

# Scottish Health Survey

# '98

## Derived Variable Specification

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## **SMOKING** **86**

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### **ADULT CURRENT SMOKERS** **86**

CIGDYAL: (D) Number of cigarettes smoke a day - inc. non-smokers	86
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### **ADULTS GENERAL** **86**

CIGST1: (D) Cigarette Smoking Status - Never/Ex-reg/Ex-occ/Current	86
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### **CHILDREN 8-15** **87**

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### **COTININE** **88**

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## **ACCIDENTS** **89**

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MPLACE: (D) Location of major accident	89
MCONSULT: (D) Who consulted about major accident	89

# Classification

## Individual

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### AGEBOOK: (D) Age 2+ (booklet age bands)

1. 2-7
2. 8-12
3. 13-15
4. 16-17
5. 18-19
6. 20+

#### **SPSS Syntax**

```
RECODE age (2 thru 7=1) (8 thru 12=2) (13 thru 15=3) (16 thru 17=4)
(18 thru 19=5) (20 thru hi=6) INTO agebook.
VARIABLE LABEL agebook "(D) Age 2+ (booklet age bands)".
VALUE LABELS agebook
  1 "2-7"
  2 "8-12"
  3 "13-15"
  4 "16-17"
  5 "18-19"
  6 ">=20".
```

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

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

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

### AG16G3 (D): Age16+ in three groups

1. "16-44"
2. "45-64"
3. "65-74".

#### **SPSS Syntax**

```
RECODE age (2 thru 15=-1) (16 thru 44 =1) (45 thru 64=2) (65 thru 74=3)(else=-1)INTO
ag16g3.
VARIABLE LABEL ag16g3 "age - three groups".
VALUE LABELS ag16g3
  1 "16-44"
  2 "45-64"
  3 "65-74".
```

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

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

### **SPSS Syntax**

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

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

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

### **SPSS Syntax**

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

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

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

### **SPSS Syntax**

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

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

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

#### **SPSS Syntax**

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

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

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

#### **SPSS Syntax**

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

### IRNAGE: (D) age at interview rounded to the nearest integer

### NRNAGE: (D) age at nurse visit rounded to the nearest integer

#### **SPSS Syntax**

```
COMPUTE irndage = -1 .
COMPUTE nrndage = -1 .
COMPUTE idate = DATE.DMY(dintb,mintb,yintb) .
COMPUTE ndate = DATE.DMY(visday,vismon,visyr) .
COMPUTE dobdate = DATE.DMY(dobday,dobmon,dobyea) .
IF (dobdate > 0) irndage = RND((idate-dobdate)/(86400*365.25)) .
IF (dobdate > 0 & ndate > 0) nrndage = RND((ndate-dobdate)/(86400*365.25)) .
VARIABLE LABELS irndage "(D) age at interview rounded to the nearest integer".
VARIABLE LABELS nrndage "(D) age at nurse visit rounded to the nearest "+
"integer".
VALUE LABELS irndage nrndage -1 'not applicable' .
```

## Filter Variables

---

### RESPTYP: (D) Respondent Category

#### **SPSS Syntax**

```
recode age (2 thru 15=1) (16 thru 74=2) into resptyp.
variable label resptyp "respondent category".
value labels resptyp
  1 "children"
  2 "adults".
```

### COMP95: (D) Adults aged 16-64

#### **SPSS Syntax**

```
recode age (16 thru 64=1) (else=0) into comp95.
```

```
variable label comp95 "adults aged 16-64".
value labels comp95
0 "children/65+"
1 "adults aged 16-64".
```

## Employment/Economic activity Status

---

### SCCIEG7: (D) Social Class of Chief Income Earner - I,II,IIIN,IIIM,IV,V,Others

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

### SCHOHG6: (D) Social Class of Chief Income Earner - I,II,IIIN,IIIM,IV,V

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

### SCHOHG4: (D) Social Class of Chief Income Earner: I/II,IIINM,IIIM,IV/V

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

#### **SPSS Syntax**

```
recode sc(1 thru 6=COPY)(Else=-1) into sccieg7.
recode sc2(1 thru 6=COPY)(7 thru hi=-1) into sccieg7.
VARIABLE LABEL schohg7 "(D) Social Class of HOH - I,II,IIIN,IIIM,IV,V,Others".
VALUE LABELS schohg7
 1 "I - Professional"
 2 "II- Managerial technical"
 3 "IIIN - Skilled non-manual"
 4 "IIIM - Skilled manual"
 5 "IV - Semi-skilled manual"
 6 "V - Unskilled manual"
 7 "Others".

recode sc(1 thru 5=COPY)(Else=-1) into sccieg6.
recode sc2(1 thru 5=COPY)(6 thru hi=-1) into sccieg6.
VARIABLE LABEL sccieg6 "(D) Social Class of Chief Income Earner - I,II,IIIN,IIIM,IV,V".
VALUE LABELS sccieg6
 1 "I - Professional"
 2 "II- Managerial technical"
 3 "IIIN - Skilled non-manual"
 4 "IIIM - Skilled manual"
 5 "IV - Semi-skilled manual"
 6 "V - Unskilled manual".

RECODE sccieg6 (1 thru 2=1) (3.1=2) (3.2=3)(4 thru 5=4)(ELSE=COPY) into sccieg4.
VARIABLE LABELS sccieg4 "(D) Social Class of HOH: I/II,IIINM,IIIM,IV/V".
VALUE LABELS sccieg4
 1 "I & II"
 2 "IIINM"
 3 "IIIM"
 4 "IV & V".
```

### ECONACT: (D) Economic activity status (4 groups)

1. In employment
2. Unemployed
3. Retired
4. Other economically inactive

**SPSS Syntax**

```
recode activ (2=1) (4=2) (7=3)(1,3,5,6,8,9=4) (else=copy) into econact.
if age<16 econact=-1.
variable labels econact "(D) Economic activity Status (4 groups)".
value labels econact
  1 "In employment"
  2 "Unemployed"
  3 "Retired"
  4 "Other economically inactive".
```

**SICMAJ (D): Sicgroup**

1. Agriculture, hunting and forestry
2. Fishing
3. Mining and Quarrying
4. Manufacturing
5. Electricity, gas and water supply
6. Construction
7. Wholesale and trade retailer: repair
8. Hotels and Restaurants
9. Transport, storage and communication
10. Financial intermediation
11. Real estate, renting and business activities"
12. Public Admin and defence
13. Education
14. Health and Social Work
15. Other services
16. Extra-territorial organisations
- 88 Insufficient information to code

**SICMAJB (D): Combined SIC group**

1. Agriculture, hunting and forestry:Fishing
2. Mining and Quarrying
3. Manufacturing
4. Electricity, gas and water supply
5. Construction
6. Wholesale and trade retailer repair
7. Hotels and Restaurants
8. Transport, storage and communication
9. Finance: Real estate renting and business activities
- 10.Public Admin and defence Education Health and Social Work
- 11.Other services
- 88 Insufficient information to code

**SPSS Syntax**

```
recode sic(1 thru 2=1)(5=2)(10 thru 14=3)(15 thru 37=4)(40 thru 41=5)
(45=6)(50 thru 52=7)(55=8)(60 thru 64=9)(65 thru 67=10)(70 thru 74=11)
(75=12)(80=13)(85=14)(90 thru 95=15)(99=16)(89=-88)(else=copy) into sicmaj.
variable label sicmaj "SIC group".
value labels sicmaj
  1 "Agriculture, hunting and forestry"
  2 "Fishing"
  3 "Mining and Quarrying"
  4 "Manufacturing"
  5 "Electricity, gas and water supply"
  6 "Construction"
  7 "Wholesale and trade retailer: repair"
  8 "Hotels and Restaurants"
  9 "Transport, storage and communication"
  10 "Financial intermediation"
  11 "Real estate, renting and business activities"
  12 "Public Admin and defence"
  13 "Education"
  14 "Health and Social Work"
  15 "Other services"
  16 "Extra-territorial organisations"
  -88 "Insufficient information to code".
```

```
recode sicmaj(1,2=1)(3=2)(4=3)(5=4)(6=5)(7=6)(8=7)(9=8)(10,11=9)
(12,13,14=10)(15,16=11)(else=copy) into sicmajb.
variable label sicmajb "Combined SIC group".
value labels sicmajb
  1 "Agriculture, hunting and forestry:Fishing"
  2 "Mining and Quarrying"
  3 "Manufacturing"
  4 "Electricity, gas and water supply"
  5 "Construction"
  6 "Wholesale and trade retailer repair"
  7 "Hotels and Restaurants"
  8 "Transport, storage and communication"
  9 " Finance: Real estate renting and business activities"
 10 "Public Admin and defence Education Health and Social Work"
 11 "Other services"
-88 "Insufficient information to code".
```

# Anthropometric Measurements

## Demispan Admin

### SPANOKB: (D) Whether demispan 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: difference  $\leq$  3cm but unreliable
6. Not useable: difference  $>$  3cm
7. Partial response
8. Refused
9. Not attempted

The #spanxx variables are temporary variable that are not stored on the dataset. The derivation of SpanOKB is different from previous years because the Nurse questionnaire included a third measurement if the first two measurements were not close enough together.

#### SPSS Syntax

```
RECODE respds (-6,-2=COPY)(2=7)(3=8)(4=9) INTO spanokb.
COMPUTE #span12=abs(span1-span2).
COMPUTE #span13=abs(span1-span3).
COMPUTE #span23=abs(span2-span3).
DO IF (respds=1 & #span12<=3).
IF (spanrel1=1 & spanrel2=1) spanokb=1.
IF ANY(spanrel1,2,-9) | ANY(spanrel2,2,-9) spanokb=5.
END IF.
DO IF (respds=1 & #span12>3).
COMPUTE spanokb=6.
IF #span13<=3 & ANY(spanrel1,2,-9) & ANY(spanrel3,2,-9) spanokb=5.
IF #span23<=3 & ANY(spanrel2,2,-9) & ANY(spanrel3,2,-9) spanokb=5.
IF #span13<=3 & spanrel1=1 & spanrel3=1 spanokb=2.
IF #span23<=3 & spanrel2=1 & spanrel3=1 spanokb=3.
IF #span13<=3 & #span23<=3 & spanrel1=1 & spanrel2=1 & spanrel3=1 spanokb=4.
END IF.
IF (age<=64) spanokb = -1.
VARIABLE LABEL spanokb "(D) Whether Demispan is valid" .
VALUE LABELS spanokb
  1 'Usable 1st & 2nd measurements'
  2 'Usable 1st & 3rd measurements'
  3 'Usable 2nd & 3rd measurements'
  4 'Usable 1st & 2nd & 3rd measurements'
  5 'Not useable: difference  $\leq$  3cm but unreliable'
  6 'Not useable: difference  $>$  3cm'
  7 'Partial response'
  8 'Refused'
  9 'Not attempted'.
```

## Height/Weight Admin

### HTOK: (D) Whether height measure is valid

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

### WTOK: (D) Whether weight measure is valid

1. Valid
2. Not usable

3. Refused
4. Attempted but not obtained
5. Not attempted
6. -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 WTK=4, then BMIOK=4*

#### SPSS Syntax

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

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

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

## Measurements

HTVAL: (D) Valid height (cm)

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

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

#### SPSS Syntax

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

COMPUTE wtval=-1.
IF wtok=1 wtval=weight.
```

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

### HTGRPM: (D) Male height group

1. <170cm
2. 170-180cm
3. >=180cm

### HTGRPW: (D) Female height group.

1. <160cm
2. 160-170cm
3. >=170cm

```
SPSS Syntax  
***** compute height groups*****.  
COMPUTE htgrpm=-1.  
IF height =-6 htgrpm=-6.  
DO IF (sex=1 & htok=1&age>=16).  
RECODE  
  height  
  (1 thru 169.9=1)  
  (170 thru 179.9=2)  
  (180 thru Highest=3)  
  (else=copy) INTO htgrpm.  
END IF.  
EXECUTE .  
  
COMPUTE htgrpw=-1.  
IF height =-6 htgrpm=-6.  
DO IF (sex=2 & htok=1&age>=16).  
RECODE height  
  (1 thru 159.9=1)  
  (160 thru 169.9=2)  
  (170 thru highest=3)  
  (else=copy) INTO htgrpw.  
END IF.  
EXECUTE .  
  
VAR LABEL htgrpm "(D) Male height group".  
VAR LABEL htgrpw "(D) Female height group".  
VALUE LABELS htgrpm 1 "<170cm" 2 "170-180cm" 3 ">=180cm".  
VALUE LABELS htgrpw 1 "<160cm" 2 "160-170cm" 3 ">=170cm".
```

### HTAGEGM: (D) Male age-height group (aged 16 to 74 yrs).

1. '16-44,<175'
2. '16-44,175+'
3. '45-74,<175'
4. '45-74,175+'.

### HTAGEGW: (D) Female age-height group (aged 16 to 74 yrs).

1. '16-44,<165'
2. '16-44,165+'
3. '45-74,<165'
4. '45-74,165+'.

```
SPSS Syntax  
  
COMPUTE htagegm=-1.  
IF height =-6 htagegm=-6.  
DO IF sex=1 & age>=16.  
  RECODE height (175 THRU HI=2) (0 THRU 175=1) (else=copy) INTO htgrpm2.  
  DO IF RANGE (age,16,44).  
    IF (htgrpm2=1) htagegm=1.  
    IF (htgrpm2=2) htagegm=2.  
  ELSE IF RANGE(age,45,74).  
    IF (htgrpm2=1) htagegm=3.  
    IF (htgrpm2=2) htagegm=4.  
  END IF.  
END IF.  
EXECUTE.  
VAR LAB htagegm "(D) Male age-height group (aged 16 to 74 yrs)".  
VAL LAB htagegm 1 '16-44,<175' 2 '16-44,175+'  
  3 '45-74,<175' 4 '45-74,175+'.
```

```

COMPUTE htageqw=-1.
IF height =-6 htagegw=-6.
DO IF sex=2 & age>=16.
  RECODE height (165 THRU HI =2) (0 THRU 165 =1) (else=copy) INTO htgrpw2.
  DO IF RANGE (age,16,44).
    IF (htgrpw2=1) htagegw=1.
    IF (htgrpw2=2) htagegw=2.
  ELSE IF RANGE(age,45,74).
    IF (htgrpw2=1) htagegw=3.
    IF (htgrpw2=2) htagegw=4.
  END IF.
END IF.
EXECUTE.

VAR LAB htagegw "(D) Female age-height group (aged 16 to 74 yrs)".
VAL LAB htagegw 1 '16-44,<165' 2 '16-44,165+'
                 3 '45-74,<165' 4 '45-74,165+'.

```

HTAGE: (D) Height-age children

TERTILE: (D) Height-age tertiles children.

1. 'Shortest tertile'
2. 'Middle tertile'
3. 'Tallest tertile'.

**SPSS Syntax**

```

*****height-age and tertiles for children*****.

COMPUTE htage=-1.
COMPUTE tertile=-1.
DO IF (htok=1).
DO IF (sex=1).
  DO IF (age=7).
    COMPUTE htage=7.
    DO IF (height<=121.4).
      COMPUTE tertile=1.
    ELSE IF (height>121.4 & height<126.5).
      COMPUTE tertile=2.
    ELSE IF (height>=126.5).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=8).
    COMPUTE htage=8.
    DO IF (height<=128.1).
      COMPUTE tertile=1.
    ELSE IF (height>128.1 & height<133.2).
      COMPUTE tertile=2.
    ELSE IF (height>=133.2).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=9).
    COMPUTE htage=9.
    DO IF (height<=133.1).
      COMPUTE tertile=1.
    ELSE IF (height>133.1 & height<139.2).
      COMPUTE tertile=2.
    ELSE IF (height>=139.2).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=10).
    COMPUTE htage=10.
    DO IF (height<=140.5).
      COMPUTE tertile=1.
    ELSE IF (height>140.5 & height<145).
      COMPUTE tertile=2.
    ELSE IF (height>=145).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=11).
    COMPUTE htage=11.
    DO IF (height<=142.8).
      COMPUTE tertile=1.
    ELSE IF (height>142.8 & height<149.4).
      COMPUTE tertile=2.
    ELSE IF (height>=149.4).
      COMPUTE tertile=3.
    END IF.

```

```

ELSE IF (age=12).
  COMPUTE htage=12.
  DO IF (height<=150).
    COMPUTE tertile=1.
  ELSE IF (height>150 & height<156.3).
    COMPUTE tertile=2.
  ELSE IF (height>=156.3).
    COMPUTE tertile=3.
  END IF.
ELSE IF (age=13).
  COMPUTE htage=13.
  DO IF (height<=156).
    COMPUTE tertile=1.
  ELSE IF (height>156 & height<164).
    COMPUTE tertile=2.
  ELSE IF (height>=164).
    COMPUTE tertile=3.
  END IF.
ELSE IF (age=14).
  COMPUTE htage=14.
  DO IF (height<=163.2).
    COMPUTE tertile=1.
  ELSE IF (height>163.2 & height<169.8).
    COMPUTE tertile=2.
  ELSE IF (height>=169.8).
    COMPUTE tertile=3.
  END IF.
ELSE IF (age=15).
  COMPUTE htage=15.
  DO IF (height<=169.2).
    COMPUTE tertile=1.
  ELSE IF (height>169.2 & height<175.4).
    COMPUTE tertile=2.
  ELSE IF (height>=175.4).
    COMPUTE tertile=3.
  END IF.
END IF.
ELSE IF (sex=2).
  DO IF (age=7).
    COMPUTE htage=7.
    DO IF (height<=121).
      COMPUTE tertile=1.
    ELSE IF (height>121 & height<126.9).
      COMPUTE tertile=2.
    ELSE IF (height>=126.9).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=8).
    COMPUTE htage=8.
    DO IF (height<=127.4).
      COMPUTE tertile=1.
    ELSE IF (height>127.4 & height<132.8).
      COMPUTE tertile=2.
    ELSE IF (height>=132.8).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=9).
    COMPUTE htage=9.
    DO IF (height<=133.1).
      COMPUTE tertile=1.
    ELSE IF (height>133.1 & height<138.2).
      COMPUTE tertile=2.
    ELSE IF (height>=138.2).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=10).
    COMPUTE htage=10.
    DO IF (height<=138).
      COMPUTE tertile=1.
    ELSE IF (height>138 & height<143.3).
      COMPUTE tertile=2.
    ELSE IF (height>=143.3).
      COMPUTE tertile=3.
    END IF.
  ELSE IF (age=11).
    COMPUTE htage=11.
    DO IF (height<=144.6).
      COMPUTE tertile=1.
    ELSE IF (height>144.6 & height<151.5).
      COMPUTE tertile=2.
    ELSE IF (height>=151.5).

```

```

        COMPUTE tertile=3.
    END IF.
ELSE IF (age=12).
    COMPUTE htage=12.
    DO IF (height<=151).
        COMPUTE tertile=1.
    ELSE IF (height>151 & height<157).
        COMPUTE tertile=2.
    ELSE IF (height>=157).
        COMPUTE tertile=3.
    END IF.
ELSE IF (age=13).
    COMPUTE htage=13.
    DO IF (height<=157.1).
        COMPUTE tertile=1.
    ELSE IF (height>157.1 & height<161.3).
        COMPUTE tertile=2.
    ELSE IF (height>=161.3).
        COMPUTE tertile=3.
    END IF.
ELSE IF (age=14).
    COMPUTE htage=14.
    DO IF (height<=158).
        COMPUTE tertile=1.
    ELSE IF (height>158 & height<163.1).
        COMPUTE tertile=2.
    ELSE IF (height>=163.1).
        COMPUTE tertile=3.
    END IF.
ELSE IF (age=15).
    COMPUTE htage=15.
    DO IF (height<=159.3).
        COMPUTE tertile=1.
    ELSE IF (height>159.3 & height<165.1).
        COMPUTE tertile=2.
    ELSE IF (height>=165.1).
        COMPUTE tertile=3.
    END IF.
END IF.
END IF.
END IF.

VAR LAB htage ' (D) Height-age children'
/tertile ' (D) Height-age tertiles children'.
VAL LAB tertile 1 'Shortest tertile' 2 'Middle tertile' 3 'Tallest tertile'.

```

#### WTMENG: (D) Male weight grps.

1. '<60'
2. '60-69'
3. '70-79'
4. '80-89'
5. '90+'.

#### WTWOMG: (D) Female weight grps.

1. '<50'
2. '50-59'
3. '60-69'
4. '70-79'
5. '80+'.

#### HTMENG: (D) Male height grps.

1. '<165'
2. '165-169'
3. '170-174'
4. '175-179'
5. '180+'.

#### HWOMG: (D) Female height grps.

1. '<155'
2. '155-159'
3. '160-164'
4. '165-169'
5. '170+'.

**SPSS Syntax**

```
COMPUTE wtmengp=-1.
IF wtval=-6 wtmengp=-6.
DO IF age>=16.
IF (sex=1 and wtval<60) wtmengp=1.
IF (sex=1 and wtval ge 60 and wtval<70) wtmengp=2.
IF (sex=1 and wtval ge 70 and wtval<80) wtmengp=3.
IF (sex=1 and wtval ge 80 and wtval<90) wtmengp=4.
IF (sex=1 and wtval ge 90) wtmengp=5.
END IF.
VAR LAB wtmengp '(D) Male weight grps'.
VAL LAB wtmengp 1 '<60' 2 '60-69' 3 '70-79' 4 '80-89' 5 '90+'.
```

```
COMPUTE wtwomgp=-1.
IF wtval=-6 wtwomgp=-6.
DO IF age>=16.
IF (sex=2 and wtval<50) wtwomgp=1.
IF (sex=2 and wtval ge 50 and wtval<60) wtwomgp=2.
IF (sex=2 and wtval ge 60 and wtval<70) wtwomgp=3.
IF (sex=2 and wtval ge 70 and wtval<80) wtwomgp=4.
IF (sex=2 and wtval ge 80) wtwomgp=5.
END IF.
VAR LAB wtwomgp '(D) Female weight grps'.
VAL LAB wtwomgp 1 '<50' 2 '50-59' 3 '60-69' 4 '70-79' 5 '80+'.
```

```
COMPUTE htmengp=-1.
IF htval=-6 htmengp=-6.
DO IF age>=16.
IF (sex=1 and htval<165) htmengp=1.
IF (sex=1 and htval ge 165 and htval<170) htmengp=2.
IF (sex=1 and htval ge 170 and htval<175) htmengp=3.
IF (sex=1 and htval ge 175 and htval<180) htmengp=4.
IF (sex=1 and htval ge 180) htmengp=5.
END IF.
VAR LAB htmengp '(D)Male height grps'.
VAL LAB htmengp 1 '<165' 2 '165-169' 3 '170-174' 4 '175-179' 5 '180+'.
```

```
COMPUTE htwomgp=-1.
IF htval=-6 htwomgp=-6.
DO IF age>=16.
IF (sex=2 and htval<155) htwomgp=1.
IF (sex=2 and htval ge 155 and htval<160) htwomgp=2.
IF (sex=2 and htval ge 160 and htval<165) htwomgp=3.
IF (sex=2 and htval ge 165 and htval<170) htwomgp=4.
IF (sex=2 and htval ge 170) htwomgp=5.
END IF.
VAR LAB htwomgp '(D) Female height grps'.
VAL LAB htwomgp 1 '<155' 2 '155-159' 3 '160-164' 4 '165-169' 5 '170+'.
```

**SPANMEN '(D) Male demi-span grps'.**

1. '<75'
2. '75-79'
3. '80-84'
4. '85-89'
5. '90+'.

**SPANWOM '(D) Female demi-span grps'.**

1. '<70'
2. '70-74'
3. '75-79'
4. '80+'.

**SPSS Syntax**

```
***** men*****.
COMPUTE spanmen=-1.
IF spanval=-6 spanmen=-6.
DO IF age>=16.
IF (sex=1 and spanval<75) spanmen=1.
IF (sex=1 and spanval ge 75 and spanval<80) spanmen =2.
IF (sex=1 and spanval ge 80 and spanval<85) spanmen =3.
```

```

IF (sex=1 and spanval ge 85 and spanval<90) spanmen =4.
IF (sex=1 and spanval ge 90) spanmen =5.
END IF.
VAR LAB spanmen '(D) Male demi-span grps'.
VAL LAB spanmen 1 '<75' 2 '75-79' 3 '80-84' 4 '85-89' 5 '90+'.

