

Welsh Health Survey

2003-04

Variable List

WHS 2003-04 Adults Variable List

Variable	Description	Source	Derived variable syntax provided
SERIAL NUMBERS			
archhsn	Household serial number (archive)	Derived	N/A
archpsn	Person serial number (archive)	Derived	N/A
HOUSEHOLD CLASSIFICATION			
tenure3	(D) 3 class Housing Tenure	Derived	Y
hhdtypb	(D) Household Type	Derived	Y
nssec8	(D) NS-SEC 8 classes	Derived	N/A
nssec5	(D) NS-SEC 5 classes	Derived	N/A
nssec3	(D) NS-SEC 3 classes	Derived	N/A
hhchild	(D) Any children in household	Derived	Y
region	Region	Derived	N/A
q21bmon	Month of interview	Hhold	
INDIVIDUAL CLASSIFICATION			
sex	Sex	Hhold	
age5yrm	(D) 5 year age bands with 75+ merged	Derived	Y
health	General Health	Hhold	
care	Need for care	Hhold	
q37	37 Unpaid carer	SC adult	
carer	(D) Whether a carer	Derived	Y
EMPLOYMENT			
q43emp	43 Work status	SC adult	
employ	(D) Whether in employment	Derived	Y
ecstat	(D) Economic status	Derived	Y
EDUCATION			
qualhi	(D) Level of highest educational qualification	Derived	Y
q44num	44 Number of responses	SC adult	
q44olev1	44 1+ O levels /CSEs /GCSEs (any grade)	SC adult	
q44olev5	44 5+ O levels or equivalent	SC adult	
q44alev1	44 1+ A levels/AS levels	SC adult	
q44alev2	44 2+ A levels, 4+ AS levels, Higher School Certificate	SC adult	
q44deg	44 First Degree	SC adult	
q44hdeg	44 Higher Degree	SC adult	
q44nvq1	44 NVQ Level 1, Foundation GNVQ	SC adult	
q44nvq2	44 NVQ Level 2, Intermediate GNVQ	SC adult	
q44nvq3	44 NVQ Level 3, Advanced GNVQ	SC adult	
q44nvq4	44 NVQ Levels 4-5, HNC, HND	SC adult	
q44oth	44 Other qualifications	SC adult	
q44no	44 No qualifications	SC adult	
q45num	45 Number of responses	SC adult	
q45no	45 No professional qualifications	SC adult	
q45qts	45 Qualified Teacher Status (for schools)	SC adult	
q45qmd	45 Qualified Medical Doctor	SC adult	
q45qd	45 Qualified Dentist	SC adult	
q45qn	45 Qualified Nurse, Midwife, Health Visitor	SC adult	
q45oth	45 Other Professional Qualifications	SC adult	
ANTHROPOMETRIC MEASUREMENTS			
htcm	(D) Height : in cm - computed from Feet/inches if necessary	Derived	Y
wtkg	(D) Weight : in kg - computed from Stones/pounds if necessary	Derived	Y
bmi	(D) Body Mass Index	Derived	Y

Variable	Description	Source	Derived variable syntax provided
bmilev	(D) Body Mass Index classification	Derived	Y
bmimorb	(D) Body Mass Index classification (incl. 40+)	Derived	Y
HEALTH SERVICE USE			
q1a	1a Talked to GP in last 2 weeks	SC adult	
q1b	1b Times talked to GP	SC adult	
q1c	1c Given prescription	SC adult	
q2a	2a Saw practice nurse in last 2 weeks	SC adult	
q2b	2b Times saw practice nurse	SC adult	
q3a	3a Outpatient in last 3 months	SC adult	
q3b	3b Times as outpatient	SC adult	
q4a	4a Attended casualty in last 3 months	SC adult	
q4b	4b Times in casualty	SC adult	
q5a	5a Day patient in last 12 months	SC adult	
q5b	5b Days as a day patient	SC adult	
q6a	6a Inpatient in last 12 months	SC adult	
q6b	6b Separate stays as an inpatient	SC adult	
q6c	6c Nights as an inpatient	SC adult	
q7dent	7a Dentist - times used in last 12 months	SC adult	
dentist	(D) Visited a dentist in the last 12 months	Derived	Y
q7opt	7a Optician - times used in last 12 months	SC adult	
opticn	(D) Visited a optician in the last 12 months	Derived	Y
q7cn	7a HV, DN or OCN - times used in last 12 months	SC adult	
cnurse	(D) Seen a health visitor, district or community nurse in the last 12 months	Derived	Y
q7midw	7a Midwife - times used in last 12 months	SC adult	
mwife	(D) Seen a midwife in the last 12 months	Derived	Y
q7physio	7a Physiotherapist - times used in last 12 months	SC adult	
physio	(D) Seen a physiotherapist in the last 12 months	Derived	Y
q7chiro	7a Chiropodist - times used in last 12 months	SC adult	
chiro	(D) Seen a chiropodist in the last 12 months	Derived	Y
q7ot	7a Speech therapist or OT - times used in last 12 months	SC adult	
soccthp	(D) Seen a speech or occupational therapist in the last 12 months	Derived	Y
q7gpoo	7a GP Out of hours - times used in last 12 months	SC adult	
gpout	(D) Seen a GP out of hours in the last 12 months	Derived	Y
q7pharm	7b Pharmacist - times used in last 12 months	SC adult	
pharm	(D) Used a pharmacist in the last 12 months	Derived	Y
q7nhmdir	7b NHS Direct - times used in last 12 months	SC adult	
nhmdir	(D) Used the NHS direct helpline in the last 12 months	Derived	Y
q7altmed	7b Alternative medical worker - times used in last 12 months	SC adult	
altmed	(D) Used an alternative therapist in the last 12 months	Derived	Y
q7social	7b Social worker - times used in last 12 months	SC adult	
socwel	(D) Seen a social or health worker in the last 12 months	Derived	Y
q7mental	7b Mental health worker - times used in last 12 months	SC adult	
menthw	(D) Seen a mental health worker in the last 12 months	Derived	Y
q7home	7b Home help - times used in last 12 months	SC adult	
hhelp	(D) Used a home help in the last 12 months	Derived	Y
q7meals	7b Meals on wheels - times used in last 12 months	SC adult	
mealsowh	(D) Used meals on wheels in the last 12 months	Derived	Y
q7vol	7b Voluntary services - times used in last 12 months	SC adult	
volunt	(D) Used any voluntary services in the last 12 months	Derived	Y
q7smcess	7b Smoking cessation services - times used in last 12 months	SC adult	
stopsmk	(D) Used any smoking cessation service in the last 12 months	Derived	Y
q8	8 Flu jab in last 12 months	SC adult	
MEDICINES			
q9a	9a Bought medicine in last 4 weeks	SC adult	
q9bnum	9b Number of responses	SC adult	
q9bconv	9b Bought conventional medicines	SC adult	
q9bherb	9b Bought herbal medicines	SC adult	

Variable	Description	Source	Derived variable syntax provided
q9bhomeo	9b Bought homeopathic medicines	SC adult	
q9bvit	9b Bought mineral or vitamin supplements	SC adult	
q9c	9c Regular prescribed medication	SC adult	
ILLNESSES			
q10hatt	10a Heart attack - ever treated	SC adult	
q10strok	10a Stroke - ever treated	SC adult	
q10canc	10a Cancer - ever treated	SC adult	
q10ang	10b Angina - currently treated	SC adult	
q10hfail	10b Heart failure - currently treated	SC adult	
q10hbp	10b High blood pressure - currently treated	SC adult	
q10ohc	10b Other heart condition - currently treated	SC adult	
q10ast	10b Asthma - currently treated	SC adult	
q10emph	10b Emphysema - currently treated	SC adult	
q10pleur	10b Pleurisy - currently treated	SC adult	
q10bron	10b Bronchitis - currently treated	SC adult	
q10oresp	10b Other respiratory illness - currently treated	SC adult	
q10dep	10c Depression - currently treated	SC adult	
q10anx	10c Anxiety - currently treated	SC adult	
q10oment	10c Other mental illness - currently treated	SC adult	
q10arth	10c Arthritis - currently treated	SC adult	
q10back	10c Back pain - currently treated	SC adult	
q10epi	10c Epilepsy - currently treated	SC adult	
q10vvein	10c Varicose veins - currently treated	SC adult	
q10diab	10d Diabetes - currently treated	SC adult	
q10enum	10e Number of responses	SC adult	
q10injdb	10e Diabetes - injection controlled	SC adult	
q10tabdb	10e Diabetes - tablet controlled	SC adult	
q10dieta	10e Diabetes - diet controlled	SC adult	
q11other	11a Other chronic illness - currently treated	SC adult	
q11main1	11b 1st other chronic illness - currently treated	SC adult	
q11main2	11b 2nd other chronic illness - currently treated	SC adult	
q11main3	11b 3rd other chronic illness - currently treated	SC adult	
q11main4	11b 4th other chronic illness - currently treated	SC adult	
illcde1	Other Illness ICD Code (q11b)	Derived	N/A
illcde2	Other Illness ICD Code (q11b)	Derived	N/A
illcde3	Other Illness ICD Code (q11b)	Derived	N/A
illcde4	Other Illness ICD Code (q11b)	Derived	N/A
illchp1	(D) Other illness ICD Chapter	Derived	N/A
illchp2	(D) Other illness ICD Chapter	Derived	N/A
illchp3	(D) Other illness ICD Chapter	Derived	N/A
illchp4	(D) Other illness ICD Chapter	Derived	N/A
chronic	(D) Any chronic illness	Derived	Y
heart	(D) Any heart condition	Derived	Y
heartbp	(D) Any heart condition including high blood pressure	Derived	Y
resp	(D) Any respiratory condition	Derived	Y
mental	(D) Any mental condition	Derived	Y
ACCIDENTS			
q12a	12a Hospital for accident, injury or poisoning in last 3 months	SC adult	
q12bnum	12b Number of responses	SC adult	
q12bfrac	12b Fracture	SC adult	
fracture	(D) Fracture in last 3 months	Derived	Y
q12bpois	12b Poisoning	SC adult	
poison	(D) Poisoning in last 3 months	Derived	Y
q12bhead	12b Head injury with concussion	SC adult	
concus	(D) Head injury with concussion in last 3 months	Derived	Y
q12bcut	12b Cut	SC adult	
cut	(D) Cut or puncture in last 3 months	Derived	Y

