NDNS: Diet and physical activity – a follow-up study during COVID-19

Derived Variables for UK Data Service

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Contents

Classification

Household

HHSIZE5 (D) Total number of people in household – top coded at 5+

5 5 or more

```
SPSS Syntax

recode HHSize (lo thru 4=copy)(5 thru hi=5) into HHSize5.
VARIABLE LABELS HHSize5 "(D) Total number of people in household - top coded at 5+".
VALUE LABELS HHSize5
5 "5 or more".
```

HHChildren (D) Whether household contains children

0 No
1 Yes

```
SPSS Syntax

if NumChild_harm>=1 HHChildren=1.
VARIABLE LABELS HHChildren "(D) Whether household contains children".
VALUE LABELS HHChildren
0 "No"
1 "Yes".
```

TENUREDV (D) Tenure

1 Own outright
2 Own with mortgage
3 Rented
4 Other

```
SPSS Syntax

recode Ten1_harm (lo thru 2=copy)(3,5,6=4)(4=3) into TenureDV.
VARIABLE LABELS TenureDV "(D) Tenure".
VALUE LABELS TenureDV
1 "Own outright"
2 "Own with mortgage"
3 "Rented"
4 "Other".
```

Individual

MARST2DV (D) Marital status - grouped

1 Single (never married)
2 Married or in a civil partnership (and living with your partner/husband/wife)
3 Married/in a civil partnership but now separated
4 Married/in a civil partnership but now divorced
5 Widowed/surviving civil partner

SPSS Syntax

```
recode MarSt2 (lo thru 1=copy)(2,6=2)(3,7=3)(4,8=4)(5=5) into MarSt2DV.
VARIABLE LABELS MarSt2DV "(D) Marital status - grouped".
VALUE LABELS MarSt2DV
1 "Single (never married)”
2 "Married or in a civil partnership (and living with your partner/husband/wife)"
3 "Married/in a civil partnership but now separated"
4 "Married/in a civil partnership but now divorced”
5 "Widowed/surviving civil partner".
```

Ethnicity

ETHGRP4_DV (D) Ethnic group, 4 groups

1 White
2 Black
3 Asian
4 Mixed/multiple/other ethnic background

SPSS Syntax

```
recode EthGrp (1 thru 4 = 1) (14 thru 16 = 2) (5 thru 8 = 4) (9 thru 13 = 3)  (17 thru 18
= 4) (lo thru -1=COPY) INTO EthGrp4_DV.
VARIABLE LABELS EthGrp4_DV "(D) Ethnic group, 4 groups".
VALUE LABELS EthGrp4_DV
1 “White”
2 “Black”
3 “Asian”
4 “Mixed/multiple/other ethnic background”.
```

Web Questionnaire

Takeaways

TakeAwyDV (D) Takeaway use during Covid

1	Everyday
2	2 or 3 times a week
3	Weekly
4	2 or 3 times a month
5	Monthly
6	Less often than once a month
7	Didn't order takeaway

```
SPSS Syntax

compute TakeAwyDV=TakeAwyFreq_harm.
if TakeAway_harm=2 TakeAwyDV=7.
VARIABLE LABELS TakeAwyDV "(D) Takeaway use during Covid".
VALUE LABELS TakeAwyDV
1 "Everyday"
2 "2 or 3 times a week"
3 "Weekly"
4 "2 or 3 times a month"
5 "Monthly"
6 "Less often than once a month"
7 "Didn't order takeaway".
```

Food security

FoodWorryGrp3 (D) Food worries - grouped

1	Very, somewhat worried
2	Not very worried
3	Not worried at all

```
SPSS Syntax

recode FoodWorry_harm (1,2=1)(3=2)(4=3)(else=copy) into FoodWorryGrp3.
VARIABLE LABELS FoodWorryGrp3"(D) Food worries - grouped".
VALUE LABELS FoodWorryGrp3
  1 "Very, somewhat worried"
  2 "Not very worried"
  3 "Not worried at all".
```

Vitamins

VitDSuppUseDV (D) Vitamin D supplement use during Covid

1	Less than once a month
2	1-3 times a month
3	Once a week
4	2-4 times a week
5	Once a day
6	2-3 times a day
7	4 or more times a day
8	Didn't take supplements

```
SPSS Syntax

compute VitDSuppUseDV=SFreq.
if SuppYr2=2 VitDSuppUseDV=8.
if SuppYr2=-8 or SuppYr2=-9 VitDSuppUseDV=SuppYr2.
VARIABLE LABELS VitDSuppUseDV "(D) Vitamin D supplement use during Covid".
VALUE LABELS VitDSuppUseDV
1 "Less than once a month"
2 "1-3 times a month"
3 "Once a week"
4 "2-4 times a week"
5 "Once a day"
6 "2-3 times a day"
7 "4 or more times a day"
8 "Didn't take supplements".
```

Alcohol

DrinkChangeDV (D) Drinking habits change during Covid

1 Drinking alcohol a lot more often than usual
2 Drinking alcohol somewhat more often than usual
3 Drinking alcohol a little more often than usual
4 Drinking alcohol a little less often than usual
5 Drinking alcohol somewhat less often than usual
6 Drinking alcohol a lot less often than usual
7 I have completely stopped drinking alcohol
8 Alcohol use hasn't changed
9 Have never drunk alcohol

```
SPSS Syntax

compute DrinkChangeDV=DrinkChRes.
if DrinkCh=2 DrinkChangeDV=8.
if DrinkInt=2 DrinkChangeDV=9.
VARIABLE LABELS DrinkChangeDV "(D) Drinking habits change during Covid".
VALUE LABELS DrinkChangeDV
1 "Drinking alcohol a lot more often than usual"
2 "Drinking alcohol somewhat more often than usual"
3 "Drinking alcohol a little more often than usual"
4 "Drinking alcohol a little less often than usual"
5 "Drinking alcohol somewhat less often than usual"
6 "Drinking alcohol a lot less often than usual"
7 "I have completely stopped drinking alcohol"
8 "Alcohol use hasn't changed"
9 "Have never drunk alcohol".
```

DrinkChangeDVGrp4 (D) Drinking habits change during covid - grouped

1 Drinking alcohol more often than usual
2 Drinking alcohol less often than usual (including stopped drinking)
3 Alcohol use hasn't changed
4 Have never drunk alcohol

```
SPSS Syntax

recode DrinkChangeDV (1 thru 3 =1)(4 thru 7 =2)(8=3)(9=4) into DrinkChangeDVGrp4.
VARIABLE LABELS DrinkChangeDVGrp4"(D) Drinking habits change during Covid - grouped".
VALUE LABELS DrinkChangeDVGrp4
  1 "Drinking alcohol more often than usual"
  2 "Drinking alcohol less often than usual (including stopped drinking)"
  3 "Alcohol use hasn't changed"
4 "Have never drunk alcohol".
```

Financial security

FinSituChDV (D) Financial situation change during Covid

1 Improved a lot
2 Improved somewhat
3 Improved a little
4 Worsened a little
5 Worsened somewhat
6 Worsened a lot
7 No change

```
SPSS Syntax

compute FinSituChDV=IncC19Res_harm.
if IncC19_harm=2 FinSituChDV=7.
VARIABLE LABELS FinSituChDV "(D) Financial situation change during Covid".
VALUE LABELS FinSituChDV
1 "Improved a lot”
2 "Improved somewhat”
3 "Improved a little”
4 "Worsened a little”
5 "Worsened somewhat”
6 "Worsened a lot”
7 "No change”.
```

FinStuChDVGrp3 (D) Financial situation change during Covid – grouped

1 Improved
2 The same
3 Worsened

```
SPSS Syntax

recode FinSituChDV (1,2,3=1)(7=2)(4,5,6=3)(else=copy) into FinSituChDVGrp3.
VARIABLE LABELS FinSituChDV "(D) Financal situation change during Covid - grouped".
VALUE LABELS FinSituChDV
1 "Improved”
2 "The same”
3 "Worsened”.
```

FinSecGrp3 (D) Managing financially - grouped

1 Living comfortably
2 Doing alright
3 Struggling financially

```
SPSS Syntax

recode FinSec_harm (1=1)(2=2)(3,4,5=3)(else=copy) into FinSecGrp3.
VARIABLE LABELS FinSecGrp3 "(D) Managing financially - grouped".
VALUE LABELS FinSecGrp3
1 "Living comfortably”
2 "Doing alright”
3 "Struggling financially”.
```

Coronavirus

HadSympDVPart (D) Participant thinks they had coronavirus

0 No
1 Yes

```
SPSS Syntax

compute HadSympDVPart=-99.
if HadSymp_ind=1 HadSympDVPart=1.
if HadSymp_ind=2 or HadSymp_ind=3 HadSympDVPart=0.
if HadSymp_ind=-8 or HadSymp_ind=-9 HadSympDVPart=HadSymp_ind.
VARIABLE LABELS HadSympDVPart "(D) Participant thinks they had coronavirus".
VALUE LABELS HadSympDVPart
0 "No"
1 "Yes".
```