*** women *****.
COMPUTE spanwom=-1.
IF spanval=-6 spanwom=-6.
DO IF age>=16.
IF (sex=2 and spanval<70) spanwom=1.
IF (sex=2 and spanval ge 70 and spanval<75) spanwom =2.
IF (sex=2 and spanval ge 75 and spanval<80) spanwom =3.
IF (sex=2 and spanval ge 80) spanwom =4.
END IF.
VAR LAB spanwom '(D) Female demi-span grps'.
VAL LAB spanwom 1 '<70' 2 '70-74' 3 '75-79' 4 '80+'.

```

**BMI: (D) BMI - inc unreliable measurements**

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

**BMIVG4: (D) Valid BMI (grouped:<20,20-25,25-30,30+)**

- 1 Under 20
- 2 Over 20-25
- 3 Over 25-30
- 4 Over 30

**BMIVG6: (D) Valid BMI (grouped:<20,20-25,25-30,30-35,35-40,40+)**

- 1 Under 20
- 2 Over 20-25
- 3 Over 25-30
- 4 Over 30-35
- 5 Over 35-40
- 6 Over 40

*The syntax recoding BMIVAL to BMIVG4 and BMIVG6 works such that a value of 20 will be coded as 1, as this is the first place that it appears, and we not be overwritten to 2 by the subsequent condition on recode statement. Using this method avoids the danger of freak values falling between values such as between 19.99 and 20.00.*

#### **SPSS Syntax**

```

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

COMPUTE bmival=-1.
IF (bmiok=1) bmival=bmi.
IF (range(estwt,130,500) & ANY(wtok,3,4,5) & htok=1)
  bmival=(estwt * 100 * 100)/(height * height).
RECODE bmival (0 thru 20=1)(20 thru 25=2)(25 thru 30=3)
  (30 thru hi=4)(lo thru -1=COPY) INTO bmivg4.
RECODE bmival (0 thru 20=1)(20 thru 25=2)(25 thru 30=3)(30 thru 35=4)(35 thru 40=5)
  (40 thru hi=6) into bmivg6.
VARIABLE LABELS bmival "(D) Valid BMI - inc estimated>130kg".
VARIABLE LABELS bmivg4 "(D) Valid BMI (grouped:<20,20-25,25-30,30+)".
variable labels bmivg6 "(D) Valid BMI (grouped:<20,20-25,25-30,30-35,35-40,40+)".
VALUE LABELS bmivg4
  1 "Under 20"
  2 "Over 20-25"
  3 "Over 25-30"
  4 "Over 30".
value labels bmivg6
  1 "Under 20"
  2 "Over 20-25"
  3 "Over 25-30"
  4 "Over 30-35"
  5 "Over 35-40"
  6 "Over 40".

```

**ARMVAL: (D) Valid mean upper arm circumference (cm)**

The calculation of mean upper arm circumference is different from previous years because the Nurse questionnaire included a third measurement if the first two measurements were not close enough together.

**SPSS Syntax**

```
COMPUTE armval=-1.
IF (armokb=1) armval=(cuparm1+cuparm2)/2 .
IF (armokb=2) armval=(cuparm1+cuparm3)/2 .
IF (armokb=3) armval=(cuparm2+cuparm3)/2 .
IF (armokb=4) armval=(cuparm1+cuparm2+cuparm3)/3.
VARIABLE LABEL armval "(D) Valid mean mid-upper arm circumference" .
```

**SPANVAL: (D) Valid Mean Demispan (cm)**

The calculation of mean demispan is different from previous years because the Nurse questionnaire included a third measurement if the first two measurements were not close enough together.

**SPSS Syntax**

```
COMPUTE spanval=-1.
IF (spanokb=1) spanval=(span1+span2)/2 .
IF (spanokb=2) spanval=(span1+span3)/2 .
IF (spanokb=3) spanval=(span2+span3)/2 .
IF (spanokb=4) spanval=(span1+span2+span3)/3.
VARIABLE LABEL spanval "(D) Valid Mean Demispan (cm)" .
```

**WSTVAL: (D) Valid Mean Waist (cm)**

**HIPVAL: (D) Valid Mean Hip (cm)**

**WHVAL: (D) Valid Mean Waist/Hip ratio**

The calculation of mean waist and mean hip measurements are different from previous years because the Nurse questionnaire included a third measurement if the first two measurements were not close enough together.

**SPSS Syntax**

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

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

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

**WHMENG ' (D) Male waist-hip in grps'.**

1. 1 '<0.80'
2. '0.80-0.84'
3. '0.85-0.89'
4. '0.90-0.94'
5. '0.95-0.99'
6. '1.00+'.

**WHWOMGP ' (D) Female waist-hip in grps'.**

1. 1 '<0.70'
2. '0.70-0.74'
3. '0.75-0.79'
4. '0.80-0.84'
5. '0.85-0.89'
6. '0.90+'.

**SPSS Syntax**

```

COMPUTE whmenqp=-1.
IF whval =-6 whmengp=-6.
DO IF age>=16.
IF (sex=1 and whval<0.80) whmengp=1.
IF (sex=1 and whval ge 0.80 and whval<0.85) whmengp=2.
IF (sex=1 and whval ge 0.85 and whval<0.90) whmengp=3.
IF (sex=1 and whval ge 0.90 and whval<0.95) whmengp=4.
IF (sex=1 and whval ge 0.95 and whval<1.00) whmengp=5.
IF (sex=1 and whval ge 1.00) whmengp=6.
END IF.
VAR LAB whmengp '(D) Male waist-hip in grps'.
VAL LAB whmengp 1 '<0.80' 2 '0.80-0.84' 3 '0.85-0.89' 4 '0.90-0.94' 5 '0.95-0.99' 6
'1.00 +'.

COMPUTE whwomgp=-1.
IF whval =-6 whwomgp=-6.
DO IF age>=16.
IF (sex=2 and whval<0.70) whwomgp=1.
IF (sex=2 and whval ge 0.70 and whval<0.75) whwomgp=2.
IF (sex=2 and whval ge 0.75 and whval<0.80) whwomgp=3.
IF (sex=2 and whval ge 0.80 and whval<0.85) whwomgp=4.
IF (sex=2 and whval ge 0.85 and whval<0.90) whwomgp=5.
IF (sex=2 and whval ge 0.90) whwomgp=6.
END IF.
VAR LAB whwomgp '(D) Female waist-hip in grps'.
VAL LAB whwomgp 1 '<0.70' 2 '0.70-0.74' 3 '0.75-0.79' 4 '0.80-0.84' 5 '0.85-0.89' 6
'0.90 +'.

```

### MENHIWH '(D) Male high waist hip ratio'.

1. 'Less than 0.95'
2. '0.95 and over'.

### WOMHIWH '(D) Female high waist hip ratio'.

1. 'Less than 0.85'
2. '0.85 and over'.

#### **SPSS Syntax**

```

COMPUTE menhiwh=-1.
DO IF sex=1.
IF RANGE (whval, 0,0.94) menhiwh=1.
IF RANGE (whval,0.95,1.5000) menhiwh=2.
END IF.

VAR LAB menhiwh '(D) Male high waist hip ratio'.
VAL LAB menhiwh
  1 'Less than 0.95'
  2 '0.95 and over'.

COMPUTE womhiwh=-1.
DO IF sex=2.
IF RANGE (whval, 0,0.84) womhiwh=1.
IF RANGE (whval,0.85,1.5000) womhiwh=2.
END IF.

VAR LAB womhiwh '(D) Female high waist hip ratio'.
VAL LAB womhiwh
  1 'Less than 0.85'
  2 '0.85 and over'.

```

## Upper Arm Circumference Admin

### ARMOKB: (D) Whether arm 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: difference <= 1.5cm but unreliable
6. Not useable: difference > 1.5cm'
7. Partial response
8. Refused
9. Not attempted

**SPSS Syntax**

```
RECODE muacint(2=8)(3=9) into armokb.
RECODE crespup(-6,-2=COPY)(1=7)(2=8)(3=9) INTO armokb.
COMPUTE #arm12=abs(cuparm1-cuparm2).
COMPUTE #arm13=abs(cuparm1-cuparm3).
COMPUTE #arm23=abs(cuparm2-cuparm3).
DO IF (muacint=1 & #arm12<=3).
IF (cuprell=1 & cuprel2=1) armokb=1.
IF ANY(cuprell,2,-9) | ANY(cuprel2,2,-9) armokb=5.
END IF.
DO IF (muacint=1 & #arm12>3).
COMPUTE armokb=6.
IF #arm13<=3 & ANY(cuprell,2,-9) & ANY(cuprel3,2,-9) armokb=5.
IF #arm23<=3 & ANY(cuprel2,2,-9) & ANY(cuprel3,2,-9) armokb=5.
IF #arm13<=3 & cuprell=1 & cuprel3=1 armokb=2.
IF #arm23<=3 & cuprel2=1 & cuprel3=1 armokb=3.
IF #arm13<=3 & #arm23<=3 & cuprell=1 & cuprel2=1 & cuprel3=1 armokb=4.
END IF.
IF (age>=16) armokb = -1.
IF upreg=1 armokb=-90.
VARIABLE LABEL armokb "(D) Whether arm measurements are valid" .
VALUE LABELS armokb
  1 'Usable 1st & 2nd measurements'
  2 'Usable 1st & 3rd measurements'
  3 'Usable 2nd & 3rd measurements'
  4 'Usable 1st & 2nd & 3rd measurements'
  5 'Not useable: difference <= 1.5cm but unreliable'
  6 'Not useable: difference > 1.5cm'
  7 'Partial response'
  8 'Refused'
  9 'Not attempted'
-90 'Pregnant'.
```

## Waist Hip Admin

---

### WSTOKB: (D) Whether waist measurements are valid

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

### HIPOKB: (D) Whether hip measurements are valid

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

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

1. Valid
2. Waist/Hip not usable
3. Waist/Hip partial response
4. Waist/Hip refused
5. Waist/Hip not attempted
6. -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 if WSTOKB=7 and HIPOKB=8, then WHOKB=4

**SPSS Syntax**

```

RECODE respwh (1=1)(2=7)(3=8)(4=9)(-6,-2=COPY) INTO wstokb.
COMPUTE #wst12=abs(waist1-waist2).
COMPUTE #wst13=abs(waist1-waist3).
COMPUTE #wst23=abs(waist2-waist3).
IF respwh=1 & #wst12<=3 & any(wjrel,1,2,3) wsokb=1.
DO IF respwh=1 & #wst12>3.
COMPUTE wstokb=6.
IF #wst13<=3 wstokb=2.
IF #wst23<=3 wstokb=3.
IF #wst13<=3 & #wst23<=3 wstokb=4.
END IF.
IF ANY(wjrel,4,-9) wstokb=5.
IF pregntj=1 wstokb=-90.
IF age<16 wstokb=-1.
VARIABLE LABELS wstokb "(D) Whether waist measurements are valid".
VALUE LABELS wstokb
  1 'Usable 1st & 2nd measurements'
  2 'Usable 1st & 3rd measurements'
  3 'Usable 2nd & 3rd measurements'
  4 'Usable 1st & 2nd & 3rd measurements'
  5 'Not useable: unreliable'
  6 'Not useable: difference > 3cm'
  7 'Partial response'
  8 'Refused'
  9 'Not attempted'
  -90 "Pregnant".

RECODE respwh (1=1)(2=7)(3=8)(4=9)(-6,-2=COPY) INTO hipokb.
COMPUTE #hip12=abs(hip1-hip2).
COMPUTE #hip13=abs(hip1-hip3).
COMPUTE #hip23=abs(hip2-hip3).
IF respwh=1 & #hip12<=3 & any(wjrel,1,2,3) wsokb=1.
DO IF respwh=1 & #hip12>3.
COMPUTE hipokb=6.
IF #hip13<=3 hipokb=2.
IF #hip23<=3 hipokb=3.
IF #hip13<=3 & #hip23<=3 hipokb=4.
END IF.
IF ANY(hjrel,4,-9) hipokb=5.
IF pregntj=1 hipokb=-90.
IF age<16 hipokb=-1.
VARIABLE LABELS hipokb "(D) Whether hip measurements are valid".
VALUE LABELS hipokb
  1 'Usable 1st & 2nd measurements'
  2 'Usable 1st & 3rd measurements'
  3 'Usable 2nd & 3rd measurements'
  4 'Usable 1st & 2nd & 3rd measurements'
  5 'Not useable: unreliable'
  6 'Not useable: difference > 3cm'
  7 'Partial response'
  8 'Refused'
  9 'Not attempted'
  -90 "Pregnant".

RECODE wstokb(-6,-2=COPY) into whokb.
IF RANGE(wstokb,1,4) & RANGE(hipokb,1,4) whokb=1.
IF ANY(5,wstokb,hipokb) | ANY(6,wstokb,hipokb) whokb=2.
IF ANY(7,wstokb,hipokb) whokb=3.
IF ANY(8,wstokb,hipokb) whokb=4.
IF ANY(9,wstokb,hipokb) whokb=5.
IF hipok=-90 whokb=-90.
IF age<16 whokb=-1.
VARIABLE LABELS whokb "(D) Whether waist/hip measure is valid".
VALUE LABELS whokb
  1 "Valid"
  2 "Waist/Hip not usable"
  3 "Waist/Hip partial response"
  4 "Waist/Hip refused"
  5 "Waist/Hip not attempted"
  -90 "Pregnant".

```

# Blood Pressure

## Admin

### BPRESPC: (D) Whether BP readings are valid

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

*This is a different variable from previous years, as new questions were introduced for nurse to state whether all BP readings were OK.*

#### 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,consubx1,consubx2,consubx3,consubx4)) bprespc= 2.
IF (respbps = 1 & any(1,consuby1,consuby2)) bprespc= 2.
IF (respbps = 1 & ANY(-9,consubx1,consuby1)) bprespc= 3.
IF (pregntj = 1) bprespc = 5.
VARIABLE LABEL bprespc "(D) Whether BP readings are valid".
VALUE LABELS bprespc 1 'Valid blood pressure measurement'
                2 'Ate, drank, or smoked in previous half hour'
                3 'Not known if ate, drank, or smoked'
                4 'Three valid readings not obtained'
                5 'Pregnant'
                6 'Refused, attempted but not obtained, not attempted'.
```

## Measurements

### HYPER160 "(D) Hyp cats with pre 98 def: all prescribed drugs for BP".

1. 'Normotensive untreated'
2. 'Normotensive treated'
3. 'Hypertensive treated'
4. 'Hypertensive untreated'.

### HYPER140."(D) Hypertensive categories 98: all prescribed drugs for BP" .

1. 'Normotensive untreated'
2. 'Normotensive treated'
3. 'Hypertensive treated'
4. 'Hypertensive untreated'.

#### SPSS Syntax

```
COMPUTE hyper160=hyper2.
VARIABLE LABELS hyper160
  "(D) Hyp cats with pre 98 def: all prescribed drugs for BP" .
VALUE LABELS hyper160
  1 'Normotensive untreated'
  2 'Normotensive treated'
  3 'Hypertensive treated'
  4 'Hypertensive untreated'.

MISSING VALUES hyper160 hyper2 (-90 thru -1).

RECODE bprespc (2 thru 5,-1=-1)(-6,-2=COPY)(6=-7) INTO hyper140.
DO IF bprespc=1.
IF ANY(bpmedc,-1,0) & RANGE(newsys,0,139.999) & RANGE(newdiast,0,89.999)
  hyper140=1.
IF bpmedc=1 & RANGE(newsys,0,139.999) & RANGE(newdiast,0,89.999)
  hyper140=2.
```

```

IF bpmedc=1 & (newsyst>=140 | newdiast>=90) hyper140=3.
IF ANY(bpmedc,-1,0) & (newsyst>=140 | newdiast>=90) hyper140=4.
END IF.
IF (bpmedc = -9) hyper140 = -9 .
VARIABLE LABELS hyper140
  "(D) Hypertensive categories: all prescribed drugs for BP" .
VALUE LABELS hyper140
  1 'Normotensive untreated'
  2 'Normotensive treated'
  3 'Hypertensive treated'
  4 'Hypertensive untreated'.

```

**HYPER1: (D) Hypertensive categories: all prescribed drugs for BP**

**HYPER2: (D) Hypertensive categories: all taking BP drugs**

1. Normotensive untreated
2. Normotensive treated
3. Hypertensive treated
4. Hypertensive untreated

*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 hyper1.
DO IF bprespc=1.
IF ANY(bpmedd,0,-1) & RANGE(newsyst,0,159.999) & RANGE(newdiast,0,94.999)
  hyper1=1.
IF bpmedd=1 & RANGE(newsyst,0,159.999) & RANGE(newdiast,0,94.999)
  hyper1=2.
IF bpmedd=1 & (newsyst>=160 | newdiast>=95) hyper1=3.
IF ANY(bpmedd,0,-1) & (newsyst>=160 | newdiast>=95) hyper1=4.
END IF.
IF (bpmedd = -9) hyper1 = -9 .
VARIABLE LABELS hyper1
  "(D) Hypertensive categories: all prescribed drugs for BP" .
VALUE LABELS hyper1
  1 'Normotensive untreated'
  2 'Normotensive treated'
  3 'Hypertensive treated'
  4 'Hypertensive untreated'.

RECODE bprespc (2 thru 5,-1=-1)(-6,-2=COPY)(6=-7) INTO hyper2.
DO IF bprespc=1.
IF ANY(bpmedc,0,-1) & RANGE(newsyst,0,159.999) & RANGE(newdiast,0,94.999)
  hyper2=1.
IF bpmedc=1 & RANGE(newsyst,0,159.999) & RANGE(newdiast,0,94.999)
  hyper2=2.
IF bpmedc=1 & (newsyst>=160 | newdiast>=95) hyper2=3.
IF ANY(bpmedc,0,-1) & (newsyst>=160 | newdiast>=95) hyper2=4.
END IF.
IF (bpmedc = -9) hyper2 = -9 .
VARIABLE LABELS hyper2
  "(D) Hypertensive categories: all taking BP drugs" .
VALUE LABELS hyper2
  1 'Normotensive untreated'
  2 'Normotensive treated'
  3 'Hypertensive treated'
  4 'Hypertensive untreated'.

```

**HIGHBP1: (D) Whether hypertensive: all prescribed drugs for BP**

**HIGHBP2: (D) Whether hypertensive: all taking BP drugs**

1. Not high BP
2. 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 hyper1 (lo thru -1=COPY)(1=0)(2,3,4=1) INTO highbp1.
VARIABLE LABELS highbp1 "(D) Whether hypertensive: all prescribed drugs for BP".
VALUE LABELS highbp1
  0 'Not high BP' 1 'High BP'.

RECODE hyper2 (lo thru -1=COPY)(1=0)(2,3,4=1) INTO highbp2.
VARIABLE LABELS highbp2 "(D) Whether hypertensive: all taking BP drugs".
VALUE LABELS highbp2
  0 'Not high BP' 1 'High BP'.

```

**DIAVAL: (D) Valid Mean Diastolic BP****SYSVAL: (D) Valid Mean Systolic BP****MAPVAL: (D) Valid Mean Arterial Pressure****PULVAL: (D) Valid Pulse Pressure**

*This set of variables should be used for analysis of valid BP measurements. Although these variables appear before NEWDIAST etc. The syntax to create NEWDIAST should be run before running this syntax.*

**SPSS Syntax**

```

DO REPEAT xval=diaval sysval mapval pulval.
RECODE bprespc (lo thru 0=COPY)(2,5=-1)(3,4=-8)(6=-7) INTO xval.
END REPEAT.
DO IF bprespc=1.
COMPUTE diaval=newdiast.
COMPUTE sysval=newsyst.
COMPUTE mapval=newmap.
COMPUTE pulval=puls.
END IF.
VARIABLE LABELS diaval "(D) Valid Mean Diastolic BP" .
VARIABLE LABELS sysval "(D) Valid Mean Systolic BP" .
VARIABLE LABELS mapval "(D) Valid Mean Arterial Pressure" .
VARIABLE LABELS pulval "(D) Valid Pulse Pressure" .

```

**NEWDIAST: (D) Diastolic BP (mean 2nd/3rd) inc. invalid****NEWSYST: (D) Systolic BP (mean 2nd/3rd) inc. invalid****NEWMAP: (D) Mean arterial pressure (mean 2nd/3rd) inc. invalid****PULS: (D) 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 xmeas = newdiast newsyst newmap puls.
RECODE respbps (lo thru 0=COPY)(4 thru 6=-7)(2 thru 3=-9) INTO xmeas.
END REPEAT.
DO IF (respbps = 1).
COMPUTE newdiast = (secdia + thirddia)/2.
COMPUTE newsyst = (secsys + thirdsyst)/2.
COMPUTE newmap = (secmap + thirdmap)/2.
COMPUTE puls = newsyst-newdiast.
END IF.
VARIABLE LABELS newdiast "(D) Diastolic BP (mean 2nd/3rd) inc. invalid" .
VARIABLE LABELS newsyst "(D) Systolic BP (mean 2nd/3rd) inc. invalid" .
VARIABLE LABELS newmap "(D) Mean arterial pressure (mean 2nd/3rd) inc. invalid" .
VARIABLE LABELS puls "(D) Pulse pressure, systolic-diastolic inc. invalid" .

```

# Blood sample

## Measurements

---

### VITCGP: (D) Vitamin C groups

1. <11'
2. 11-16
3. over 16

#### *SPSS Syntax*

```
COMPUTE vitcgp=-1.  
IF vitc=-6 vitcgp=-6.  
DO IF viteat6 ~= 1.  
  IF (vitc ge 0 and vitc < 11) vitcgp=1.  
  IF (vitc ge 11 and vitc<17) vitcgp=2.  
  IF (vitc ge 17) vitcgp=3.  
  IF (vitc=-8) vitcgp=-1.  
END IF.  
VAR LAB vitcgp ' (D) Vitamin C groups'.  
VAL LAB vitcgp 1 '<11' 2 '11-16' 3 'over 16'.
```

### CHOLVAL: (D) Valid Cholesterol Result

### HDLVAL: (D) Valid HDL Cholesterol Result

### FERVAL: (D) Valid Ferritin Result

### HAEMVAL: (D) Valid Haemoglobin Result

### FIBVAL: (D) Valid Fibrinogen Result

### CRPVAL: (D) Valid C-Reactive Protein Result

### GAMVAL: (D) Valid Gamma-GT Result

*The xxxOK variable syntax needs to be run before the xxxVAL syntax*

#### *SPSS Syntax*

```
compute cholval=-1.  
if cholok=1 cholval=cholest.  
variable labels cholval "(D) Valid Cholesterol Result".  
  
compute hdlval=-1.  
if hdlk=1 hdlval=hdlchol.  
variable labels hdlval "(D) Valid HDL Cholesterol Result".  
  
compute ferval=-1.  
if ferokb=1 ferval=ferrit.  
variable labels ferval "(D) Valid Ferritin Result".  
  
compute haemval=-1.  
if haemokb=1 haemval=haemo.  
variable labels haemval "(D) Valid Haemoglobin Result".  
  
compute fibval=-1.  
if fibokb=1 fibval=fibgen.  
variable labels fibval "(D) Valid Fibrinogen Result".  
  
compute crpval=-1.  
if crpokb=1 crpval=crp.  
variable labels crpval "(D) Valid C-Reactive protein Result".  
  
compute gamval=-1.  
if gamokb=1 gamval=ggg.  
variable labels gamval "(D) Valid Gamma GT Result".
```

CHOLOK: (D) Response to Cholesterol sample  
 HDLOK: (D) Response to HDL Cholesterol sample  
 FEROKB: (D) Response to Ferritin sample  
 HAEMOKB: (D) Response to Haemoglobin sample  
 FIBOKB: (D) Response to Fibrinogen sample  
 CRPOKB: (D) Response to C-Reactive Protein sample  
 GGTOKB: (D) Response to the Gamma-GT sample

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

*All xxxOK variables have the same value labels*

**SPSS Syntax**

```

recode samptak (-1=4)(1,2=3) into cholok.
if clotb=-90 cholok=-90.
if any(2,bswill,cbsconst) cholok=5.
if cholest>0 & cholqual<0 cholok=1.
if cholest>0 & lipid=1 cholok=2.
variable labels cholok "(D) Response to Cholesterol sample".
value labels cholok
  1 "Valid sample"
  2 "Takes drugs affecting sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

recode samptak (-6=-6)(-1=4)(1,2=3) into hdlok.
if clotb=-90 hdlok=-90.
if any(2,bswill,cbsconst) hdlok=5.
if hdlchol>0 & hdlqual<0 hdlok=1.
if hdlchol>0 & lipid=1 hdlok=2.
variable labels hdlok "(D) Response to HDL Cholesterol sample".
value labels hdlok
  1 "Valid sample"
  2 "Takes drugs affecting sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

recode samptak (-6=-6)(-1=4)(1,2=3) into ferokb.
if clotb=-90 ferokb=-90.
if any(2,bswill,cbsconst) ferokb=5.
if ferrit>0 & ferqual<0 ferokb=1.
if ferrit>0 & iron=1 ferokb=2.
variable labels ferokb "(D) Response to Ferritin sample".
value labels ferokb
  1 "Valid sample"
  2 "Takes drugs affecting sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

recode samptak (-6=-6)(-1=4)(1,2=3) into haemokb.
if clotb=-90 haemokb=-90.
if any(2,bswill,cbsconst) haemokb=5.
if haemo>0 & haemqual<0 haemokb=1.
if haemo>0 & iron=1 haemokb=2.
variable labels haemokb "(D) Response to Haemoglobin sample".
value labels haemokb
  1 "Valid sample"
  2 "Takes drugs affecting sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

recode samptak (-6=-6)(-1=4)(1,2=3) into fibokb.
if clotb=-90 fibokb=-90.
if any(2,bswill,cbsconst) fibokb=5.
if fibgen>0 & fibqual<0 fibokb=1.
if fibgen>0 & any(1,beta,lipid) fibokb=2.
if fibokb=3 & age<16 finokb=4.
  
```

```

variable labels fibokb "(D) Response to Fibrinogen sample".
value labels fibokb
  1 "Valid sample"
  2 "Takes drugs affecting sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

recode samptak (-6=-6)(-1=4)(1,2=3) into crpokb.
if clotb=-90 crpokb=-90.
if any(2,bswill,cbsconst) crpokb=5.
if crp>0 & crpqual<0 crpokb=1.
variable labels crpokb "(D) Response to C-Reactive Protein sample".
value labels crpokb
  1 "Valid sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

recode samptak (-6=-6) (-1=4)(1,2=3) into gamokb.
if clotb=-90 gamokb=-90.
if any(2,bswill,cbsconst) gamokb=5.
if ggt>0 & ggtq<0 gamokb=1.
if ggt>0 & epildrug=1 gamokb=2.
variable labels gamokb "(D) Response to Gamma GT sample".
value labels gamokb
  1 "Valid sample"
  2 "Takes drugs affecting sample"
  3 "Sample not obtained, not usable"
  4 "Ineligible"
  5 "Refused".

```

### TOTIGEOK: (D) Response to total IgE sample

```

  2 'Schedule not applicable'
  -6 'Schedule not obtained'
  1 'Valid sample obtained'
  2 'Sample not obtained or not usable'
  3 'Ineligible'
  4 'Refused'.

```

### HDMIGEOK: (D) Response to Household dustmite IgE sample

```

  2 'Schedule not applicable'
  -6 'Schedule not obtained'
  1 'Valid sample obtained'
  2 'Sample not obtained or not usable'
  3 'Ineligible'
  4 'Refused'.

```

#### **SPSS Syntax**

```

rename variables (ige=totige) (igeq=tigequal) (hdige=hdmige)(hdigeq=hdmqual).
*syntax to derive Ige variables.
freq samptak.
IF (samptak = 1 | samptak = 2) totigeok = 2 .
IF (totige > 0 & tigequal < 0) totigeok = 1 .
IF (samptak = -1) totigeok = 3 .
IF (samptak = -9) totigeok = 4 .
IF (samptak = -6) totigeok = -6 .
IF (samptak = -2) totigeok = -2 .
VARIABLE LABEL totigeok "(D) response to total IgE sample" .
VALUE LABELS totigeok
  -2 'Schedule not applicable'
  -6 'Schedule not obtained'
  1 'Valid sample obtained'
  2 'Sample not obtained or not usable'
  3 'Ineligible'
  4 'Refused' .