Variable	Description	Source	Derived variable syntax provided
q12bburn	12b Burn	SC adult	
burn	(D) Burn in last 3 months	Derived	Y
q12b_oth	12b Other injury	SC adult	
othacc	(D) Other injury in last 3 months	Derived	Y
q12c	12c Place of most recent accident	SC adult	
OTHER CONDITIONS			
q13anum	13a Number of responses	SC adult	
q13a1	13a No stomach upset with diarrhoea in last 3 months	SC adult	
q13a2	13a Stomach upset with diarrhoea in this country in last 3 months	SC adult	
q13a3	13a Stomach upset with diarrhoea abroad in last 3 months	SC adult	
q13a4	Yes not indicated where	SC adult	
q13b	13b Saw doctor about stomach upset	SC adult	
q14	14 See face of someone across room	SC adult	
q15	15 Difficulty with hearing	SC adult	
q16a	16a Wear hearing aid	SC adult	
q16b	16b Trouble with hearing while wearing aid	SC adult	
q17	17 Number of own teeth	SC adult	
HEALTH AND WELL-BEING			
q18sf	18 Self reported health	SC adult	
q19sf	19 Health compared with year ago	SC adult	
q20asf	20a Health limits vigorous activities	SC adult	
q20bsf	20b Health limits moderate activities	SC adult	
q20csf	20c Health limits lifting and carrying groceries	SC adult	
q20dsf	20d Health limits climbing several flights of stairs	SC adult	
q20esf	20e Health limits climbing one flight of stairs	SC adult	
q20fsf	20f Health limits bending, kneeling or stooping	SC adult	
q20gsf	20g Health limits walking more than a mile	SC adult	
q20hsf	20h Health limits walking several hundred yards	SC adult	
q20isf	20i Health limits walking one hundred yards	SC adult	
q20jsf	20j Health limits bathing or dressing yourself	SC adult	
q21asf	21a Due to physical health cut down time on work or activities in past 4 weeks	SC adult	
q21bsf	21b Due to physical health accomplished less than would like in past 4 weeks	SC adult	
q21csf	21c Due to physical health limited in kind of work or activities in past 4 weeks	SC adult	
q21dsf	21d Due to physical health had difficulty performing work or activities in past 4 weeks	SC adult	
q22asf	22a Due to emotional problems cut down time on work or activities in past 4 weeks	SC adult	
q22bsf	22b Due to emotional problems accomplished less than would like in past 4 weeks	SC adult	
q22csf	22c Due to emotional problems did work or activities less carefully in past 4 weeks	SC adult	
q23sf	23 Extent physical health or emotional problems interfered with normal social activities in past 4 weeks	SC adult	
q24sf	24 Bodily pain in past 4 weeks	SC adult	
q25sf	25 Pain interfered with normal work in past 4 weeks	SC adult	
q26asf	26a Felt full of life in past 4 weeks	SC adult	
q26bsf	26b Been very nervous in past 4 weeks	SC adult	
q26csf	26c Felt so down in dumps that nothing could cheer up in past 4 weeks	SC adult	
q26dsf	26d Felt calm and peaceful in past 4 weeks	SC adult	
q26esf	26e Have had a lot of energy in past 4 weeks	SC adult	
q26fsf	26f Felt downhearted and low in past 4 weeks	SC adult	
q26gsf	26g Felt worn out in past 4 weeks	SC adult	
q26hsf	26h Been happy in past 4 weeks	SC adult	
q26isf	26i Felt tired in past 4 weeks	SC adult	
q27sf	27 Physical health or emotional problems have interfered with social activities in past 4 weeks	SC adult	
q28asf	28a Seem to get ill more easily than other people	SC adult	
q28bsf	28b As healthy as anyone I know	SC adult	
q28csf	28c Expect my health to get worse	SC adult	
q28dsf	28d Health is excellent	SC adult	
sf12pf	(D) SF12v2 Physical functioning score	Derived	Y
sf12rp	(D) SF12v2 Role-physical score	Derived	Y

Variable	Description	Source	Derived variable syntax provided
sf12bp	(D) SF12v2 Bodily pain score	Derived	Y
sf12gh	(D) SF12v2 General health score	Derived	Y
sf12vt	(D) SF12v2 Vitality score	Derived	Y
sf12sf	(D) SF12v2 Social functioning score	Derived	Y
sf12re	(D) SF12v2 Role-emotional score	Derived	Y
sf12mh	(D) SF12v2 Mental health score	Derived	Y
sf12pcs	(D) SF12v2 Physical Component Score	Derived	Y
sf12mcs	(D) SF12v2 Mental Component Score	Derived	Y
sf12pfnb	(D) SF12v2 Physical functioning score (norm-based)	Derived	Y
sf12rpnb	(D) SF12v2 Role-physical score (norm-based)	Derived	Y
sf12bpnb	(D) SF12v2 Bodily pain score (norm-based)	Derived	Y
sf12ghnb	(D) SF12v2 General health score (norm-based)	Derived	Y
sf12vtnb	(D) SF12v2 Vitality score (norm-based)	Derived	Y
sf12sfnb	(D) SF12v2 Social functioning score (norm-based)	Derived	Y
sf12renb	(D) SF12v2 Role-emotional score (norm-based)	Derived	Y
sf12mhnb	(D) SF12v2 Mental health score (norm-based)	Derived	Y
sf36pf	(D) SF36 Physical functioning score	Derived	Y
sf36rp	(D) SF36 Role-physical score	Derived	Y
sf36bp	(D) SF36 Bodily pain score	Derived	Y
sf36gh	(D) SF36 General health score	Derived	Y
sf36vt	(D) SF36 Vitality score	Derived	Y
sf36sf	(D) SF36 Social functioning score	Derived	Y
sf36re	(D) SF36 Role-emotional score	Derived	Y
sf36mh	(D) SF36 Mental health score	Derived	Y
sf36pcs	(D) SF36 Physical Component Score	Derived	Y
sf36mcs	(D) SF36 Mental Component Score	Derived	Y
sf36pfnb	(D) SF36 Physical functioning score (norm-based)	Derived	Y
sf36rpnb	(D) SF36 Role-physical score (norm-based)	Derived	Y
sf36bpnb	(D) SF36 Bodily pain score (norm-based)	Derived	Y
sf36ghnb	(D) SF36 General health score (norm-based)	Derived	Y
sf36vtnb	(D) SF36 Vitality score (norm-based)	Derived	Y
sf36sfnb	(D) SF36 Social functioning score (norm-based)	Derived	Y
sf36renb	(D) SF36 Role-emotional score (norm-based)	Derived	Y
sf36mhnb	(D) SF36 Mental health score (norm-based)	Derived	Y
q29a	29a Limiting long-term illness	SC adult	
q29main1	29b 1st main limiting long-term illness	SC adult	
q29main2	29b 2nd main limiting long-term illness	SC adult	
q29main3	29b 3rd limiting long-term illness	SC adult	
q29main4	29b 4th limiting long-term illness	SC adult	
lltcd1	Limiting long term illness main cause (Q29c)	Derived	N/A
lltcd2	Limiting long term illness main cause (Q29c)	Derived	N/A
lltcd3	Limiting long term illness main cause (Q29c)	Derived	N/A
lltcd4	Limiting long term illness main cause (Q29c)	Derived	N/A
lltich1	(D) Limiting long term illness ICD Chapter	Derived	N/A
lltich2	(D) Limiting long term illness ICD Chapter	Derived	N/A
lltich3	(D) Limiting long term illness ICD Chapter	Derived	N/A
lltich4	(D) Limiting long term illness ICD Chapter	Derived	N/A
SMOKING			
q30	30 Smoking status	SC adult	
smokec	(D) Currently smoke either daily or occasionally	Derived	Y
smoked	(D) Currently smoke daily	Derived	Y
smokee	(D) Ever smoked	Derived	Y
q31home	31 Exposed to smoke at home	SC adult	
q31work	31 Exposed to smoke at work	SC adult	
q31oph	31 Exposed to smoke in other people's homes	SC adult	
q31trans	31 Exposed to smoke on public transport	SC adult	
q31pub	31 Exposed to smoke in pubs	SC adult	

Variable	Description	Source	Derived variable syntax provided
q31other	31 Exposed to smoke in other public places	SC adult	
smokep	(D) Whether exposed to passive smoke	Derived	Y
ALCOHOL			
q32	32 How often drink alcohol	SC adult	
q33	33 Always non-drinker or stopped	SC adult	
q34a	34a Average number of units drunk	SC adult	
q34b	34b Most units drunk on any one day	SC adult	
alcw	(D) Estimated weekly alcohol consumption	Derived	Y
alclevd	(D) Level of average daily alcohol consumption	Derived	Y
alclevb	(D) Level of average daily alcohol consumption (incl. binge)	Derived	Y
alclevw	(D) Level of weekly alcohol consumption	Derived	Y
alcbinge	(D) Level of maximal daily alcohol consumption	Derived	Y
alcbing0	(D) Level of maximal daily alcohol consumption (incl.never drinks)	Derived	Y
FRUIT AND VEGETABLES			
q35asal	35a Bowfuls of salad yesterday	SC adult	
porsal	(D) Portion of salad	Derived	Y
q35aveg	35a Tablespoons of veg yesterday	SC adult	
porveg	(D) Portion of vegetables	Derived	Y
q35apul	35a Tablespoons of pulses yesterday	SC adult	
porpul	(D) Portion of pulses	Derived	Y
q35aothv	35a Tablespoons of veg dishes yesterday	SC adult	
porvdish	(D) Portion of vegetables in composites	Derived	Y
q35bvsvf	35b Handfuls of very small fresh fruit yesterday	SC adult	
q35bsf	35b Small fresh fruit yesterday	SC adult	
q35bmf	35b Medium fresh fruit yesterday	SC adult	
q35blf	35b Half large fruit yesterday	SC adult	
q35bvlf	35b Slices of very large fruit yesterday	SC adult	
porfrt	(D) Portion of all sized fruit	Derived	Y
q35bff	35b Tablespoons of frozen or tinned fruit yesterday	SC adult	
porfroz	(D) Portion of frozen fruit/canned fruit	Derived	Y
q35bdf	35b Tablespoons of dried fruit yesterday	SC adult	
pordry	(D) Portion of dried fruit	Derived	Y
q35bothf	35b Tablespoons of fruit dishes yesterday	SC adult	
porfdish	(D) Portion of fruit in composites	Derived	Y
q35bfj	35b Small glasses of fruit juice yesterday	SC adult	
porjuice	(D) Portion of fruit juice	Derived	Y
vegpor	(D) Total portion of vegetables (inc.salad)	Derived	Y
frtpor	(D) Total portion of fruit	Derived	Y
porfv	(D) Total portion of fruit and veg	Derived	Y
fv5aday	(D) No of portions of fruit and vegetables eaten yesterday	Derived	Y
EXERCISE			
q36anum	36a Number of responses	SC adult	
q36amon	36a Light exercise Monday	SC adult	
q36atue	36a Light exercise Tuesday	SC adult	
q36awed	36a Light exercise Wednesday	SC adult	
q36athu	36a Light exercise Thursday	SC adult	
q36afri	36a Light exercise Friday	SC adult	
q36asat	36a Light exercise Saturday	SC adult	
q36asun	36a Light exercise Sunday	SC adult	
q36anone	36a No light exercise in last 7 days	SC adult	
exerl	(D) No of days of light exercise	Derived	Y
q36bnum	36b Number of responses	SC adult	
q36bmon	36b Moderate exercise Monday	SC adult	
q36btue	36b Moderate exercise Tuesday	SC adult	
q36bwed	36b Moderate exercise Wednesday	SC adult	
q36bthu	36b Moderate exercise Thursday	SC adult	
q36bfri	36b Moderate exercise Friday	SC adult	