TestResDVPart (D) Participant tested positive for coronavirus

0 No
1 Yes

```
SPSS Syntax

compute TestResDVPart=-99.
if TestRes_ind=1 TestResDVPart=1.
if TestRes_ind=2 or TestRes_ind=3 or TestRes_ind=4 TestResDVPart=0.
if TestRes_ind=-8 or TestRes_ind=-9 TestResDVPart=TestRes_ind.
VARIABLE LABELS TestResDVPart "(D) Participant tested positive for coronavirus".
VALUE LABELS TestResDVPart
0 "No"
1 "Yes".
```

NHSShieldDVPart (D) Participant received NHS Shielding letter

0 No
1 Yes

```
SPSS Syntax

compute NHSShieldDVPart=-99.
if NHSShield_ind=1 NHSShieldDVPart=1.
if NHSShield_ind=2 or NHSShield_ind=3 NHSShieldDVPart=0.
if NHSShield_ind=-8 or NHSShield_ind=-9 NHSShieldDVPart=NHSShield_ind.
VARIABLE LABELS NHSShieldDVPart "(D) Participant received NHS Sheilding letter".
VALUE LABELS NHSShieldDVPart
0 "No"
1 "Yes".
```

HadSympDVHH (D) Someone in household believed to have had coronavirus
TestResDVHH (D) Someone in household tested positive for coronavirus
NHSShieldDVHH (D) Someone in household received NHS Shielding letter

0 No
1 Yes

SPSS Syntax

```
match files /file=* /keep hserialDNAC HadSymp_ind TestRes_ind NHSShield_ind.
sort cases hserialDNAC(A).
casestovars /id=hserialDNAC /count=numrecords.

**steps to create DVs:
*count no. of hhold members who gave 'Yes' responses, and number who gave 'No' responses
*any households where no. of participants = number of 'No's coded No in DV
*households with any 'Yes' coded Yes in DV

count HadSympYES = HadSymp_ind.1 HadSymp_ind.2 HadSymp_ind.3 (1,2).
count HadSympNO = HadSymp_ind.1 HadSymp_ind.2 HadSymp_ind.3 (3).
compute HadSympDVHHtemp=-99.
if HadSympYES>0 HadSympDVHHtemp=1.
if HadSympNO=numrecords HadSympDVHHtemp=0.
if any(-8, HadSymp_ind.1, HadSymp_ind.2, HadSymp_ind.3) HadSympDVHHtemp=-8.
if any(-9, HadSymp_ind.1, HadSymp_ind.2, HadSymp_ind.3) HadSympDVHHtemp=-9.

count TestResYES = TestRes_ind.1 TestRes_ind.2 TestRes_ind.3 (1,2).
count TestResNO = TestRes_ind.1 TestRes_ind.2 TestRes_ind.3 (3,4).
compute TestResDVHHtemp=-99.
if TestResYES>0 TestResDVHHtemp=1.
if TestResNO=numrecords TestResDVHHtemp=0.
if any(-8, TestRes_ind.1, TestRes_ind.2, TestRes_ind.3) TestResDVHHtemp=-8.
if any(-9, TestRes_ind.1, TestRes_ind.2, TestRes_ind.3) TestResDVHHtemp=-9.

count NHSShieldYES = NHSShield_ind.1 NHSShield_ind.2 NHSShield_ind.3 (1,2).
count NHSShieldNO = NHSShield_ind.1 NHSShield_ind.2 NHSShield_ind.3 (3).
compute NHSShieldDVHHtemp=-99.
if NHSShieldYES>0 NHSShieldDVHHtemp=1.
if NHSShieldNO=numrecords NHSShieldDVHHtemp=0.
if any(-8, NHSShield_ind.1, NHSShield_ind.2, NHSShield_ind.3) NHSShieldDVHHtemp=-8.
if any(-9, NHSShield_ind.1, NHSShield_ind.2, NHSShield_ind.3) NHSShieldDVHHtemp=-9.

**delete all step variables so that just DVs are matched back into curated dataset.
delete variables HadSymp_ind.1 HadSymp_ind.2 HadSymp_ind.3 TestRes_ind.1 TestRes_ind.2
TestRes_ind.3 NHSShield_ind.1 NHSShield_ind.2
NHSShield_ind.3 HadSympYES HadSympNO TestResYES TestResNO NHSShieldYES NHSShieldNO.

sort cases by hserialDNAC.
dataset activate xcurated.
sort cases by hserialDNAC.
match files
    /file xcurated /in=in1
    /table hhold /in=in2
    by hserialDNAC.
cro in1 by in2.
delete variables in1 in2.
dataset name xcurated.
dataset close hhold.

compute HadSympDVHH=HadSympDVHHtemp.
compute TestResDVHH=TestResDVHHtemp.
compute NHSShieldDVHH=NHSShieldDVHHtemp.
exe.

VARIABLE LABELS HadSympDVHH "(D) Someone in household believed to have had coronavirus".
VARIABLE LABELS TestResDVHH "(D) Someone in household tested positive for coronavirus".
VARIABLE LABELS NHSSheildDVHH "(D) Someone in household received NHS Sheilding letter".
VALUE LABELS NHSShieldDVPart
0 "No"
1 "Yes".
```

Height and weight

EstHt (D) Self-reported estimated height (cm)

```
SPSS Syntax

do IF EHtM gt -1.
compute EstHt = EHtM * 100.
       ELSE IF (EHtFtIn_EHtFt gt -1) AND (EHtFtIn_EHtIn gt -1).
compute EstHt = ((EHtFtIn_EHtFt * 12) + EHtFtIn_EHtIn) * 2.54.
END IF.
if AgeNow_Numeric lt 2 EstHt = -1.
if any(-8,EHtCh, EHtM, EHtFtIn_EHtFt, EHtFtIn_EHtIn) EstHt = -8.
if any(-9,EHtCh, EHtM, EHtFtIn_EHtFt, EHtFtIn_EHtIn) EstHt = -9.
if EHtCH=-1 EstHt=-1.
if range(EHtWtWilling,2,4) and Interview_Age lt 16 estht=-1.
execute.
VARIABLE LABELS EstHt "Self-reported estimated height (cm)".
```

EstWt (D) Self-reported estimated weight (kg)

```
SPSS Syntax

do  if EWtKg gt -1.
compute   EstWt  = EWtKg.
            ELSE IF (EWtStL_EWtSt gt -1) AND (EWtStL_EWtL gt -1).
compute EstWt  =  RND(((EWtStL_EWtSt * 14) + EWtStL_EWtL) * 4.54)  * 0.1.
end if.
IF any(-8, EWtCh, EWtKg, EWtStL_EWtSt, EWtStL_EWtL) EstWt = -8.
IF any(-9, EWtCh, EWtKg, EWtStL_EWtSt, EWtStL_EWtL) EstWt = -9.
if EWtCH=-1 EstWt=-1.
if range(EHtWtWilling,2,4) and Interview_Age lt 16 estwt=-1.
execute.
VARIABLE LABELS EstHt "Self-reported estimated weight (kg)".
```

BMI (D) BMI – self-reported measurements

```
SPSS Syntax

COMPUTE bmi=-99.
IF EstHt>0 & EstWt>0 bmi=(EstWt*100*100)/(EstHt*EstHt).
If any(-9,EstHt, EstWt) bmi=-9.
If any(-8, EstHt, EstWt) bmi=-8.
If any(-1, EstHt, EstWt) bmi=-1.
VARIABLE LABELS BMI '(D) BMI – self-reported measurements".
```

BMIg5 (D) Adult's BMI (self-reported measurements) – 5 groups

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

```
SPSS Syntax

RECODE bmi (0 thru 18.5=1)(18.5 thru 25=2)(25 thru 30=3) (30 thru 40=4)
    (40 thru hi=5) (lo thru -1=COPY) INTO bmig5.
If Interview_Age<19 bmig5=-1.
VARIABLE LABELS BMIg5 "(D) Adult's BMI (self-reported measurements) – 5 groups".
VALUE LABELS BMIg5
 1 "Under 18.5"
 2 "18.5 and below 25"
```

```
 3 "25 and below 30"
 4 "30 and below 40"
 5 "Over 40".
```