IF (samptak = 1 | samptak = 2) hdmigeok = 2 .
IF (hdmige > 0 & hdmqual < 0) hdmigeok = 1 .
IF (samptak = -1) hdmigeok = 3 .
IF (samptak = -9) hdmigeok = 4 .
IF (samptak = -6) hdmigeok = -6 .
IF (samptak = -2) hdmigeok = -2 .
VARIABLE LABEL hdmigeok "(D) response to total Household dustmite IGE sample" .
VALUE LABELS hdmigeok

```

```

-2 'Schedule not applicable'
-6 'Schedule not obtained'
 1 'Valid sample obtained'
 2 'Sample not obtained or not usable'
 3 'Ineligible'
 4 'Refused' .

```

### LEADG: (D) Lead - grouped

1. 0 to 2.5
2. 2.6 to 5
3. 5.1 thru 10
4. over 10.

#### *SPSS Syntax*

```

recode lead (0 thru 2.5=1) (2.6 thru 5.0=2) (5.1 thru 10=3)(10.1 thru hi=4) (else=copy)
into leadg.
variable label leadg "lead - grouped".
value label leadg
 1 "0 to 2.5"
 2 "2.6 to 5"
 3 "5.1 thru 10"
 4 "over 10".

```

### GGTG(D): Gamma GT - grouped

1. Less than 10iu/l
2. 10, less than 15
3. 15, less than 25
4. 25, less than 35
5. 35, less than 45
6. 45, less than 55
7. 55 or over

#### *SPSS Syntax*

```

compute ggtg=gamval.
if (gamval>=0 and gamval<10) ggtg=1.
if (gamval>=10 and gamval<15) ggtg=2.
if (gamval>=15 and gamval<25) ggtg=3.
if (gamval>=25 and gamval<35) ggtg=4.
if (gamval>=35 and gamval<45) ggtg=5.
if (gamval>=45 and gamval<55) ggtg=6.
if (gamval>=55) ggtg=7.
variable labels ggtg
"Gamma GT - grouped".
value labels ggtg
1 "Less than 10iu/l"
2 "10, less than 15"
3 "15, less than 25"
4 "25, less than 35"
5 "35, less than 45"
6 "45, less than 55"
7 "55 or over"

```

### MENFERQN '(D) Male ferritin groups'.

1. 'lowest quin'
2. '2nd quin'
3. '3rd mid quin'
4. '4th quin'
5. 'highest quin'.

### WOMFERQN '(D) Female ferritin groups'.

1. 'lowest quin'
2. '2nd quin'
3. '3rd mid quin'
4. '4th quin'
5. 'highest quin'.

### MENHMGP '(D) Male haemoglobin groups'.

1. '<13.00'
2. '13.00-13.99'
3. '14.00-15.49'
4. '15.5+'.

### WOMHMGP '(D) Female haemoglobin groups'.

1. '<12.00'
2. '12.00-12.99'
3. '13.00-13.99'
4. '14.00+'.

#### **SPSS Syntax**

```
COMPUTE menferqn=-1.
IF ferval =-6 menferqn =-6.
DO IF age>=16.
IF (sex=1 and ferval<42.99) menferqn=1.
IF (sex=1 and ferval ge 43.00 and ferval<71.01) menferqn=2.
IF (sex=1 and ferval ge 71.01 and ferval<104.01) menferqn=3.
IF (sex=1 and ferval ge 104.01 and ferval<161.01) menferqn=4.
IF (sex=1 and ferval ge 161.01) menferqn=5.
END IF.
VAR LAB menferqn '(D) Male ferritin groups'.
VAL LAB menferqn 1 'lowest quin' 2 '2nd quin' 3 '3rd mid quin' 4 '4th quin' 5 ' highest
quin'.

COMPUTE womferqn=-1.
IF ferval =-6 womferqn =-6.
DO IF age>=16.
IF (sex=2 and ferval<18.01) womferqn=1.
IF (sex=2 and ferval ge 18.01 and ferval <30.01) womferqn=2.
IF (sex=2 and ferval ge 30.01 and ferval < 46.01) womferqn=3.
IF (sex=2 and ferval ge 46.01 and ferval < 75.01) womferqn=4.
IF (sex=2 and ferval ge 75.01) womferqn=5.
END IF.
VAR LAB womferqn '(D) Female ferritin groups'.
VAL LAB womferqn 1 'lowest quin' 2 '2nd quin' 3 '3rd mid quin' 4 '4th quin' 5 ' highest
quin'.
EXECUTE.

COMPUTE menhmgp=-1.
IF haemval=-6 menhmgp=-6.
DO IF age>=16.
IF (sex=1 and haemval<13) menhmgp=1.
IF (sex=1 and haemval ge 13 and haemval<14) menhmgp=2.
IF (sex=1 and haemval ge 14 and haemval<15.5) menhmgp=3.
IF (sex=1 and haemval ge 15.5) menhmgp=4.
END IF.
VAR LAB menhmgp '(D) Male haemoglobin groups'.
VAL LAB menhmgp 1 '<13.00' 2 '13.00-13.99' 3 '14.00-15.49' 4 '15.5+'.

COMPUTE womhmgp=-1.
IF haemval=-6 womhmgp=-6.
DO IF age>=16.
IF (sex=2 and haemval<12) womhmgp=1.
IF (sex=2 and haemval ge 12 and haemval<13) womhmgp=2.
IF (sex=2 and haemval ge 13 and haemval<14) womhmgp=3.
IF (sex=2 and haemval ge 14) womhmgp=4.
END IF.
VAR LAB womhmgp '(D) Female haemoglobin groups'.
VAL LAB womhmgp 1 '<12.00' 2 '12.00-12.99' 3 '13.00-13.99' 4 '14.00+'.
MISS VAL womhmgp menhmgp (-1).
EXECUTE.
```

### MENFERGP '(D) Male ferritin groups'.

1. 1 '>=43'
2. '44-71'
3. '72-104'
4. '105-161'
5. '162+'.

### WOMFERGP '(D) Female ferritin groups'.

1. 1 '>=18'

2. '19-30'
3. '31-46'
4. '47-75'
5. '76 +'

MENLOWHM '(D)Male low haemoglobin '.

1. ' low <13.00'
2. ' not low'.

WOMLOWHM '(D)Female low haemoglobin '.

1. 'low <12.00'
2. 'not low'.

MENLOWFE '(D) Male low ferritin '.

1. 'low <=43.00'
2. 'not low'.

WOMLOWFE '(D) Female low ferritin '.

1. 'low <=18.00'
2. 'not low'

MENLOW '(D) Men low haem/ferritin'.

1. 'low haem only'
2. 'both haem/fer low'
3. 'low fer only'.

WOMLOW '(D) Women low haem/ferritin'.

1. 'low haem only'
2. both haem/fer low'
3. 'low fer only'.

LADFERGP (D) Boys ferritin groups'.

1. '<43'
2. '44-71 #'
3. '72-104'
4. '105-161'
5. '162 +'

LASFERGP '(D) Girls ferritin groups'.

1. <18
2. '17-30'
3. '31-45'
4. '46-74'
5. '75 +'

LADLOWHM '(D) Boys low haemoglobin '.

1. 'low <13.00'
2. 'not low'.

LASLOWHM '(D) Girls low haemoglobin '.

1. 'low <12.00'
2. 'not low'.

LADLOWFE '(D) Boys low ferritin '.

1. 'low <13.00'
2. 'not low'.

LADLOW '(D) Boys low haem/ferritin'.

1. 'low haem only'
2. 'both haem/fer low'
3. 'low fer only'.

LASLOW '(D) Girls low haem/ferritin'.

- 1 'low haem only'
- 2 'both haem/fer low'
- 3 'low fer only'.

**SPSS Syntax**

```

COMPUTE menfergpp=-1.
DO IF (sex=1& age>=16).
RECODE ferval (0 THRU 43.00=1) (44.00 THRU 71.00=2) (72.00 THRU 104.00=3)
              (105.00 THRU 161.00=4) ( 162.00 THRU hi =5) (else=copy)INTO
menfergpp.
END IF.
VAR LAB menfergpp '(D) Male ferritin groups'.
VAL LAB menfergpp 1 '>=43' 2 '44-71' 3 '72-104' 4 '105-161' 5 ' 162 +'.

COMPUTE womfergpp=-1.
DO IF (sex=2& age>=16).
RECODE ferval (0 THRU 18.00=1) (19.00 THRU 30.00=2) (31.00 THRU 46.00=3)
              (47.00 THRU 75.00=4) (76.00 THRU hi =5) (else=copy) INTO
womfergpp.
END IF.
VAR LAB womfergpp '(D) Female ferritin groups'.
VAL LAB womfergpp 1 '>=18' 2 '19-30' 3 '31-46' 4 '47-75' 5 ' 76 +'.

COMPUTE menlowhm=-1.
DO IF (sex=1& age>=16).
RECODE haemval (0 THRU 12.99=1) (13.00 THRU hi=2) (else =copy) INTO menlowhm.
END IF.
VAR LAB menlowhm '(D)Male low haemoglobin '.
VAL LAB menlowhm 1 'low <13.00' 2 'not low'.

COMPUTE womlowhm=-1.
DO IF (sex=2& age>=16).
RECODE haemval (0 THRU 11.99=1) (12.00 THRU hi=2) (else=copy) INTO womlowhm.
END IF.
VAR LAB womlowhm '(D)Female low haemoglobin '.
VAL LAB womlowhm 1 'low <12.00' 2 'not low'.

COMPUTE menlowfe=-1.
DO IF (sex=1& age>=16).
RECODE ferval (0 THRU 43.00=1) (43.01 THRU hi=2) (else=copy) INTO menlowfe.
END IF.
VAR LAB menlowfe '(D) Male low ferritin '.
VAL LAB menlowfe 1 'low <=43.00' 2 'not low'.

COMPUTE womlowfe=-1.
DO IF (sex=2& age>=16).
RECODE ferval (0 THRU 18.00=1) (18.01 THRU hi=2) (else=copy) INTO womlowfe.
END IF.
VAR LAB womlowfe '(D) Female low ferritin '.
VAL LAB womlowfe 1 'low <=18.00' 2 'not low'.

COMPUTE menlow=-1.
DO IF (sex=1 & age>=16).
IF (menlowhm=1 and menlowfe=2) menlow=1.
IF (menlowhm=1 and menlowfe=1) menlow=2.
IF (menlowhm=2 and menlowfe=1) menlow=3.
IF ANY (-6,menlowhm, menlowfe) menlow=-6.
END IF.
VAR LAB menlow '(D) Men low haem/ferritin'.
VAL LAB menlow 1 'low haem only' 2 'both haem/fer low' 3 'low fer only'.

COMPUTE womlow=-1.
DO IF (sex=2 & age>=16).
IF (womlowhm=1 and womlowfe=2) womlow=1.
IF (womlowhm=1 and womlowfe=1) womlow=2.
IF (womlowhm=2 and womlowfe=1) womlow=3.
IF ANY (-6,womlowhm, womlowfe) womlow=-6.
END IF.
VAR LAB womlow '(D) Women low haem/ferritin'.
VAL LAB womlow 1 'low haem only' 2 'both haem/fer low' 3 'low fer only'.
EXECUTE.

COMPUTE ladfergpp=-1.
DO IF age<16.
IF (sex=1 and ferval<43) ladfergpp=1.

```

```

IF (sex=1 and ferval ge 44. and ferval<71) ladfergp=2.
IF (sex=1 and ferval ge 72. and ferval<104) ladfergp=3.
IF (sex=1 and ferval ge 105and ferval<161) ladfergp=4.
IF (sex=1 and ferval ge 162) ladfergp=5.
IF (sex=1 and ferval =-6) ladfergp = -6.
END IF.
VAR LAB ladfergp (D) Boys ferritin groups'.
VAL LAB ladfergp 1 '<43' 2 '44-71 3 '72-104 4 '105-161' 5 '162 +'.

COMPUTE lasfergp=-1.
DO IF age<16.
IF (sex=2 and ferval<18.) lasfergp=1.
IF (sex=2 and ferval ge 18 and ferval<31) lasfergp=2.
IF (sex=2 and ferval ge 31 and ferval<46) lasfergp=3.
IF (sex=2 and ferval ge 46 and ferval<75.) lasfergp=4.
IF (sex=2 and ferval ge 75) lasfergp=5.
IF (sex=2 and ferval =-6) lasfergp = -6.
END IF.
VAR LAB lasfergp '(D) Girls ferritin groups'.
VAL LAB lasfergp 1 '<18.' 2 18. -30' 3 '31-45.' 4 '46-74' 5 '75 +'.

COMPUTE ladlowhm=-1.
DO IF (sex=1 & age<16).
RECODE haemval (0 THRU 12.99=1) (13.00 THRU hi=2) (else=copy) INTO ladlowhm.
END IF.
VAR LAB ladlowhm '(D) Boys low haemoglobin '.
VAL LAB ladlowhm 1 'low <13.00' 2 'not low'.

COMPUTE laslowhm=-1.
DO IF (sex=2 & age<16).
RECODE haemval (0 THRU 11.99=1) (12.00 THRU hi=2) (else = copy) INTO laslowhm.
END IF.
VAR LAB laslowhm '(D) Girls low haemoglobin '.
VAL LAB laslowhm 1 'low <12.00' 2 'not low'.

COMPUTE ladlowfe=-1.
DO IF (sex=1 & age<16).
RECODE ferval (0 THRU 12.99=1) (13.00 THRU hi=2) (else =copy) INTO ladlowfe.
END IF.
VAR LAB ladlowfe '(D) Boys low ferritin '.
VAL LAB ladlowfe 1 'low <13.00' 2 'not low'.

COMPUTE laslowfe=-1.
DO IF (sex=2 & age<16).
RECODE ferval (0 THRU 11.99=1) (12.00 THRU hi=2) (else = copy) INTO laslowfe.
END IF.
VAR LAB laslowfe '(D) Girls low ferritin '.
VAL LAB laslowfe 1 'low <12.00' 2 'not low'.

COMPUTE ladlow=-1.
DO IF age<16.
IF (sex=1 and ladlowhm=1 and ladlowfe=2) ladlow=1.
IF (sex=1 and ladlowhm=1 and ladlowfe=1) ladlow=2.
IF (sex=1 and ladlowhm=2 and ladlowfe=1) ladlow=3.
IF (sex=1 and ANY (-6, ladlowhm, ladlowfe)) ladlow=-6.
END IF.
VAR LAB ladlow '(D) Boys low haem/ferritin'.
VAL LAB ladlow 1 'low haem only' 2 'both haem/fer low' 3 'low fer only'.

COMPUTE laslow=-1.
DO IF age<16.
IF (sex=2 and laslowhm=1 and laslowfe=2) laslow=1.
IF (sex=2 and laslowhm=1 and laslowfe=1) laslow=2.
IF (sex=2 and laslowhm=2 and laslowfe=1) laslow=3.
IF (sex=1 and ANY (-6, laslowhm, laslowfe)) laslow=-6.
END IF.
VAR LAB laslow '(D) Girls low haem/ferritin'.
VAL LAB laslow 1 'low haem only' 2 'both haem/fer low' 3 'low fer only'.

```

#### FIBQUIN '(D) fibrinogen quintile'.

1. 'Bottom'
2. 'Second'
3. 'Middle'
4. 'Fourth'
5. 'Top'.

```
freq fibval.
COMPUTE fibquin=-1.
DO IF sex=1.
    RECODE fibval (0 thru 2.00=1) (2.01 thru 2.30=2) (2.31 thru 2.70=3) (2.71 thru
3.10=4)
    (3.11 thru hi=5) (else=copy) INTO fibquin.
    ELSE IF sex=2.
    RECODE fibval (0 thru 2.20=1) (2.21 thru 2.50=2) (2.51 thru 2.90=3) (2.91 thru
3.30=4)
    (3.31 thru hi=5) (else=copy) INTO fibquin.
END IF.
VAR LAB fibquin '(D) fibrinogen quintile'.
VAL LAB fibquin 1 'Bottom' 2 'Second' 3 'Middle' 4 'Fourth' 5 'Top'.
```

## CVD Conditions: Adults only

---

CVDDEF: (D) Had cardiovascular condition

IHDIS: (D) Had IHD (Angina or Heart Attack)

CVDIS (D) Had CVD (Angina, Heart Attack or Stroke)

- 1 Yes
- 2 No

*All three variables have the same value labels. Note that although these definitions appear at the beginning of this section, the syntax relies on variables which have been defined in later subsections of the CVD section.*

### SPSS Syntax

```
IF (ANY(2,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,strokef)) cvddef=2.
IF (ANY(1,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,strokef)) cvddef=1.
IF (ANY(-9,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,strokef)) cvddef=-9.
IF (ANY(-8,murmur1,diabete2,bp1,angidef,heartdef,iregdef,ohtdef,strokef)) cvddef=-8.
VARIABLE LABELS cvddef "(D) Had cardiovascular condition".
VALUE LABELS cvddef 1 "Yes" 2 "No".

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.
VARIABLE LABELS ihdis "(D) Had IHD (Angina or Heart Attack)".
VALUE LABELS ihdis 1 "Yes" 2 "No".

IF (ANY(2,angidef,heartdef,strokef)) cvdis=2.
IF (ANY(1,angidef,heartdef,strokef)) cvdis=1.
IF (ANY(-9,angidef,heartdef,strokef)) cvdis=-9.
IF (ANY(-8,angidef,heartdef,strokef)) cvdis=-8.
VARIABLE LABELS cvdis "(D) Had CVD (Angina, Heart Attack or Stroke)".
VALUE LABELS cvdis 1 "Yes" 2 "No".
```

## Angina

---

ROSEANMI: (D) Angina or MI (Rose Angina Qure)

- 1 Angina and MI
- 2 Neither angina nor MI
- 3 Angina, but not MI
- 4 MI, but not Angina

*Although this variable appears at the start of the Angina subsection, it uses variables created later in the section*

### SPSS Syntax

```
IF any(sympan1,1,2) & possmi=1 roseanmi=1.
IF sympan1=3 & possmi=2 roseanmi=2.
IF any(sympan1,1,2) & possmi=2 roseanmi=3.
IF sympan1=3 & possmi=1 roseanmi=4.
IF ANY(-9,sympan1,possmi) roseanmi=-9.
IF ANY(-8,sympan1,possmi) roseanmi=-8.
IF age<16 roseanmi=-1.
VARIABLE LABELS roseanmi "(D) Angina or MI (Rose Angina Qure)".
VALUE LABELS roseanmi
 1 "Angina and MI"
 2 "Neither angina nor MI"
 3 "Angina, but not MI"
 4 "MI, but not Angina".
```

**SYMPAN1: (D) Angina Symptoms (Rose Angina Qure)**

- 1 Grade 1 Angina
- 2 Grade 2 Angina
- 3 No angina

**UPHILL1: (D) Has chest pain when walking uphill/hurrying**

- 1 Yes
- 2 No
- 3 Never walks uphill/hurries

**LEVEL: (D) Has chest pain when walking at ordinary pace**

- 1 Yes
- 2 No
- 3 Never walks at ordinary pace on level

**SPSS Syntax**

```
RECODE uphillw (-9 thru -1=COPY) (1 thru 2=COPY) (4 thru 4=3) INTO uphill1.
RECODE occas1 (1 thru 2=COPY) (-9 thru -8=COPY) INTO uphill1.
VARIABLE LABEL uphill1 "(D) Has chest pain when walking uphill/hurrying".
VALUE LABELS uphill1
  1 "Yes"
  2 "No"
  3 "Never walks uphill/hurries".

RECODE levelw (-9 thru -1=COPY) (1 thru 2=COPY) (4 thru 4=3) INTO level.
RECODE occas2 (1 thru 2=COPY) (-9 thru -8=COPY) INTO level.
VARIABLE LABEL level "(D) Has chest pain when walking at ordinary pace".
VALUE LABELS level
  1 "Yes"
  2 "No"
  3 "Never walks at ordinary pace on level".

COMPUTE sympan1=3.
IF ((pansitc1=1 | pansitc2=1 | (pansitc3=1 & pansitc4=1))
  & uphillw=1) sympan1=1.
IF (sympan1=1 & level=1) sympan1=2.
IF (ANY(-9,chespain,walking,stopwalk,howsoon,pansitc1,uphillw,level))
  sympan1=-9.
IF (ANY(-8,chespain,walking,stopwalk,howsoon,pansitc1,uphillw,level))
  sympan1=-8.
IF age<16 sympan1=-1.
VARIABLE LABEL sympan1 "(D) Angina Symptoms (Rose Angina Qure)".
VALUE LABELS sympan1
  1 "Grade 1 Angina"
  2 "Grade 2 Angina"
  3 "No angina".
```

**POSSMI: (D) Possible Infarction (Rose Angina Qure)**

- 1 Yes
- 2 No

**SPSS Syntax**

```
recode everpain(1=1)(-1,2=2)(-9,-8=COPY) into possmi.
IF age<16 sympan1=-1.
variables labels possmi "(D) Possible Infarction (Rose Angina Qure)".
value labels possmi 1 "Yes" 2 "No".
```

**ANGIDEF: (D) Doctor diagnosed angina**

- 1 Yes
- 2 No

**SPSS Syntax**

```
RECODE docangi (-1=2)(else=copy) into angidef.
VARIABLE LABELS angidef "(D) Doctor diagnosed angina".
VALUE LABELS angidef 1 "Yes" 2 "No".
```

**CRPQUIN '(D) C-reactive protein quintile'**

- 1'Bottom'
- 2'Second'
- 3'Middle'

4'Fourth'  
5'Top'.

**SPSS Syntax**

```
COMPUTE crpquin=-1.  
DO IF sex=1.  
    RECODE crpval (0 thru 0.40=1) (0.41 thru 0.90=2) (0.91 thru 1.70=3) (1.71 thru  
3.50=4)  
    (3.51 thru hi=5) (else=copy) INTO crpquin.  
ELSE IF sex=2.  
    RECODE crpval (0 thru 0.50=1) (0.51 thru 1.1=2) (1.11 thru 2.20=3) (2.21 thru  
4.50=4)  
    (4.51 thru hi=5) (else=copy) INTO crpquin.  
END IF.  
VAR LAB crpquin '(D) C-reactive protein quintile'.  
VAL LAB crpquin 1 'Bottom' 2 'Second' 3 'Middle' 4 'Fourth' 5 'Top'.
```

CLAUDI '(D) With intermittent claudication'.

1 'Yes'  
2 'No'  
3 'Incomplete answer'  
4 'Not applicable-cannot walk'.

CLAUTYPE '(D) Type of intermittent claudication'.

1 'Definite claudication'  
2 'Atypical claudication'  
-1 'Not applicable'.

CLAUGRAD '(D) Claudication grade'.

1 'Grade 1'  
2 'Grade 2'  
3 'Never walks at ordinary pace on the level'.

INTCLAUD

1 'Grade 1'  
2 'Grade 2'  
3 'No'  
-1 'not applicable'  
-8 'incomplete answer'.

CURRBP '(D) Currently has high bp'.

1 'Yes'  
2 'No'.

NOBPCVD "(D) Had CVD excludes those with high BP".

1 "Yes"  
2 "No".

CVDEATH '(D) Known parent death from CVD'.

FAMCVD '(D) Known family CVD'.

1 'Yes'  
2 'No'.

**SPSS Syntax**

```
DO IF (legpain=1 & stansit=2 & walkup=1 & still=2 &  
    (ANY(wherep1,1,2) | ANY(wherep2,1,2) | ANY(wherep3,1,2))).  
COMPUTE claudi=1.  
ELSE IF (legpain=2 | stansit=1 | walkup=2 | still=1 |  
    wherep1=3 | wherep2=3 | wherep3=3).  
COMPUTE claudi=2.  
ELSE IF (stansit=-8 | walkup=-8 | walkup=3 | still=-8 | wherep1=-8).  
COMPUTE claudi=3.  
ELSE IF (legpain=3).  
COMPUTE claudi=4.  
ELSE.  
COMPUTE claudi=-1.  
END IF.
```

```

VAR LAB claudi '(D) With intermittent claudication'.
VAL LAB claudi 1 'Yes'
                2 'No'
                3 'Incomplete answer'
                4 'Not applicable-cannot walk'.

