6 (1=1) (2 thru 4=2) (5 thru 6=3) (Else = Copy) into grphrs20.
var labs grphrs20 '20+ hours provided (for care recipient for whom most hours provided)'.
VALUE LABELS grphrs20 1 'No hours' 2 '1-19 hours' 3 '20 or more hours'.
FREQUENCIES grphrs20.
```

Mosthrs: (D) Care recipient for most hours provided

1 Care recipient 1
2 Care recicipient 2
3 Care recicipient 3

SPSS Syntax

```
compute mosthrs1=MAX(PrHours, PrHours2, PrHours4).
exe.
FREQUENCIES mosthrs1.

compute mosthrs=-99.
if prhours=-1 mosthrs=-1.
if mosthrs1=PrHours4 mosthrs=3.
if mosthrs1=PrHours2 mosthrs=2.
if mosthrs1=PrHours mosthrs=1.
variable labels mosthrs '(D) Care recipient for most hours provided'.
add value labels mosthrs -1 'Not applicable' 1 'Care recipient 1' 2 'Care recicipient 2' 3 'Care recicipient 3'.
```

Payment for care

PayCare: (D) Payment for Care

1 Care paid for by the local authority only
2 Privately paid-for care
3 Both local authority and privately paid-for care
4 No care paid for by local authority or privately

SPSS Syntax

```
Compute PayCare=  -99.
if PersBudg = 1 or Lacare = 1 PayCare = 1.
if Paycare = -99 and paypriv = 1 PayCare = 2.
If ANY(1, persbudg, lacare) and paypriv = 1 PayCare= 3.
if PersBudg = 2 and Lacare = 2 and paypriv = 2 PayCare = 4.
if any(-1, PersBudg,Lacare,paypriv) PayCare =-1.
if any(-8, PersBudg,Lacare,paypriv) PayCare =-8.
if any(-9, PersBudg,Lacare,paypriv) PayCare =-9.
VARIABLE LABELS PayCare "(D) Payment for care".
ADD VALUE LABELS PayCare
-8 "Don't know"
-9 "Refused"
-1 "Not applicable"
1 "Care paid for by the local authority only"
2 "Privately paid-for care"
3 "Both local authority and privately paid-for care"
4 "No care paid for by local authority or privately".
```

Carers Information

GAVEHLP: (D) Provided help - binary

0 No
1 Yes

SPSS Syntax

```
Numeric gavehlp (F2.0).
COMPUTE gavehlp=99.
IF age < 16 gavehlp = -1.
IF checkhlp = 1 gavehlp = 1.
IF checkhlp = 2 gavehlp = 0.
IF ProvHlp = 2 gavehlp = 0.
IF ProvHlp < 0 gavehlp = ProvHlp.
var lab gavehlp '(D) Provided help - binary'.
val lab gavehlp 0 'No' 1 'Yes' -8 "Don't know" -9 "Refused".
exe.
fre gavehlp.
```

HELPNUM: (D) Number provided help to - grouped

0 0
1 1
2 2
3 3 or more

```
SPSS Syntax

Numeric helpnum (F2.0).
compute helpnum=99.
if helpno =1 helpnum=1.
if helpno=2 helpnum=2.
if helpno>=3 helpnum =3.
if helpno>=21 helpnum=-1.
if helpno<0 helpnum=helpno.
if gavehlp=0 helpnum=0.
var lab helpnum '(D) Number provided help to - grouped'.
val lab helpnum 0 '0' 1 '1' 2 '2' 3 '3 or more' -1 'Not applicable' -8 "Don't know" -9 "Refused".
fre helpnum.
```

PROVHLP2: (D) Who provided help with ADLs or IADLs in the last month

1 Informal helpers only
2 Formal helpers only
3 Both informal and formal helpers