BMIg218 (D) Children's BMI (self-reported measurements) – 3 groups

1 Not overweight or obese
2 Overweight
3 Obese

SPSS Syntax

```
compute bmiwho=0.

IF sex= 1 AND (intexagem>= 24 AND intexagem<25) AND bmi< 17.093 bmiwho=1.
IF sex= 1 AND (intexagem>= 25 AND intexagem<26) AND bmi< 17.358 bmiwho=1.
IF sex= 1 AND (intexagem>= 26 AND intexagem<27) AND bmi< 17.316 bmiwho=1.
IF sex= 1 AND (intexagem>= 27 AND intexagem<28) AND bmi< 17.274 bmiwho=1.
IF sex= 1 AND (intexagem>= 28 AND intexagem<29) AND bmi< 17.234 bmiwho=1.
IF sex= 1 AND (intexagem>= 29 AND intexagem<30) AND bmi< 17.195 bmiwho=1.
IF sex= 1 AND (intexagem>= 30 AND intexagem<31) AND bmi< 17.157 bmiwho=1.
IF sex= 1 AND (intexagem>= 31 AND intexagem<32) AND bmi< 17.12 bmiwho=1.
IF sex= 1 AND (intexagem>= 32 AND intexagem<33) AND bmi< 17.085 bmiwho=1.
IF sex= 1 AND (intexagem>= 33 AND intexagem<34) AND bmi< 17.05 bmiwho=1.
IF sex= 1 AND (intexagem>= 34 AND intexagem<35) AND bmi< 17.016 bmiwho=1.
IF sex= 1 AND (intexagem>= 35 AND intexagem<36) AND bmi< 16.984 bmiwho=1.
IF sex= 1 AND (intexagem>= 36 AND intexagem<37) AND bmi< 16.953 bmiwho=1.
IF sex= 1 AND (intexagem>= 37 AND intexagem<38) AND bmi< 16.924 bmiwho=1.
IF sex= 1 AND (intexagem>= 38 AND intexagem<39) AND bmi< 16.896 bmiwho=1.
IF sex= 1 AND (intexagem>= 39 AND intexagem<40) AND bmi< 16.87 bmiwho=1.
IF sex= 1 AND (intexagem>= 40 AND intexagem<41) AND bmi< 16.846 bmiwho=1.
IF sex= 1 AND (intexagem>= 41 AND intexagem<42) AND bmi< 16.825 bmiwho=1.
IF sex= 1 AND (intexagem>= 42 AND intexagem<43) AND bmi< 16.805 bmiwho=1.
IF sex= 1 AND (intexagem>= 43 AND intexagem<44) AND bmi< 16.787 bmiwho=1.
IF sex= 1 AND (intexagem>= 44 AND intexagem<45) AND bmi< 16.771 bmiwho=1.
IF sex= 1 AND (intexagem>= 45 AND intexagem<46) AND bmi< 16.757 bmiwho=1.
IF sex= 1 AND (intexagem>= 46 AND intexagem<47) AND bmi< 16.744 bmiwho=1.
IF sex= 1 AND (intexagem>= 47 AND intexagem<48) AND bmi< 16.732 bmiwho=1.

IF sex= 1 AND (intexagem>= 24 AND intexagem<25) AND (bmi>= 17.093 AND bmi<17.982)
bmiwho=2.
IF sex= 1 AND (intexagem>= 25 AND intexagem<26) AND (bmi>= 17.358 AND bmi<18.257)
bmiwho=2.
IF sex= 1 AND (intexagem>= 26 AND intexagem<27) AND (bmi>= 17.316 AND bmi<18.21)
bmiwho=2.
IF sex= 1 AND (intexagem>= 27 AND intexagem<28) AND (bmi>= 17.274 AND bmi<18.164)
bmiwho=2.
IF sex= 1 AND (intexagem>= 28 AND intexagem<29) AND (bmi>= 17.234 AND bmi<18.12)
bmiwho=2.
IF sex= 1 AND (intexagem>= 29 AND intexagem<30) AND (bmi>= 17.195 AND bmi<18.077)
bmiwho=2.
IF sex= 1 AND (intexagem>= 30 AND intexagem<31) AND (bmi>= 17.157 AND bmi<18.036)
bmiwho=2.
IF sex= 1 AND (intexagem>= 31 AND intexagem<32) AND (bmi>= 17.12 AND bmi<17.996)
bmiwho=2.
IF sex= 1 AND (intexagem>= 32 AND intexagem<33) AND (bmi>= 17.085 AND bmi<17.958)
bmiwho=2.
IF sex= 1 AND (intexagem>= 33 AND intexagem<34) AND (bmi>= 17.05 AND bmi<17.921)
bmiwho=2.
IF sex= 1 AND (intexagem>= 34 AND intexagem<35) AND (bmi>= 17.016 AND bmi<17.886)
bmiwho=2.
IF sex= 1 AND (intexagem>= 35 AND intexagem<36) AND (bmi>= 16.984 AND bmi<17.853)
bmiwho=2.
IF sex= 1 AND (intexagem>= 36 AND intexagem<37) AND (bmi>= 16.953 AND bmi<17.821)
bmiwho=2.
IF sex= 1 AND (intexagem>= 37 AND intexagem<38) AND (bmi>= 16.924 AND bmi<17.791)
bmiwho=2.
IF sex= 1 AND (intexagem>= 38 AND intexagem<39) AND (bmi>= 16.896 AND bmi<17.763)
bmiwho=2.
```

```
IF sex= 1 AND (intexagem>= 39 AND intexagem<40) AND (bmi>= 16.87 AND bmi<17.738)
bmiwho=2.
IF sex= 1 AND (intexagem>= 40 AND intexagem<41) AND (bmi>= 16.846 AND bmi<17.715)
bmiwho=2.
IF sex= 1 AND (intexagem>= 41 AND intexagem<42) AND (bmi>= 16.825 AND bmi<17.695)
bmiwho=2.
IF sex= 1 AND (intexagem>= 42 AND intexagem<43) AND (bmi>= 16.805 AND bmi<17.678)
bmiwho=2.
IF sex= 1 AND (intexagem>= 43 AND intexagem<44) AND (bmi>= 16.787 AND bmi<17.663)
bmiwho=2.
IF sex= 1 AND (intexagem>= 44 AND intexagem<45) AND (bmi>= 16.771 AND bmi<17.65)
bmiwho=2.
IF sex= 1 AND (intexagem>= 45 AND intexagem<46) AND (bmi>= 16.757 AND bmi<17.639)
bmiwho=2.
IF sex= 1 AND (intexagem>= 46 AND intexagem<47) AND (bmi>= 16.744 AND bmi<17.631)
bmiwho=2.
IF sex= 1 AND (intexagem>= 47 AND intexagem<48) AND (bmi>= 16.732 AND bmi<17.623)
bmiwho=2.

IF sex= 1 AND (intexagem>= 24 AND intexagem<25) AND (bmi>= 17.982 )bmiwho=3.
IF sex= 1 AND (intexagem>= 25 AND intexagem<26) AND (bmi>= 18.257 )bmiwho=3.
IF sex= 1 AND (intexagem>= 26 AND intexagem<27) AND (bmi>= 18.21 )bmiwho=3.
IF sex= 1 AND (intexagem>= 27 AND intexagem<28) AND (bmi>= 18.164 )bmiwho=3.
IF sex= 1 AND (intexagem>= 28 AND intexagem<29) AND (bmi>= 18.12 )bmiwho=3.
IF sex= 1 AND (intexagem>= 29 AND intexagem<30) AND (bmi>= 18.077 )bmiwho=3.
IF sex= 1 AND (intexagem>= 30 AND intexagem<31) AND (bmi>= 18.036 )bmiwho=3.
IF sex= 1 AND (intexagem>= 31 AND intexagem<32) AND (bmi>= 17.996 )bmiwho=3.
IF sex= 1 AND (intexagem>= 32 AND intexagem<33) AND (bmi>= 17.958 )bmiwho=3.
IF sex= 1 AND (intexagem>= 33 AND intexagem<34) AND (bmi>= 17.921 )bmiwho=3.
IF sex= 1 AND (intexagem>= 34 AND intexagem<35) AND (bmi>= 17.886 )bmiwho=3.
IF sex= 1 AND (intexagem>= 35 AND intexagem<36) AND (bmi>= 17.853 )bmiwho=3.
IF sex= 1 AND (intexagem>= 36 AND intexagem<37) AND (bmi>= 17.821 )bmiwho=3.
IF sex= 1 AND (intexagem>= 37 AND intexagem<38) AND (bmi>= 17.791 )bmiwho=3.
IF sex= 1 AND (intexagem>= 38 AND intexagem<39) AND (bmi>= 17.763 )bmiwho=3.
IF sex= 1 AND (intexagem>= 39 AND intexagem<40) AND (bmi>= 17.738 )bmiwho=3.
IF sex= 1 AND (intexagem>= 40 AND intexagem<41) AND (bmi>= 17.715 )bmiwho=3.
IF sex= 1 AND (intexagem>= 41 AND intexagem<42) AND (bmi>= 17.695 )bmiwho=3.
IF sex= 1 AND (intexagem>= 42 AND intexagem<43) AND (bmi>= 17.678 )bmiwho=3.
IF sex= 1 AND (intexagem>= 43 AND intexagem<44) AND (bmi>= 17.663 )bmiwho=3.
IF sex= 1 AND (intexagem>= 44 AND intexagem<45) AND (bmi>= 17.65 )bmiwho=3.
IF sex= 1 AND (intexagem>= 45 AND intexagem<46) AND (bmi>= 17.639 )bmiwho=3.
IF sex= 1 AND (intexagem>= 46 AND intexagem<47) AND (bmi>= 17.631 )bmiwho=3.
IF sex= 1 AND (intexagem>= 47 AND intexagem<48) AND (bmi>= 17.623 )bmiwho=3.

IF sex= 2 AND (intexagem>= 24 AND intexagem<25) AND bmi< 16.873 bmiwho=1.
IF sex= 2 AND (intexagem>= 25 AND intexagem<26) AND bmi< 17.131 bmiwho=1.
IF sex= 2 AND (intexagem>= 26 AND intexagem<27) AND bmi< 17.1 bmiwho=1.
IF sex= 2 AND (intexagem>= 27 AND intexagem<28) AND bmi< 17.07 bmiwho=1.
IF sex= 2 AND (intexagem>= 28 AND intexagem<29) AND bmi< 17.041 bmiwho=1.
IF sex= 2 AND (intexagem>= 29 AND intexagem<30) AND bmi< 17.013 bmiwho=1.
IF sex= 2 AND (intexagem>= 30 AND intexagem<31) AND bmi< 16.986 bmiwho=1.
IF sex= 2 AND (intexagem>= 31 AND intexagem<32) AND bmi< 16.96 bmiwho=1.
IF sex= 2 AND (intexagem>= 32 AND intexagem<33) AND bmi< 16.936 bmiwho=1.
IF sex= 2 AND (intexagem>= 33 AND intexagem<34) AND bmi< 16.913 bmiwho=1.
IF sex= 2 AND (intexagem>= 34 AND intexagem<35) AND bmi< 16.893 bmiwho=1.