DO IF (claudi=1).
  DO IF (wherep1=1 | wherep2=1 | wherep3=1).
    COMPUTE clautype=1.
  ELSE IF ((wherep1=2 | wherep2=2 | wherep3=2) &
           (wherep1 ne 1) & (wherep2 ne 1) & (wherep3 ne 1)).
    COMPUTE clautype=2.
  ELSE.
    COMPUTE clautype=-100.
  END IF.
ELSE.
  COMPUTE clautype=-1.
END IF.

VAR LAB clautype '(D) Type of intermittent claudication'.
VAL LAB clautype 1 'Definite claudication'
                 2 'Atypical claudication'
                 -1 'Not applicable'.

COMPUTE claugrad=-1.
DO IF claudi=1.
  IF (levelord=2) claugrad=1.
  IF (levelord=1) claugrad=2.
  IF (levelord=3) claugrad=3.
END IF.

VAR LAB claugrad '(D) Claudication grade'.
VAL LAB claugrad 1 'Grade 1'
                 2 'Grade 2'
                 3 'Never walks at ordinary pace on the level'.

COMPUTE intclaud=-1.
IF (claugrad = 1) intclaud = 1 .
IF (claugrad = 2) intclaud = 2 .
IF (claudi=2) intclaud=3.
IF (claudi=3) intclaud=-8.
EXECUTE .

VAL LABELS intclaud
1 'Grade 1'
2 'Grade 2'
3 'No'
-1 ' not applicable'
-8 ' incomplete answer'.

freq intclaud.

*CURRENT BP.

compute currbp = -1.
do if (bpl eq 1 and (medcinbp eq 1 or stillbp eq 1)).
  compute currbp = 1.
else if ((bpl eq 1 and medcinbp eq 2 and stillbp eq 2) or bpl eq 2).
  compute currbp = 2.
else if (bpl eq 1 and (medcinbp eq -8 or stillbp eq -8)).
  compute currbp = -8.
else if (bpl eq -9 or medcinbp eq -9 or stillbp eq -9).
  compute currbp = -9.
end if.

VAR LAB currbp '(D) Currently has high bp'.
VAL LAB currbp 1 'Yes' 2 'No'.

COMPUTE nobpcvd=-1.
IF (ANY(2,murmur1,diabete2,angidef,heartdef,iregdef,ohdef,
        strodef)) nobpcvd=2.
IF (ANY(1,murmur1,diabete2,angidef,heartdef,iregdef,ohdef,
        strodef)) nobpcvd=1.
IF (ANY(-9,murmur1,diabete2,angidef,heartdef,iregdef,ohdef,
        strodef)) nobpcvd=-9.
IF (ANY(-8,murmur1,diabete2,angidef,heartdef,iregdef,ohdef,
        strodef)) nobpcvd=-8.
VARIABLE LABELS nobpcvd "(D) Had CVD excludes those with high BP".
VALUE LABELS nobpcvd 1 "Yes" 2 "No".

```

```

**** create variable famcvd 1= yes 2 =no****.
COMPUTE cvdeath=2.
IF ( (consmab ge 1 and consmab le 6) | (conspab ge 1 and conspab le 6)) cvdeath=1.
COMPUTE famcvd=2.
IF (cvdeath=1 and (agemab le 64 | agepab le 64)) famcvd=1.

VAR LAB cvdeath '(D) Known parent death from CVD'.
VAR LAB famcvd '(D) Known family CVD'.
VAL LAB famcvd 1 'Yes' 2 'No'.

```

## Blood Pressure

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

- 1 Yes
- 2 No

### SPSS Syntax

```

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

```

## CHD/Stroke

HEARTDEF: (D) Doctor diagnosed heart attack

STRODEF: (D) Doctor diagnosed stroke

- 1 Yes
- 2 No

*Both variables have the same value labels*

### SPSS Syntax

```

RECODE docheart (-1=2)(else=copy) into heartdef.
VARIABLE LABELS heartdef "(D) Doctor diagnosed heart attack".
VALUE LABELS heartdef 1 "Yes" 2 "No".

RECODE docstro (-1=2)(else=copy) into strodef.
VARIABLE LABELS strodef "(D) Doctor diagnosed stroke".
VALUE LABELS strodef 1 "Yes" 2 "No".

```

## Diabetes

DIABETE2 (D) Doctor diagnosed diabetes (excluding pregnant)

- 1 Yes
- 2 No

### SPSS Syntax

```

RECODE docinfol (-9 thru -2=COPY) (1=1) (2=2) (-1=2) INTO diabete2.
IF (sex=2 & nopregdi=2) diabete2=2.
IF (ANY(-9,docinfol,pregdi,nopregdi)) diabete2=-9.
IF (ANY(-8,docinfol,pregdi,nopregdi)) diabete2=-8.
VARIABLE LABEL diabete2 "(D) Doctor diagnosed diabetes (excluding pregnant)".
VALUE LABELS diabete2
  1 "Yes"
  2 "No".

```

## 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.  
VARIABLE LABEL murmur1 "(D) Doctor diagnosed heart murmur (excluding pregnant)".  
VALUE LABELS murmur1  
  1 "Yes"  
  2 "No".
```

## Other CVD

---

IREGDEF (D) Doctor diagnosed irregular heart rhythm

OHTDEF (D) Doctor diagnosed other heart condition

- 1 Yes
- 2 No

*Both variables have the same value labels*

### *SPSS Syntax*

```
RECODE docireg (-1=2)(else=copy) into iregdef.  
VARIABLE LABELS iregdef "(D) Doctor diagnosed irregular heart rhythm".  
VALUE LABELS iregdef 1 "Yes" 2 "No".  
  
RECODE docoht (-1=2)(else=copy) into ohtdef.  
VARIABLE LABELS ohtdef "(D) Doctor diagnosed other heart condition".  
VALUE LABELS ohtdef 1 "Yes" 2 "No".
```

# Drinking

## Adults 12 Months

---

DRATING: (D) Total Units of alcohol/week

### SPSS Syntax

```
COMPUTE drating=0.  
IF (nberwu>0) drating=drating+nberwu.  
IF (sberwu>0) drating=drating+sberwu.  
IF (spirwu>0) drating=drating+spirwu.  
IF (sherwu>0) drating=drating+sherwu.  
IF (winewu>0) drating=drating+winewu.  
IF (popswu>0) drating=drating+popswu.  
IF ANY(-9,sberwu,nberwu,spirwu,sherwu,winewu,popswu) drating=-9.  
IF ANY(-8,sberwu,nberwu,spirwu,sherwu,winewu,popswu) drating=-8.  
IF ANY(-6,sberwu,nberwu,spirwu,sherwu,winewu,popswu) drating=-6.  
IF ANY(-1,sberwu,nberwu,spirwu,sherwu,winewu,popswu) drating=-1.  
VARIABLE LABEL drating "(D) Total Units of alcohol/week".
```

ALCBASE: (D) Alcohol consumption rating units/week

- 1 Never drank
- 2 Ex-drinker
- 3 Trivial drinker
- 4 Non-zero, but under 1
- 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

ALCBASMT: (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

ALCBASWT: (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**

```
RECODE drating(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.
RECODE dnevr(1=1)(2=2) INTO alcbase.
IF ANY(-9,drating,dnnow,dnany,dnevr) alcbase=-9.
IF ANY(-8,drating,dnnow,dnany,dnevr) alcbase=-8.
IF ANY(-6,drating,dnnow,dnany,dnevr) alcbase=-6.
IF ANY(-1,drating,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 1"
  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".

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 alcbasmt .
END IF .
IF (sex=2) alcbasmt=-1 .
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 alcbaswt .
END IF .
IF (sex=1) alcbaswt=-1 .
VARIABLE LABELS alcbasmt "(D) Alcohol consumption: men" .
VARIABLE LABELS alcbaswt "(D) Alcohol consumption: women" .
VALUE LABELS alcbasmt
  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'.
VALUE LABELS alcbaswt
  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'.
```

**OVERLIM: (D) Drinking in relation to weekly limits**

- 0 Under and up to weekly limits
- 1 Over weekly limits: M21,F14

**SPSS Syntax**

```
RECODE drating (lo thru -1=COPY)(0 thru hi=0) INTO overlim.
IF sex=1 & drating>21 overlim=1.
IF sex=2 & drating>14 overlim=1.
VARIABLE LABELS overlim "(D) Drinking in relation to weekly limits".
VALUE LABELS overlim
  0 "Under and up to weekly limits"
  1 "Over weekly limits: M21,F14".
```

NBERWU: (D) Units of normal beer/week  
 SBERWU: (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 beginning with '#' are temporary variables and are not stored on the dataset. For beer and alcopops, if an informant has drunk more than one category of the same drink, then the weekly amount is taken as the maximum calculated units from all categories drunk, rather than the total of all different categories.*

*For example, if an informant drinks beer in pints and large cans, both on average once a week, and on an average day drinks 3 pints, and 2 cans. Then weekly units for beer in pints would be 6, and for large cans would be 4. The weekly amount of beer would be the maximum (6), rather than the sum (10).*

**SPSS Syntax**

```

RECODE nberf (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO #nber.
RECODE sberf (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO #sber.
RECODE spirf (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO #spir.
RECODE sherf (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO #sher.
RECODE winef (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO #wine.
RECODE popsf (1=7)(2=5.5)(3=3.5)(4=1.5)(5=0.375)(6=0.115)(7=0.029)(ELSE=0)
  INTO #pops.

** calculate weekly amounts of each drink.
COMPUTE nberwu=#nber*MAX(nberqhp,nberqsm,2*nberqlg,2*ncodeeq*nberqbt).
COMPUTE sberwu=#sber*1.5*MAX(sberqhp,sberqsm,2*sberqlg,2*scodeeq*sberqbt).
COMPUTE spirwu=#spir*spirqme.
COMPUTE sherwu=#sher*sherqgs.
COMPUTE winewu=#wine*wineqgs.
COMPUTE popswu=#pops*popsqsm.

** set missings for weekly amounts.
DO IF age<16.
DO REPEAT xmiss=nberwu sberwu spirwu sherwu winewu popswu.
COMPUTE xmiss=-1.
END REPEAT.
END IF.
DO IF dnnow<-8 | dnany<-8.
DO REPEAT xmiss=nberwu sberwu spirwu sherwu winewu popswu.
COMPUTE xmiss=-9.
END REPEAT.
END IF.
DO IF nberf=-6.
DO REPEAT xmiss=nberwu sberwu spirwu sherwu winewu popswu.
COMPUTE xmiss=-6.
END REPEAT.
END IF.
IF nberf=-9 & (nberqhp=-9 & nberqbt=-9) & nberqsm=-9 & nberqlg=-9
  nberwu=-9.
IF nberf=-8 & (nberqhp=-8 & nberqbt=-8) & nberqsm=-8 & nberqlg=-8
  nberwu=-8.
IF sberf=-9 & (sberqhp=-9 & sberqbt=-9) & sberqsm=-9 & sberqlg=-9
  sberwu=-9.
IF sberf=-8 & (sberqhp=-8 & sberqbt=-8) & sberqsm=-8 & sberqlg=-8
  sberwu=-8.
IF ANY(-9,spirf,spirqme) spirwu=-9.
IF ANY(-8,spirf,spirqme) spirwu=-8.
IF ANY(-9,sherf,sherqgs) sherwu=-9.
IF ANY(-8,sherf,sherqgs) sherwu=-8.
IF ANY(-9,winef,wineqgs) winewu=-9.
IF ANY(-8,winef,wineqgs) winewu=-8.
IF ANY(-9,popsf,popsqsm) popswu=-9.
IF ANY(-8,popsf,popsqsm) popswu=-8.

VARIABLE LABELS
  nberwu "(D) Units of normal beer/week"
  /sberwu "(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".
```

## DRNKFREQ: (D) Frequency of drinking alcohol

- 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 Less than once a year
- 9 Never drunk or ex-drinker

```
compute drnkfreq=drnkoft.  
if any(dnevr,1,2) drnkfreq=9.  
variable labels drnkfreq  
"Frequency of drinking alcohol".  
value labels drnkfreq  
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 "Less than once a year"  
9 "Never drunk or ex-drinker"
```

## Adults 7 Days

### D7UNIT: (D) Units drunk on heaviest day in last 7

#### SPSS Syntax

```
COMPUTE d7unit=0.  
IF (nberqhp7>0) d7unit=d7unit+nberqhp7.  
IF (nberqsm7>0) d7unit=d7unit+nberqsm7.  
IF (nberqlg7>0) d7unit=d7unit+nberqlg7*2.  
IF (nberqbt7>0) d7unit=d7unit+nberqbt7*17ncodeq.  
IF (sberqhp7>0) d7unit=1.5*d7unit+sberqhp7.  
IF (sberqsm7>0) d7unit=1.5*d7unit+sberqsm7.  
IF (sberqlg7>0) d7unit=1.5*d7unit+sberqlg7*2.  
IF (sberqbt7>0) d7unit=1.5*d7unit+sberqbt7*17scodeq.  
IF (spirqms7>0) d7unit=d7unit+spirqms7.  
IF (sherqgs7>0) d7unit=d7unit+sherqgs7.  
IF (wineqgs7>0) d7unit=d7unit+wineqgs7.  
IF (popsqsm7>0) d7unit=d7unit+popsqsm7.  
IF ANY(-9,nberqhp7,nberqsm7,nberqlg7,nberqbt7,  
sberqhp7,sberqsm7,sberqlg7,sberqbt7,  
spirqme7,sherqgs7,wineqgs7,popsqsm7) d7unit=-9.  
IF ANY(-8,nberqhp7,nberqsm7,nberqlg7,nberqbt7,  
sberqhp7,sberqsm7,sberqlg7,sberqbt7,  
spirqme7,sherqgs7,wineqgs7,popsqsm7) d7unit=-8.  
IF ANY(-6,nberqhp7,nberqsm7,nberqlg7,nberqbt7,  
sberqhp7,sberqsm7,sberqlg7,sberqbt7,  
spirqme7,sherqgs7,wineqgs7,popsqsm7) d7unit=-6.  
IF any(d7day,2,-1) d7unit=-1.  
VARIABLE LABEL d7unit "(D) Units drunk on heaviest day in last 7".
```

### D7GROUP (D): Units drunk on heaviest day in past week (grouped)

- 1 Under 2 units
- 2 2, under 3 units
- 3 3, under 4 units
- 4 4, under 5 units
- 5 5, under 6 units
- 6 6, under 8 units
- 7 8 or more units

```

compute d7group=d7unit.
if (d7unit>=0 and d7unit<2) d7group=1.
if (d7unit>=2 and d7unit<3) d7group=2.
if (d7unit>=3 and d7unit<4) d7group=3.
if (d7unit>=4 and d7unit<5) d7group=4.
if (d7unit>=5 and d7unit<6) d7group=5.
if (d7unit>=6 and d7unit<8) d7group=6.
if (d7unit>=8) d7group=7.
variable labels d7group
"Units drunk on heaviest day in past week".
value labels d7group
1 "Under 2 units"
2 "2, under 3 units"
3 "3, under 4 units"
4 "4, under 5 units"
5 "5, under 6 units"
6 "6, under 8 units"
7 "8 or more units".

```

## Adults Drinking Experiences

**CAGETOT: (D) CAGE: Number of drinking problems experienced**

### SPSS Syntax

```

COUNT cagetot= dxcut to dxunable (1).
IF (ANY(dxcut,-8,-6,-1)) cagetot=dxcut.
IF (ANY(-9,dxcut,dxguilt,dxcritic,dxshakes,dxnerves,dxunable)) cagetot=-9.
VARIABLE LABEL cagetot "(D) CAGE: Number of drinking problems experienced".

```

**PHYS: (D) CAGE: Number of physical dependency problems experienced**

### SPSS Syntax

```

COUNT phys = dxunable dxnerves dxshakes (1).
IF (ANY(dxunable,-8,-6,-2,-1)) phys=dxunable
IF (ANY(-9,dxunable,dxnerves,dxshakes)) phys=-9.
VARIABLE LABEL phys "(D) CAGE: Number of physical dependency problems experienced".

```

**PROBDRNK: (D) CAGE: Problem Drinker**

- 0 Current drinker, but not problem drinker
- 1 Problem drinker

### SPSS Syntax

```

RECODE cagetot (2 thru 6=1)(0 thru 2=0)(ELSE=COPY) INTO probdrnk.
VARIABLE LABEL probdrnk "(D) CAGE: Problem Drinker".
VALUE LABELS probdrnk
0 'Current drinker, but not problem drinker'
1 'Problem drinker'.

```

**DRUNKEN: (D) Drunkenness in last 3 months**

- 1 Been drunk once a week in last 3 months
- 2 Been drunk 4+ times in last 3 months
- 3 Been drunk 3 times in last 3 months
- 4 Been drunk twice in last 3 months
- 5 Been drunk once in last 3 months
- 6 Not been drunk in last 3 months
- 7 Drinks less than once every 2 months
- 8 Never drinks

### SPSS Syntax

```

IF (dxdrunkw<0) drunken=dxdrunkw.
IF (dxdrunkw=1) drunken=1.
RECODE dxtimes (4=2) (3=3) (2=4) (1=5) INTO drunken.
IF (dxdrunkm=2) drunken=6.
IF ANY(dnoft,7,8) drunken=7.
IF dnany=2 drunken=8.

```

```

IF ANY(-9,dnnow,dnany,dnoft,dxdrunkm,dxtimes) drunken=-9.
IF ANY(-8,dnnow,dnany,dnoft,dxdrunkm,dxtimes) drunken=-8.
VARIABLE LABEL drunken "(D) Drunkenness in last 3 months".
VALUE LABELS drunken
  1 'Been drunk once a week in last 3 months'
  2 'Been drunk 4+ times in last 3 months'
  3 'Been drunk 3 times in last 3 months'
  4 'Been drunk twice in last 3 months'
  5 'Been drunk once in last 3 months'
  6 'Not been drunk in last 3 months'
  7 'Drinks less than once every 2 months'
  8 'Never drinks'.

```

## Children 13-15

ABER2WB: (D) Drunk beer in last 7 days - inc. non-drinkers

ASPIRWB: (D) Drunk spirits in last 7 days - inc. non-drinkers

ASHERWB: (D) Drunk sherry in last 7 days - inc. non-drinkers

AWINEWB: (D) Drunk wine in last 7 days - inc. non-drinkers

APOPSWB: (D) Drunk alcopops in last 7 days - inc. non-drinkers

- 0 Not drunk alcohol in last 7 days
- 1 Has drunk drink in last 7 days
- 2 Not drunk drink in last 7 days
- 3 Never had an alcoholic drink

*All variables in this group have the same value labels.*

### SPSS Syntax

```

COMPUTE aber2wb=aber2w.
COMPUTE aspirwb=aspirw.
COMPUTE asherwb=asherw.
COMPUTE awinewb=awinew.
COMPUTE apopswb=apopsw.
DO REPEAT xxdk=aber2wb aspirwb asherwb awinewb apopswb.
IF RANGE(adrlast,4,7) xxdk=0.
IF adrprop=2 xxdk=3.
IF adrlast=-9 xxdk=-9.
IF adrlast=-8 xxdk=-8.
END REPEAT.
VARIABLE LABELS
  aber2wb "(D) Drunk beer in last 7 days - inc. non-drinkers"
  /aspirwb "(D) Drunk spirits in last 7 days - inc. non-drinkers"
  /asherwb "(D) Drunk sherry in last 7 days - inc. non-drinkers"
  /awinewb "(D) Drunk wine in last 7 days - inc. non-drinkers"
  /apopswb "(D) Drunk alcopops in last 7 days - inc. non-drinkers".
VALUE LABELS aber2wb aspirwb asherwb awinewb apopswb
  0 "not drunk alcohol in last 7 days"
  1 "Has drunk drink in last 7 days"
  2 "Not drunk drink in last 7 days"
  3 "Never had an alcoholic drink".

```

ALC1315: (D) Drunk alcohol in last 7 days - inc. non-drinkers

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

### SPSS Syntax

```

compute alc1315=-1.
if (adrlast=-8) alc1315=-8.
if (adrprop=2) alc1315=2.
if range(adrlast,4,7) alc1315=0.
if range(adrlast,1,3) alc1315=1.
variable labels alc1315
  "Drunk alcohol in last 7 days - inc. non-drinkers".
value labels alc1315
  0 "Has not drunk alcohol in last 7 days"
  1 "Has drunk alcohol in last 7 days"
  2 "Never drinks"

```

## ADRINKWQ: (D) Total units of alcohol in last 7 days

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

### SPSS Syntax

```
COMPUTE #ber2q = 0 .
RECODE aber2w (-2=-2)(-1,-9,2=-1)(-6=-6) INTO #ber2q.
IF (aber2w = 1 & aber2qhp > 0) #ber2q = #ber2q + aber2qhp .
IF (aber2w = 1 & aber2qlg > 0) #ber2q = #ber2q + (aber2qlg * 2) .
IF (aber2w = 1 & aber2qsm > 0) #ber2q = #ber2q + aber2qsm .
IF (#ber2q=0) #ber2q=-9.

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

** use scratch variables to store means for dk values.
COMPUTE #ber2q2 = #ber2q .
COMPUTE #popsq2 = #popsq .
COMPUTE #spirq = aspirqgs.
COMPUTE #sherq = asherqgs.
COMPUTE #wineq = awineqgs .

** replace missing data with mean for sex.
IF (ANY(#ber2q,-8,-9) & sex = 1) #ber2q2 = 5.21.
IF (ANY(#ber2q,-9,-8) & sex = 2) #ber2q2 = 2.71 .
IF (ANY(aspirqgs,-8,-9,0) & sex = 1) #spirq = 3.00.
IF (ANY(aspirqgs,-8,-9,0) & sex = 2) #spirq = 5.85.
IF (ANY(asherqgs,-9,-8,0) & sex = 1) #sherq = 1.75.
IF (ANY(asherqgs,-9,-8,0) & sex = 2) #sherq = 1.75.
IF (ANY(awineqgs,-9,-8,0) & sex = 1) #wineq = 2.27.
IF (ANY(awineqgs,-9,-8,0) & sex = 2) #wineq = 3.00.
IF (ANY(#popsq,-9,-8) & sex = 1) #popsq2 = 3.00.
IF (ANY(#popsq,-9,-8) & sex = 2) #popsq2 = 3.28.
COMPUTE adrinkwq = 0.
RECODE adrlast(-2=-2)(-9,-8=-1)(-6=-6) INTO adrinkwq.
RECODE adrprop (-1=-1) INTO adrinkwq.
IF (aber2w=-9 & aspirw=-9 & asherw=-9 & awinew=-9 & apopsw=-9)
    adrinkwq=-9.

IF (aber2w = 1 & #ber2q2 > 0) adrinkwq = adrinkwq + #ber2q2 .
IF (aspirw = 1 & #spirq > 0) adrinkwq = adrinkwq + #spirq .
IF (asherw = 1 & #sherq > 0) adrinkwq = adrinkwq + #sherq .
IF (awinew = 1 & #wineq > 0) adrinkwq = adrinkwq + #wineq .
IF (apopsw = 1 & #popsq2 > 0) adrinkwq = adrinkwq + #popsq2 .
VARIABLE LABEL adrinkwq "(D) Total units of alcohol in last 7 days".
```

## ADRNKGRP: (D) Units of alcohol in last 7 days – grouped

0	None
1	Non-zero, less than 1
2	1, less than 2
3	2, less than 4
4	4, less than 6
5	6, less than 10
6	10, less than 15
7	15 or over

### SPSS Syntax

```
compute adrnkgrp=-1.
if adrinkwq<=0 adrnkgrp=adrinkwq.
```

```
if (adrinkwq>0 and adrinkwq<1) adrnkgrp=1.
if (adrinkwq>=1 and adrinkwq<2) adrnkgrp=2.
if (adrinkwq>=2 and adrinkwq<4) adrnkgrp=3.
if (adrinkwq>=4 and adrinkwq<6) adrnkgrp=4.
if (adrinkwq>=6 and adrinkwq<10) adrnkgrp=5.
if (adrinkwq>=10 and adrinkwq<15) adrnkgrp=6.
if (adrinkwq>=15) adrnkgrp=7.
variable labels adrnkgrp
"Units of alcohol in last 7 days - grouped".
value labels adrnkgrp
0 "None"
1 "Non-zero, less than 1"
2 "1, less than 2"
3 "2, less than 4"
4 "4, less than 6"
5 "6, less than 10"
6 "10, less than 15"
7 "15 or over"
```

# General Health

## Acute Sickness

---

ACUTILL: (D) Acute sickness last two weeks

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

### SPSS Syntax

```
COMPUTE acutill = 0 .
IF (lastfort<0 | (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'.
```

## Contraceptives

---

PILLTYI: (D) Contraceptive used, reported by informant (grouped)