Variable	Description	Source	Derived variable syntax provided
q36bsat	36b Moderate exercise Saturday	SC adult	
q36bsun	36b Moderate exercise Sunday	SC adult	
q36bnone	36b No moderate exercise in last 7 days	SC adult	
exerm	(D) No of days of moderate exercise	Derived	Y
q36cnum	36c Number of responses	SC adult	
q36cmon	36c Vigorous exercise Monday	SC adult	
q36ctue	36c Vigorous exercise Tuesday	SC adult	
q36cwed	36c Vigorous exercise Wednesday	SC adult	
q36cthu	36c Vigorous exercise Thursday	SC adult	
q36cfri	36c Vigorous exercise Friday	SC adult	
q36csat	36c Vigorous exercise Saturday	SC adult	
q36csun	36c Vigorous exercise Sunday	SC adult	
q36cnone	36c No vigorous exercise in last 7 days	SC adult	
exerv	(D) No of days of vigorous exercise	Derived	Y
exercise	(D) At least 30 mins mod/vigorous exercise on 5+ days	Derived	Y
exergp	(D) No of days at least 30 mins mod/vigorous exercise	Derived	Y
exerstr	(D) Most strenuous exercise done in last 7 days	Derived	Y
WEIGHTING			
hhld_wt	Household NR weight	Derived	N/A
int_wt	Individual NR weight	Derived	N/A

WHS 2003-04 Child Variable List

Variable	Description	Source	Derived variable syntax provided
SERIAL NUMBERS			
archhsn	Household serial number (archive)	Derived	N/A
archpsn	Person serial number (archive)	Derived	N/A
HOUSEHOLD CLASSIFICATION			
tenure3	(D) 3 class Housing Tenure	Derived	Y
hhdtypb	(D) Household Type	Derived	Y
nssec8	(D) NS-SEC 8 classes	Derived	N/A
nssec5	(D) NS-SEC 5 classes	Derived	N/A
nssec3	(D) NS-SEC 3 classes	Derived	N/A
region	Region	Derived	N/A
q21bmon	Month of interview	Hhold	
INDIVIDUAL CLASSIFICATION			
sex	Sex	Hhold	
childage	(D) Child age bands	Derived	Y
health	General Health	Hhold	
care	Need for care	Hhold	
HEALTH QUESTIONS			
cq1a_1	Is this child currently being treated for Asthma	SC child	
cq1a_2	Another respiratory condition	SC child	
cq1a_3	Skin complaints	SC child	
cq1a_4	Ear complaints	SC child	
cq1a_5	Eye complaints	SC child	
cq1a_6	Musculoskeletal problems	SC child	
cq1b	Is child currently being treated for any other chronic illness	SC child	
cq1c	Specify main illness	SC child	
cq1d1	Main illness code	SC child	
cq1d2	Main illness code	SC child	
cq1d3	Main illness code	SC child	
cq1d4	Main illness code	SC child	
cilchp1	(D) Child Other illness ICD Chapter	Derived	N/A
cilchp2	(D) Child Other illness ICD Chapter	Derived	N/A
cilchp3	(D) Child Other illness ICD Chapter	Derived	N/A
cilchp4	(D) Child Other illness ICD Chapter	Derived	N/A
cq2	Does child have any long term illness which limits daily activities	SC child	
cq3a	Has child visited Casualty in the last 3 months	SC child	
cq3b	What was the accident, injury or poisoning	SC child	
cq3b1	Break or fracture	SC child	
cq3b2	Poisoning	SC child	
cq3b3	Head injury with concussion	SC child	
cq3b4	Cut or puncture	SC child	
cq3b5	Burn	SC child	
cq3b6	Another kind of injury	SC child	
chfrac	(D) Fracture in last 3 months	Derived	Y
chpoison	(D) Poisoning in last 3 months	Derived	Y
chconcus	(D) Head injury with concussion in last 3 months	Derived	Y
hcut	(D) Cut or puncture in last 3 months	Derived	Y
hburn	(D) Burn in last 3 months	Derived	Y
chothac	(D) Other injury in last 3 months	Derived	Y
cq3c	Where did the most recent accident, injury or poisoning take place	SC child	
WEIGHTING			
hhld_wt	Household NR weight	Derived	N/A
int_wt	Individual NR weight	Derived	N/A

Welsh Health Survey

2003-04

Derived Variable Specification

Contents

CLASSIFICATION **5**

HOUSEHOLD	5
TENURE3: (D) 3 class Household Tenure	5
HHDTYPB: (D) Household type	5
HHCHILD: (D) Any children in household	5
AGE (ADULTS)	6
AGE: (D) 5 year age bands	6
AGE (CHILDREN)	6
CHILDAGE: (D) Child age bands	6
EMPLOYMENT STATUS	6
EMPLOY: (D) Employment status	6
ECSTAT: (D) Economic status	7
EDUCATION	7
QUALHI: (D) Level of Highest Educational Qualification	7

ACCIDENTS **8**

ADULTS	8
FRACTURE: (D) Fracture in last 3 months	8
POISON: (D) Poisoning in last 3 months	8
CONCUS: (D) Head injury with concussion in last 3 months	8
CUT: (D) Cut or puncture in last 3 months	8
BURN: (D) Burn in last 3 months	8
OTHACC: (D) Other injury in last 3 months	8
CHILDREN	8
CHFRAC: (D) Fracture in last 3 months	8
CHPOISON: (D) Poisoning in last 3 months	8
CHCONCUS: (D) Head injury with concussion in last 3 months	8
CHCUT: (D) Cut or puncture in last 3 months	8
CHBURN: (D) Burn in last 3 months	8
CHOTHAC: (D) Other injury in last 3 months	8

ANTHROPOMETRIC MEASUREMENTS **10**

HTCM (D) Height : in cm - computed from Feet/inches if necessary	10
WTKG (D) Weight : in kg - computed from Stones/pounds if necessary	10
BMI: (D) Body Mass Index	10
BMILEV: (D) Body Mass Index classification	10
BMIMORB: (D) Body Mass Index classification (incl. 40+)	10

ALCOHOL **11**

ALCW: (D) Estimated weekly alcohol consumption	11
ALCLEVD: (D) Level of average daily alcohol consumption	11
ALCLEVB: (D) Level of average daily alcohol consumption (incl. binge)	11
ALCLEVW: (D) Level of weekly alcohol consumption	11
ALCBINGE: (D) Level of maximal daily alcohol consumption	12
ALCBING0: (D) Level of maximal daily alcohol consumption (incl. never drinks)	12

FRUIT & VEGETABLE CONSUMPTION **13**

PORPUL (D) Portion of pulses	13
PORSAL (D) Portion of salad	13
PORVEG (D) Portion of vegetables	13
PORVDISH (D) Portion of vegetables in composites	13
PORJUICE (D) Portion of fruit juice	13
PORFRT (D) Portion of all sized fruit	13
PORDRY (D) Portion of dried fruit	13
PORFROZ (D) Portion of frozen fruit/canned fruit	13
PORFDISH (D) Portion of fruit in composites	13
VEGPOR (D) Total portion of vegetables (inc.salad)	13
FRTPOR (D) Total portion of fruit	13
PORFV (D) Total portion of fruit and veg.	13
FV5ADAY: (D) No of portions of fruit & vegetables eaten yesterday	14

PHYSICAL ACTIVITY **15**

EXERL: (D) No of days light exercise	15
EXERL: (D) No of days moderate exercise	15
EXERL: (D) No of days vigorous exercise	15
EXERCISE: (D) At least 30 minutes moderate/vigorous exercise on 5+ days	15
EXERGRP: (D) No of days at least 30 minutes moderate/vigorous exercise	15
EXERSTR: (D) Most strenuous exercise done in last 7 days	16

GENERAL HEALTH **17**

ILLNESSES **17**

HEART: (D) Any heart condition	17
HEARTBP: (D) Any heart condition including high blood pressure	17
RESP: (D) Any respiratory condition	17
MENTAL: (D) Any mental condition	17
CHRONIC: (D) Any chronic condition	17

CARERS **18**

Carer: (D) Whether a carer	18
----------------------------	----

SF12 **18**

SF12PF: (D) SF12v2 Physical functioning score	18
SF12RP: (D) SF12v2 Role-physical score	18
SF12BP: (D) SF12v2 Bodily pain score	18
SF12GH: (D) SF12v2 General health score	18
SF12VT: (D) SF12v2 Vitality score	18
SF12SF: (D) SF12v2 Social functioning score	18
SF12RE: (D) SF12v2 Role-emotional score	18
SF12MH: (D) SF12v2 Mental health score	18
SF12PCS: (D) SF12v2 Physical Component Score.	19
SF12MCS: (D) SF12v2 Mental Component Score.	19
SF12PFNB: (D) SF12v2 Physical functioning score (norm-based).	20
SF12RPNB: (D) SF12v2 Role-physical score (norm-based).	20
SF12BPNB: (D) SF12v2 Bodily pain score (norm-based).	20
SF12GHNB: (D) SF12v2 General health score (norm-based).	20
SF12VTNB: (D) SF12v2 Vitality score (norm-based).	20
SF12SFNB: (D) SF12v2 Social functioning score (norm-based).	20
SF12RENB: (D) SF12v2 Role-emotional score (norm-based).	20
SF12MHNB: (D) SF12v2 Mental health score (norm-based).	20

SF36 **20**

SF36PF: (D) SF36 Physical functioning score	20
SF36RP: (D) SF36 Role-physical score	20
SF36BP: (D) SF36 Bodily pain score	20
SF36GH: (D) SF36 General health score	20
SF36VT: (D) SF36 Vitality score	20
SF36SF: (D) SF36 Social functioning score	20
SF36RE: (D) SF36 Role-emotional score	20
SF36MH: (D) SF36 Mental health score	20
SF36PCS: (D) SF36 Physical component score	22
SF36MCS: (D) SF36 Mental component score	22
SF36PFNB: (D) SF36 Physical functioning score (norm-based).	22
SF36RPNB: (D) SF36 Role-physical score (norm-based).	22
SF36BPNB: (D) SF36 Bodily pain score (norm-based).	22
SF36GHNB: (D) SF36 General health score (norm-based)"	22
SF36VTNB: (D) SF36 Vitality score (norm-based).	22
SF36SFNB: (D) SF36 Social functioning score (norm-based).	22