IF sex= 2 AND (intexagem>= 35 AND intexagem<36) AND bmi< 16.875 bmiwho=1.
IF sex= 2 AND (intexagem>= 36 AND intexagem<37) AND bmi< 16.86 bmiwho=1.
IF sex= 2 AND (intexagem>= 37 AND intexagem<38) AND bmi< 16.847 bmiwho=1.
IF sex= 2 AND (intexagem>= 38 AND intexagem<39) AND bmi< 16.837 bmiwho=1.
IF sex= 2 AND (intexagem>= 39 AND intexagem<40) AND bmi< 16.829 bmiwho=1.
IF sex= 2 AND (intexagem>= 40 AND intexagem<41) AND bmi< 16.824 bmiwho=1.
IF sex= 2 AND (intexagem>= 41 AND intexagem<42) AND bmi< 16.82 bmiwho=1.
IF sex= 2 AND (intexagem>= 42 AND intexagem<43) AND bmi< 16.817 bmiwho=1.
IF sex= 2 AND (intexagem>= 43 AND intexagem<44) AND bmi< 16.816 bmiwho=1.
IF sex= 2 AND (intexagem>= 44 AND intexagem<45) AND bmi< 16.816 bmiwho=1.
IF sex= 2 AND (intexagem>= 45 AND intexagem<46) AND bmi< 16.817 bmiwho=1.
IF sex= 2 AND (intexagem>= 46 AND intexagem<47) AND bmi< 16.819 bmiwho=1.
IF sex= 2 AND (intexagem>= 47 AND intexagem<48) AND bmi< 16.822 bmiwho=1.

IF sex= 2 AND (intexagem>= 24 AND intexagem<25) AND (bmi>= 16.873 AND bmi<17.842)
bmiwho=2.
```

```
IF sex= 2 AND (intexagem>= 25 AND intexagem<26) AND (bmi>= 17.131 AND bmi<18.099)
bmiwho=2.
IF sex= 2 AND (intexagem>= 26 AND intexagem<27) AND (bmi>= 17.1 AND bmi<18.066) bmiwho=2.
IF sex= 2 AND (intexagem>= 27 AND intexagem<28) AND (bmi>= 17.07 AND bmi<18.033)
bmiwho=2.
IF sex= 2 AND (intexagem>= 28 AND intexagem<29) AND (bmi>= 17.041 AND bmi<18.003)
bmiwho=2.
IF sex= 2 AND (intexagem>= 29 AND intexagem<30) AND (bmi>= 17.013 AND bmi<17.973)
bmiwho=2.
IF sex= 2 AND (intexagem>= 30 AND intexagem<31) AND (bmi>= 16.986 AND bmi<17.945)
bmiwho=2.
IF sex= 2 AND (intexagem>= 31 AND intexagem<32) AND (bmi>= 16.96 AND bmi<17.918)
bmiwho=2.
IF sex= 2 AND (intexagem>= 32 AND intexagem<33) AND (bmi>= 16.936 AND bmi<17.893)
bmiwho=2.
IF sex= 2 AND (intexagem>= 33 AND intexagem<34) AND (bmi>= 16.913 AND bmi<17.871)
bmiwho=2.
IF sex= 2 AND (intexagem>= 34 AND intexagem<35) AND (bmi>= 16.893 AND bmi<17.851)
bmiwho=2.
IF sex= 2 AND (intexagem>= 35 AND intexagem<36) AND (bmi>= 16.875 AND bmi<17.835)
bmiwho=2.
IF sex= 2 AND (intexagem>= 36 AND intexagem<37) AND (bmi>= 16.86 AND bmi<17.823)
bmiwho=2.
IF sex= 2 AND (intexagem>= 37 AND intexagem<38) AND (bmi>= 16.847 AND bmi<17.813)
bmiwho=2.
IF sex= 2 AND (intexagem>= 38 AND intexagem<39) AND (bmi>= 16.837 AND bmi<17.808)
bmiwho=2.
IF sex= 2 AND (intexagem>= 39 AND intexagem<40) AND (bmi>= 16.829 AND bmi<17.805)
bmiwho=2.
IF sex= 2 AND (intexagem>= 40 AND intexagem<41) AND (bmi>= 16.824 AND bmi<17.806)
bmiwho=2.
IF sex= 2 AND (intexagem>= 41 AND intexagem<42) AND (bmi>= 16.82 AND bmi<17.808)
bmiwho=2.
IF sex= 2 AND (intexagem>= 42 AND intexagem<43) AND (bmi>= 16.817 AND bmi<17.812)
bmiwho=2.
IF sex= 2 AND (intexagem>= 43 AND intexagem<44) AND (bmi>= 16.816 AND bmi<17.819)
bmiwho=2.
IF sex= 2 AND (intexagem>= 44 AND intexagem<45) AND (bmi>= 16.816 AND bmi<17.826)
bmiwho=2.
IF sex= 2 AND (intexagem>= 45 AND intexagem<46) AND (bmi>= 16.817 AND bmi<17.834)
bmiwho=2.
IF sex= 2 AND (intexagem>= 46 AND intexagem<47) AND (bmi>= 16.819 AND bmi<17.844)
bmiwho=2.
IF sex= 2 AND (intexagem>= 47 AND intexagem<48) AND (bmi>= 16.822 AND bmi<17.854)
bmiwho=2.

IF sex= 2 AND (intexagem>= 24 AND intexagem<25) AND (bmi>= 17.842 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 25 AND intexagem<26) AND (bmi>= 18.099 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 26 AND intexagem<27) AND (bmi>= 18.066 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 27 AND intexagem<28) AND (bmi>= 18.033 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 28 AND intexagem<29) AND (bmi>= 18.003 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 29 AND intexagem<30) AND (bmi>= 17.973 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 30 AND intexagem<31) AND (bmi>= 17.945 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 31 AND intexagem<32) AND (bmi>= 17.918 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 32 AND intexagem<33) AND (bmi>= 17.893 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 33 AND intexagem<34) AND (bmi>= 17.871 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 34 AND intexagem<35) AND (bmi>= 17.851 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 35 AND intexagem<36) AND (bmi>= 17.835 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 36 AND intexagem<37) AND (bmi>= 17.823 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 37 AND intexagem<38) AND (bmi>= 17.813 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 38 AND intexagem<39) AND (bmi>= 17.808 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 39 AND intexagem<40) AND (bmi>= 17.805 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 40 AND intexagem<41) AND (bmi>= 17.806 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 41 AND intexagem<42) AND (bmi>= 17.808 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 42 AND intexagem<43) AND (bmi>= 17.812 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 43 AND intexagem<44) AND (bmi>= 17.819 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 44 AND intexagem<45) AND (bmi>= 17.826 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 45 AND intexagem<46) AND (bmi>= 17.834 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 46 AND intexagem<47) AND (bmi>= 17.844 ) bmiwho=3.
IF sex= 2 AND (intexagem>= 47 AND intexagem<48) AND (bmi>= 17.854 ) bmiwho=3.
exe.
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if Interview_Age<2 or Interview_Age>=4 bmiwho=-1.
if bmi<0 bmiwho=bmi.

compute bmicat418=0.

IF sex=1 AND (intexage>=4 AND intexage<4.50) AND bmi<17.13 bmicat418=1.
IF sex=2 AND (intexage>=4 AND intexage<4.50) AND bmi<17.23 bmicat418=1.
IF sex=1 AND (intexage>=4.50 AND intexage<5) AND bmi<17.01 bmicat418=1.
IF sex=2 AND (intexage>=4.50 AND intexage<5) AND bmi<17.17 bmicat418=1.
IF sex=1 AND  (intexage>=5 AND intexage<5.50) AND bmi<16.96 bmicat418=1.
IF sex=2 AND  (intexage>=5 AND intexage<5.50) AND bmi<17.16 bmicat418=1.
IF sex=1 AND  (intexage>=5.50 AND intexage<6) AND bmi<16.96 bmicat418=1.
IF sex=2 AND  (intexage>=5.50 AND intexage<6) AND bmi<17.21 bmicat418=1.
IF sex=1 AND (intexage>=6 AND intexage<6.50) AND bmi<17.01 bmicat418=1.
IF sex=2 AND (intexage>=6 AND intexage<6.50) AND bmi<17.32 bmicat418=1.
IF sex=1 AND (intexage>=6.50 AND intexage<7) AND bmi<17.10 bmicat418=1.
IF sex=2 AND (intexage>=6.50 AND intexage<7) AND bmi<17.49 bmicat418=1.
IF sex=1 AND (intexage>=7 AND intexage<7.50) AND bmi<17.24 bmicat418=1.
IF sex=2 AND (intexage>=7 AND intexage<7.50) AND bmi<17.71 bmicat418=1.
IF sex=1 AND (intexage>=7.50 AND intexage<8) AND bmi<17.41 bmicat418=1.
IF sex=2 AND  (intexage>=7.50 AND intexage<8) AND bmi<17.96 bmicat418=1.
IF sex=1 AND (intexage>=8 AND intexage<8.50) AND bmi<17.61 bmicat418=1.
IF sex=2 AND (intexage>=8 AND intexage<8.50) AND bmi<18.23 bmicat418=1.
IF sex=1 AND (intexage>=8.50 AND intexage<9) AND bmi<17.83 bmicat418=1.