- 1 Mini-pill, injection or implant
- 2 Combined pill
- 3 Don't know contraceptive type
- 4 Contraceptives not used

PILLTYB: (D) Contraceptive used, derived from brand (grouped)

- 1 Mini-pill, injection or implant
- 2 Combined pill
- 3 Don't know contraceptive type
- 4 Contraceptives not used

*PILLTYPB overwrites the type of contraceptive reported by the informant at PILLTYI, when a valid BNF code has been obtained from the brand name of the contraceptive used, if known.*

### SPSS Syntax

```
RECODE pilltyp (1 thru 2=1)(4=1)(3=2)(-9 thru -8=3)(-6 thru -1=COPY) INTO pilltyi.
IF pilluse=2 pilltyi=4.
RECODE pilltyi (ELSE=COPY) INTO pilltyb.
IF pillbrd=70302 pilltyb=1.
IF ANY(pillbrd,70301,130601,130602) pilltyb=2.
VARIABLE LABEL pilltyi "(D) Contraceptive used, reported by informant (grouped)".
VARIABLE LABEL pilltyb "(D) Contraceptive used, derived from brand (grouped)".
VALUE LABELS pilltyi pilltyb
1 "Mini-pill, injection or implant"
2 "Combined pill"
3 "Don't know contraceptive type"
4 "Contraceptives not used".
```

## GHQ12

---

GHQ12SCR: (D) GHQ Score - 12 point scale

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

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

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

**SPSS Syntax**

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

## Longstanding Illness

---

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

*All variables in the COMPM series have the same value labels*

**SPSS Syntax**

```

DO REPEAT xcomp=compm1 compm2 compm3 compm4 compm5 compm6 compm7 compm8
  compm9 compm10 compm11 compm12 compm13 compm14 compm15 compm17 compm18.
COMPUTE xcomp=0.
IF (longill<0) xcomp=-9.
END REPEAT.
DO REPEAT xill=illsm1 illsm2 illsm3 illsm4 illsm5 illsm6.
IF (xill=1) compm1=1.
IF (RANGE(xill,2,3)) compm2=1.
IF (RANGE(xill,4,5)) compm3=1.
IF (RANGE(xill,6,8)) compm4=1.
IF (RANGE(xill,9,10)) compm5=1.
IF (RANGE(xill,11,14)) compm6=1.
IF (RANGE(xill,15,21)) compm7=1.
IF (RANGE(xill,22,25)) compm8=1.
IF (RANGE(xill,26,29)) compm9=1.
IF (RANGE(xill,30,33)) compm10=1.
IF (xill=39) compm11=1.
IF (RANGE(xill,34,36)) compm12=1.
IF (xill=37) compm13=1.
IF (xill=38) compm14=1.
IF (xill=40) compm15=1.
IF (longill = 1 & xill = 42) compm18 = 1 .
END REPEAT.
IF (longill = 2) compm17 = 1.
COMPUTE compm99 = 0 .
IF (longill = 1 & ANY(illsm1,41,42,-1,-8,-9)) compm99 = 1 .
IF (longill<0) compm99 = -9.
VARIABLE LABELS compm1 '(D) II Neoplasms & benign growths'
  /compm2 '(D) III Endocrine & metabolic'
  /compm3 '(D) V Mental disorders'
  /compm4 '(D) VI Nervous System'
  /compm5 '(D) VI Eye complaints'
  /compm6 '(D) VI Ear complaints'
  /compm7 '(D) VII Heart & circulatory system'
  /compm8 '(D) VIII Respiratory system'
  /compm9 '(D) IX Digestive system'
  /compm10 '(D) X Genito-urinary system'
  /compm11 '(D) XII Skin complaints'
  /compm12 '(D) XIII Musculoskeletal system'
  /compm13 '(D) I Infectious Disease'
  /compm14 '(D) IV Blood & related organs'
  /compm15 '(D) Other complaints'
  /compm17 '(D) No long-standing Illness'
  /compm18 '(D) No longer present'
  /compm99 '(D) Unclass/NLP/inadeq.describe' .
VALUE LABELS compm1 TO compm99
  0 'no condition present'
  1 'has condition'.
RECODE compm1 TO compm15 (SYSMIS=0).

```

**CONDCNT: (D) Number of grouped condition categories**

0 No LS illness

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

0 No LS illness

4 4 or more

**SPSS Syntax**

```

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

```

## LIMITILL: (D) Limiting longstanding illness

- 1 Limiting LI
- 2 Non limiting LI
- 3 No LI

### SPSS Syntax

```
RECODE longill (1=2) (2=3) (ELSE=COPY) INTO limitill.  
IF ANY(1,limitac1,limitac2,limitac3,limitac4, limitac5, limitac6 ) limitill=1.  
VARIABLE LABEL limitill '(D) Limiting longstanding illness'.  
VALUE LABELS limitill  
  1 'Limiting LI'  
  2 'Non limiting LI'  
  3 'No LI'.
```

## Dental health

---

### DECAYTRT: (D) Whether had treatment for decay

- 0 never had treatment for decay
- 1 had treatment for decay

### DECAYTR2: (D) Type of treatment for decay

- 0 No fillings/teeth out
- 1 Fillings- no teeth out
- 2 Teeth out-no fillings
- 3 Both fillings & teeth out
- 90 not asked

### SPSS Syntax

```
compute decaytrt=0.  
if any(1,treat1,treat2) decaytrt=1.  
if treat1=-1 decaytrt=-1.  
if treat1=-8 and treat2=-8 decaytrt=-8.  
if treat1=-90 and treat2=-90 decaytrt=-90.  
variable label decaytrt "(D) whether had treatment for decay".  
value labels decaytrt  
0"never had treatment for decay"  
1"had treatment for decay"  
  
**type of treatment for decay.  
comp decaytr2=0.  
if treat1=1 decaytr2=1.  
if treat2=1 decaytr2=2.  
if treat1=1 and treat2=1 decaytr2=3.  
if treat1=-1 decaytr2=-1.  
if treat1=-8 and treat2=-8 decaytr2=-8.  
if treat1=-90 and treat2=-90 decaytr2=-90.  
variable label decaytr2 "(D) type of treatment for decay".  
val lab decaytr2 0'No fillings/teeth out' 1'Fillings- no teeth out' 2'Teeth out-no  
fillings' 3'Both fillings & teeth out' -90"not asked".
```

## Prescribed Medicines: Drugs affecting blood analytes

---

DIUR: (D) Diuretics (Blood pressure)

BETA: (D) Beta blockers (Blood pressure/Fibrinogen)

ACEINH: (D) Ace inhibitors (Blood pressure)

CALCIUMB: (D) Calcium blockers (Blood pressure)

OBPDRUG: (D) Other drugs affecting BP

LIPID: (D) Lipid lowering (Cholesterol/Fibrinogen)

IRON: (D) Iron deficiency (Haemoglobin/Ferritin)

BPMEDC: (D) Whether taking drugs affecting blood pressure

BPMEDD: (D) Whether taking drugs prescribed for blood pressure

- 0 Not taking drug

## 1 Taking drug

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

### SPSS Syntax

```
DO REPEAT xxdrug=diur beta aceinh calciumb obpdrug lipid iron bpmedc bpmedd.
COMPUTE xxdrug=0.
RECODE medbi01(-9 thru -1=COPY) INTO xxdrug.
END REPEAT.
DO REPEAT xxcode=medbi01 to medbi18.
IF xxcode=0 diur=-9.
IF xxcode=0 beta =-9.
IF xxcode=0 aceinh =-9.
IF xxcode=0 calciumb =-9.
IF xxcode=0 iron =-9.
IF xxcode=0 lipid =-9.
IF xxcode=0 obpdrug =-9.
IF xxcode=0 bpmedc=-9.
IF xxcode=0 bpmedd=-9.
END REPEAT.
DO REPEAT xxcode=medbi01 to medbi18.
IF RANGE(xxcode,20201,20208) diur=1.
IF xxcode=20400 beta=1.
IF xxcode=20505 aceinh=1.
IF xxcode=20602 calciumb=1.
IF ANY(xxcode,20501,20502,20503,20504,20506) obpdrug=1.
IF xxcode=21200 lipid=1.
IF xxcode=90101 iron=1.
END REPEAT.
IF ANY(1,diur,beta,aceinh,calciumb,obpdrug) bpmedc=1.
COUNT #bpdrug=ytake012 ytake022 ytake032 ytake042 ytake052 ytake062 ytake072 ytake082
ytake092 (1).
IF ANY(1,diur,beta,aceinh,calciumb,obpdrug) & #bpdrug>0 bpmedd=1.
VARIABLE LABELS diur "(D) Diuretics (Blood pressure)".
VARIABLE LABELS beta "(D) Beta blockers (Blood pressure/Fibrinogen)".
VARIABLE LABELS aceinh "(D) Ace inhibitors (Blood pressure)".
VARIABLE LABELS calciumb "(D) Calcium blockers (Blood pressure)".
VARIABLE LABELS obpdrug "(D) Other drugs affecting BP" .
VARIABLE LABELS lipid "(D) Lipid lowering (Cholesterol/Fibrinogen)" .
VARIABLE LABELS iron "(D) Iron deficiency (Haemoglobin/Ferritin)" .
VARIABLE LABELS bpmedc "(D) Whether taking drugs affecting blood pressure".
VARIABLE LABELS bpmedd "(D) Whether taking drugs prescribed for blood pressure".
VALUE LABELS diur beta aceinh calciumb obpdrug lipid iron bpmedc bpmedd
0 'Not taking drug'
1 'Taking drug'.
```

### EPILDRUG: (D) Whether on anti-epileptic drugs

- 0 Not taking drug
- 1 Taking drug

### EPILEPSY: (D) Whether has epilepsy AND taking anti-epileptic drugs

- 0 no epilepsy
- 1 has epilepsy AND taking anti-epileptic drugs

### SPSS Syntax

```
COMPUTE epildrug=0.
RECODE medbi01(-9 thru -1=COPY) INTO epildrug.
DO REPEAT xxcode = medbi01 to medbi18.
IF xxcode=0 epildrug=-9.
END REPEAT.
DO REPEAT xxcode = medbi01 to medbi18.
IF ANY(xxcode,40801,40802, 40803) epildrug=1.
END REPEAT.
VARIABLE LABELS epildrug "(D) Whether on anti-epileptic drugs".
VALUE LABELS epildrug
0 "not taking drug"
1 "taking drug".

COMPUTE epilepsy=0.
RECODE epildrug (-9 thru -1=COPY) INTO epilepsy.
IF longill=1 & any(6, illsm1, illsm2, illsm3, illsm4, illsm5, illsm6) & epildrug=1
epilepsy=1.
VARIABLE LABEL epilepsy "(D) Whether has epilepsy AND taking anti-epileptic drugs".
VALUE LABELS epilepsy
0 "no epilepsy"
```

1 "has epilepsy AND taking anti-epileptic drugs".

## Prescribed Medicines: General

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

- 1 Yes
- 2 No

### SPSS Syntax

```
COMPUTE medcnj = medcnjd .
IF (sex = 2 & medcnjd = 1 & RANGE(medbi01,70301,70302)
  & medbi02<0 & medbi03<0 & medbi04<0 & medbi05<0 & medbi06<0 & medbi07<0 &
  medbi08<0 & medbi09<0 & medbi10<0 & medbi11<0 & medbi12<0 & medbi13<0 &
  medbi14<0 & medbi15<0 & medbi16<0 & medbi17<0 & medbi18<0 ) medcnj = 2 .
VARIABLE LABEL medcnj "(D) Whether taking medication - excluding "+
"contraceptives only" .
VALUE LABELS medcnj 1 'Yes'
                2 'No' .
```

MEDTYP1: (D) Cardio-vascular medicine taken ?

MEDTYP2: (D) Gastrointestinal medicine taken ?

MEDTYP3: (D) Respiratory medicine taken ?

MEDTYP4: (D) CNS medicine taken ?

MEDTYP5: (D) Medicine for infection taken ?

MEDTYP6: (D) Endocrine medicine taken ?

MEDTYP7: (D) Gynae/Urinary medicine taken ?

MEDTYP8: (D) Cytotoxic medicine taken ?

MEDTYP9: (D) Medicine for nutrition/blood taken ?

MEDTYP10: (D) Musculoskeletal medicine taken ?

MEDTYP11: (D) Eye/Ear etc medicine taken ?

MEDTYP12: (D) Medicine for skin taken ?

MEDTYP13: (D) Other medicine taken ?

- 0 No
- 1 Yes

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

### SPSS Syntax

```
VECTOR medtyp(13).
DO REPEAT xtyp = medtyp1 TO medtyp13.
COMPUTE xtyp=0.
RECODE medcnj (2=-1)(-9 thru -2=COPY) INTO xtyp.
END REPEAT.
DO REPEAT xmed= medbi01 TO medbi15.
IF (RANGE(xmed,20101,21300)) medtyp1 = 1.
IF (RANGE(xmed,10101,10904)) medtyp2 = 1.
IF (RANGE(xmed,30101,31000)) medtyp3 = 1.
IF (RANGE(xmed,40101,41000)) medtyp4 = 1.
IF (RANGE(xmed,50101,50508)) medtyp5 = 1.
IF (RANGE(xmed,60101,60703)) medtyp6 = 1.
IF (RANGE(xmed,70201,70202,70401,70500)) medtyp7 = 1.
IF (RANGE(xmed,80101,80304)) medtyp8 = 1.
IF (RANGE(xmed,90101,90802)) medtyp9 = 1.
IF (RANGE(xmed,100101,100302)) medtyp10 = 1.
IF (RANGE(xmed,110101,110802,120101,120304)) medtyp11 = 1.
IF (RANGE(xmed,130100,131400)) medtyp12 = 1.
IF (xmed=140400) medtyp13 = 1.
END REPEAT.
VARIABLE LABEL medtyp1 '(D) Cardio-vascular medicine taken ?' .
VARIABLE LABEL medtyp2 '(D) Gastrointestinal medicine taken ?' .
VARIABLE LABEL medtyp3 '(D) Respiratory medicine taken ?' .
VARIABLE LABEL medtyp4 '(D) CNS medicine taken ?' .
VARIABLE LABEL medtyp5 '(D) Medicine for infection taken ?' .
VARIABLE LABEL medtyp6 '(D) Endocrine medicine taken ?' .
VARIABLE LABEL medtyp7 '(D) Gynae/Urinary medicine taken ?' .
```

```
VARIABLE LABEL medtyp8 '(D) Cytotoxic medicine taken ?' .
VARIABLE LABEL medtyp9 '(D) Medicine for nutrition/blood taken ?' .
VARIABLE LABEL medtyp10 '(D) Musculoskeletal medicine taken ?' .
VARIABLE LABEL medtyp11 '(D) Eye/Ear etc medicine taken ?' .
VARIABLE LABEL medtyp12 '(D) Medicine for skin taken ?' .
VARIABLE LABEL medtyp13 '(D) Other medicine taken ?' .
VALUE LABELS medtyp1 TO medtyp13
  0 'No'
  1 'Yes'.
```

#### PILL1: (D) whether using contraceptive pill

- 1 Using pill
- 2 not using pill
- 89 specified brand not a contraceptive

#### PILL2: (D) whether or not menstruating

- 1 Menstruating
- 2 Not menstruating
- 8 Not known if menstruating

#### HRT1: (D) whether used HRT

- 1 Yes - now
- 2 Yes - in past
- 3 No

```
SPSS Syntax
recode pilltyb (1,2=1) (3,4=2) (else=copy) into pill1.
variable labels pill1 "(D) whether using contraceptive pill".
value labels pill1
  1"Using pill"
  2"not using pill"
  -89"specified brand not a contraceptive".

recode pill1 (1,2,-89=1)(else=copy) into pill2.
if period=2 pill2=2.
if period=-8 pill2=8.
variable label pill2 "(D) whether or not menstruating".
value labels pill2
  1'Menstruating'
  2'not menstruating'
  8'Not known if menstruating'.

recode hrtevr (1=1) (2=3)(else=copy) into hrt1.
if hrtnow=2 hrt1=2.
variable label hrt1 "(D) whether used HRT".
value labels hrt1
  1'Yes - now'
  2'Yes - in past'
  3'No'.
```

#### NUMED2: (D) Number of prescribed medicines taken

- 0 Doesn't take prescribed meds

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

- 0 Doesn't take prescribed meds
- 4 Four or more

```
SPSS Syntax
COMPUTE numed2 = -9 .
RECODE medcnj (-6 thru -2=COPY)(2=0) INTO numed.
DO IF (medcnj = 1) .
COUNT numed2 = medbi01 TO medbi16 (-9 10101 THRU HI) .
END IF .
RECODE numed2 (4 thru hi=4)(ELSE=COPY) INTO numed.
VARIABLE LABEL numed2 '(D) Number of prescribed medicines taken' .
VARIABLE LABEL numed '(D) Number of prescribed medicines taken (grouped 4+)' .
VALUE LABELS numed2 0 "Doesn't take prescribed meds".
VALUE LABELS numed 0 "Doesn't take prescribed meds"
  4 'Four or more'.
```

## Use of health services

---

NUMDOCG2: (D) number GP 2 weeks (grouped)

- 1 "once"
- 2 "twice"
- 3 "3 or more times".

NUMYEAR: (D) Number of GP consultations per year

BPMON: (D) blood pressure monitoring"

- 1 "during last 12 months"
- 2 "at least a year but less than 3 years ago"
- 3 "3 years or more ago"
- 4 "never".

### *SPSS Syntax*

```
RECODE numdoc (1=1) (2=2) (3 thru hi=3) (else=copy) INTO numdocg2.
VARIABLE LABEL numdocg2 "number GP 2 weeks (grouped)".
VALUE LABELS numdocg2
1 "once"
2 "twice"
3 "3 or more times".
```

```
COMPUTE numyear=0.
DO IF talkdoc=1.
COMPUTE numyear=numdoc*26.
END IF.
if (talkdoc<1) numyear=talkdoc.
VARIABLE LABELS numyear "(D) Number of GP consultations per year".
```

```
RECODE measlast (1=1) (2=2) (3,4=3) (else=copy) INTO bpmon.
if bpmeas=2 bpmon=4.
VARIABLE LABEL bpmon "(D) blood pressure monitoring".
VALUE LABELS bpmon
1 "during last 12 months"
2 "at least a year but less than 3 years ago"
3 "3 years or more ago"
4 "never".
```

## Self-Assessed Health

---

GENHEL2: (D) reported by informant (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 'vgood/good'
2 'fair'
3 'bad/vbad'.
```

# Adult Physical Activity

## Adults General

AD15TOT: (D) Adults: Occasions 15+min any activities

AD15TOT2: (D) Adults: Occasions 15+min any activities (grouped)

- 0 None
- 1 1-3 days
- 2 4-11 days
- 3 12-19 days
- 4 20 days or more

AD30TOT: (D) Adults: Occasions/4week 30+min any activities

AD30TOTG: (D) Adults: Occasions/4week 30+min any activities (grouped)

- 0 None
- 1 Less than 1
- 2 1 or 2 a week
- 3 3 or 4 a week
- 4 5 or more a week

*Although these variables are the first in the physical activity section, they use derived variables in the other adult physical activity sections*

### SPSS Syntax

```
COMPUTE ad15tot=0.
IF range(age,2,15) ad15tot=-1.
IF range(ad15spt,1,120) ad15tot=ad15tot+ad15spt.
IF range(ad15wlk,1,28) ad15tot=ad15tot+ad15wlk.
IF range(ad15man,1,28) ad15tot=ad15tot+ad15man.
IF range(ad15hwk,1,28) ad15tot=ad15tot+ad15hwk.
IF workactg=2 ad15tot=ad15tot+12.
IF any(-8,ad15spt,ad15wlk,ad15man,ad15hwk,workactg) ad15tot=-8.
RECODE ad15tot (1 THRU 3=1)(4 THRU 9=2)(10 THRU 17=3)(18 THRU HI=4)
  (ELSE=COPY) INTO ad15tot2.
VARIABLE LABEL ad15tot '(D) Adults: Occasions 15+min any activities'.
VARIABLE LABEL ad15tot2
  '(D) Adults: Occasions 15+min any activities (grouped)'.
VALUE LABELS ad15tot2
  0 'None'
  1 '1-3 times'
  2 '4-11 times'
  3 '12-19 times'
  4 '20 times or more'.

COMPUTE ad30tot=0.
IF range(age,2,15) ad30tot=-1.
IF range(ad30spt,1,150) ad30tot=ad30tot+ad30spt.
IF range(ad30wlk,1,28) ad30tot=ad30tot+ad30wlk.
IF range(ad30man,1,28) ad30tot=ad30tot+ad30man.
IF range(ad30hwk,1,28) ad30tot=ad30tot+ad30hwk.
IF workactg=2 ad30tot=ad30tot+12.
IF any(-8,ad30spt,ad30wlk,ad30man,ad30hwk,workactg) ad30tot=-8.
RECODE ad30tot (1 THRU 3=1)(4 THRU 9=2)(10 THRU 17=3)(18 THRU HI=4)
  (ELSE=COPY) INTO ad30totg.
VARIABLE LABEL ad30tot '(D) Adults: Occasions/4week 30+min any activities'.
VARIABLE LABEL ad30totg
  '(D) Adults: Occasions/4week 30+min any activities (grouped)'.
VALUE LABELS ad30totg
  0 'None'
  1 'Less than 1'
  2 '1 or 2 a week'
  3 '3 or 4 a week'
  4 '5 or more a week'.
```

HRSTOT: (D) Average hours doing all physical activities per week

HRSTOTG: (D) Average hours doing all physical activities per week (grouped)

- 0 No time
- 1 Less than 1 hour
- 2 1, less than 3 hours
- 3 3, less than 5 hours
- 4 5, less than 7 hours
- 5 7 hours or more

TOTANY: (D) All activities – any or none

- 0 none
- 1 any

ACTLEVEL: (D) Summary of maximum activity intensity level

- 1 Inactive
- 2 Light activity
- 3 Moderate activity
- 4 Vigorous activity

**SPSS Syntax**

```
compute hrstot=0.
compute hrstot=hrstot+hrshwk.
compute hrstot=hrstot+hrrsman.
compute hrstot=hrstot+hrrswlk.
compute hrstot=hrstot+hrrsspt.
IF (workactg=2 AND ftptime=1) hrstot=hrstot+10.
IF (workactg=2 AND (ftptime=2 OR ftptime=-8 OR ftptime=-9)) hrstot=hrstot+6.
IF any(-8,hrrshwk,hrrsman,hrrswlk,hrrsspt) hrstot=-8.
if any(-9,hrrshwk,hrrsman,hrrswlk,hrrsspt) hrstot=-9.
IF range (age,2,15) hrstot=-1.
recode hrstot (60 thru hi=60).
recode hrstot (0=0) (0.01 thru 0.99=1) (0.995 thru 2.99=2) (3 thru 4.99=3) (5 thru
6.99=4) (7 thru hi=5) (missing=copy) INTO hrstotg.
variable label hrstot 'Average hours doing all physical activities per week'.
variable label hrstotg 'Average hours doing all physical activities per week (grouped)'.
value labels hrstotg
 0 'No time'
 1 'Less than 1 hour'
 2 '1, less than 3 hours'
 3 '3, less than 5 hours'
 4 '5, less than 7 hours'
 5 '7 hours or more'.