SF36RENB: (D) SF36 Role-emotional score (norm-based).	22
SF36MHNB: (D) SF36 Mental health score (norm-based).	22
USE OF SERVICES	23
DENTIST (D) Visited a dentist in the last 12 months	23
OPTICN (D) Visited a optician in the last 12 months	23
CNURSE (D) Seen a health visitor, district or community nurse in the last 12 months	23
MWIFE (D) Seen a midwife in the last 12 months	23
PHYSIO (D) Seen a physiotherapist in the last 12 months	23
CHIROP (D) Seen a chiropodist in the last 12 months	23
SOCCTHP (D) Seen a speech or occupational therapist in the last 12 months	23
GPOUT (D) Seen a GP out of hours in the last 12 months	23
PHARM (D) Used a pharmacist in the last 12 months	23
NHSDIRECT (D) Used the NHS direct helpline in the last 12 months	23
ALTMED (D) Used an alternative therapist in the last 12 months	23
SOCWEL (D) Seen a social or health worker in the last 12 months	23
MENTHW (D) Seen a mental health worker in the last 12 months	23
HHELP (D) Used a home help in the last 12 months	23
MEALSOWH (D) Used meals on wheels in the last 12 months	23
VOLUNT (D) Used any voluntary services in the last 12 months	23
STOPSMK (D) Used any smoking cessation service in the last 12 months.	23
SMOKING	24
SMOKEC: (D) Currently smoke either daily or occasionally	24
SMOKED: (D) Currently smoke daily	24
SMOKEE: (D) Ever smoked	24
SMOKEP: (D) Whether exposed to passive smoke	24

Classification

Household

TENURE3: (D) 3 class Household Tenure

- 1 Owner Occupier
- 2 Social Renting
- 3 Private renting/Other

Programmer Syntax

```
%vst tenure3=-1
%vst if (hq5.eq.1) tenure3=1
%vst if (hq5.in.(2,3)) tenure3=2
%vst if (hq5.in.(4,5)) tenure3=3
```

HHDTYPB: (D) Household type

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

HHDTYPB variable created on combined file where all household information available, then matched back to adult and children productive files

SPSS Syntax

```
RECODE hhage (16 thru 59=1)(ELSE=0) INTO ad1659.
RECODE hhage (60 thru hi=1)(ELSE=0) INTO ad60.
AGGREGATE OUTFILE="C:\temp\hhdtypb.sav"
/break=hserial hq1 hq3
/adyoung=SUM(ad1659)
/adold=SUM(ad60).
GET FILE="C:\temp\hhdtypb.sav".
COMPUTE hhdtypb=-9.
IF hq1=1 & adyoung=1 & hq3=0 hhdtypb=1.
IF hq1=2 & adyoung=2 & hq3=0 hhdtypb=2.
IF hq1=1 & adold=1 & hq3=0 hhdtypb=7.
IF hq1=2 & adold>=1 & hq3=0 hhdtypb=6.
IF ANY(hq1,1,2) & ANY(hq3,1,2) hhdtypb=3.
IF hq1>=3 & ANY(hq3,0,1) hhdtypb=5.
IF (hq1>=1 & hq3>=3) | (hq1>=3 & hq3=2) hhdtypb=4.
VARIABLE LABELS hhdtypb "(D) Household Type".
VALUE LABELS hhdtypb
1 "1 adult aged 16-59, no children"
2 "2 adults, both 16-59, no children"
3 "Small family"
4 "Large family"
5 "Large adult household"
6 "2 adults, 1 or both aged 60+, no children"
7 "1 adult, aged 60+, no children".
```

HHCHILD: (D) Any children in household

- 1 Household with child(ren)
- 2 Household with no children

SPSS Syntax

```
recode hq3 (1 thru hi=1) (0=2) (-9=2) (else=copy) into hhchild.
variable labels hhchild "(D) Any children in household".
value labels hhchild
1 "Household with child(ren)"
2 "Household with no children".
```

Age (Adults)

AGE: (D) 5 year age bands

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

Programmer Syntax

```
%vst if (q39.in.(16:19)) age5yr=01
%vst if (q39.in.(20:24)) age5yr=02
%vst if (q39.in.(25:29)) age5yr=03
%vst if (q39.in.(30:34)) age5yr=04
%vst if (q39.in.(35:39)) age5yr=05
%vst if (q39.in.(40:44)) age5yr=06
%vst if (q39.in.(45:49)) age5yr=07
%vst if (q39.in.(50:54)) age5yr=08
%vst if (q39.in.(55:59)) age5yr=09
%vst if (q39.in.(60:64)) age5yr=10
%vst if (q39.in.(65:69)) age5yr=11
%vst if (q39.in.(70:74)) age5yr=12
%vst if (q39.in.(75:79)) age5yr=13
%vst if (q39.in.(80:84)) age5yr=14
%vst if (q39.ge.85) age5yr=15
```

Age (Children)

CHILDAGE: (D) Child age bands

- 1 0-3
- 2 4-12
- 3 13-15

SPSS Syntax

```
recode age (0 thru 3=1)(4 thru 12=2)(13 thru 15=3)(else=copy) into childage.
variable labels childage "(D) Child age bands".
value labels childage
  1 "0-3"
  2 "4-12"
  3 "13-15".
```

Employment Status

EMPLOY: (D) Employment status

- 1 In employment
- 2 Not in employment

SPSS Syntax

```
recode q43emp (1, 5 thru 11=2)(2 thru 4=1)(else=copy) into employ.
variable labels employ "(D) Whether in employment".
value labels employ
  1 "In employment"
  2 "Not in employment".
```

ECSTAT: (D) Economic status

- 1 Economically active
- 2 Economically inactive

SPSS Syntax

```
recode q43emp (1, 7 thru 11=2)(2 thru 6=1)(else=copy) into ecstat.  
variable labels ecstat "(D) Economic status".  
value labels ecstat  
  1 "Economically active"  
  2 "Economically inactive".
```

Education

QUALHI: (D) Level of Highest Educational Qualification

- 0 No qualifications
- 1 Other qualifications
- 2 Degree/degree equivalent and above

SPSS Syntax

```
if any(1,q44olev1,q44olev5,q44alev1,q44alev2,q44nvq1,q44nvq2,q44nvq3,q44nvq4,q44oth) qualhi=1.  
if any(1,q44deg,q44hdeg) qualhi=2.  
if q44no=1 qualhi=0.  
variable labels qualhi "(D) Level of highest educational qualification".  
value labels qualhi  
  0 "No qualifications"  
  1 "Other qualifications"  
  2 "Degree/degree equivalent and above".
```

Accidents

Adults

FRACTURE: (D) Fracture in last 3 months

POISON: (D) Poisoning in last 3 months

CONCUS: (D) Head injury with concussion in last 3 months

CUT: (D) Cut or puncture in last 3 months

BURN: (D) Burn in last 3 months

OTHACC: (D) Other injury in last 3 months

- 1 Yes
- 2 No
- 3 No accident or injury in last 3 months

Accident variables all have the same value labels

```
SPSS syntax
recode q12bfrac (0=2)(else=copy) into fracture.
recode q12bpois (0=2)(else=copy) into poison.
recode q12bhead (0=2)(else=copy) into concus.
recode q12bcut (0=2)(else=copy) into cut.
recode q12bburn (0=2)(else=copy) into burn.
recode q12b_oth (0=2)(else=copy) into othacc.
do repeat xxacc=fracture poison concus cut burn othacc.
if q12a=2 xxacc=3.
if q12a=-9 xxacc=-9.
end repeat.
variable labels fracture "(D) Fracture in last 3 months".
variable labels poison "(D) Poisoning in last 3 months".
variable labels concus "(D) Head injury with concussion in last 3 months".
variable labels cut "(D) Cut or puncture in last 3 months".
variable labels burn "(D) Burn in last 3 months".
variable labels othacc "(D) Other injury in last 3 months".
value labels fracture to othacc
  1 'Yes'
  2 'No'
  3 'No accident or injury in last 3 months'.
```

Children

CHFRAC: (D) Fracture in last 3 months

CHPOISON: (D) Poisoning in last 3 months

CHCONCUS: (D) Head injury with concussion in last 3 months

CHCUT: (D) Cut or puncture in last 3 months

CHBURN: (D) Burn in last 3 months

CHOTHAC: (D) Other injury in last 3 months

- 1 Yes
- 2 No
- 3 No accident or injury in last 3 months

Accident variables all have the same value labels

```
SPSS Syntax
recode cq3b1 (0=2)(else=copy) into chfrac.
recode cq3b2 (0=2)(else=copy) into chpoison.
recode cq3b3 (0=2)(else=copy) into chconcus.
recode cq3b4 (0=2)(else=copy) into chcut.
recode cq3b5 (0=2)(else=copy) into chburn.
recode cq3b6(0=2)(else=copy) into chothac.
do repeat xxacc=chfrac chpoison chconcus chcut chburn chothac.
if cq3a=2 xxacc=3.
if cq3a=-9 xxacc=-9.
end repeat.
variable labels chfrac "(D) Fracture in last 3 months".
variable labels chpoison "(D) Poisoning in last 3 months".
variable labels chconcus "(D) Head injury with concussion in last 3 months".
```

```
variable labels chcut "(D) Cut or puncture in last 3 months".
variable labels chburn "(D) Burn in last 3 months".
variable labels chothac "(D) Other injury in last 3 months".
value labels chfrac to chothac
  1 'Yes'
  2 'No'
  3 'No accident or injury in last 3 months'.
```

Anthropometric Measurements

HTCM (D) Height : in cm - computed from Feet/inches if necessary

Programmer Syntax

```
%vst HTCM=-1
%vst if (q40b.eq.-9.or.htft.eq.-9.or.htin.eq.-9) HTCM=-9
%vst if (q40b.eq.-8.or.htft.eq.-8.or.htin.eq.-8) HTCM=-8
%vst /* If Height given in CMS - take that from Q40b
%vst if (q40b.gt.0) HTCM=Q40b
%vst /* If Height given in Feet/inches - compute height in cms
%vst if (htft.ge.0.and.htin.ge.0)
%vst + HTCM=((htft*12.0)+htin) * 2.54
```