IF sex=2 AND (intexage>=8.50 AND intexage<9) AND bmi<18.52 bmicat418=1.
IF sex=1 AND (intexage>=9 AND intexage<9.50) AND bmi<18.08 bmicat418=1.
IF sex=2 AND (intexage>=9 AND intexage<9.50) AND bmi<18.82 bmicat418=1.
IF sex=1 AND (intexage>=9.50 AND intexage<10) AND bmi<18.35 bmicat418=1.
IF sex=2 AND (intexage>=9.50 AND intexage<10) AND bmi<19.15 bmicat418=1.
IF sex=1 AND (intexage>=10 AND intexage<10.50)  AND bmi<18.64 bmicat418=1.
IF sex=2 AND (intexage>=10 AND intexage<10.50) AND bmi<19.49 bmicat418=1.
IF sex=1 AND (intexage>=10.50 AND intexage<11) AND bmi<18.94 bmicat418=1.
IF sex=2 AND (intexage>=10.50 AND intexage<11) AND bmi<19.85 bmicat418=1.
IF sex=1 AND (intexage>=11 AND intexage<11.50) AND bmi<19.26 bmicat418=1.
IF sex=2 AND (intexage>=11 AND intexage<11.50) AND bmi<20.22 bmicat418=1.
IF sex=1 AND (intexage>=11.50 AND intexage<12) AND bmi<19.59 bmicat418=1.
IF sex=2 AND (intexage>=11.50 AND intexage<12) AND bmi<20.60 bmicat418=1.
IF sex=1 AND (intexage>=12 AND intexage<12.50) AND bmi<19.93 bmicat418=1.
IF sex=2 AND (intexage>=12 AND intexage<12.50) AND bmi<20.98 bmicat418=1.
IF sex=1 AND (intexage>=12.50 AND intexage<13) AND bmi<20.29 bmicat418=1.
IF sex=2 AND (intexage>=12.50 AND intexage<13) AND bmi<21.37 bmicat418=1.
IF sex=1 AND (intexage>=13 AND intexage<13.50) AND bmi<20.65 bmicat418=1.
IF sex=2 AND (intexage>=13 AND intexage<13.50) AND bmi<21.74 bmicat418=1.
IF sex=1 AND (intexage>=13.50 AND intexage<14) AND bmi<21.02 bmicat418=1.
IF sex=2 AND (intexage>=13.50 AND intexage<14) AND bmi<22.10 bmicat418=1.
IF sex=1 AND (intexage>=14 AND intexage<14.50) AND bmi<21.39 bmicat418=1.
IF sex=2 AND (intexage>=14 AND intexage<14.50) AND bmi<22.45 bmicat418=1.
IF sex=1 AND (intexage>=14.50 AND intexage<15)  AND bmi<21.76 bmicat418=1.
IF sex=2 AND (intexage>=14.50 AND intexage<15) AND bmi<22.77 bmicat418=1.
IF sex=1 AND (intexage>=15 AND intexage<15.50) AND bmi<22.12 bmicat418=1.
IF sex=2 AND (intexage>=15 AND intexage<15.50) AND bmi<23.08 bmicat418=1.
IF sex=1 AND (intexage>=15.50 AND intexage<16) AND bmi<22.48 bmicat418=1.
IF sex=2 AND (intexage>=15.50 AND intexage<16)  AND bmi<23.35 bmicat418=1.
IF sex=1 AND (intexage>=16 AND intexage<16.50) AND (bmi<22.82) bmicat418=1.
IF sex=2 AND (intexage>=16 AND intexage<16.50) AND (bmi<23.61) bmicat418=1.
IF sex=1 AND (intexage>=16.50 AND intexage<17) AND (bmi<23.15) bmicat418=1.
IF sex=2 AND (intexage>=16.50 AND intexage<17) AND (bmi<23.84) bmicat418=1.
IF sex=1 AND (intexage>=17 AND intexage<17.50) AND (bmi<23.46) bmicat418=1.
IF sex=2 AND (intexage>=17 AND intexage<17.50) AND (bmi<24.06) bmicat418=1.
IF sex=1 AND (intexage>=17.50 AND intexage<18) AND (bmi<23.76 ) bmicat418=1.
IF sex=2 AND (intexage>=17.50 AND intexage<18) AND (bmi<24.25) bmicat418=1.
IF sex=1 AND (intexage>=18 AND intexage<18.50) AND (bmi<24.05) bmicat418=1.
IF sex=2 AND (intexage>=18 AND intexage<18.50) AND (bmi<24.43) bmicat418=1.
IF sex=1 AND (intexage>=18.50 AND intexage<19) AND (bmi<24.32) bmicat418=1.
IF sex=2 AND (intexage>=18.50 AND intexage<19) AND (bmi<24.60) bmicat418=1.

IF sex=1 AND (intexage>=4 AND intexage<4.50) AND (bmi>=17.13 AND bmi<18.08) bmicat418=2.
IF sex=2 AND (intexage>=4 AND intexage<4.50) AND (bmi>=17.23 AND bmi<18.32) bmicat418=2.
IF sex=1 AND (intexage>=4.50 AND intexage<5) AND (bmi>=17.01 AND bmi<17.97) bmicat418=2.
IF sex=2 AND (intexage>=4.50 AND intexage<5) AND (bmi>=17.17 AND bmi<18.31) bmicat418=2.
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IF sex=1 AND (intexage>=5 AND intexage<5.50) AND (bmi>=16.96 AND bmi<17.95 ) bmicat418=2.
IF sex=2 AND (intexage>=5 AND intexage<5.50) AND (bmi>=17.16 AND bmi<18.35) bmicat418=2.
IF sex=1 AND (intexage>=5.50 AND intexage<6) AND (bmi>=16.96 AND bmi<17.99) bmicat418=2.
IF sex=2 AND (intexage>=5.50 AND intexage<6) AND (bmi>=17.21 AND bmi<18.46) bmicat418=2.
IF sex=1 AND (intexage>=6 AND intexage<6.50) AND (bmi>=17.01 AND bmi<18.10) bmicat418=2.
IF sex=2 AND (intexage>=6 AND intexage<6.50) AND (bmi>=17.32 AND bmi<18.65) bmicat418=2.
IF sex=1 AND (intexage>=6.50 AND intexage<7) AND (bmi>=17.10 AND bmi<18.26) bmicat418=2.
IF sex=2 AND (intexage>=6.50 AND intexage<7) AND (bmi>=17.49 AND bmi<18.91) bmicat418=2.
IF sex=1 AND (intexage>=7 AND intexage<7.50) AND (bmi>=17.24 AND bmi<18.48) bmicat418=2.
IF sex=2 AND (intexage>=7 AND intexage<7.50) AND (bmi>=17.71 AND bmi<19.22) bmicat418=2.
IF sex=1 AND (intexage>=7.50 AND intexage<8) AND (bmi>=17.41 AND bmi<18.74) bmicat418=2.
IF sex=2 AND (intexage>=7.50 AND intexage<8) AND (bmi>=17.96 AND bmi<19.56) bmicat418=2.
IF sex=1 AND (intexage>=8 AND intexage<8.50) AND (bmi>=17.61 AND bmi<19.04 ) bmicat418=2.
IF sex=2 AND (intexage>=8 AND intexage<8.50) AND (bmi>=18.23 AND bmi<19.93) bmicat418=2.
IF sex=1 AND (intexage>=8.50 AND intexage<9) AND (bmi>=17.83 AND bmi<19.36) bmicat418=2.
IF sex=2 AND (intexage>=8.50 AND intexage<9) AND (bmi>=18.52 AND bmi<20.30 ) bmicat418=2.
IF sex=1 AND (intexage>=9 AND intexage<9.50) AND (bmi>=18.08 AND bmi<19.70 ) bmicat418=2.
IF sex=2 AND (intexage>=9 AND intexage<9.50) AND (bmi>=18.82 AND bmi<20.70) bmicat418=2.
IF sex=1 AND (intexage>=9.50 AND intexage<10) AND (bmi>=18.35 AND bmi<20.05) bmicat418=2.
IF sex=2 AND (intexage>=9.50 AND intexage<10) AND (bmi>=19.15 AND bmi<21.10) bmicat418=2.
IF sex=1 AND (intexage>=10 AND intexage<10.50) AND (bmi>=18.64 AND bmi<20.42 )
bmicat418=2.
IF sex=2 AND (intexage>=10 AND intexage<10.50) AND (bmi>=19.49 AND bmi<21.52)
bmicat418=2.
IF sex=1 AND (intexage>=10.50 AND intexage<11) AND (bmi>=18.94 AND bmi<20.79)
bmicat418=2.
IF sex=2 AND (intexage>=10.50 AND intexage<11) AND (bmi>=19.85 AND bmi<21.94)
bmicat418=2.
IF sex=1 AND (intexage>=11 AND intexage<11.50) AND (bmi>=19.26 AND bmi<21.18 )
bmicat418=2.
IF sex=2 AND (intexage>=11 AND intexage<11.50) AND (bmi>=20.22 AND bmi<22.36)
bmicat418=2.
IF sex=1 AND (intexage>=11.50 AND intexage<12) AND (bmi>=19.59 AND bmi<21.57)
bmicat418=2.
IF sex=2 AND (intexage>=11.50 AND intexage<12) AND (bmi>=20.60 AND bmi<22.80 )
bmicat418=2.
IF sex=1 AND (intexage>=12 AND intexage<12.50) AND (bmi>=19.93 AND bmi<21.96 )
bmicat418=2.
IF sex=2 AND (intexage>=12 AND intexage<12.50) AND (bmi>=20.98 AND bmi<23.22)
bmicat418=2.
IF sex=1 AND (intexage>=12.50 AND intexage<13) AND (bmi>=20.29 AND bmi<22.36)
bmicat418=2.
IF sex=2 AND (intexage>=12.50 AND intexage<13) AND (bmi>=21.37 AND bmi<23.65 )
bmicat418=2.
IF sex=1 AND (intexage>=13 AND intexage<13.50) AND (bmi>=20.65 AND bmi<22.77 )
bmicat418=2.
IF sex=2 AND (intexage>=13 AND intexage<13.50) AND (bmi>=21.74 AND bmi<24.06)
bmicat418=2.
IF sex=1 AND (intexage>=13.50 AND intexage<14) AND (bmi>=21.02 AND bmi<23.17)
bmicat418=2.
IF sex=2 AND (intexage>=13.50 AND intexage<14) AND (bmi>=22.10 AND bmi<24.45 )
bmicat418=2.
IF sex=1 AND (intexage>=14 AND intexage<14.50) AND (bmi>=21.39 AND bmi<23.58)