Recode adl5tot2 (1 thru hi=1) (else=copy) INTO totany.
variable label totany '(D) All activities - any or none'.
value labels hwkany manany wlkany sptany totany
 0 'None'
 1 'Any'.

compute actlevel=0.
DO IF any(4,workact,sprtacty).
  compute actlevel=4.
ELSE IF any(3,workact, sprtacty, wlkacty, homeacty).
  compute actlevel=3.
ELSE IF any (2, workact, sprtacty, wlkacty, homeacty).
  compute actlevel=2.
ELSE IF any (1, workact, sprtacty, wlkacty, homeacty).
  compute actlevel=1.
END IF.
IF workact=-8 & sprtacty=-8 & wlkacty=-8 & homeacty=-8 actlevel=-8.
variable label actlevel 'Summary of maximum activity intensity level'.
value labels actlevel
 1 'Inactive'
 2 'Light activity'
 3 'Moderate activity'
 4 'Vigorous activity'.
```

NUM20: (D) Number of DAYS 20 mins+ moderate /vigorous last 4 wks

## VIG20SP: (D) Number of days vigorous sports last 4 weeks

## VIG20SPG: (D) Number of days vigorous sports last 4 weeks (grouped)

- 1 level 0 or 2
- 3 level 3 or higher

```
SPSS Syntax

compute num20=0.
IF range(hwtim,20,800) num20=num20+heavyday.
IF range(diytim,20,800) num20=num20+mandays.
IF range(walkpace,3,4) AND range(tottim,20,800) num20=num20+daywlk.
IF whtact01=1 AND range(swimocc,1,28) AND swimtim ge 20
    num20=num20+swimocc.
IF whtact02=1 AND range(cycleocc,1,28) AND cycletim ge 20
    num20=num20+cycleocc.
IF whtact03=1 AND range(weighocc,1,28) AND weightim ge 20
    num20=num20+weighocc.
IF whtact04=1 AND range(aeroocc,1,28) and aerotim ge 20
    num20=num20+aeroocc.
IF whtact05=1 AND range(danceocc,1,28) and danceeff=1 AND dancetim ge 20
    num20=num20+danceocc.
IF whtact06=1 AND range(runocc,1,28) AND runtim ge 20
    num20=num20+runocc.
IF whtact07=1 AND range(ftbllocc,1,28) AND ftbltim ge 20
    num20=num20+ftbllocc.
IF whtact08=1 and range(tennocc,1,28) and tenntim ge 20
    num20=num20+tennocc.
IF whtact09=1 and range(squasocc,1,28) and squastim ge 20
    num20=num20+squasocc.
IF whtact10=1 and range(exocc,1,28) and extim ge 20 and exeff=1
    num20=num20+exocc.
IF range(acta,2,3) and range(actaocc,1,28) and actatim ge 20 and actaeff=1
    num20=num20+actaocc.
IF range(actb,2,3) and range(actbocc,1,28) and actbtim ge 20 and actbeff=1
    num20=num20+actbocc.
IF range(actc,2,3) and range(actcocc,1,28) and actctim ge 20 and actceff=1
    num20=num20+actcocc.
IF range(actd,2,3) and range(actdocc,1,28) and actdtim ge 20 and actdeff=1
    num20=num20+actdocc.
IF range(acta,4,5) and range(actaocc,1,28) and actatim ge 20
    num20=num20+actaocc.
IF range(actb,4,5) and range(actbocc,1,28) and actbtim ge 20
    num20=num20+actbocc.
IF range(actc,4,5) and range(actcocc,1,28) and actctim ge 20
    num20=num20+actcocc.
IF range(actd,4,5) and range(actdocc,1,28) and actdtim ge 20
    num20=num20+actdocc.
IF any(-8,hwtim, heavyday, diytim, mandays, walkpace, tottim, daywlk, acta, actaocc,
    actatim, actaeff, actb, actbocc, actbtim, actbeff, actc, actcocc, actctim,
    actceff, actd,
    actdocc, actdtim, actdeff, swimocc, swimtim, cycleocc, cycletim, weighocc,
    weightim,
    aeroocc, aerotim, danceocc, danceeff, dancetim, runocc, runtim, ftbllocc,
    ftbltim,
    tennocc, tenntim, squasocc, squastim, exocc, extim, exeff) num20=-9.
if any (-9, hwtim, heavyday, diytim, mandays, walkpace, tottim, daywlk, acta, actaocc,
    actatim, actaeff, actb, actbocc, actbtim, actbeff, actc, actcocc, actctim,
    actceff, actd,
    actdocc, actdtim, actdeff, swimocc, swimtim, cycleocc, cycletim, weighocc,
    weightim,
    aeroocc, aerotim, danceocc, danceeff, dancetim, runocc, runtim, ftbllocc,
    ftbltim,
    tennocc, tenntim, squasocc, squastim, exocc, extim, exeff) num20=-8.
recode num20 (28 thru hi=28).
variable label num20 'Number of DAYS 20 mins+ mod/vig last 4 wks'.

compute vig20sp=0.
IF whtact01=1 AND range(swimocc,1,28) AND swimtim ge 20 AND swimeff=1
    vig20sp=vig20sp+swimocc.
IF whtact02=1 AND range(cycleocc,1,28) AND cycletim ge 20 and cycleeff=1
    vig20sp=vig20sp+cycleocc.
IF whtact03=1 AND range(weighocc,1,28) AND weightim ge 20 and weigheff=1
    vig20sp=vig20sp+weighocc.
IF whtact04=1 AND range(aeroocc,1,28) and aerotim ge 20 and aeroeff=1
    vig20sp=vig20sp+aeroocc.
IF whtact06=1 AND range(runocc,1,28) AND runtim ge 20
    vig20sp=vig20sp+runocc.
```

```

IF whtact07=1 AND range(ftbllocc,1,28) AND ftblltim ge 20 and ftblleff=1
  vig20sp=vig20sp+ftbllocc.
IF whtact08=1 and range(tennocc,1,28) and tenntim ge 20 and tenneff=1
  vig20sp=vig20sp+tennocc.
IF whtact09=1 and range(squasocc,1,28) and squastim ge 20
  vig20sp=vig20sp+squasocc.
IF any(acta,3,4) and range(actaocc,1,28) and actatim ge 20 and actaeff=1
  vig20sp=vig20sp+actaocc.
IF any(actb,3,4) and range(actbocc,1,28) and actbtim ge 20 and actbeff=1
  vig20sp=vig20sp+actbocc.
IF any(actc,3,4) and range(actcocc,1,28) and actctim ge 20 and actceff=1
  vig20sp=vig20sp+actcocc.
IF any(actd,3,4) and range(actdocc,1,28) and actdtim ge 20 and actdeff=1
  vig20sp=vig20sp+actdocc.
IF acta=5 and range(actaocc,1,28) and actatim ge 20
  vig20sp=vig20sp+actaocc.
IF actb=5 and range(actbocc,1,28) and actbtim ge 20
  vig20sp=vig20sp+actbocc.
IF actc=5 and range(actcocc,1,28) and actctim ge 20
  vig20sp=vig20sp+actcocc.
IF actd=5 and range(actdocc,1,28) and actdtim ge 20
  vig20sp=vig20sp+actdocc.
IF any(-8,acta, actaocc, actatim, actaeff, actb, actbocc, actbtim, actbeff, actc,
  actcocc, actctim, actceff, actd, actdocc, actdtim, actdeff, swimocc, swimtim,
  swimeff, cycleocc, cycletim, cycleeff, weighocc, weightim, weigheff,
  aeroocc, aerotim, aeroeff, runocc, runtim, ftbllocc, ftblltim, ftblleff,
  tennocc, tenntim, tenneff, squasocc, squastim) vig20sp=-9.
if any (-9, acta, actaocc, actatim, actaeff, actb, actbocc, actbtim, actbeff, actc,
  actcocc, actctim, actceff, actd, actdocc, actdtim, actdeff, swimocc, swimtim,
  swimeff, cycleocc, cycletim, cycleeff, weighocc, weightim, weigheff,
  aeroocc, aerotim, aeroeff, runocc, runtim, ftbllocc, ftblltim, ftblleff,
  tennocc, tenntim, tenneff, squasocc, squastim) vig20sp=-8.
recode vig20sp (28 thru hi=28).

recode vig20sp (1 thru 11=1) (12 thru hi=12) (else=copy) INTO vig20spg.
recode num20 (1 thru 4=1) (5 thru 11=5) (12 thru hi=12) (else=copy) INTO num20g.
recode qualact1 (0,1,2=1) (3,4,5=3) (else=copy) (missing=copy) INTO qualactg.
variable label qualactg 'Old frequency-intensity scale grouped'.
value labels qualactg
  1 'level 0 1 or 2'
  3 'level 3 or higher'.

```

## QUALACT1: (D) Summary frequency intensity scale

- 0 Not active
- 1 1-4 days mod+
- 2 5-11 days mod+
- 3 12+ days mod
- 4 12+ days mod/vig
- 5 12+ days vig

### SPSS Syntax

```

compute qualact1=-1.
DO IF workact=4 or range(vig20sp,12,28).
  compute qualact1=5.
ELSE IF range(vig20sp,1,11) AND (range(num20,12,28) OR workact=3).
  compute qualact1=4.
ELSE IF workact=3 OR range(num20,12,28).
  compute qualact1=3.
ELSE IF range(num20,5,11).
  compute qualact1=2.
ELSE IF range(num20,1,4).
  compute qualact1=1.
ELSE IF (num20=0).
  compute qualact1=0.
END IF.
IF any(-8, workact, num20, vig20sp) qualact1=-8.
variable label qualact1 'Old frequency intensity activity scale (20 mins)'.
value labels qualact1
  0 'Not active'
  1 '1-4 days mod+'
  2 '5-11 days mod+'
  3 '12+ days mod'
  4 '12+ days mod/vig'
  5 '12+ days vig'.

```

ADTOT30: (D) Total number of days active 30 mins +

ADTOT30C: (D) Number of days per week any activities 30 mins +

- 0 None
- 1 Less than 1
- 2 1 or 2 a week
- 3 3 or 4 a week
- 4 5 or more a week

ADT30ANY: (D) Number of days 30 mins + any/none

- 0 None
- 1 Any

ADT30GP: (D) New summary activity level'

- 1 Group 1 -low
- 2 Group 2 - medium
- 3 Group 3 - high

**SPSS Syntax**

```
COMPUTE adtot30=0.
IF range(adsp30,1,200) adtot30=adtot30+adsp30.
IF range(adwlk30,1,28) adtot30=adtot30+adwlk30.
IF range(adman30,1,28) adtot30=adtot30+adman30.
IF range(adhse30,1,28) adtot30=adtot30+adhse30.
IF workactg=2 AND ftptime=1 adtot30=adtot30+20.
IF workactg=2 AND ftptime ne 1 adtot30=adtot30+12.
recode adtot30 (28 thru hi=28).
IF any(-8,housewrk, hwrklist, heavyday, hwtim, garden, gardlist, manwork,
mandays, diytim,wlk5int, wlk15m, tottim, daywlk) adtot30=-9.
if any (-9, housewrk, hwrklist, heavyday, hwtim, garden, gardlist, manwork,
mandays, diytim,wlk5int, wlk15m, tottim, daywlk) adtot30=-8.
variable label adtot30 'Total number of days active 30 mins +'.
recode adtot30 (1 thru 3=1) (4 thru 11=2) (12 thru 19=3) (20 thru hi=4)
(else=copy) INTO adtot30c.
variable label adtot30c 'Number of days per week any activities 30 mins +'.
value labels adtot30c
0 'None'
1 'Less than 1'
2 '1 or 2 a week'
3 '3 or 4 a week'
4 '5 or more a week'.
recode adtot30c (1,2,3,4=1) (else=copy) INTO adt30any.
variable label adt30any 'No. of days 30 mins + any/none'.
value labels adt30any
0 'None'
1 'Any'.
recode adt30any (0,1=1) (2,3=2) (4=3) (else=copy) INTO adt30gp.
variable label adt30gp 'New summary activity level'.
value labels adt30gp
1 'Group 1 -low'
2 'Group 2 - medium'
3 'Group 3 - high'.
```

T59SUM: (D) Combined summary

- 1 3x20 vig AND 5x30 mod
- 2 3x20 vig only
- 3 5x30 mod only
- 4 Lower but active
- 5 Inactive

T59SUM2: (D) Combined summary

- 1 Reaching either guideline
- 4 Lower but active
- 5 Inactive

**SPSS Syntax**

```
compute t59sum=-1.
```

```

DO IF qualact1=5 AND adtot30c=4.
  compute t59sum=1.
ELSE IF qualact1=5 AND adtot30c ne 4.
  compute t59sum=2.
ELSE IF qualact1 ne 5 AND adtot30c=4.
  compute t59sum=3.
ELSE IF range(qualact1,1,4) OR range(adtot30c,1,3).
  compute t59sum=4.
ELSE IF qualact1=0 AND adtot30c=0.
  compute t59sum=5.
END IF.
IF qualact1=-8 OR adtot30c=-8 t59sum=-8.
variable label t59sum 'Combined summary'.
value labels t59sum
  1 '3x20 vig AND 5x30 mod'
  2 '3x20 vig only'
  3 '5x30 mod only'
  4 'Lower but active'
  5 'Inactive'.
recode t59sum (1,2,3=1) (else=copy) (missing=copy) INTO t59sum2.
value labels t59sum2
  1 'Reaching either guideline'
  4 'Lower but active'
  5 'Inactive'.

```

## Adults Housework

---

AD15HWK: (D) Adults: Days 15+min heavy housework

AD15HWK2: (D) Adults: Days 15+min heavy housework (grouped)

- 0 None
- 1 1-3 days
- 2 4-11 days
- 3 12-19 days
- 4 20 days or more

AD30HWK: (D) Adults: Days/4week 30+min heavy housework

AD30HWKG: (D) Adults: Days/4week 30+min heavy housework (grouped)

- 0 None
- 1 Less than 1
- 2 1 or 2 a week
- 3 3 or 4 a week
- 4 5 or more a week

HRSHWK: (D) Average hours spent doing housework per week

HRSHWKG: (D) Average hours spent doing housework per week (grouped)

- 0 No time
- 1 Less than 1 hour
- 2 1, less than 3 hours
- 3 3, less than 5 hours
- 4 5, less than 7 hours
- 5 7 hours or more

HWKANY: (D) Housework – any or none

- 0 none
- 1 any

ADHSE30: (D) Number of days heavy housework 30 mins +

**SPSS Syntax**

```
Compute ad15hwk=0.
IF any(-9,HrsHhw,Minhhw)|any(-8,HrsHhw,Minhhw) ad15hwk=-8.
IF range(age,2,15) ad15hwk=-1.
IF (range(heavyday,1,28) AND range(hwtim,15,720)) ad15hwk=heavyday.
recode ad15hwk (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad15hwk2.
variable label ad15hwk '(D) Adults: Days 15+min heavy housework'.
variable label ad15hwk2 '(D) Adults: Days 15+min heavy housework (grouped)'.
value labels ad15hwk2
  0 'none'
  1 '1-3 days'
  2 '4-11 days'
  3 '12 to 19 days'
  4 '20 days or more.'

Compute ad30hwk=0.
IF any(-9,HrsHhw,Minhhw)|any(-8,HrsHhw,Minhhw) ad30hwk=-8.
IF range(age,2,15) ad30hwk=-1.
IF (range(heavyday,1,28) AND range(hwtim,30,720)) ad30hwk=heavyday.
recode ad30hwk (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad30hwkg.
variable label ad30hwk '(D) Adults: Days/4week 30+min heavy housework'.
variable label ad30hwkg '(D) Adults: Days/4week 30+min heavy housework (grouped)'.
value labels ad30hwkg
  0 'None'
  1 'Less than 1'
  2 '1 or 2 a week'
  3 '3 or 4 a week'
  4 '5 or more a week'.

recode hwtim (0 thru 14=0).
compute hrshwk=0.
compute hrshwk=(hwtim*heavyday)/240.
IF (housewrk=2 OR hevyrk=2) hrshwk=0.
IF hwtim=0 hrshwk=0.
IF any(-9,housewrk, hwrklist, hevyrk, heavyday, hwtim) hrshwk=-9.
IF any(-8,housewrk, hwrklist, hevyrk, heavyday, hwtim) hrshwk=-8.
IF range (age,2,15) hrshwk=-1.
variable label hrshwk 'Average hours doing heavy housework per week'.
recode hrshwk (0=0) (0.01 thru 0.99=1) (1 thru 2.99=2) (3 thru 4.99=3) (5 thru 6.99=4)
  (7 thru hi=5) (else=copy) INTO hrshwkg.
variable label hrshwkg 'Average hours doing heavy housework per week (grouped)'.
value labels hrshwkg
  0 'No time'
  1 'Less than 1 hour'
  2 '1, less than 3 hours'
  3 '3, less than 5 hours'
  4 '5, less than 7 hours'
  5 '7 hours or more'.

Recode ad15hwk2 (1 thru hi=1) (else=copy) INTO hwkany.
variable label hwkany '(D) Housework - any or none'.

Compute adhse30=0.
IF Housewrk=2 Adhse30=adhse30+0.
IF Hwrklist=2 Adhse30=adhse30+0.
IF (range(heavyday,1,28) AND range(hwtim,30,800)) Adhse30=adhse30+Heavyday.
IF range(hwtim,0,29) adhse30=adhse30+0.
variable label adhse30 'Number of days heavy housework 30 mins +'.
```

## Adults Manual Work

---

AD15MAN: (D) Adults: Days 15+min heavy manual/DIY

AD15MAN2: (D) Adults: Days 15+min heavy manual/DIY(grouped)

- 0 None
- 1 1-3 days
- 2 4-11 days
- 3 12-19 days
- 4 20 days or more

AD30MAN: Adults: (D) Days/4week 30+min heavy manual/DIY

AD30MANG: (D) Adults: Days/4week 30+min heavy manual/DIY(grouped)

- 0 None
- 1 Less than 1
- 2 1 or 2 a week
- 3 3 or 4 a week
- 4 5 or more a week

HRSMAN: (D) Average hours doing heavy manual work per week

HRSMANG: (D) Average hours doing heavy manual work per week (grouped)

- 0 no time
- 1 Less than 1 hour
- 2 1, less than 3 hours
- 3 3, less than 5 hours
- 4 5, less than 7 hours
- 5 7 hours or more

MANANY: (D) Heavy manual – any or none

- 0 none
- 1 any

**SPSS Syntax**

```
Compute ad15man=0.
IF any(-9,HrsDIY,MinDIY)|any(-8,HrsDIY,MinDIY) ad15man=-8.
IF range(age,2,15) ad15man=-1.
IF (range(mandays,1,28) AND range(DIYTim,15,600)) ad15man=mandays.
recode ad15man (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad15man2.
variable label ad15man '(D) Adults: Days 15+min heavy manual/DIY'.
variable label ad15man2 '(D) Adults: Days 15+min heavy manual/DIY (grouped)'.
value labels ad15man2
  0 'None'
  1 '1-3 days'
  2 '4-11 days'
  3 '12-19 days'
  4 '20 days or more'.

Compute ad30man=0.
IF any(-9,HrsDIY,MinDIY)|any(-8,HrsDIY,MinDIY) ad30man=-8.
IF range(age,2,15) ad30man=-1.
IF (range(mandays,1,28) AND range(DIYTim,30,600)) ad30man=mandays.
recode ad30man (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad30mang.
variable label ad30man '(D) Adults: Days/4week 30+min heavy manual/DIY'.
variable label ad30mang '(D) Adults: Days/4week 30+min heavy manual/DIY (grouped)'.
value labels ad30mang
  0 'None'
  1 'Less than 1'
  2 '1 or 2 a week'
  3 '3 or 4 a week'
  4 '5 or more a week'.

recode diytim (0 thru 14=0).
compute hrsman=0.
compute hrsman=(diytim*mandays)/240.
IF (garden=2 OR manwork=2) hrsman=0.
IF diytim=0 hrsman=0.
IF any(-9, garden, gardlist, manwork, mandays, diytim) hrsman=-9.
IF any(-8, garden, gardlist, manwork, mandays, diytim) hrsman=-8.
IF range (age,2,15) hrsman=-1.
variable label hrsman 'Average hours doing heavy manual per week'.
recode hrsman (0=0) (0.01 thru 0.99=1) (1 thru 2.99=2) (3 thru 4.99=3) (5 thru 6.99=4)
  (7 thru hi=5) (else=copy) INTO hrsmang.
variable label hrsmang 'Average hours doing heavy manual per week (grouped)'.
value labels hrsmang 0 'No time'
  1 'Less than 1 hour'
  2 '1, less than 3 hours'
  3 '3, less than 5 hours'
  4 '5, less than 7 hours'
```

```
5 '7 hours or more'.
```

```
Recode ad15man2 (1 thru hi=1) (else=copy) INTO manany.  
variable label manany '(D) Heavy manual - any or none'.
```

## Adults Home Activity

---

### HOMEACTY: (D) Housework/gardening activity level

- 1 Inactive
- 2 Light (some non heavy gardening/no heavy housework)
- 3 Moderate (heavy hwrk and/or gardening)

#### **SPSS syntax**

```
compute homeacty=0.  
IF housewrk=2 & garden=2 homeacty=1.  
IF housewrk=2 & manwork ne 1 & gardlist ne 1 homeacty=1.  
IF hevyhwrk=2 & garden=2 homeacty=1.  
IF hevyhwrk=2 & manwork ne 1 & gardlist ne 1 homeacty=1.  
IF gardlist=1 & ((manwork ne 1) & (hevyhwrk ne 1)) homeacty=2.  
IF hevyhwrk=1 OR manwork=1 homeacty=3.  
IF any(-9,housewrk, hevyhwrk, garden, gardlist, manwork) homeacty=-9.  
IF any(-8,housewrk, hevyhwrk, garden, gardlist, manwork) homeacty=-8.  
IF hevyhwrk=1 homeacty=3.  
IF range(age,2,15) homeacty=-1.  
variable label homeacty 'Housework/gardening activity level'.  
value labels homeacty  
 1 'Inactive'  
 2 'Light (some non-heavy gardening no heavy hwrk)'  
 3 'Moderate (heavy hwrk and/or gardening)'.
```

## Adults Sport

---

### AD15SPT: (D) Adults: Occasions 15+min sport

### AD15SPTG: (D) Adults: Occasions 15+min sport (grouped)

- 0 None
- 1 1-3 times
- 2 4-11 times
- 3 12-19 times
- 4 20 times or more

### AD30SPT: (D) Adults: Occasions/4week 30+min sport

### AD30SPT2: (D) Adults: Occasions/4week 30+min sport (grouped)

- 0 None
- 1 Less than 1
- 2 1 or 2 a week
- 3 3 or 4 a week
- 4 5 or more a week

*Exercise and other sports are only added to the total number of occasions if the activity has made the informant out of breath or sweaty. In addition only other sports coded as moderate or vigorous activity are added to the total number of occasions.*

#### **SPSS Syntax**

```
* sports - number of days 15 minutes plus moderate plus.  
COMPUTE ad15spt=0.  
IF range(age,2,15) ad15spt=-1.  
IF (Whact01=1 AND range(swimocc,1,28) AND SwimTime ge 15)  
  ad15spt=ad15spt+swimocc.
```

```

IF (whtact02=1 AND range(cycleocc,1,28) AND cycletim ge 15)
  ad15spt=ad15spt+cycleocc.
IF (WhtAct03=1 AND range(weighocc,1,28) AND WeighTim ge 15)
  ad15spt=ad15spt+weighocc.
IF ( WhtAct04=1 AND range(aeroocc,1,28) AND AeroTim ge 15)
  ad15spt=ad15spt+aeroocc.
IF (WhtAct05=1 AND range(danceocc,1,28) AND danceeff=1 AND DanceTim ge 15)
  ad15spt=ad15spt+danceocc.
IF (WhtAct06=1 AND range(runocc,1,28) AND RunTim ge 15)
  ad15spt=ad15spt+runocc.
IF (WhtAct07=1 AND range(ftbllocc,1,28) AND FtBlTim ge 15)
  ad15spt=ad15spt+ftbllocc.
IF (WhtAct08=1 AND range(tennocc,1,28) AND TennTim ge 15)
  ad15spt=ad15spt+tenno.
IF (WhtAct09=1 AND range(squasocc,1,28) AND SquasTim ge 15)
  ad15spt=ad15spt+squasocc.
IF (WhtAct10=1 AND range(exocc,1,28) AND ExTim ge 15 AND Exeff=1)
  ad15spt=ad15spt+exocc.
IF (range(acta,2,3) AND range(actaocc,1,28) AND actatim ge 15 AND actaeff=1)
  ad15spt=ad15spt+actaocc.
IF (range(actb,2,3) AND range(actbocc,1,28) AND actbtim ge 15 AND actbeff=1)
  ad15spt=ad15spt+actbocc.
IF (range(actc,2,3) AND range(actcocc,1,28) AND actctim ge 15 AND actceff=1)
  ad15spt=ad15spt+actcocc.
IF (range(actd,2,3) AND range(actdocc,1,28) AND actdtim ge 15 AND actdeff=1)
  ad15spt=ad15spt+actdocc.

recode ad15spt (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad15sptg.
variable label ad15spt '(D) Adults: Occasions 15+min sport'.
variable label ad15sptg '(D) Adults: Occasions 15+min sport (grouped)'.
value labels ad15sptg
  0 'None'
  1 '1-3 times'
  2 '4-11 times'
  3 '12-19 times'
  4 '20 or more times'.

COMPUTE ad30spt=0.
IF range(age,2,15) ad30spt=-1.
IF (Whtact01=1 AND range(swimocc,1,28) AND SwimTim ge 30)
  ad30spt=ad30spt+swimocc.
IF (whtact02=1 AND range(cycleocc,1,28) AND cycletim ge 30)
  ad30spt=ad30spt+cycleocc.
IF (WhtAct03=1 AND range(weighocc,1,28) AND WeighTim ge 30)
  ad30spt=ad30spt+weighocc.
IF ( WhtAct04=1 AND range(aeroocc,1,28) AND AeroTim ge 30)
  ad30spt=ad30spt+aeroocc.
IF (WhtAct05=1 AND range(danceocc,1,28) AND danceeff=1 AND DanceTim ge 30)
  ad30spt=ad30spt+danceocc.
IF (WhtAct06=1 AND range(runocc,1,28) AND RunTim ge 30)
  ad30spt=ad30spt+runocc.
IF (WhtAct07=1 AND range(ftbllocc,1,28) AND FtBlTim ge 30)
  ad30spt=ad30spt+ftbllocc.
IF (WhtAct08=1 AND range(tennocc,1,28) AND TennTim ge 30)
  ad30spt=ad30spt+tenno.
IF (WhtAct09=1 AND range(squasocc,1,28) AND SquasTim ge 30)
  ad30spt=ad30spt+squasocc.
IF (WhtAct10=1 AND range(exocc,1,28) AND ExTim ge 30 AND Exeff=1)
  ad30spt=ad30spt+exocc.
IF (range(acta,2,3) AND range(actaocc,1,28) AND actatim ge 30 AND actaeff=1)
  ad30spt=ad30spt+actaocc.
IF (range(actb,2,3) AND range(actbocc,1,28) AND actbtim ge 30 AND actbeff=1)
  ad30spt=ad30spt+actbocc.
IF (range(actc,2,3) AND range(actcocc,1,28) AND actctim ge 30 AND actceff=1)
  ad30spt=ad30spt+actcocc.
IF (range(actd,2,3) AND range(actdocc,1,28) AND actdtim ge 30 AND actdeff=1)
  ad30spt=ad30spt+actdocc.

recode ad30spt (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad30sptg.
variable label ad30spt '(D) Adults: Occasions/4week 30+min sport'.
variable label ad30sptg '(D) Adults: Occasions/4week 30+min sport (grouped)'.
value labels ad30sptg
  0 'None'
  1 'Less than 1'
  2 '1 or 2 a week'
  3 '3 or 4 a week'
  4 '5 or more a week'.

```

HRSSPT: (D) Average hours doing sport per week

HRSSPTG: (D) Average hours doing sports per week (grouped)'.  
0 'No time'  
1 'Less than 1 hour'  
2 '1, less than 3 hours'  
3 '3, less than 5 hours'  
4 '5, less than 7 hours'  
5 '7 hours or more'.

SPTANY (D) Sports - any or none'.

SPRTACTY: (D) Sport activity level

- 1 'Inactive'
- 2 'Light activity'
- 3 'Moderate'
- 4 'Vigorous'.