WTKG (D) Weight : in kg - computed from Stones/pounds if necessary

Programmer Syntax

```
%vst WTKG=-1
%vst if (q41b.eq.-9.or.wtst.eq.-9.or.wtpd.eq.-9) WTKG=-9
%vst if (q41b.eq.-8.or.wtst.eq.-8.or.wtpd.eq.-8) WTKG=-8
%vst /* If weight given in kgs - take that from Q41b
%vst if (q41b.gt.0) WTKG=Q41b
%vst /* If weight given in stones/pounds - compute weight in kgs
%vst if (wtst.ge.0.and.wtpd.ge.0)
%vst + WTKG=((wtst*14.0)+wtpd) * 4.54 ) * 0.1
```

BMI: (D) Body Mass Index

SPSS Syntax

```
COMPUTE bmi=-1.
IF htcm>0 & wtkg>0 bmi=(wtkg*100*100)/(htcm*htcm).
IF any(-9,htcm,wtkg) bmi=-9.
IF any(-8,htcm,wtkg) bmi=-8.
variable labels bmi "(D) Body Mass Index".
```

BMILEV: (D) Body Mass Index classification

- 1 Less than 18.5 - underweight
- 2 18.5 to under 25 - healthy weight
- 3 25 to under 30 - overweight
- 4 30 and over - obese

SPSS Syntax

```
RECODE bmi (30 thru hi=4)(25 thru 30=3)(18.5 thru 25=2)(0 thru 18.5=1) (lo thru -1=COPY) INTO bmilev.
variable labels bmilev "(D) Body Mass Index classification".
value labels bmilev
  1 "less than 18.5 - underweight"
  2 "18.5 to under 25 - healthy weight"
  3 "25 to under 30 - overweight"
  4 "30 and over - obese".
```

BMIMORB: (D) Body Mass Index classification (incl. 40+)

- 1 Less than 18.5 - underweight
- 2 18.5 to under 25 - healthy weight
- 3 25 to under 30 - overweight
- 4 30 and over - obese
- 5 40 and over - morbidly obese

SPSS Syntax

```
RECODE bmi (40 thru hi=5)(30 thru 40=4)(25 thru 30=3)(18.5 thru 25=2)(0 thru 18.5=1)
(lo thru -1=COPY) INTO bmimorb.
variable labels bmimorb "(D) Body Mass Index classification (incl. 40+)".
value labels bmimorb
  1 "less than 18.5 - underweight"
  2 "18.5 to under 25 - healthy weight"
  3 "25 to under 30 - overweight"
  4 "30 to under 40 - obese"
  5 "40 and over - morbidly obese".
```

Alcohol

ALCW: (D) Estimated weekly alcohol consumption

SPSS Syntax

```
if q32=2 & q34a>0 alcw=q34a*0.029.
if q32=3 & q34a>0 alcw=q34a*0.375.
if q32=4 & q34a>0 alcw=q34a*1.5.
if q32=5 & q34a>0 alcw=q34a*3.0.
if q32=6 & q34a>0 alcw=q34a*5.5.
if q32=7 & q34a>0 alcw=q34a*7.0.
if q32=1 alcw=-1.
if q34a=-9 alcw=-9.
variable labels alcw "(D) Estimated weekly alcohol consumption".
```

ALCLEVD: (D) Level of average daily alcohol consumption

- 0 None/Never drinks
- 1 Sensible
- 2 Harmful

SPSS Syntax

```
do if q38sex=1.
recode q34a (0 thru 4=1)(4 thru hi=2)(else=copy) into alclevd.
else if q38sex=2.
recode q34a (0 thru 3=1)(3 thru hi=2)(else=copy) into alclevd.
end if.
if q32=1 alclevd=0.
variable labels alclevd "(D) Level of average daily alcohol consumption".
value labels alclevd
  0 'None/Never drinks'
  1 'Sensible'
  2 'Harmful'.
```

ALCLEVB: (D) Level of average daily alcohol consumption (incl. binge)

- 0 None/Never drinks
- 1 Sensible
- 2 Harmful
- 3 Binge

SPSS Syntax

```
do if q38sex=1.
recode q34a (0 thru 4=1) (4 thru 8=2) (8 thru hi=3)(else=copy) into alclevb.
else if q38sex=2.
recode q34a (0 thru 3=1) (3 thru 6=2) (6 thru hi=3)(else=copy) into alclevb.
end if.
if q32=1 alclevb=0.
variable labels alclevb "(D) Level of average daily alcohol consumption (incl. binge)".
value labels alclevb
  0 'None/Never drinks'
  1 'Sensible'
  2 'Harmful'
  .3 'Binge'.
```

ALCLEVW: (D) Level of weekly alcohol consumption

- 0 None/Never drinks
- 1 Sensible
- 2 Harmful

SPSS Syntax

```
do if q38sex=1.
recode alcw (0=0)(0 thru 21=1)(21 thru hi=2)(else=copy) into alclevw.
else if q38sex=2.
recode alcw(0=0)(0 thru 14=1)(14 thru hi=2)(else=copy) into alclevw.
end if.
if q32=1 alclevw=0.
variable labels alclevw "(D) Level of weekly alcohol consumption".
value labels alclevw
  0 'None/Never drinks'
  1 'Sensible'
  2 'Harmful'.
```

ALCBINGE: (D) Level of maximal daily alcohol consumption

- 0 None
- 1 Within guidelines
- 2 Exceeding guidelines but less than binge
- 3 Binge

SPSS Syntax

```
do if q38sex=1.
recode q34b (0=0)(0 thru 4=1)(4 thru 8=2)(8 thru hi=3)(else=copy) into alcbinge.
else if q38sex=2.
recode q34b (0=0)(0 thru 3=1)(3 thru 6=2)(6 thru hi=3)(else=copy) into alcbinge.
end if.
variable labels alcbinge "(D) Level of maximal daily alcohol consumption".
value labels alcbinge
  0 'None'
  1 'Within guidelines'
  2 'Exceeding guidelines but less than binge'
  3 'Binge'.
```

ALCBING0: (D) Level of maximal daily alcohol consumption (incl. never drinks)

- 0 None/Never drinks
- 1 Within guidelines
- 2 Exceeding guidelines but less than binge
- 3 Binge

SPSS Syntax

```
do if q38sex=1.
recode q34b (0=0)(0 thru 4=1)(4 thru 8=2)(8 thru hi=3)(else=copy) into alcbing0.
else if q38sex=2.
recode q34b (0=0)(0 thru 3=1)(3 thru 6=2)(6 thru hi=3)(else=copy) into alcbing0.
end if.
if q32=1 alcbing0=0.
variable labels alcbing0 "(D) Level of maximal daily alcohol consumption".
value labels alcbing0
  0 'None/Never drinks'
  1 'Within guidelines'
  2 'Exceeding guidelines but less than binge'
  3 'Binge'.
```

Fruit & Vegetable consumption

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

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

SPSS Syntax

```
compute porpul=0.
if q35apul>0 porpul=q35apul/3.
if porpul>1 porpul=1.
compute porsal=0.
if q35asal>0 porsal=q35asal.
compute porveg=0.
if q35aveg>0 porveg=q35aveg/3.
compute porvdish=0.
if q35aothv>0 porvdish=q35aothv/3.

compute pordry=0.
if q35bdf>0 pordry=q35bdf.
if pordry>1 pordry=1.
compute porfroz=0.
if q35bff>0 porfroz=q35bff/3.
compute porfdish=0.
if q35bothf>0 porfdish=q35bothf/3.
compute porjuice=0.
if q35bfj>0 porjuice=q35bfj.
if porjuice>1 porjuice=1.

compute porsml=0.
do repeat xxx=q35bvsf q35bsf.
if xxx>0 porsml= porsml+xxx/2.
end repeat.

compute porothf=0.
do repeat xxx=q35bmf q35blf q35bvlf.
if xxx>0 porothf= porothf+xxx.
end repeat.

compute porfprt=porsml+porothf.
compute vegpor=porpul+porsal+porveg+porvdish.
compute frtpor=porjuice+porfprt+pordry+porfroz+porfdish.
compute porfv=vegpor+frtpor.
if q35asal=-9 & q35aveg=-9 & q35apul=-9 & q35aothv=-9 & q35bvsf=-9 & q35bsf=-9 & q35bmf=-9 & q35blf=-9 &
q35bvlf=-9 & q35bff=-9
& q35bdf=-9 & q35bothf=-9 & q35bfj=-9 porfv=-9.

if q35apul=-9 porpul=-9.
if q35asal=-9 porsal=-9.
if q35aveg=-9 porveg=-9.
if q35aothv=-9 porvdish=-9.
if q35bdf=-9 pordry=-9.
if q35bff=-9 porfroz=-9.
if q35bothf=-9 porfdish=-9.
if q35bfj=-9 porjuice=-9.
if (q35bvsf=-9 & q35bsf=-9 & q35bmf=-9 & q35blf=-9 & q35bvlf=-9) porfprt=-9.
if (porpul=-9 & porsal=-9 & porveg=-9 & porvdish=-9) vegpor=-9.
if (porjuice=-9 & porfprt=-9 & pordry=-9 & porfroz=-9 & porfdish=-9) frtpor=-9.

variable labels
porpul "(D) Portion of pulses"
/porsal "(D) Portion of salad"
```

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

FV5ADAY: (D) No of portions of fruit & vegetables eaten yesterday

- 0 None
- 1 More then 0 but less than 5 portions
- 2 5 portions or more

SPSS Syntax

```
recode porfv (0=0)(5 thru hi=2)(0 thru 5=1) (else=copy) into fv5aday.  
VARIABLE LABELS fv5aday "(D) No of portions of fruit and vegetables eaten yesterday" .  
VALUE LABELS fv5aday  
  0 "None"  
  1 "More than 0 but less than 5 portions"  
  2 "5 portions or more".
```

Physical Activity

EXERL: (D) No of days light exercise

EXERL: (D) No of days moderate exercise

EXERL: (D) No of days vigorous exercise

SPSS Syntax

```
compute exerl=0.
do if q36anone<>1.
count exerl=q36amon to q36asun(1).
end if.
if q36amon=-9 & q36atue=-9 & q36awed=-9 & q36athu=-9 & q36afri=-9 & q36asat=-9 & q36asun=-9 exerl=-9.
variable labels exerl "(D) No of days of light exercise".

compute exerm=0.
do if q36bnone<>1.
count exerm=q36bmon to q36bsun(1).
end if.
if q36bmon=-9 & q36btue=-9 & q36bwed=-9 & q36bthu=-9 & q36bfri=-9 & q36bsat=-9 & q36bsun=-9 exerm=-9.
variable labels exerm "(D) No of days of moderate exercise".

compute exerv=0.
do if q36cnone<>1.
count exerv=q36cmon to q36csun(1).
end if.
if q36cmon=-9 & q36ctue=-9 & q36cwed=-9 & q36cthu=-9 & q36cfri=-9 & q36csat=-9 & q36csun=-9 exerv=-9.
variable labels exerv "(D) No of days of vigorous exercise".
```