bmicat418=2.
IF sex=2 AND (intexage>=14 AND intexage<14.50) AND (bmi>=22.45 AND bmi<24.82)
bmicat418=2.
IF sex=1 AND (intexage>=14.50 AND intexage<15) AND (bmi>=21.76 AND bmi<23.97)
bmicat418=2.
IF sex=2 AND (intexage>=14.50 AND intexage<15) AND (bmi>=22.77 AND bmi<25.16)
bmicat418=2.
IF sex=1 AND (intexage>=15 AND intexage<15.50) AND (bmi>=22.12 AND bmi<24.36)
bmicat418=2.
IF sex=2 AND (intexage>=15 AND intexage<15.50) AND (bmi>=23.08 AND bmi<25.49)
bmicat418=2.
IF sex=1 AND (intexage>=15.50 AND intexage<16) AND (bmi>=22.48 AND bmi<24.74)
bmicat418=2.
IF sex=2 AND (intexage>=15.50 AND intexage<16) AND (bmi>=23.35 AND bmi<25.78 )
bmicat418=2.
IF sex=1 AND (intexage>=16 AND intexage<16.50) AND (bmi>=22.82 AND bmi<25.09)
bmicat418=2.
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IF sex=2 AND (intexage>=16 AND intexage<16.50) AND (bmi>=23.61 AND bmi<26.05)
bmicat418=2.
IF sex=1 AND (intexage>=16.50 AND intexage<17) AND (bmi>=23.15 AND bmi<25.44)
bmicat418=2.
IF sex=2 AND (intexage>=16.50 AND intexage<17) AND (bmi>=23.84 AND bmi<26.29)
bmicat418=2.
IF sex=1 AND (intexage>=17 AND intexage<17.50) AND (bmi>=23.46 AND bmi<25.77)
bmicat418=2.
IF sex=2 AND (intexage>=17 AND intexage<17.50) AND (bmi>=24.06 AND bmi<26.52)
bmicat418=2.
IF sex=1 AND (intexage>=17.50 AND intexage<18) AND (bmi>=23.76 AND bmi<26.08)
bmicat418=2.
IF sex=2 AND (intexage>=17.50 AND intexage<18) AND (bmi>=24.25 AND bmi<26.72)
bmicat418=2.
IF sex=1 AND (intexage>=18 AND intexage<18.50) AND (bmi>=24.05 AND bmi<26.37)
bmicat418=2.
IF sex=2 AND (intexage>=18 AND intexage<18.50) AND (bmi>=24.43 AND bmi<26.91)
bmicat418=2.
IF sex=1 AND (intexage>=18.50 AND intexage<19) AND (bmi>=24.32 AND bmi<26.65)
bmicat418=2.
IF sex=2 AND (intexage>=18.50 AND intexage<19) AND (bmi>=24.60 AND bmi<27.08)
bmicat418=2.

IF sex=1 AND (intexage>=4 AND intexage<4.50) AND (bmi>=18.08) bmicat418=3.
IF sex=2 AND (intexage>=4 AND intexage<4.50) AND (bmi>=18.32) bmicat418=3.
IF sex=1 AND (intexage>=4.50 AND intexage<5) AND (bmi>=17.97) bmicat418=3.
IF sex=2 AND (intexage>=4.50 AND intexage<5) AND (bmi>=18.31) bmicat418=3.
IF sex=1 AND (intexage>=5 AND intexage<5.50) AND (bmi>=17.95) bmicat418=3.
IF sex=2 AND (intexage>=5 AND intexage<5.50) AND (bmi>=18.35) bmicat418=3.
IF sex=1 AND (intexage>=5.50 AND intexage<6) AND (bmi>=17.99) bmicat418=3.
IF sex=2 AND (intexage>=5.50 AND intexage<6) AND (bmi>=18.46) bmicat418=3.
IF sex=1 AND (intexage>=6 AND intexage<6.50) AND (bmi>=18.10) bmicat418=3.
IF sex=2 AND (intexage>=6 AND intexage<6.50) AND (bmi>=18.65) bmicat418=3.
IF sex=1 AND (intexage>=6.50 AND intexage<7) AND (bmi>=18.26) bmicat418=3.
IF sex=2 AND (intexage>=6.50 AND intexage<7) AND (bmi>=18.91) bmicat418=3.
IF sex=1 AND (intexage>=7 AND intexage<7.50) AND (bmi>=18.48) bmicat418=3.
IF sex=2 AND (intexage>=7 AND intexage<7.50) AND (bmi>=19.22) bmicat418=3.
IF sex=1 AND (intexage>=7.50 AND intexage<8) AND (bmi>=18.74) bmicat418=3.
IF sex=2 AND (intexage>=7.50 AND intexage<8) AND (bmi>=19.56) bmicat418=3.
IF sex=1 AND (intexage>=8 AND intexage<8.50) AND (bmi>=19.04) bmicat418=3.
IF sex=2 AND (intexage>=8 AND intexage<8.50) AND (bmi>=19.93) bmicat418=3.
IF sex=1 AND (intexage>=8.50 AND intexage<9) AND (bmi>=19.36) bmicat418=3.
IF sex=2 AND (intexage>=8.50 AND intexage<9) AND (bmi>=20.30) bmicat418=3.
IF sex=1 AND (intexage>=9 AND intexage<9.50) AND (bmi>=19.70) bmicat418=3.
IF sex=2 AND (intexage>=9 AND intexage<9.50) AND (bmi>=20.70) bmicat418=3.
IF sex=1 AND (intexage>=9.50 AND intexage<10) AND (bmi>=20.05) bmicat418=3.
IF sex=2 AND (intexage>=9.50 AND intexage<10) AND (bmi>=21.10) bmicat418=3.
IF sex=1 AND (intexage>=10 AND intexage<10.50) AND (bmi>=20.42) bmicat418=3.
IF sex=2 AND (intexage>=10 AND intexage<10.50) AND (bmi>=21.52) bmicat418=3.
IF sex=1 AND (intexage>=10.50 AND intexage<11) AND (bmi>=20.79) bmicat418=3.
IF sex=2 AND (intexage>=10.50 AND intexage<11) AND (bmi>=21.94) bmicat418=3.
IF sex=1 AND (intexage>=11 AND intexage<11.50) AND (bmi>=21.18) bmicat418=3.
IF sex=2 AND (intexage>=11 AND intexage<11.50) AND (bmi>=22.36) bmicat418=3.
IF sex=1 AND (intexage>=11.50 AND intexage<12) AND (bmi>=21.57) bmicat418=3.
IF sex=2 AND (intexage>=11.50 AND intexage<12) AND (bmi>=22.80) bmicat418=3.
IF sex=1 AND (intexage>=12 AND intexage<12.50) AND (bmi>=21.96) bmicat418=3.
IF sex=2 AND (intexage>=12 AND intexage<12.50) AND (bmi>=23.22) bmicat418=3.
IF sex=1 AND (intexage>=12.50 AND intexage<13) AND (bmi>=22.36) bmicat418=3.
IF sex=2 AND (intexage>=12.50 AND intexage<13) AND (bmi>=23.65) bmicat418=3.
IF sex=1 AND (intexage>=13 AND intexage<13.50) AND (bmi>=22.77) bmicat418=3.
IF sex=2 AND (intexage>=13 AND intexage<13.50) AND (bmi>=24.06) bmicat418=3.
IF sex=1 AND (intexage>=13.50 AND intexage<14) AND (bmi>=23.17) bmicat418=3.
IF sex=2 AND (intexage>=13.50 AND intexage<14) AND (bmi>=24.45) bmicat418=3.
IF sex=1 AND (intexage>=14 AND intexage<14.50) AND (bmi>=23.58) bmicat418=3.
IF sex=2 AND (intexage>=14 AND intexage<14.50) AND (bmi>=24.82) bmicat418=3.
IF sex=1 AND (intexage>=14.50 AND intexage<15) AND (bmi>=23.97) bmicat418=3.
IF sex=2 AND (intexage>=14.50 AND intexage<15) AND (bmi>=25.16) bmicat418=3.
IF sex=1 AND (intexage>=15 AND intexage<15.50) AND (bmi>=24.36) bmicat418=3.
IF sex=2 AND (intexage>=15 AND intexage<15.50) AND (bmi>=25.49) bmicat418=3.
IF sex=1 AND (intexage>=15.50 AND intexage<16) AND (bmi>=24.74) bmicat418=3.
IF sex=2 AND (intexage>=15.50 AND intexage<16) AND (bmi>=25.78) bmicat418=3.
```

```
IF sex=1 AND (intexage>=16 AND intexage<16.50) AND (bmi>=25.09) bmicat418=3.
IF sex=2 AND (intexage>=16 AND intexage<16.50) AND (bmi>=26.05) bmicat418=3.
IF sex=1 AND (intexage>=16.50 AND intexage<17) AND (bmi>=25.44) bmicat418=3.
IF sex=2 AND (intexage>=16.50 AND intexage<17) AND (bmi>=26.29) bmicat418=3.
IF sex=1 AND (intexage>=17 AND intexage<17.50) AND (bmi>=25.77) bmicat418=3.
IF sex=2 AND (intexage>=17 AND intexage<17.50) AND (bmi>=26.52) bmicat418=3.
IF sex=1 AND (intexage>=17.50 AND intexage<18) AND (bmi>=26.08) bmicat418=3.
IF sex=2 AND (intexage>=17.50 AND intexage<18) AND (bmi>=26.72) bmicat418=3.
IF sex=1 AND (intexage>=18 AND intexage<18.50) AND (bmi>=26.37) bmicat418=3.
IF sex=2 AND (intexage>=18 AND intexage<18.50) AND (bmi>=26.91) bmicat418=3.
IF sex=1 AND (intexage>=18.50 AND intexage<19) AND (bmi>=26.65) bmicat418=3.
IF sex=2 AND (intexage>=18.50 AND intexage<19) AND (bmi>=27.08) bmicat418=3.

if Interview_Age<4 or Interview_Age>=19 bmicat418=-1.

Compute bmig218=-99.
Do if Interview_Age>= 4.
    IF bmicat418>0 bmig218= bmicat418.
end if.
Do if Interview_Age< 4.
    IF bmiwho>0 bmig218= bmiwho.
end if.
if Interview_Age<2 or Interview_Age>=19 bmig218=-1.
if bmi<0 bmig218=bmi.
VARIABLE LABELS BMIg218 "(D) Children's BMI (self-reported measurements) – 3 groups".
VALUE LABELS BMIg218
 1 "Not overweight or obese"
 2 "Overweight"
 3 "Obese".
```