```
compute hrsspt=0.
IF (WhtAct01=1 AND range(swimocc,1,28)) hrsspt=hrsspt + ((swimocc*swimtim)/240).
IF (WhtAct02=1 AND range(cycleocc,1,28)) hrsspt=hrsspt + ((cycleocc*cycletim)/240).
IF (WhtAct03=1 AND range(weighocc,1,28)) hrsspt=hrsspt + ((weighocc*weightim)/240).
IF (WhtAct04=1 AND range(aeroocc,1,28)) hrsspt=hrsspt + ((aeroocc*aerotim)/240).
IF (WhtAct05=1 AND range(danceocc,1,28) AND danceeff=1) hrsspt=hrsspt +
((danceocc*dancetim)/240).
IF (WhtAct06=1 AND range(runocc,1,28)) hrsspt=hrsspt + ((runocc*runtim)/240).
IF (WhtAct07=1 AND range(ftbllocc,1,28)) hrsspt=hrsspt + ((ftbllocc*ftblltim)/240).
IF (WhtAct08=1 AND range(tennocc,1,28)) hrsspt=hrsspt + ((tennocc*tenntim)/240).
IF (WhtAct09=1 AND range(squasocc,1,28)) hrsspt=hrsspt + ((squasocc*squastim)/240).
IF (WhtAct10=1 AND range(exocc,1,28) AND exeff=1) hrsspt=hrsspt + ((exocc*extim)/240).
IF (range(acta,2,3) AND range(actaocc,1,28) AND actaeff=1) hrsspt=hrsspt +
((actaocc*actatim)/240).
IF (range(actb,2,3) AND range(actbocc,1,28) AND actbeff=1) hrsspt=hrsspt +
((actbocc*actbtim)/240).
IF (range(actc,2,3) AND range(actcocc,1,28) AND actceff=1) hrsspt=hrsspt +
((actcocc*actctim)/240).
IF (range(actd,2,3) AND range(actdocc,1,28) AND actdeff=1) hrsspt=hrsspt +
((actdocc*actdtim)/240).
IF any(acta,4,5) AND range(actaocc,1,28) hrsspt=hrsspt + ((actaocc*actatim)/240).
IF any(actb,4,5) AND range(actbocc,1,28) hrsspt=hrsspt + ((actbocc*actbtim)/240).
IF any(actc,4,5) AND range(actcocc,1,28) hrsspt=hrsspt + ((actcocc*actctim)/240).
IF any(actd,4,5) AND range(actdocc,1,28) hrsspt=hrsspt + ((actdocc*actdtim)/240).
IF range (age,2,15) hrsspt=-1.
IF any(-9, swimocc, swimtim, cycleocc, cycletim, weighocc, weightim, aeroocc, aerotim,
danceocc, dancetim, danceeff, runocc, runtim, ftbllocc, ftblltim, tennocc,
tenntim,
squasocc, squastim, exocc, extim, exeff, actaocc, actatim, actaeff, actbocc,
actbtim,
actbeff, actcocc, actctim, actceff, actdtim, actdeff, actdocc) hrsspt=-9.
if any(-8, swimocc, swimtim, cycleocc, cycletim, weighocc, weightim, aeroocc, aerotim,
danceocc, dancetim, danceeff, runocc, runtim, ftbllocc, ftblltim, tennocc,
tenntim,
squasocc, squastim, exocc, extim, exeff, actaocc, actatim, actaeff, actbocc,
actbtim,
actbeff, actcocc, actctim, actceff, actdtim, actdeff, actdocc) hrsspt=-8.
recode hrsspt (40 thru hi=40).
recode hrsspt (0=0) (0.01 thru 0.99=1) (1 thru 2.99=2) (3 thru 4.99=3) (5 thru 6.99=4)
(7 thru hi=5) (else=copy) INTO hrssptg.
variable label hrsspt 'Average hours doing sport per week'.
variable label hrssptg 'Average hours doing sports per week (grouped)'.
value labels hrssptg
0 'No time'
1 'Less than 1 hour'
2 '1, less than 3 hours'
3 '3, less than 5 hours'
4 '5, less than 7 hours'
5 '7 hours or more'.

Recode adl5spt2 (1 thru hi=1) (else=copy) INTO sptany.
variable label sptany '(D) Sports - any or none'.

Compute sprtacty=1.
IF (WhtAct05=1 & danceeff ne 1) OR (WhtAct10=1 & exeff ne 1) OR
any(Acta,actb,actc,actd,1) sprtacty=2.
```

```

IF (WhAct01=1 & swimeff ne 1) OR (WhAct02=1 & cycleeff ne 1) OR
(WhAct03=1 & weigheff ne 1) OR (WhAct04=1 & aeroeff ne 1) OR
(WhAct05=1 & danceeff=1) OR (WhAct07=1 & ftblleff ne 1) OR
(WhAct08=1 & tenneff ne 1) OR (WhAct10=1 & exeff=1) OR
(ActA=3 & Actaeff ne 1) OR (ActB=3 & Actbeff ne 1) OR
(ActC=3 & actceff ne 1) OR (ActD=3 & Actdeff ne 1) OR
any(Acta,actb,actc,actd,2) sprtacty=3.
IF (WhAct01=1 & swimeff=1) OR (WhAct02=1 & cycleeff=1) OR
(WhAct03=1 & weigheff=1) OR (WhAct04=1 & aeroeff=1) OR
WhAct06=1 OR
(WhAct07=1 & ftblleff=1) OR (WhAct08=1 & tenneff=1) OR
WhAct09=1 OR
(any(acta,3,4) & Actaeff=1) OR (any(actb,3,4) & Actbeff=1) OR
(any(actc,3,4) & actceff=1) OR (any(actd,3,4) & Actdeff=1) OR
any(5,acta,actb,actc,actd)
sprtacty=4.
IF actphy=-8 OR actphy=-9 sprtacty=-8.
IF actphy=-1 sprtacty=-1.
variable label sprtacty 'Sport activity level'.
value labels sprtacty
  1 'Inactive'
  2 'Light activity'
  3 'Moderate'
  4 'Vigorous'.

```

### ACTA ACTB ACTC ACTD: (D) Other sports intensity

- 1 light type
- 2 moderate type
- 3 vigorous type
- 4 vigorous type (swim,cycle,weights,aerobic,football,tennis)
- 5 very vigorous type (running, squash)

#### SPSS Syntax

```

Recode Actax (11,12,15,18,21,23,27,28,29,30,31,32,34,37,39,47,48,
  53,57,58,60,61,63,65,66,67,68,72,73,74,75,77,78,79,81,84,89,90=1)
(13,16,17,19,20,24,25,26,33,35,36,38,41,42,43,44,45,46,
  50,51,54,55,56,59,62,64,69,71,76,80,83,85,87,91,98=2)
(14,22,40,49,52,70,82,86,88,92,93=3)
(5,10=2)(1,2,3,4,7,8=4)(6,9=5)
(ELSE=COPY) INTO acta.
Recode Actbx (11,12,15,18,21,23,27,28,29,30,31,32,34,37,39,47,48,
  53,57,58,60,61,63,65,66,67,68,72,73,74,75,77,78,79,81,84,89,90=1)
(13,16,17,19,20,24,25,26,33,35,36,38,41,42,43,44,45,46,
  50,51,54,55,56,59,62,64,69,71,76,80,83,85,87,91=2)
(14,22,40,49,52,70,82,86,88,92,93=3)
(5,10=2)(1,2,3,4,7,8=4)(6,9=5)
(ELSE=COPY) INTO actb.
Recode Actcx (11,12,15,18,21,23,27,28,29,30,31,32,34,37,39,47,48,
  53,57,58,60,61,63,65,66,67,68,72,73,74,75,77,78,79,81,84,89,90=1)
(13,16,17,19,20,24,25,26,33,35,36,38,41,42,43,44,45,46,
  50,51,54,55,56,59,62,64,69,71,76,80,83,85,87,91=2)
(14,22,40,49,52,70,82,86,88,92,93=3)
(5,10=2)(1,2,3,4,7,8=4)(6,9=5)
(ELSE=COPY) INTO actc.
Recode Actdx (11,12,15,18,21,23,27,28,29,30,31,32,34,37,39,47,48,
  53,57,58,60,61,63,65,66,67,68,72,73,74,75,77,78,79,81,84,89,90=1)
(13,16,17,19,20,24,25,26,33,35,36,38,41,42,43,44,45,46,
  50,51,54,55,56,59,62,64,69,71,76,80,83,85,87,91=2)
(14,22,40,49,52,70,82,86,88,92,93=3)
(5,10=2)(1,2,3,4,7,8=4)(6,9=5)
(ELSE=COPY) INTO actd.
variable label acta actb actc actd '(D) Other sports intensity'.
value labels acta actb actc actd
  1 'light type'
  2 'moderate type'
  3 'vigorous type'
  4 'vigorous type (swim,cycle,weights,aerobic,football,tennis)'
  5 'very vigorous type (running, squash)'.

```

# Adults Walking

---

AD15WLK: (D) Adults: Days 15+min brisk walk

AD15WLK2: (D) Adults: Days 15+min brisk walk (grouped)

- 0 None
- 1 1-3 days
- 2 4-11 days
- 3 12-19 days
- 4 20 days or more

AD30WLK: (D) Adults: Days/4week 30+min brisk walk

AD30WLKG: (D) Adults: Days/4week 30+min brisk walk (grouped)

- 0 None
- 1 Less than 1
- 2 1 or 2 a week
- 3 3 or 4 a week
- 4 5 or more a week

## SPSS Syntax

```
compute ad15wlk=0.
IF any(-9,Hrswlk,minwlk)|any(-8,Hrswlk,minwlk) ad15wlk=-8.
IF range(age,2,15) ad15wlk=-1.
IF range(walkpace,3,4) & range(tottim,15,745) & range(daywlk,1,28)
  ad15wlk=daywlk.
recode ad15wlk (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad15wlk2.
variable label ad15wlk '(D) Adults: Days 15+min brisk walk'.
variable label ad15wlk2 '(D) Adults: Days 15+min brisk walk (grouped)'.
value labels ad15wlk2
  0 'None'
  1 '1-3 days'
  2 '4-11 days'
  3 '12-19 days'
  4 '20 days or more'.

compute ad30wlk=0.
IF any(-9,Hrswlk,minwlk)|any(-8,Hrswlk,minwlk) ad30wlk=-8.
IF range(age,2,15) ad30wlk=-1.
IF range(walkpace,3,4) & range(tottim,30,745) & range(daywlk,1,28)
  ad30wlk=daywlk.
recode ad30wlk (1 thru 3=1) (4 thru 9=2) (10 thru 17=3) (18 thru hi=4)
  (else=copy) INTO ad30wlkg.
variable label ad30wlk '(D) Adults: Days/4week 30+min brisk walk'.
variable label ad30wlkg '(D) Adults: Days/4week 30+min brisk walk (grouped)'.
value labels ad30wlkg
  0 'None'
  1 'Less than 1'
  2 '1 or 2 a week'
  3 '3 or 4 a week'
  4 '5 or more a week'.
```

DAYS: (D) Number of days in last 4 weeks did only one walk of 15 mins+

WALKNO: (D) Number of walks of 15 mins+ in last 4 weeks

HRSWALK: (D) Average number of hours walking per week brisk or fast

HRSWALK: (D) Average number of hours walking per week brisk or fast (grouped)

- 0 no time
- 1 less than 1
- 2 1, less than 3
- 3 3, less than 5
- 4 5, less than 7
- 5 7 hours or more

**SPSS Syntax**

```

compute days = daywlk-day2wlk.
IF daywlk=-8 days=-8.
IF daywlk=-1 days=-1.
IF day1wlk=-8 days=-8.
IF day1wlk=-1 days=-1.
IF day2wlk=-8 days=-8.
IF day2wlk=-1 days=-1.

Compute WalkNo=0.
IF (Wlk5Int=2) OR (Wlk5Int=3) WalkNo=0.
IF Wlk15M=2 WalkNo=0.
IF (Day1Wlk=2) WalkNo=DayWlk.
IF (Day1Wlk=1 and DayWlk=1) Walkno=(Day1Wlk*2).
IF (Day1Wlk=1 and DayWlk>1) WalkNo=((day2wlk*2)+(days)).
IF any (-8, wlk5int, wlk15m, daywlk, day1wlk, day2wlk) walkno=-8.
IF any (-9, wlk5int, wlk15m, daywlk, day1wlk, day2wlk) walkno=-9.
IF range (age, 2, 15) walkno=-1.
IF walkpace=1 walkno=0.
Recode tottim (0 thru 14=0).
compute hrswlk=0.
compute hrswlk=(tottim*walkno)/240.
IF tottim=0 hrswlk=-8.
IF walkno=-8 hrswlk=-8.
IF walkno=-9 hrswlk=-8.
IF walkno=-1 hrswlk=-1.
variable label hrswlk 'Average hours walking per week brisk or fast'.

recode hrswlk (0=0) (0.01 thru 0.99=1) (1 thru 2.99=2) (3 thru 4.99=3) (5 thru 6.99=4)
(7 thru hi=5) (else=copy) INTO hrswlkg.
variable label hrswlkg 'Average hours walking per week brisk or fast (grouped)'.
value labels hrswlkg
  0 'No time'
  1 'Less than 1 hour'
  2 '1, less than 3 hours'
  3 '3, less than 5 hours'
  4 '5, less than 7 hours'
  5 '7 hours or more'.

```

**WLKANY: (D) Walking – any or none**

- 0 none
- 1 any

**WLKACTY: (D) Walking activity level**

- 1 Inactive
- 2 Light (15 mins + at slow/steady pace)
- 3 Moderate (15 mins+ at brisk/fast pace)

**SPSS Syntax**

```

Recode adl5wlk2 (1 thru hi=1) (else=copy) INTO wlkany.
variable label wlkany '(D) Walking - any or none'.

compute wlkacty=0.
IF wlk15M=1 & (walkpace=1 OR walkpace=2 OR walkpace=5) wlkacty=2.
IF wlk15M=1 & (walkpace=3 OR walkpace=4) wlkacty=3.
IF wlk15M=2 OR wlk5int=2 OR wlk5int=3 wlkacty=1.
IF wlk5int=-8 OR wlk5int=-9 OR wlk15m=-8 OR wlk15m=-9 wlkacty=-8.
IF wlk5int=-1 wlkacty=-1.
variable label wlkacty 'Walking activity level'.
value labels wlkacty
  1 'Inactive'
  2 'Light (15 mins + at slow/steady pace)'
  3 'Moderate (15 mins+ at brisk/fast pace)'.

```

## Adults Work

**WORKACT: (D) Job activity level**

- 1 Inactive
- 2 Light activity
- 3 Moderate activity
- 4 Vigorous activity

## WORKACTG: (D) Job activity level (grouped)

- 1 Not active or light
- 2 Active moderate plus

## WORKD: (D): Occupational activity – days in 4 weeks

## WORKC: (D): Occupational activity

- 0 none
- 1 any

### SPSS Syntax

```
compute workact=0.
if range(age,2,15) workact=-1.
if ANY(-8,work,active)|ANY(-9,work,active) workact=-8.
if (work=2 OR RANGE(Active,3,4)) workact=1.
if (Active=2 AND NOT((ANY(SOC,509, 530, 597,611,830,832,834,898,903,904,933)) OR
RANGE(SOC,501,505) OR RANGE(SOC,533,536) OR
RANGE(SOC,922,924) OR RANGE(SOC,929,931)))
workact=2.
if ((Active=2 AND ((ANY(SOC,509, 530, 597,611,830,832,834,898,903,904,933)) OR
RANGE(SOC,501,505) OR RANGE(SOC,533,536) OR
RANGE(SOC,922,924) OR RANGE(SOC,929,931))) OR
(Active=1 AND NOT (ANY(SOC,530,597,830,832,898,903,904,929))))
workact=3.
if (Active=1 AND ANY(SOC,530,597,830,832,898,903,904,929))
workact=4.
variable label workact '(D) Job activity level'.
value labels workact
  1 'Inactive'
  2 'light activity'
  3 'moderate active'
  4 'vigorous active'.
recode workact (1,2=1) (3,4=2) (else=copy) INTO workactg.
variable label workactg '(D) Job activity level (grouped)'.
value labels workactg
  1 'Not active or light'
  2 'Active moderate plus'.

compute workd=-2.
execute.
if workactg=2 and ftptime=1 workd=20.
if workactg=2 and (ftptime=2 OR ftptime=-8 OR ftptime=-9) workd=12.
if workactg=1 workd=0.
if workactg=-8 workd=-8.
recode workd (-2=-8).
variable label workd '(D) Occupational activity - days in 4 weeks'.
recode workd (12,20=1) (else=copy) (missing=copy) INTO workdc.
variable label workdc '(D) Occupational activity'.
value labels workdc
  0 'None'
  1 'Any'.
```

## COUNTWB: (D) Number of work activities

## WORKAC2B: (D) Activities involved in job

- 0 None of these
- 1 One of these
- 2 At least two of these

### SPSS Syntax

```
compute countwb=0.
if lftwrkgb=1 countwb=countwb+1.
if climbwrk=1 countwb=countwb+1.
if sitwork=3 countwb=countwb+1.
if lftwrkgb=-8 OR lftwrkgb=-9 OR climbwrk=-8 OR climbwrk=-9 OR
sitwork=-8 OR sitwork=-9 countwb=-8.
if lftwrkgb=-1 countwb=-1.
variable label countwb 'Number of work activities'.

compute workac2b=0.
recode countwb (2,3=2) (else=copy) INTO workac2b.
variable label workac2b 'Activities involved in job'.
```

```
value labels workac2b
0 'None of these'
1 'One of these'
2 'At least two of these'.
```

# Child Physical Activity

## Children General

CH00TOT: (D) Children: Days last week all activities - no time limits

CH00TIM: (D) Children: Time last week total activities - no lower limit

CH00MPD: (D) Children min/day all activities - no lower limit

CH00MPDG: '(D) Children min/day all activities - no lower limit (grouped)

- 0 No time
- 1 1-29 minutes
- 2 30-59 minutes
- 3 60 minutes or more

*Variables beginning with a '#' are SPSS scratch variables which are not saved onto the datafile. As frequency of activity is asked as a scaled question. Mid-points are used to estimate the total time spent.*

### SPSS Syntax

```
compute ch00tot = 0.
IF (range(dwlkchb,1,7)) ch00tot=dwlkchb.
IF (range(dhwkch,1,7)) ch00tot = ch00tot + dhwkch.
IF (range(dwespch,1,2)) ch00tot = ch00tot + 1.
IF dwespch = 3 ch00tot = ch00tot + 2.
IF (range(dayspch,1,5)) ch00tot = ch00tot+dayspch.
IF (range(dweactch,1,2)) ch00tot=ch00tot+1.
IF dweactch=3 ch00tot=ch00tot+2.
IF (range(wkactch,1,5)) ch00tot=ch00tot+wkactch.
IF ANY(-8,wlk5ch,dwlkchb,hwkch,dhwkch,spt1ch,dwespch,dayspch,
weactch,dweactch,wkactch) |
ANY(-9,wlk5ch,dwlkchb,hwkch,dhwkch,spt1ch,dwespch,dayspch,
weactch,dweactch,wkactch) ch00tot=-8.
IF age>=16 ch00tot=-1.
recode ch00tot(7 thru hi=7).
variable label ch00tot
'(D) Children: Days last week all activities - no time limits'.

RECODE lwesp (1=2.5) (2=10) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240)(ELSE=0) INTO #wesp.
RECODE lwksp (1=2.5) (2=10) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240)(ELSE=0) INTO #wksp.
RECODE lweact (1=2.5) (2=10) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240)(ELSE=0) INTO #weac.
RECODE lwkact (1=2.5) (2=10) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240)(ELSE=0) INTO #wkac.
compute ch00tim = 0.
IF (range(dwlkchb,1,7)) ch00tim=dwlkchb*15.
IF (range(dhwkch,1,7)) ch00tim=ch00tim + (dhwkch*15).
IF (range(dwespch,1,2)) & (range(#wesp,2.5,240))
ch00tim=ch00tim + #wesp.
IF (dwespch=3) & (range(#wesp,2.5,240))
ch00tim=ch00tim + ( #wesp).
IF (range(dayspch,1,5)) & (range(#wksp,2.5,240))
ch00tim=ch00tim + (dayspch* #wksp).
IF (range(dweactch,1,2)) & (range(#weac,2.5,240))
ch00tim=ch00tim + #weac.
IF (dweactch=3) & (range(#weac,2.5,240))
```

```

ch00tim=ch00tim + ( #weac).
IF (range(wkactch,1,5)) & (range(#wkac,2.5,240))
ch00tim=ch00tim + (wkactch* #wkac).
IF ANY(-8,wlk5ch,dwlkchb,hwkch,dhwkch,spt1ch,dwespch,dayspch,weactch,
dweactch,wkactch,lwesp,lwksp,lweact,lwkact) |
ANY(-9,wlk5ch,dwlkchb,hwkch,dhwkch,spt1ch,dwespch,dayspch,weactch,
dweactch,wkactch,lwesp,lwksp,lweact,lwkact) ch00tim=-8.
IF age>=16 ch00tim=-1.
variable label ch00tim
'(D) Children: Time last week total activities - no lower limit'.

IF (range(ch00tot,1,7)) ch00mpd = ch00tim/ch00tot.
IF ch00tim=0 ch00mpd=0.
IF age>=16 ch00mpd=-1.
IF ANY(-8,ch00tim,ch00tot) ch00mpd=-8.
recode ch00mpd (1 thru 29.99=1) (30 thru 59.99=2) (60 thru hi=3)
(else=copy) INTO ch00mpdg.
variable label ch00mpd '(D) Children min/day all activities - no lower limit'.
variable label ch00mpdg
'(D) Children min/day all activities - no lower limit (grouped)'.
value labels ch00mpdg
0 'No time'
1 '1-29 minutes'
2 '30 -59 minutes'
3 '60 minutes or more'.

```

CH15TOT: (D) Children: Days last week 15+min all activities

CH15TOTG: (D) Children: Days last week 15+min total activities (grouped)

- 0 None
- 1 1 or 2
- 2 3 or 4
- 3 5 or more

CH15TIM: (D) Children: Time last week 15+min total activities

CH15MPD: (D) Children min/day 15+min all activities

CH15MPDG: '(D) Children min/day 15+min all activities (grouped)

- 0 No time
- 1 1-29 minutes
- 2 30-59 minutes
- 3 60 minutes or more

*Variables beginning with a '#' are SPSS scratch variables which are not saved onto the datafile. As frequency of activity is asked as a scaled question. Mid-points are used to estimate the total time spent.*

```

SPSS Syntax

compute ch15tot=0.
IF (RANGE(ch15act,0,14)) ch15tot=ch15act.
IF (RANGE(ch15wlkb,0,7)) ch15tot=ch15tot + ch15wlkb.
IF (RANGE(ch15hwk,0,7)) ch15tot=ch15tot + ch15hwk.
IF ANY(-8,ch15act,ch15wlk,ch15hwk) ch15tot=-8.
IF age>=16 ch15tot=-1.
recode ch15tot(7 thru hi=7).
recode ch15tot (1,2=1) (3,4=3) (5 thru 7=5) (else=copy) into ch15totg.
variable label ch15tot
'(D) Children: Days last week 15+min total activities'.
variable label ch15totg
'(D) Children: Days last week 15+min total activities (grouped)'.
value labels ch15totg
0 'None'
1 '1 or 2'
3 '3 or 4'
5 '5 or more'.