EXERCISE: (D) At least 30 minutes moderate/vigorous exercise on 5+ days

- 0 No
- 1 Yes

EXERGRP: (D) No of days at least 30 minutes moderate/vigorous exercise

- 0 None
- 1 1-4 days
- 2 5 days or more

SPSS Syntax

```
compute tempex=0.
do if q36bnone<>1 | q36cnone<>1.
compute mon=q36bmon+q36cmon.
compute tue=q36btue+q36ctue.
compute wed=q36bwed+q36cwed.
compute thur=q36bthu+q36cthu.
compute fri=q36bfri+q36cfri.
compute sat=q36bsat+q36csat.
compute sun=q36bsun+q36csun.
do repeat xxday=mon tue wed thur fri sat sun.
if xxday=2 xxday=1.
end repeat.
count tempex=mon to sun(1).
end if.
if (exerm=-9 & exerv>=0) tempex=exerv.
if (exerm>=0 & exerv=-9) tempex=exerm.
recode tempex (0 thru 4=0)(5 thru hi=1) into exercise.
if exerl=-9 & exerm=-9 & exerv=-9 exercise=-9.
variable labels exercise "(D) At least 30 mins mod/vigorous exercise on 5+ days".
value labels exercise
  0 "No"
  1 "Yes".
recode tempex (0=0)(5 thru hi=2)(0 thru 5=1) (else=copy) into exergrp.
if exerl=-9 & exerm=-9 & exerv=-9 exergrp=-9.
variable labels exergrp "(D) No of days at least 30 mins mod/vigorous exercise".
value labels exergrp
  0 "None"
  1 "1-4 days"
  2 "5 days or more".
```

EXERSTR: (D) Most strenuous exercise done in last 7 days

- 0 None
- 1 Light
- 2 Moderate
- 3 Vigorous

SPSS Syntax

```
compute exerstr=0.
if exerl>0 exerstr=1.
if exerm>0 exerstr=2.
if exerv>0 exerstr=3.
if exerl=-9 & exerm=-9 & exerv=-9 exerstr=-9.
variable labels exerstr "(D) Most strenuous exercise done in last 7 days".
value labels exerstr
  0 "None"
  1 "Light"
  2 "Moderate"
  3 "Vigorous".
```

General Health

Illnesses

HEART: (D) Any heart condition

- 0 No
- 1 Yes

SPSS Syntax

```
compute heart=0.  
if any(-9,q10hatt, q10ang, q10hfail, q10ohc) heart=-9.  
if any(1,q10hatt, q10ang, q10hfail, q10ohc) heart=1.  
variable labels heart "(D) Any heart condition".  
value labels heart 0 'No' 1 'Yes'.
```

HEARTBP: (D) Any heart condition including high blood pressure

- 0 No
- 1 Yes

SPSS Syntax

```
compute heartbp=0.  
if any(-9,q10hatt, q10ang, q10hbp, q10hfail, q10ohc) heartbp=-9.  
if any(1,q10hatt, q10ang, q10hbp, q10hfail, q10ohc) heartbp=1.  
variable labels heartbp "(D) Any heart condition including high blood pressure".  
value labels heartbp 0 'No' 1 'Yes'.
```

RESP: (D) Any respiratory condition

- 0 No
- 1 Yes

SPSS Syntax

```
compute resp=0.  
if any(-9,q10ast,q10emph,q10pleur,q10bron,q10oresp) resp=-9.  
if any(1,q10ast,q10emph,q10pleur,q10bron,q10oresp) resp=1.  
variable labels resp "(D) Any respiratory condition".  
value labels resp 0 'No' 1 'Yes'.
```

MENTAL: (D) Any mental condition

- 0 No
- 1 Yes

SPSS Syntax

```
compute mental=0.  
if any(-9,q10dep,q10anx,q10oment) mental=-9.  
if any(1,q10dep,q10anx,q10oment) mental=1.  
variable labels mental "(D) Any mental condition".  
value labels mental 0 'No' 1 'Yes'.
```

CHRONIC: (D) Any chronic condition

- 0 No
- 1 Yes

SPSS Syntax

```
compute chronic=0.  
if any(-9,q10ang, q10hfail, q10hbp, q10ohc, q10ast, q10emph, q10pleur, q10bron, q10oresp, q10dep, q10anx, q10oment, q10arth, q10back, q10epi, q10vvein, q10diab, q11other) chronic=-9.  
if any(1,q10ang, q10hfail, q10hbp, q10ohc, q10ast, q10emph, q10pleur, q10bron, q10oresp, q10dep, q10anx, q10oment, q10arth, q10back, q10epi, q10vvein, q10diab, q11other) chronic=1.  
variable labels chronic "(D) Any chronic illness".  
value labels chronic 0 'No' 1 'Yes'.
```

Carers

Carer: (D) Whether a carer

0 No
1 Yes

SPSS Syntax

```
recode q37 (1=0)(2 thru 4=1)(else=copy) into carer.  
variable labels carer "(D) Whether a carer".  
value labels carer  
  0 "No"  
  1 "Yes".
```

SF12

SF12PF: (D) SF12v2 Physical functioning score

SF12RP: (D) SF12v2 Role-physical score

SF12BP: (D) SF12v2 Bodily pain score

SF12GH: (D) SF12v2 General health score

SF12VT: (D) SF12v2 Vitality score

SF12SF: (D) SF12v2 Social functioning score

SF12RE: (D) SF12v2 Role-emotional score

SF12MH: (D) SF12v2 Mental health score

SPSS Syntax

```
COUNT  
sfd1num = q20bsf q20dsf (1 thru 3).  
VARIABLE LABELS sfd1num 'SF12v2 dimension 1:number questions answered'.  
COUNT  
sfd2num = q21bsf q21csf (1 thru 5).  
VARIABLE LABELS sfd2num 'SF12v2 dimension 2:number questions answered'.  
COUNT  
sfd3num = q25sf (1 thru 5).  
VARIABLE LABELS sfd3num 'SF12v2 dimension 3 - number questions answered'.  
COUNT  
sfd4num = q18sf (1 thru 5).  
VARIABLE LABELS sfd4num 'SF12v2 dimension 4:number questions answered'.  
COUNT  
sfd5num = q26esf (1 thru 5).  
VARIABLE LABELS sfd5num 'SF12v2 dimension 5:number questions answered'.  
COUNT  
sfd6num = q27sf (1 thru 5).  
VARIABLE LABELS sfd6num 'SF12v2 dimension 6:number questions answered'.  
COUNT  
sfd7num = q22bsf q22csf (1 thru 5).  
VARIABLE LABELS sfd7num 'SF12v2 dimension 7:number questions answered'.  
COUNT  
sfd8num = q26dsf q26fsf (1 thru 5).  
VARIABLE LABELS sfd8num 'SF12v2 dimension 8:number questions answered'.  
EXECUTE.  
COMPUTE sf12pf =--99.  
COMPUTE sf12rp =--99.  
COMPUTE sf12bp =--99.  
COMPUTE sf12gh =--99.  
COMPUTE sf12vt =--99.  
COMPUTE sf12sf =--99.  
COMPUTE sf12re =--99.  
COMPUTE sf12mh =--99.  
  
*PHYSICAL FUNCTIONING.  
DO IF (sfd1num = 2).  
COMPUTE sfd1scor = SUM(q20bsf,q20dsf).  
COMPUTE sf12pf = (((sfd1scor - 2) / 4)* 100).  
END IF.  
  
*ROLE PHYSICAL.  
DO IF (sfd2num = 2).  
COMPUTE sfd2scor = SUM(q21bsf,q21csf).  
COMPUTE sf12rp = (((sfd2scor - 2) / 8)* 100).  
END IF.  
  
*BODILY PAIN.  
DO IF (sfd3num = 1).
```

```

RECODE q25sf (1=5) (2=4) (3=3) (4=2) (5=1) INTO sfd3scor.
COMPUTE sf12bp = (((sfd3scor - 1) / 4) * 100).
END IF.

*GENERAL HEALTH.
DO IF (sfd4num = 1).
RECODE q18sf (1=5) (2=4.4) (3=3.4) (4=2) (5=1) INTO sfd4scor.
COMPUTE sf12gh = (((sfd4scor - 1) / 4) * 100).
END IF.

*VITALITY.
DO IF (sfd5num = 1).
RECODE q26esf (1=5) (2=4) (3=3) (4=2) (5=1) INTO sfd5scor.
COMPUTE sf12vt = (((sfd5scor - 1) / 4) * 100).
END IF.

*SOCIAL FUNCTIONING.
DO IF (sfd6num = 1).
COMPUTE sfd6scor = q27sf.
COMPUTE sf12sf = (((sfd6scor - 1) / 4) * 100).
END IF.

*ROLE EMOTIONAL.
DO IF (sfd7num = 2).
COMPUTE sfd7scor = SUM(q22bsf,q22csf).
COMPUTE sf12re = (((sfd7scor - 2) / 8) * 100).
END IF.

*MENTAL HEALTH.
DO IF (sfd8num = 2).
RECODE q26dsf (1=5) (2=4) (3=3) (4=2) (5=1) INTO q26dsf2.
COMPUTE sfd8scor = SUM(q26dsf2,q26fsf).
COMPUTE sf12mh = (((sfd8scor - 2) / 8) * 100).
END IF.

VARIABLE LABEL sf12pf "(D) SF12v2 Physical functioning score".
VARIABLE LABEL sf12rp "(D) SF12v2 Role-physical score".
VARIABLE LABEL sf12bp "(D) SF12v2 Bodily pain score".
VARIABLE LABEL sf12gh "(D) SF12v2 General health score".
VARIABLE LABEL sf12vt "(D) SF12v2 Vitality score".
VARIABLE LABEL sf12sf "(D) SF12v2 Social functioning score".
VARIABLE LABEL sf12re "(D) SF12v2 Role-emotional score".
VARIABLE LABEL sf12mh "(D) SF12v2 Mental health score".

```

SF12PCS: (D) SF12v2 Physical Component Score.

SF12MCS: (D) SF12v2 Mental Component Score.