HeightAdjust (D) Adult adjusted height

```
SPSS Syntax

do if EstHt gt -1.
do if Sex=2.
compute HeightAdjust=1306.937 + (-22.70201*EstHt) + (0.1435429*(EstHt*EstHt))
+ (-0.0002909*(EstHt*EstHt*EstHt)) + (0.1268987*Interview_Age) + (-
0.0018125*(Interview_Age*Interview_Age)).
else if Sex=1.
compute HeightAdjust=671.3854 + (-9.75589*EstHt) + (0.0575176*(EstHt*EstHt))
+ (-0.0001032*(EstHt*EstHt*EstHt)) + (0.0930875*Interview_Age) + (-
0.0014397*(Interview_Age*Interview_Age)).
end if.
end if.
if Interview_Age<19 HeightAdjust=-1.
if EstHt<0 HeightAdjust=EstHt.
VARIABLE LABELS HeightAdjust "(D) Adult adjusted height".
```

WeightAdjust (D) Adult adjusted weight

```
SPSS Syntax

do if EstWt gt -1.
do if Sex=2.
compute WeightAdjust=16.84351 + (0.2862627*EstWt) + (0.0097277*(EstWt*EstWt))
+ (-0.0000411*(EstWt*EstWt*EstWt)) + (0.0680535*Interview Age) + (-
0.0006658*(Interview_Age*Interview_Age)).
else if Sex=1.
compute WeightAdjust=16.06849 + (0.4282873*EstWt) + (0.0063357*(EstWt*EstWt))
+ (-0.0000223*(EstWt*EstWt*EstWt)) + (0.0684319*Interview_Age) + (-
0.0005271*(Interview_Age*Interview_Age)).
end if.
end if.
if Interview_Age<19 WeightAdjust=-1.
if EstWt<0 WeightAdjust=EstWt.
VARIABLE LABELS "(D) Adult adjusted weight".
```

BMIAdjust (D) BMI – adjusted

```
SPSS Syntax

compute BMIAdjust=-99.
if HeightAdjust>0 & WeightAdjust>0
BMIAdjust=(WeightAdjust*100*100)/(HeightAdjust*HeightAdjust).
if any(-9,HeightAdjust, WeightAdjust) BMIAdjust=-9.
if any(-8, HeightAdjust, WeightAdjust) BMIAdjust=-8.
if any(-1, HeightAdjust, WeightAdjust) BMIAdjust=-1.
if Interview_Age<19 BMIAdjust=-1.
*recoding low values (<10 to -8).
do if (BMIAdjust>-1 and BMIAdjust<10).
recode BMIAdjust HeightAdjust WeightAdjust (else=-8).
end if.
VARIABLE LABELS BMIAdjust "(D) BMI – adjusted".
```

BMIg5_Adjust (D) Adult's BMI adjusted – 5 groups

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

```
SPSS Syntax

recode BMIAdjust (0 thru 18.5=1)(18.5 thru 25=2)(25 thru 30=3) (30 thru 40=4)
    (40 thru hi=5) (lo thru -1=COPY) INTO BMIg5_Adjust.
if Interview_Age<19 BMIg5_Adjust=-1.
VARIABLE LABELS BMIg5_Adjust "(D) Adult's BMI adjusted – 5 groups".
VALUE LABELS BMIg5_Adjust.
 1 "Under 18.5"
 2 "18.5 and below 25"
 3 "25 and below 30"
 4 "30 and below 40"
 5 "Over 40".
```

RPAQ

The Recent Physical Activity Questionnaire (RPAQ) data was cleaned and processed using the MRC Epidemiology Unit Syntax/Code which can be found in Appendix A for data collected Years 9-11 and Appendix B for Year 12 and this study.

Day level dietary data - nutrients

Nutrients (diet only)

FOODEKCAL: Food energy (kcal) diet only

```
SPSS Syntax

COMPUTE FoodEkcal = Energykcal-(alcoholg*7).
```

FOODEKJ: Food energy (kJ) diet only

```
SPSS Syntax

COMPUTE FoodEkj = EnergykJ-(alcoholg*29).
```

5 A Day

NOTE: In order to create the disaggregation variables at the mean/person level, each variable is aggregated in SPSS. For all of the variables below, the specified derived variable syntax is run before aggregation.