* total time doing any activities - at least 15 mins.
RECODE lwesp (1,2=0) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240) (ELSE=0) INTO #wesp.
RECODE lwksp (1,2=0) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240) (ELSE=0) INTO #wksp.
RECODE lweact (1,2=0) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)
(9=195) (10=225) (11=240) (ELSE=0) INTO #weac.
RECODE lwkact (1,2=0) (3=22.5) (4=45) (5=75) (6=105) (7=135) (8=165)

```

```

(9=195) (10=225) (11=240) (ELSE=0) INTO #wkac.
compute ch15tim =0.
IF (range(dwlkchb,1,7)) ch15tim=dwlkchb*15.
IF (range(dhwkch,1,7)) ch15tim=ch15tim + (dhwkch*15).
IF (range(dwespch,1,2)) & (range(#wesp,22.5,240))
ch15tim=ch15tim + #wesp.
IF (dwespch=3) & (range(#wesp,45,240))
ch15tim=ch15tim + (#wesp).
IF (range(dayspch,1,5)) & (range(#wksp,22.5,240))
ch15tim=ch15tim + (dayspch* #wksp).
IF (range(dweactch,1,2)) & (range(#weac,22.5,240))
ch15tim=ch15tim + #weac.
IF (dweactch=3) & (range(#weac,45,240))
ch15tim=ch15tim + (#weac).
IF (range(wkactch,1,5)) & (range(#wkac,22.5,240))
ch15tim=ch15tim + (wkactch* #wkac).
IF ANY(-8,wlk5ch,dwlkchb,hwkch,dhwkch,spt1ch,dwespch,dayspch,weactch,
dweactch,wkactch,lwesp,lwksp,lweact,lwkact) |
ANY(-9,wlk5ch,dwlkchb,hwkch,dhwkch,spt1ch,dwespch,dayspch,weactch,
dweactch,wkactch,lwesp,lwksp,lweact,lwkact) ch15tim=-8.
IF age>=16 ch15tim=-1.
variable label ch15tim
'(D) Children: Time last week 15+min total activities'.

** time per day any activities 15 mins plus.
IF (range(ch15tot,1,7)) ch15mpd = ch15tim/ch15tot.
IF ch15tim=0 ch15mpd=0.
IF age>=16 ch15mpd=-1.
IF ANY(-8,ch15tim,ch15tot) ch15mpd=-8.
recode ch15mpd (1 thru 29.99=1) (30 thru 59.99=2) (60 thru 119.99=3)
(120 thru hi=4) (else=copy) INTO ch15mpdg.
variable label ch15mpd '(D) Children min/day all activities - 15+min'.
variable label ch15mpdg
'(D) Children min/day all activities - 15+min (grouped)'.
value labels ch15mpdg
0 'No time'
1 '1-29 minutes'
2 '30-59 minutes'
3 '60-119 minutes'
4 '120 minutes+'.

```

### CH15SUM: (D) Children: Summary classification 15+min activity levels

- 1 120+ mins 5+ days/wk
- 2 60-119 mins 5+ days/wk
- 3 30-59 mins 5+ days/wk
- 4 1-29 mins 5+ days/wk
- 5 30+ mins 1-4 days/wk
- 6 <30 mins <5 days/wk

### CH15SUMG: (D) Children: Summary classification 15+min activity levels (grouped)

- 1 Group 1: 60+min on at least 5 days
- 2 Group 2: 30-59 min on at least 5 days
- 3 Group 3: Lower level of activity

#### SPSS Syntax

```

IF ((RANGE(ch15tot,5,7)) & ch15mpdg=4) ch15sum=1.
IF ((RANGE(ch15tot,5,7)) & ch15mpdg=3) ch15sum=2.
IF ((RANGE(ch15tot,5,7)) & ch15mpdg=2) ch15sum=3.
IF ((RANGE(ch15tot,5,7)) & ch15mpdg=1) ch15sum=4.
IF ((RANGE(ch15tot,1,4)) & (RANGE(ch15mpdg,2,4))) ch15sum=5.
IF ((RANGE(ch15tot,0,4)) & (RANGE(ch15mpdg,0,1))) ch15sum=6.
IF age>=16 ch15sum=-1.
RECODE ch15sum (SYSMIS=-8).
variable label ch15sum
'(D) Children: Summary classification 15+min activity levels'.
value labels ch15sum 1 '120+mins 5+ days/wk'
2 '60-119 mins 5+ days/wk'
3 '30-59 mins 5+ days/wk'
4 '1-29 mins 5+ days/wk'
5 '30+ mins 1-4 days/wk'
6 '<30 mins <5 days'.
recode ch15sum (1,2=1) (3=2) (4,5,6=3) (else=copy) INTO ch15sumg.
variable label ch15sumg
'(D) Children: Summary classification 15+min activity levels (grouped)'.

```

```
value labels ch15sumg
 1 'Group 1:60+min on at least 5 days'
 2 'Group 2:30-59min on at least 5 days'
 3 'Group 3:Lower level of activity'.
```

## Children Housework

---

CH15HWK: (D) Children: Days last week 15+min housewk/gardening

CH15HWKG: (D) Children: Days last week 15+min housewk/gardening (grouped)

- 1 None
- 2 1 or 2
- 3 3 or 4
- 4 5 or more

### SPSS Syntax

```
compute ch15hwk=0.
IF AGE>=16 | hwkch=-1 ch15hwk=-1.
IF (RANGE(dhwkch,1,7)) ch15hwk=dhwkch.
IF ANY(-9,hwkch,dhwkch)|ANY(-8,hwkch,dhwkch) ch15hwk=-8.
recode ch15hwk (1,2=1) (3,4=3) (5,6,7=5) (else=copy) INTO ch15hwkg.
variable label ch15hwk '(D) Children: Days last week 15+min housewk/gardening'.
variable label ch15hwkg
 '(D) Children: Days last week 15+min housewk/gardening (grouped)'.
value labels ch15hwkg
 0 'None'
 1 '1 or 2'
 3 '3 or 4'
 5 '5 or more'.
```

## Children Sport/Exercise/Play

---

CH15SPT: (D) Children: Days last week 15+min sport

CH15SPTG: (D) Children: Days last week 15+min sport (grouped)

- 1 None
- 2 1 or 2
- 3 3 or 4
- 4 5 or more

CH30SPT: (D) Children: Days last week 30+min sport

CH30SPTG: (D) Children: Days last week 30+min sport (grouped)

- 1 None
- 2 1 or 2
- 3 3 or 4
- 4 5 or more

### SPSS Syntax

```
compute ch15spt=0.
IF AGE>=16 | spt1ch=-1 ch15spt=-1.
IF RANGE(lwesp,2,11) AND ANY(dwespch,1,2) ch15spt=1.
IF RANGE(lwesp,3,11) AND dwespch=3 ch15spt=2.
IF RANGE(lwksp,2,11) AND RANGE(dayspch,1,5) ch15spt=ch15spt + dayspch.
IF ANY(-8,spt1ch,lwesp,dwespch,lwksp,dayspch)
 |ANY(-9,spt1ch,lwesp,dwespch,lwksp,dayspch) ch15spt=-8.
recode ch15spt (1,2=1) (3,4=3) (5,6,7=5) (else=copy) INTO ch15sptg.
variable label ch15spt '(D) Children: Days last week 15+min sport'.
```

```

variable label ch15sptg
'(D) Children: Days last week 15+min sport (grouped)'.
value labels ch15sptg
0 'None'
1 '1 or 2'
3 '3 or 4'
5 '5 or more'.

compute ch30spt=0.
IF AGE>=16 | spt1ch=-1 ch30spt=-1.
IF RANGE(lwesp,4,11) AND ANY(dwespch,1,2) ch30spt=1.
IF RANGE(lwesp,5,11) AND dwespch=3 ch30spt=2.
IF RANGE(lwksp,4,11) AND RANGE(dayspch,1,5) ch30spt=ch30spt + dayspch.
IF ANY(-8,spt1ch,lwesp,dwespch,lwksp,dayspch)
  |ANY(-9,spt1ch,lwesp,dwespch,lwksp,dayspch) ch30spt=-8.
recode ch30spt (1,2=1) (3,4=3) (5,6,7=5) (else=copy) INTO ch30sptg.
variable label ch30spt '(D) Children: Days last week 30+min sport'.
variable label ch30sptg
'(D) Children: Days last week 30+min sport (grouped)'.
value labels ch30sptg
0 'None'
1 '1 or 2'
3 '3 or 4'
5 '5 or more'.

```

CH15PLY: (D) Children: Days last week 15+min active play

CH15PLYG: (D) Children: Days last week 15+min active play (grouped)

```

1 None
2 1 or 2
3 3 or 4
4 5 or more

```

CH30PLY: (D) Children: Days last week 30+min active play

CH30PLYG: (D) Children: Days last week 30+min active play (grouped)

```

1 None
2 1 or 2
3 3 or 4
4 5 or more

```

#### SPSS Syntax

```

compute ch15ply=0.
IF AGE>=16 | weactch=-1 ch15ply=-1.
IF RANGE(lweact,3,11) AND ANY(dweactch,1,2) ch15ply=1.
IF RANGE(lweact,4,11) AND dweactch=3 ch15ply=2.
IF RANGE(lwkact,3,11) AND RANGE(wkactch,1,5) ch15ply=ch15ply + wkactch.
IF ANY(-8,weactch,lweact,dweactch,wkactch,lwkact)
  |ANY(-9,weactch,lweact,dweactch,wkactch,lwkact) ch15ply=-8.
recode ch15ply (1,2=1) (3,4=3) (5,6,7=5) (else=copy) INTO ch15plyg.
variable label ch15ply '(D) Children: Days last week 15+min active play'.
variable label ch15plyg
'(D) Children: Days last week 15+min active play (grouped)'.
value labels ch15plyg
0 'None'
1 '1 or 2'
3 '3 or 4'
5 '5 or more'.

compute ch30ply=0.
IF AGE>=16 | weactch=-1 ch30ply=-1.
IF RANGE(lweact,4,11) AND ANY(dweactch,1,2) ch30ply=1.
IF RANGE(lweact,5,11) AND dweactch=3 ch30ply=2.
IF RANGE(lwkact,4,11) AND RANGE(wkactch,1,5) ch30ply=ch30ply + wkactch.
IF ANY(-8,weactch,lweact,dweactch,wkactch,lwkact)
  |ANY(-9,weactch,lweact,dweactch,wkactch,lwkact) ch30ply=-8.
recode ch30ply (1,2=1) (3,4=3) (5,6,7=5) (else=copy) INTO ch30plyg.
variable label ch30ply '(D) Children: Days last week 30+min active play'.
variable label ch30plyg
'(D) Children: Days last week 30+min active play (grouped)'.
value labels ch30plyg
0 'None'
1 '1 or 2'
3 '3 or 4'
5 '5 or more'.

```

CH15ACT: (D) Children: Days last week 15+min sport+active play

CH15ACTG: (D) Children: Days last week 15+min sport+active play (grouped)

- 1 None
- 2 1 or 2
- 3 3 or 4
- 4 5 or more

CH30ACT: (D) Children: Days last week 30+min sport+active play

CH30ACTG: (D) Children: Days last week 30+min sport+active play (grouped)

- 1 None
- 2 1 or 2
- 3 3 or 4
- 4 5 or more

**SPSS Syntax**

```
COMPUTE ch15act=0.
IF AGE>=16 | weactch=-1 ch30ply=-1.
IF (RANGE(ch15spt,0,7)) ch15act=ch15spt.
IF (RANGE(ch15ply,0,7)) ch15act=ch15act + ch15ply.
IF ANY(-8,ch15spt,ch15ply) ch15act=-8.
IF ANY(-1,ch15spt,ch15ply) ch15act=-1.
recode ch15act (1,2=1) (3,4=3) (5,6,7,8,9,10,11,12,13,14=5)
  (else=copy) into ch15actg.
variable label ch15act
  '(D) Children: Days last week 15+min sport+active play'.
variable label ch15actg
  '(D) Children: Days last week 15+min sport+active play (grouped)'.
value labels ch15actg
  0 'None'
  1 '1 or 2'
  3 '3 or 4'
  5 '5 or more'.

COMPUTE ch30act=0.
IF AGE>=16 | weactch=-1 ch30ply=-1.
IF (RANGE(ch30spt,0,7)) ch30act=ch30spt.
IF (RANGE(ch30ply,0,7)) ch30act=ch30act + ch30ply.
IF ANY(-8,ch30spt,ch30ply) ch30act=-8.
IF ANY(-1,ch30spt,ch30ply) ch30act=-1.
recode ch30act (1,2=1) (3,4=3) (5,6,7,8,9,10,11,12,13,14=5)
  (else=copy) into ch30actg.
variable label ch30act
  '(D) Children: Days last week 30+min sport+active play'.
variable label ch30actg
  '(D) Children: Days last week 30+min sport+active play (grouped)'.
value labels ch30actg
  0 'None'
  1 '1 or 2'
  3 '3 or 4'
  5 '5 or more'.
```

## Children Walking

CH15WLKB: (D) Children: Days last week 15+min brisk walk

CH15WLKG: (D) Children: Days last week 15+min brisk walk (grouped)

- 1 None
- 2 1 or 2
- 3 3 or 4
- 4 5 or more

**SPSS Syntax**

```
compute ch15wlkn=0.
IF AGE>=16 | wlk5ch=-1 ch15wlkb=-1.
IF (RANGE(daywlkt,3,11) AND RANGE(dwlkchb,1,7)) ch15wlkb=dwlkchb.
```

```
IF (RANGE(daywlkt,1,2) AND RANGE(dwlkchb,1,7)) ch15wlkb=0.
IF ANY(-9,wlk5ch,dwlkchb,daywlkt)|ANY(-8,wlk5ch,dwlkchb,daywlkt) ch15wlkb=-8.
recode ch15wlkb (1,2=1) (3,4=3) (5,6,7=5) (else=copy) INTO ch15wlkg.
variable label ch15wlkb '(D) Children: Days last week 15+min brisk walk'.
variable label ch15wlkg
  '(D) Children: Days last week 15+min brisk walk (grouped)'.
value labels ch15wlkg
  0 'None'
  1 '1 or 2'
  3 '3 or 4'
  5 '5 or more'.
```

# Respiratory

## MRC Respiratory Questionnaire

### PHLEGM: (D) Phlegm (MRC Respiratory Qure)

- 1 Morning Phlegm
- 2 Other Phlegm
- 3 No phlegm

#### *SPSS Syntax*

```
COMPUTE phlegm=3.
IF (flemdawn=1 & flemreg=1) phlegm=1.
IF (flemwint=1 & flemreg=1) phlegm=2.
IF (ANY(-9,flemdawn,flemreg,flemwint)) phlegm=-9.
IF (ANY(-8,flemdawn,flemreg,flemwint)) phlegm=-8.
VARIABLE LABEL phlegm "(D) Phlegm (MRC Respiratory Qure)".
VALUE LABELS phlegm
  1 "Morning Phlegm"
  2 "Other Phlegm"
  3 "No phlegm".
```

### BRETHS1: (D) Breathlessness (MRC Respiratory Qure)

- 1 Grade 1 Breathlessness
- 2 Grade 2 Breathlessness
- 3 No breathlessness
- 4 Can't walk

#### *SPSS Syntax*

```
COMPUTE brethsl=3.
IF (windhila=1) brethsl=1.
IF (ANY(1,windpeer,windpace)) brethsl=2.
IF (ANY(-9,windhila,windpeer,windpace)) brethsl=-9.
IF (ANY(-8,windhila,windpeer,windpace)) brethsl=-8.
IF (uphillw=5) brethsl=4.
VARIABLE LABEL brethsl "(D) Breathlessness (MRC Respiratory Qure)".
VALUE LABELS brethsl
  1 "Grade 1 Breathlessness"
  2 "Grade 2 Breathlessness"
  3 "No breathlessness"
  4 "Can't walk".
```

### WHEEZE1: (D) Wheezing (MRC Respiratory Qure)

- 1 Wheeze
- 2 None

#### *SPSS Syntax*

```
COMPUTE wheeze1=2.
IF (ANY(1,windwizz,windwake)) wheeze1=1.
IF (ANY(-9,windwizz,windwake)) wheeze1=-9.
IF (ANY(-8,windwizz,windwake)) wheeze1=-8.
VARIABLE LABEL wheeze1 "(D) Wheezing (MRC Respiratory Qure)".
VALUE LABELS wheeze1
  1 "Wheeze"
  2 "None".
```

# Lung Function

---

## LFOK: (D) Whether lung function is valid

- 1 'Valid lung function measurement'
- 2 'Invalid lung function measurement'
- 3 'Pregnant'
- 4 'Other ineligible'
- 5 'Refused, not attempted'.

### SPSS Syntax

```
COMPUTE lfok = -1 .
IF ANY(1,tsat1,tsat2,tsat3,tsat4,tsat5) lfok=1.
IF ANY(resplf,1,2) & ~ANY(1,tsat1,tsat2,tsat3,tsat4,tsat5) lfok=2.
IF (pregntj = 1 & sex=2) lfok = 3 .
IF ANY(hasurg,1,-9) | ANY(hastro,1,-9) lfok=4.
RECODE resplf(3,4=5)(-6,-2=COPY) INTO lfok.
IF (resplf = -1 & age < 7) lfok = -1 .
VARIABLE LABEL lfok "(D) Whether lung function is valid" .
VALUE LABELS lfok 1 'Valid lung function measurement'
                  2 'Invalid lung function measurement'
                  3 'Pregnant'
                  4 'Other ineligible'
                  5 'Refused, not attempted'.
```

## MAXFVC: "(D) Edited highest satisfactory FVC"

## MAXFEV: "(D) Edited highest satisfactory FEV"

## MAXPF: "(D) Edited highest satisfactory PF"

### SPSS Syntax

```
DO IF (lfok ~= 1) .
DO REPEAT xmax = maxfvc maxfev maxpf.
RECODE lfok (2=-8) (3=-1) (4=-1) (-1=-1) (5=-7) (-6=-6) (-2=-2) INTO xmax.
END REPEAT.
END IF .
DO IF (lfok = 1) .
COMPUTE maxfvc=0.
COMPUTE maxfev=0.
COMPUTE maxpf=0.
DO IF (tsat1 = 1).
IF (fvc1 > maxfvc) maxfvc = fvc1.
IF (fev1 > maxfev) maxfev = fev1.
IF (pf1 > maxpf) maxpf = pf1.
END IF.
DO IF (tsat2 = 1).
IF (fvc2 > maxfvc) maxfvc = fvc2.
IF (fev2 > maxfev) maxfev = fev2.
IF (pf2 > maxpf) maxpf = pf2.
END IF.
DO IF (tsat3 = 1).
IF (fvc3 > maxfvc) maxfvc = fvc3.
IF (fev3 > maxfev) maxfev = fev3.
IF (pf3 > maxpf) maxpf = pf3.
END IF.
DO IF (tsat4 = 1).
IF (fvc4 > maxfvc) maxfvc = fvc4.
IF (fev4 > maxfev) maxfev = fev4.
IF (pf4 > maxpf) maxpf = pf4.
END IF.
DO IF (tsat5 = 1).
IF (fvc5 > maxfvc) maxfvc = fvc5.
IF (fev5 > maxfev) maxfev = fev5.
IF (pf5 > maxpf) maxpf = pf5.
END IF.
END IF .
VARIABLE LABELS maxfvc "(D) Edited highest satisfactory FVC"
                  /maxfev "(D) Edited highest satisfactory FEV"
                  /maxpf "(D) Edited highest satisfactory PF" .
```

NOCOL2: (D) Wheezed without cold.  
BRWHY2: (D) Breathless when wheezing  
TWEWZ2: (D) Wheezed in last 12 months

1 Yes  
2 No

**SPSS Syntax**

```
COMPUTE nocol2=nocol.  
COMPUTE brwhy2=brwhy.  
COMPUTE twewz2=twewz2.  
DO REPEAT xxresp=nocol2 brwhy2 twewz2.  
RECODE everw(-9,-8,2=COPY) INTO xxresp.  
END REPEAT.  
VARIABLE LABELS  
  nocol2 "(D) Wheezed without cold"  
  /brwhy2 "(D) Breathless when wheezing"  
  /twewz2 "(D) Wheezed in last 12 months".  
VALUE LABELS nocol2 brwhy2 twewz2  
  1 "Yes"  
  2 "No".
```

# Smoking

## Adult Current Smokers

---

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

*Non-smokers are set to zero.*

### **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 ANY(-6,cigwday,cigwend) cigdyal=-6.
IF age<16 cigdyal=-1.
RECODE cignow(-9,-8=COPY) (2=0) INTO cigdyal.
RECODE smkevr(-9,-8=COPY) (2=0) INTO cigdyal.
VARIABLE LABELS cigdyal "(D) Number of cigarettes smoke a day - inc. non-smokers".
```

## Adults General

---

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

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

### **SPSS Syntax**

```
IF any(2,smkevr,cigevr) cigst1=1.
RECODE cigreg (3=1)(2=2)(1=3)(-6=-6) INTO cigst1.
IF cignow=1 cigst1=4.
IF age<16 cigst1=-1.
IF ANY(-9,smkevr,cignow,cigevr,cigreg) cigst1=-9.
IF ANY(-8,smkevr,cignow,cigevr,cigreg) cigst1=-8.
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".
```

## 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 cigdya1 (-9=4)(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 snkevr (-9=-9)(-8=-8)(2=5) INTO cigst2.
IF age<16 cigst1=-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".
```

## FAGSTA: (D) Smoking status (non/ex/<20/20+).

- 1 'non smoker'
- 2 'ex-smoker'
- 3 'less than 20 a day'
- 4 '20 or more a day'
- 8 'don't know number smoked'
- 9 'no answer'.

### SPSS Syntax

```
**** smoking variable as used in HSE****.
IF (cigst1=1) fagsta = 1 .
IF (cigst1=2 | cigst1=3) fagsta =2.
IF (cigst2=1 or cigst2 =2) fagsta =3.
IF (cigst2=3) fagsta =4.
IF (cigst2= -8) fagsta = -8.
IF (cigst2= -9) fagsta = -9.
IF (cigst2=-1) fagsta=-1.
EXECUTE .

VAR LABEL fagsta "(D) Smoking status (non/ex/<20/20+)".
VAL LABEL fagsta
  1 'non smoker'
  2 'ex-smoker'
  3 'less than 20 a day'
  4 '20 or more a day'
  -8 'don't know number smoked'
  -9 'no answer'.
```

## Children 8-15

---

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

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

### SPSS Syntax

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

# Cotinine

---

## NICUSEB: (D) Used nicotine products in last 7 days

- 1 Uses nicotine products
- 2 Doesn't use nicotine products

### *SPSS Syntax*

```
COMPUTE nicuseb=2.  
RECODE usegum (lo thru -1=COPY) INTO nicuse2.  
IF ANY(1,usegum,usepat,usenab) nicuseb=1.  
IF ANY(-9,usegum,usepat,usenab) nicuseb=-9.  
VARIABLE LABEL nicuseb "(D) Used nicotine products in last 7 days".  
VALUE LABELS nicuseb  
  1 "Uses nicotine products"  
  2 "Doesn't use nicotine products".
```

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

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

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

**SPSS Syntax**

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

## Accidents

MACC: (D) Annual major accident rate per 100 persons

WORKACC: (D) Major Accident rate for work

PLAYACC: (D) Major Accident rate for non-work accidents

**SPSS Syntax**

```
**PLAYACC.  
COMPUTE macc = 0.  
IF RANGE(ndracc,1,6) macc = ndracc*100.  
IF (ndracc > 6) macc = 600.  
IF ANY(-1, ndracc) macc=-1.  
IF ANY(-8, ndracc) macc=-8.  
IF ANY(-9, ndracc) macc=-9.  
VARIABLE LABEL macc "(D) Annual major accident rate per 100 persons".  
  
**WORKACC .  
COMPUTE workacc=0.  
DO IF drjob=1 & drwrk=1.  
IF RANGE(ndracc,1, 6) workacc=ndracc*100.  
IF (ndracc>6) workacc=600.  
END IF.  
IF age<13 workacc=-1.  
IF ndracc=-1 | drjob=-1 workacc=-1.  
IF ANY(-8, ndracc) workacc=-8.  
IF ANY(-9, ndracc) workacc=-9.  
VARIABLE LABEL workacc "(D) Accident rate for work".  
  
**PLAYACC.  
COMPUTE playacc=0.  
DO IF drjob=2 | (drjob=1 & drwrk=2).  
IF RANGE(ndracc,1,6) playacc=ndracc*100.  
IF (ndracc>6) playacc=600.  
END IF.  
IF age<13 playacc=-1.  
IF ANY(-1, ndracc) playacc=-1.  
IF ANY(-8, ndracc) playacc=-8.  
IF ANY(-9, ndracc) playacc=-9.  
VARIABLE LABEL playacc " (D) Major accident rate for non-work accidents".
```

MPLACE: (D) Location of major accident

MCONSULT: (D) Who consulted about major accident

**SPSS Syntax**

```
RECODE drwyr (-9 thru -1=COPY)(3=1)(4=2)(0,1,2=3)(5,6=4)(else=5) INTO mplace.
VARIABLE LABEL mplace "(D) Location of major accident".
VALUE LABELS mplace 1 'In a home or garden'
                  2 'In a place used for sport, play or recreation'
                  3 'Outdoors, pavement or road'
                  4 'School or public building'
                  5 'Other'.

** MCONSULT **.
** #gp is temporary variable not added to dataset **.
COUNT #gp = draid02 draid03 (1).
COMPUTE mconsult= -1 .
IF (dracc=1) mconsult=4.
IF (draid01 = 1 & #gp = 0) mconsult=1.
IF (draid01 = 0 & #gp >= 1) mconsult=2.
IF (draid01 = 1 & #gp >= 1) mconsult=3.
VARIABLE LABEL mconsult "(D) Who consulted about major accident".
VALUE LABELS mconsult 1 'Hospital, but not GP surgery'
                    2 'GP surgery, but not hospital'
                    3 'Hospital & GP surgery'
                    4 'Other'.
```