SPSS Syntax

```

*Z score standardisation of SF12v2 scales: standard form.
if sf12pf<>-99 PF12Z=(sf12pf - 81.18122) /29.10558.
if sf12rp<>-99 RP12Z=(sf12rp - 80.52856) /27.13526.
if sf12bp<>-99 BP12Z=(sf12bp - 81.74015) /24.53019.
if sf12gh<>-99 GH12Z=(sf12gh - 72.19795) /23.19041.
if sf12vt<>-99 VT12Z=(sf12vt - 55.59090) / 24.84380.
if sf12sf<>-99 SF12Z=(sf12sf - 83.73973) /24.75775.
if sf12re<>-99 RE12Z=(sf12re - 86.41051) / 22.35543.
if sf12mh<>-99 MH12Z=(sf12mh - 70.18217) / 20.50597.

*Formulae for aggregating scales in estimating aggregate physical and mental component scores: Standard Form.
COMPUTE AGGPHYS = (PF12Z * 0.42402) + (RP12Z * 0.35119) + (BP12Z * 0.31754) + (GH12Z * 0.24954) + (VT12Z * 0.02877) + (SF12Z * -0.00753) + (RE12Z * -0.19206) + (MH12Z * -0.22069).
COMPUTE AGGMENT = (PF12Z * -0.22999) + (RP12Z * -0.12329) + (BP12Z * -0.09731) + (GH12Z * -0.01571) + (VT12Z * 0.23534) + (SF12Z * 0.26876) + (RE12Z * 0.43407) + (MH12Z * 0.48581).

*Formulae for T-score transformation of component scores: Standard Form.
Compute sf12pcs = 50 + (AGGPHYS * 10).
Compute sf12mcs = 50 + (AGGMENT * 10).
if any(-99, sf12pf, sf12rp, sf12bp, sf12gh, sf12vt, sf12sf, sf12re, sf12mh) sf12pcs=-99.
if any(-99, sf12pf, sf12rp, sf12bp, sf12gh, sf12vt, sf12sf, sf12re, sf12mh) sf12mcs=-99.

VARIABLE LABEL sf12pcs "(D) SF12v2 Physical Component Score".
VARIABLE LABEL sf12mcs "(D) SF12v2 Mental Component Score".

```

SF12PFNB: (D) SF12v2 Physical functioning score (norm-based).
 SF12RPNB: (D) SF12v2 Role-physical score (norm-based).
 SF12BPNB: (D) SF12v2 Bodily pain score (norm-based).
 SF12GHNB: (D) SF12v2 General health score (norm-based).
 SF12VTNB: (D) SF12v2 Vitality score (norm-based).
 SF12SFNB: (D) SF12v2 Social functioning score (norm-based).
 SF12RENB: (D) SF12v2 Role-emotional score (norm-based).
 SF12MHNB: (D) SF12v2 Mental health score (norm-based).

SPSS Syntax

```
*Norm-Based Transformation of SF12v2 Z-Scores, Standard Form.
Compute sf12pfnb = 50 + (PF12Z * 10).
Compute sf12rpnb = 50 + (RP12Z * 10).
Compute sf12bpnb = 50 + (BP12Z * 10).
Compute sf12ghnb = 50 + (GH12Z * 10).
Compute sf12vtnb = 50 + (VT12Z * 10).
Compute sf12sfnb = 50 + (SF12Z * 10).
Compute sf12renb = 50 + (RE12Z * 10).
Compute sf12mhnb = 50 + (MH12Z * 10).

RECODE sf12pfnb sf12rpnb sf12bpnb sf12ghnb sf12vtnb sf12sfnb sf12renb sf12mhnb (MISSING=-99) .
EXECUTE .

VARIABLE LABEL sf12pfnb "(D) SF12v2 Physical functioning score (norm-based)".
VARIABLE LABEL sf12rpnb "(D) SF12v2 Role-physical score (norm-based)".
VARIABLE LABEL sf12bpnb "(D) SF12v2 Bodily pain score (norm-based)".
VARIABLE LABEL sf12ghnb "(D) SF12v2 General health score (norm-based)".
VARIABLE LABEL sf12vtnb "(D) SF12v2 Vitality score (norm-based)".
VARIABLE LABEL sf12sfnb "(D) SF12v2 Social functioning score (norm-based)".
VARIABLE LABEL sf12renb "(D) SF12v2 Role-emotional score (norm-based)".
VARIABLE LABEL sf12mhnb "(D) SF12v2 Mental health score (norm-based)".
```

SF36

SF36PF: (D) SF36 Physical functioning score
 SF36RP: (D) SF36 Role-physical score
 SF36BP: (D) SF36 Bodily pain score
 SF36GH: (D) SF36 General health score
 SF36VT: (D) SF36 Vitality score
 SF36SF: (D) SF36 Social functioning score
 SF36RE: (D) SF36 Role-emotional score
 SF36MH: (D) SF36 Mental health score

SPSS Syntax

```
COUNT
sfd1num = q20asf q20bsf q20csf q20dsf q20esf q20fsf q20gsf q20hsf
q20isf q20jsf (1 thru 3).
VARIABLE LABELS sfd1num 'SF36 dimension 1:number questions answered'.
COUNT
sfd2num = q21asf q21bsf q21csf q21dsf (1 thru 5).
VARIABLE LABELS sfd2num 'SF36 dimension 2:number questions answered'.
COUNT
sfd3num = q24sf q25sf (1 thru 6).
VARIABLE LABELS sfd3num 'SF36 dimension 3 - number questions answered'.
COUNT
sfd4num = q18sf q28asf q28bsf q28csf q28dsf (1 thru 5).
VARIABLE LABELS sfd4num 'SF36 dimension 4:number questions answered'.
COUNT
sfd5num = q26asf q26esf q26gsf q26isf (1 thru 5).
VARIABLE LABELS sfd5num 'SF36 dimension 5:number questions answered'.
COUNT
sfd6num = q23sf q27sf (1 thru 5).
VARIABLE LABELS sfd6num 'SF36 dimension 6:number questions answered'.
COUNT
sfd7num = q22asf q22bsf q22csf (1 thru 5).
VARIABLE LABELS sfd7num 'SF36 dimension 7:number questions answered'.
COUNT
sfd8num = q26bsf q26csf q26dsf q26fsf q26hsf (1 thru 5).
VARIABLE LABELS sfd8num 'SF36 dimension 8:number questions answered'.
EXECUTE .
COMPUTE sf36pf =-99.
```

```

COMPUTE sf36rp =-99.
COMPUTE sf36bp =-99.
COMPUTE sf36gh =-99.
COMPUTE sf36vt =-99.
COMPUTE sf36sf =-99.
COMPUTE sf36re =-99.
COMPUTE sf36mh =-99.

*PHYSICAL FUNCTIONING.
DO IF (sfd1num >= 5).
COMPUTE sfd1mean = MEAN(q20asf,q20bsf,q20csf,q20dsf,q20esf,q20fsf,q20gsf,q20hsf,q20isf,q20jsf).
COMPUTE sfd1comp = (10-sfd1num)*sfd1mean.
COMPUTE sfd1scor = SUM(q20asf,q20bsf,q20csf,q20dsf,q20esf,q20fsf,q20gsf,q20hsf,q20isf,q20jsf,sfd1comp).
COMPUTE sf36pf = (((sfd1scor - 10) / 20)* 100).
END IF.

*ROLE PHYSICAL.
DO IF (sfd2num >= 2).
COMPUTE sfd2mean = MEAN(q21asf,q21bsf,q21csf,q21dsf).
COMPUTE sfd2comp = (4-sfd2num)*sfd2mean.
COMPUTE sfd2scor = SUM(q21asf,q21bsf,q21csf,q21dsf,sfd2comp).
COMPUTE sf36rp = (((sfd2scor - 4) / 16)* 100).
END IF.

*BODILY PAIN.
DO IF (sfd3num >= 1).
DO IF (q24sf > 0).
RECODE q24sf (1=6) (2=5.4) (3=4.2) (4=3.1) (5=2.2) (6=1) INTO pain1.
END IF.
DO IF (q25sf >= 1).
RECODE q25sf (1=6) (2=4.75) (3=3.5) (4=2.25) (5=1) INTO pain2.
END IF.
DO IF ((q24sf = 1 & q25sf >= 1)).
RECODE q25sf (1=6) (2=4) (3=3) (4=2) (5=1) INTO pain2.
END IF.
DO IF ((q24sf >=2 & q25sf >= 1)).
RECODE q25sf (1=5) (2=4) (3=3) (4=2) (5=1) INTO pain2.
END IF.
COMPUTE sfd3mean = MEAN(pain1,pain2).
COMPUTE sfd3comp = (2-sfd3num)*sfd3mean.
COMPUTE sfd3scor = SUM(pain1,pain2,sfd3comp).
COMPUTE sf36bp = (((sfd3scor - 2) / 10)* 100).
END IF.

*GENERAL HEALTH.
DO IF (sfd4num >= 3).
RECODE
q18sf (1=5) (2=4.4) (3=3.4) (4=2) (5=1) INTO q18sf2.
RECODE
q28bsf q28dsf (1=5) (2=4) (3=3) (4=2) (5=1) INTO q28bsf2 q28dsf2.
COMPUTE sfd4mean = MEAN(q18sf2,q28asf,q28bsf2,q28csf,q28dsf2).
COMPUTE sfd4comp = (5-sfd4num)*sfd4mean.
COMPUTE sfd4scor = SUM(q18sf2,q28asf,q28bsf2,q28csf,q28dsf2,sfd4comp).
COMPUTE sf36gh = (((sfd4scor - 5) / 20)* 100).
END IF.

*VITALITY.
DO IF (sfd5num >= 2).
RECODE
q26asf q26esf (1=5) (2=4) (3=3) (4=2) (5=1) INTO q26asf2 q26esf2.
COMPUTE sfd5mean = MEAN(q26asf2,q26esf2,q26gsf,q26isf).
COMPUTE sfd5comp = (4-sfd5num)*sfd5mean.
COMPUTE sfd5scor = SUM(q26asf2,q26esf2,q26gsf,q26isf,sfd5comp).
COMPUTE sf36vt = (((sfd5scor - 4) / 16) * 100).
END IF.

*SOCIAL FUNCTIONING.
DO IF (sfd6num >= 1).
RECODE
q23sf (1=5) (2=4) (3=3) (4=2) (5=1) INTO q23sf2.
COMPUTE sfd6mean = MEAN(q23sf2,q27sf).
COMPUTE sfd6comp = (2-sfd6num)*sfd6mean.
COMPUTE sfd6scor = SUM(q23sf2,q27sf,sfd6comp).
COMPUTE sf36sf = (((sfd6scor - 2) / 8)* 100).
END IF.

*ROLE EMOTIONAL.
DO IF (sfd7num >= 2).
COMPUTE sfd7mean = MEAN(q22asf,q22bsf,q22csf).
COMPUTE sfd7comp = (3-sfd7num)*sfd7mean.
COMPUTE sfd7scor = SUM(q22asf,q22bsf,q22csf,sfd7comp).
COMPUTE sf36re = (((sfd7scor - 3) / 12)* 100).
END IF.

*MENTAL HEALTH.
DO IF (sfd8num >= 3).
RECODE q26dsf (1=5) (2=4) (3=3) (4=2) (5=1) INTO q26dsf2.