```
SPSS Syntax

Numeric ProvHlp2 (F2).
Compute ProvHlp2 = -99.
IF DADLtyp = 1 AND  DIADLtyp =1 ProvHlp2 =1.
IF DADLtyp = 2 AND  DIADLtyp =2 ProvHlp2 =2.
IF DADLtyp = 4  AND DIADLtyp =4 ProvHlp2 =4.
if (DADLtyp = 4 or DADLtyp = -2) AND  any(DIADLtyp, 1,2,3) Provhlp2 =  DIADLtyp.
if (DIADLtyp = 4 or DIADLtyp = -2)  AND  any(DADLtyp, 1,2,3) Provhlp2 =  DADLtyp.
if (DADLtyp = 1 and  DIADLtyp =2) or (DADLtyp = 2 and  DIADLtyp =1) ProvHlp2 =3.
IF DADLtyp = 3 or  DIADLtyp =3 ProvHlp2 =3.
if  DADLtyp = -1 and DIADLtyp =-1 Provhlp2 = -1.
if  DADLtyp = -8 or DIADLtyp =-2 Provhlp2 = -8.
if  (DADLtyp = -2 and DIADLtyp =4) or (DADLtyp = 4 and DIADLtyp =-2) Provhlp2 = -2.
if Provhlp= -99 and (DADLtyp = 4 or  DIADLtyp = 4) Provhlp2 = 4.
if  DADLtyp = -2 and DIADLtyp =-2 Provhlp2 = -2.
VARIABLE LABELS ProvHlp2 "(D) Who provided help with ADLs or IADLs in the last month".
add value labels ProvHlp2
-2 "No help received"
-1 "Not applicable"
-8 "Don't know"
1 "Informal helpers only"
2 "Formal helpers only"
3 "Both informal and formal helpers"
4 "None".
```

Carers support

Support1D: (D) Support received for caring: Help from GP or nurse
Support2D: (D) Support received for caring: Access to respite care
Support3D: (D) Support received for caring: Help from professional care staff
Support4D: (D) Support received for caring: Help from carers' organisation or charity
Support5D: (D) Support received for caring: Help from other family members
Support6D: (D) Support received for caring: Advice from local authority/ social services
Support7D: (D) Support received for caring: Help from friends/neighbours
Support8D: (D) Support received for caring: None of these

1 Yes
0 No

```
SPSS Syntax

Numeric Support1 Support2 Support3 Support4 Support5 Support6 Support7 (F2).
Do repeat xxx = BSup_1_Support1 BSup_1_Support2  BSup_1_Support3 BSup_1_Support4 BSup_1_Support5
BSup_1_Support6  BSup_1_Support7
/yyy = BSup 2 Support1  BSup 2 Support2 BSup 2 Support3 BSup 2 Support4 BSup 2 Support5 BSup 2 Support6
BSup_2_Support7
/zzz = BSup_3_Support1 BSup_3_Support2 BSup_3_Support3 BSup_3_Support4  BSup_3_Support5 BSup_3_Support6
BSup_3_Support7
/aaa = Support1 Support2 Support3 Support4 Support5 Support6 Support7.
```

```
Compute aaa = -99.
if any(-8, xxx, yyy, zzz) aaa = -8.
if any(-9, xxx, yyy, zzz) aaa = -9.
if  xxx =-1 and yyy =-1 and zzz=-1 aaa = -1.
if any(0, xxx, yyy, zzz) aaa = 0.
if any(1, xxx, yyy, zzz) aaa = 1.
if  BSup_1_Support8 = 1 and  BSup_2_Support8 =1 and  BSup_3_Support8 = 1 aaa = 0.
end repeat.
variable labels Support1 "(D) Support received for caring: Help from GP or nurse".
variable labels Support2 "(D) Support received for caring: Access to respite care".
variable labels Support3 "(D) Support received for caring: Help from professional care staff".
variable labels Support4 "(D) Support received for caring: Help from carers' organisation or charity".
variable labels Support5 "(D) Support received for caring: Help from other family members".
variable labels Support6 "(D) Support received for caring: Advice from local authority/ social services".
variable labels Support7 "(D) Support received for caring: Help from friends/neighbours".
add value labels Support1 to Support7
-1 "Not applicable"
-8 "Don't know"
-9 "Refused"
1 "Yes"
0 "No".

Numeric Support8 (F2).
Compute Support8 = -99.
if any(-9, support1 to support7) Support8 =-9.
if any(-8, support1 to support7) Support8 =-8.
if any(1, support1 to support7) support8 = 0.
if (support1 = -1 and support2 = -1 and support3 = -1 and support4 = -1 and support5 = -1 and support6 = -
1 and support7=-1) support8 =-1.
if (support1 = 0 and support2 = 0 and support3 = 0 and support4 = 0 and support5 = 0 and support6 =0 and
support7=0) support8 =1.
add value labels Support8
-1 "Not applicable"
-8 "Don't know"
-9 "Refused"
1 "Yes"
0 "No".
variable labels Support8 "(D) Support received for caring: None of these".
```