```

```

RECODE q26hsf (1=5) (2=4) (3=3) (4=2) (5=1) INTO q26hsf2.
COMPUTE sfd8mean = MEAN(q26bsf,q26csf,q26dsf2,q26fsf,q26hsf2).
COMPUTE sfd8comp = (5-sfd8num)*sfd8mean.
COMPUTE sfd8scor = SUM(q26bsf,q26csf,q26dsf2,q26fsf,q26hsf2,sfd8comp).
COMPUTE sf36mh = (((sfd8scor - 5) / 20)* 100).
END IF.
EXECUTE.

VARIABLE LABEL sf36pf "(D) SF36 Physical functioning score".
VARIABLE LABEL sf36rp "(D) SF36 Role-physical score".
VARIABLE LABEL sf36bp "(D) SF36 Bodily pain score".
VARIABLE LABEL sf36gh "(D) SF36 General health score".
VARIABLE LABEL sf36vt "(D) SF36 Vitality score".
VARIABLE LABEL sf36sf "(D) SF36 Social functioning score".
VARIABLE LABEL sf36re "(D) SF36 Role-emotional score".
VARIABLE LABEL sf36mh "(D) SF36 Mental health score".

```

SF36PCS: (D) SF36 Physical component score

SF36MCS: (D) SF36 Mental component score

SPSS Syntax

```

*Z score standardisation of SF36v2 scales: standard form.
if sf36pf<>-99 PF36Z=(sf36pf - 83.29094) / 23.75883.
if sf36rp<>-99 RP36Z=(sf36rp - 82.50964) / 25.52028.
if sf36bp<>-99 BP36Z=(sf36bp - 71.32527) / 23.66224.
if sf36gh<>-99 GH36Z=(sf36gh - 70.84570) / 20.97821.
if sf36vt<>-99 VT36Z=(sf36vt - 58.31411) / 20.01923.
if sf36sf<>-99 SF36Z=(sf36sf - 84.30250) / 22.91921.
if sf36re<>-99 RE36Z=(sf36re - 87.39733) / 21.43778.
if sf36mh<>-99 MH36Z=(sf36mh - 74.98685) / 17.75604.
execute.

*Formulae for aggregating scales in estimating aggregate physical and mental component scores: Standard Form.
COMPUTE AGGPHYS = (PF36Z * 0.42402) + (RP36Z * 0.35119) + (BP36Z * 0.31754) + (GH36Z * 0.24954) + (VT36Z * 0.02877) + (SF36Z * -0.00753) + (RE36Z * -0.19206) + (MH36Z * -0.22069).
COMPUTE AGGMENT = (PF36Z * -0.22999) + (RP36Z * -0.12329) + (BP36Z * -0.09731) + (GH36Z * -0.01571) + (VT36Z * 0.23534) + (SF36Z * 0.26876) + (RE36Z * 0.43407) + (MH36Z * 0.48581).

*Formulae for T-score transformation of component scores: Standard Form.
Compute sf36pcs = 50 + (AGGPHYS * 10).
Compute sf36mcs = 50 + (AGGMENT * 10).
if any(-99, sf36pf, sf36rp, sf36bp, sf36gh, sf36vt, sf36sf, sf36re, sf36mh) sf36pcs=-99.
if any(-99, sf36pf, sf36rp, sf36bp, sf36gh, sf36vt, sf36sf, sf36re, sf36mh) sf36mcs=-99.

VARIABLE LABEL sf36pcs "(D) SF36 Physical Component Score".
VARIABLE LABEL sf36mcs "(D) SF36 Mental Component Score".

```

SF36PFNB: (D) SF36 Physical functioning score (norm-based).

SF36RPNB: (D) SF36 Role-physical score (norm-based).

SF36BPNB: (D) SF36 Bodily pain score (norm-based).

SF36GHNB: (D) SF36 General health score (norm-based)"

SF36VTNB: (D) SF36 Vitality score (norm-based).

SF36SFNB: (D) SF36 Social functioning score (norm-based).

SF36RENB: (D) SF36 Role-emotional score (norm-based).

SF36MHNB: (D) SF36 Mental health score (norm-based).

SPSS Syntax

```

* Norm-based scoring of SF36v2 z-scores: standard form.
COMPUTE sf36pfnb = 50 + (PF36Z * 10).
COMPUTE sf36rpnb = 50 + (RP36Z * 10).
COMPUTE sf36bpnb = 50 + (BP36Z * 10).
COMPUTE sf36ghnb = 50 + (GH36Z * 10).
COMPUTE sf36vtnb = 50 + (VT36Z * 10).
COMPUTE sf36sfnb = 50 + (SF36Z * 10).
COMPUTE sf36renb = 50 + (RE36Z * 10).
COMPUTE sf36mhnb = 50 + (MH36Z * 10).

RECODE sf36pfnb sf36rpnb sf36bpnb sf36ghnb sf36vtnb sf36sfnb sf36renb sf36mhnb (MISSING=-99) .
EXECUTE .

VARIABLE LABEL sf36pfnb "(D) SF36 Physical functioning score (norm-based)".
VARIABLE LABEL sf36rpnb "(D) SF36 Role-physical score (norm-based)".
VARIABLE LABEL sf36bpnb "(D) SF36 Bodily pain score (norm-based)".
VARIABLE LABEL sf36ghnb "(D) SF36 General health score (norm-based)".
VARIABLE LABEL sf36vtnb "(D) SF36 Vitality score (norm-based)".
VARIABLE LABEL sf36sfnb "(D) SF36 Social functioning score (norm-based)".
VARIABLE LABEL sf36renb "(D) SF36 Role-emotional score (norm-based)".

```

Use of services

DENTIST (D) Visited a dentist in the last 12 months
 OPTICN (D) Visited a optician in the last 12 months
 CNURSE (D) Seen a health visitor, district or community nurse in the last 12 months
 MWIFE (D) Seen a midwife in the last 12 months
 PHYSIO (D) Seen a physiotherapist in the last 12 months
 CHIROP (D) Seen a chiropodist in the last 12 months
 SOCCTHP (D) Seen a speech or occupational therapist in the last 12 months
 GPOUT (D) Seen a GP out of hours in the last 12 months
 PHARM (D) Used a pharmacist in the last 12 months
 NHSDIRCT (D) Used the NHS direct helpline in the last 12 months
 ALTMED (D) Used an alternative therapist in the last 12 months
 SOCWEL (D) Seen a social or health worker in the last 12 months
 MENTHW (D) Seen a mental health worker in the last 12 months
 HHELP (D) Used a home help in the last 12 months
 MEALSOWH (D) Used meals on wheels in the last 12 months
 VOLUNT (D) Used any voluntary services in the last 12 months
 STOPSMK (D) Used any smoking cessation service in the last 12 months.
 0 No
 1 Yes

All use of services variables have the same value labels

```

SPSS Syntax
recode q7dent (1=0)(2 thru hi=1)(else=copy) into dentist.
recode q7opt (1=0)(2 thru hi=1)(else=copy) into optcn.
recode q7cn (1=0)(2 thru hi=1)(else=copy) into cnurse.
recode q7midw (1=0)(2 thru hi=1)(else=copy) into mwife.
recode q7physio (1=0)(2 thru hi=1)(else=copy) into physio.
recode q7chiro (1=0)(2 thru hi=1)(else=copy) into chirop.
recode q7ot (1=0)(2 thru hi=1)(else=copy) into soccthp.
recode q7gpooh (1=0)(2 thru hi=1)(else=copy) into gpout.
recode q7pharm (1=0)(2 thru hi=1)(else=copy) into pharm.
recode q7nhsdir (1=0)(2 thru hi=1)(else=copy) into nhsdirct.
recode q7altmed (1=0)(2 thru hi=1)(else=copy) into altmed.
recode q7social (1=0)(2 thru hi=1)(else=copy) into socwel.
recode q7mental (1=0)(2 thru hi=1)(else=copy) into menthw.
recode q7home (1=0)(2 thru hi=1)(else=copy) into hhhelp.
recode q7meals (1=0)(2 thru hi=1)(else=copy) into mealsowh.
recode q7vol (1=0)(2 thru hi=1)(else=copy) into volunt.
recode q7smcess (1=0)(2 thru hi=1)(else=copy) into stopsmk.
variable labels
  dentist "(D) Visited a dentist in the last 12 months"
  /optcn "(D) Visited a optician in the last 12 months"
  /cnurse "(D) Seen a health visitor, district or community nurse in the last 12 months"
  /mwife "(D) Seen a midwife in the last 12 months"
  /physio "(D) Seen a physiotherapist in the last 12 months"
  /chirop "(D) Seen a chiropodist in the last 12 months"
  /soccthp "(D) Seen a speech or occupational therapist in the last 12 months"
  /gpout "(D) Seen a GP out of hours in the last 12 months"
  /pharm "(D) Used a pharmacist in the last 12 months"
  /nhsdirct "(D) Used the NHS direct helpline in the last 12 months"
  /altmed "(D) Used an alternative therapist in the last 12 months"
  /socwel "(D) Seen a social or health worker in the last 12 months"
  /menthw "(D) Seen a mental health worker in the last 12 months"
  /hhhelp "(D) Used a home help in the last 12 months"
  /mealsowh "(D) Used meals on wheels in the last 12 months"
  /volunt "(D) Used any voluntary services in the last 12 months"
  /stopsmk "(D) Used any smoking cessation service in the last 12 months".
value labels dentist to stopsmk
  0 "No"
  1 "Yes".
  
```

Smoking

SMOKEC: (D) Currently smoke either daily or occasionally

0 No
1 Yes

SPSS Syntax

```
recode q30 (1,2=1) (3 thru 5=0)(else=copy) into smokec.  
variable labels smokec "(D) Currently smoke either daily or occasionally".  
value labels smokec 0 'No' 1 'Yes'.
```

SMOKED: (D) Currently smoke daily

0 No
1 Yes

SPSS Syntax

```
recode q30 (1=1) (2 thru 5=0)(else=copy) into smoked.  
variable labels smoked "(D) Currently smoke daily".  
value labels smoked 0 'No' 1 'Yes'.
```

SMOKEE: (D) Ever smoked

0 No
1 Yes

SPSS Syntax

```
recode q30 (1 thru 4=1) (5=0)(else=copy) into smokee.  
variable labels smokee "(D) Ever smoked".  
value labels smokee 0 'No' 1 'Yes'.
```

SMOKEP: (D) Whether exposed to passive smoke

0 No
1 Yes

SPSS Syntax

```
compute smokep=0.  
if any(-9,q31home,q31work,q31loph,q31trans,q31pub,q31other) smokep=-9.  
if any(1,q31home,q31work,q31loph,q31trans,q31pub,q31other) smokep=1.  
variable labels smokep "(D) Whether exposed to passive smoke".  
value labels smokep 0 'No' 1 'Yes'.
```