To calculate 5 A Day variables it was decided to exclude foods that fell into the 'high fat / high sugars' segment of the Eatwell Guide on the grounds that healthy eating advice is to reduce consumption of foods in this group, so it would not be appropriate to include their fruit and vegetable content in the 5 A Day estimates.

```
SPSS Syntax

SELECT IF NOT RecipeSubFoodGroupDesc = "SOFT DRINKS NOT LOW CALORIE CONCENTRATED".
SELECT IF NOT RecipeSubFoodGroupDesc = "SOFT DRINKS NOT LOW CALORIE CARBONATED".
SELECT IF NOT RecipeSubFoodGroupDesc = "SOFT DRINKS NOT LOW CALORIE RTD STILL".
SELECT IF NOT RecipeSubFoodGroupDesc = "SOFT DRINKS LOW CALORIE CONCENTRATED".
SELECT IF NOT RecipeSubFoodGroupDesc = "SOFT DRINKS LOW CALORIE CARBONATED".
SELECT IF NOT RecipeSubFoodGroupDesc = "SOFT DRINKS LOW CALORIE RTD STILL".
SELECT IF NOT RecipeSubFoodGroupDesc = "SUGAR CONFECTIONERY".
SELECT IF NOT RecipeSubFoodGroupDesc = "CHOCOLATE CONFECTIONERY".
SELECT IF NOT RecipeSubFoodGroupDesc = "BISCUITS MANUFACTURED / RETAIL".
SELECT IF NOT RecipeSubFoodGroupDesc = "BISCUITS HOMEMADE".
SELECT IF NOT RecipeSubFoodGroupDesc = "BUNS CAKES & PASTRIES MANUFACTURED".
SELECT IF NOT RecipeSubFoodGroupDesc = "BUNS CAKES & PASTRIES HOMEMADE".
SELECT IF NOT RecipeSubFoodGroupDesc = "SUGAR".
SELECT IF NOT RecipeSubFoodGroupDesc = "PRESERVES".
SELECT IF NOT RecipeSubFoodGroupDesc = "SWEET SPREADS FILLINGS AND ICING".
SELECT IF NOT RecipeSubFoodGroupDesc = "CRISPS AND SAVOURY SNACKS".
SELECT IF NOT RecipeSubFoodGroupDesc = "ICE CREAM".
EXECUTE.
```

DRIEDFRUITX3: Dried fruit g x 3

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE Driedfruitx3 = DriedFruitg * 3 .
IF (AGE <11) Driedfruitx3=-5.
EXECUTE .
VALUE LABELS Driedfruitx3 '-5' '<11 years. No current recommendations provided for this
age group'.
```

FRUITJUICEMAX: Fruit juice g (maximum 150g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

IF (Fruitjuiceg > 150) fruitjuicemax = 150 .
IF (Fruitjuiceg <= 150) fruitjuicemax = Fruitjuiceg .
IF (AGE <11) fruitjuicemax=-5.
EXECUTE .
VALUE LABELS fruitjuicemax '-5' '<11 years. No current recommendations provided for this
age group'.
```

SMOOTHIEFRUITMAX: Fruit from smoothies g (maximum 160g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

IF (SmoothieFruitg > 160) smoothiefruitmax = 160.
IF (SmoothieFruitg <= 160) smoothiefruitmax= SmoothieFruitg .
IF (AGE <11) smoothiefruitmax =-5.
EXECUTE .
VALUE LABELS smoothiefruitmax '-5' '<11 years. No current recommendations provided for
this age group'.
```

TOMPUREEX5: Tomato puree g x 5

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE Tompureex5 = TomatoPureeg * 5 .
IF (AGE <11) Tompureex5 =-5.
EXECUTE .
VALUE LABELS Tompureex5 '-5' '<11 years. No current recommendations provided for this age
group'.
```

BEANSMAX: Beans g (maximum 80g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

IF (Beansg > 80) beansmax = 80 .
IF (Beansg <= 80) beansmax = Beansg .
IF (AGE <11) beansmax=-5.
EXECUTE .
VALUE LABELS beansmax'-5' '<11 years. No current recommendations provided for this age
group'.
```

Person level dietary data

Nutrients (diet only)

FOODEKCAL: Food energy (kcal) diet only

```
SPSS Syntax

COMPUTE FoodEkcal = Energykcal-(alcoholg*7).
```

FOODEKJ: Food energy (kJ) diet only

```
SPSS Syntax

COMPUTE FoodEkj = EnergykJ-(alcoholg*29).
```

*PERCENT CONSUMERS Percentage of participants consuming this food

*Percent consumers are derived using the custom tables command in SPSS to get **Valid N** and **Total N** then divided in excel*

```
Excel calculation

Percent consumers = Valid N / Total N *100
```

Dietary reference values

Meeting recommendation variables need to be derived for Free sugars (% total energy) and AOAC (g).

```
SPSS Syntax Example 3

IF (FreesugarspctotE < 5) bloFreesugarspctotE =1 .
EXECUTE .


IF (AgeGrp16 = 1 & AOACfibreg > 15) bloAOACfibreg =1 .
IF (AgeGrp16 = 2 & AOACfibreg > 20) bloAOACfibreg =1 .
IF (AgeGrp16 = 3 & AOACfibreg > 25) bloAOACfibreg =1 .
IF (AgeGrp16 >= 4 & AOACfibreg > 30) bloAOACfibreg =1 .
EXECUTE .
```

Please note that thiamin, niacin equivalents and Vitamin B6 require new variables to be derived for comparison to the LRNIs.

```
SPSS Syntax Example 4

COMPUTE Thiaminmgper1000kcal = Thiaminmg / Energykcal * 1000 .
EXECUTE .
```

* Syntax shown as an exemplar; variable not included in DNAC dataset

Food groups (including disaggregated foods)

BEANSMAX: Beans g (maximum 80g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

IF (Beansg > 80) beansm80 = 80 .
IF (Beansg <= 80) beansm80 = Beansg .
COMPUTE  beansmax = MEAN(beansm80) .
IF (AgeGrp4 =1) beansmax=-5.
EXECUTE .
VALUE LABELS beansmax'-5' '<11 years. No current recommendations provided for this age
group'.
```

FRUITJUICEMAX: Fruit juice g (max 150g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

IF (Fruitjuiceg > 150) fruitjuicem150 = 150 .
IF (Fruitjuiceg <= 150) fruitjuicem150 = Fruitjuiceg  .
COMPUTE fruitjuicemax = MEAN(fruitjuicem150) .
IF (AgeGrp4 =1) fruitjuicemax=-5.
EXECUTE .
VALUE LABELS fruitjuicemax '-5' '<11 years. No current recommendations provided for this
age group'.
```

SMOOTHIEFRUITMAX: Fruit from smoothies g (max 160g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

IF (SmoothieFruitg > 160) smoothiefruitm160 = 160.
IF (SmoothieFruitg <= 160) smoothiefruitm160= SmoothieFruitg .
COMPUTE smoothiefruitmax = MEAN(smoothiefruitm160) .
IF (AgeGrp4 =1) smoothiefruitmax =-5.
EXECUTE .
VALUE LABELS smoothiefruitmax '-5' '<11 years. No current recommendations provided for
this age group'.
```

DRIEDFRUITX3: Dried fruit g x 3

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE Driedfruitmultx3 = DriedFruitg * 3 .
COMPUTE Driedfruitx3 = MEAN(Driedfruitmultx3) .
IF (AgeGrp4 =1) Driedfruitx3=-5.
EXECUTE .
VALUE LABELS Driedfruitx3 '-5' '<11 years. No current recommendations provided for this
age group'.
```

TOMPUREEX5: Tomato puree g x 5

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE Tompureemultx5 = TomatoPureeg * 5 .
EXECUTE .
```

```
COMPUTE Tompureex5 = MEAN(Tompureemultpx5) .
IF (AgeGrp4 =1) Tompureex5 =-5.
EXECUTE .
VALUE LABELS Tompureex5 '-5' '<11 years. No current recommendations provided for this age
group'.
```

FRUITVEGPORTIONS: Portions of fruit and vegetables (80g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE Fruitvegportions = (Fruitg + Driedfruitx3 + Tompureex5 + beansmax + Brassicaceaeg
+  YellowRedGreeng + Othervegg + Tomatoesg) / 80 .
IF (AgeGrp4 =1) Fruitvegportions =-5.
EXECUTE .
VALUE LABELS Fruitvegportions  '-5' '<11 years. No current recommendations provided for
this age group'.
```

FRUITJUICEPORTIONS: Fruit juice portions (150g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax
COMPUTE Fruitjuiceportions = fruitjuicemax / 150 .
IF (AgeGrp4 =1) Fruitjuiceportions =-5.
EXECUTE .
VALUE LABELS Fruitjuiceportions  '-5' '<11 years. No current recommendations provided for
this age group'.
```

SMOOTHIEFRUITPORTIONS: Smoothie fruit portions (160g)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE SmoothieFruitportions = smoothiefruitmax / 160.
IF (AgeGrp4 =1) SmoothieFruitportions =-5.
EXECUTE .
VALUE LABELS SmoothieFruitportions '-5' '<11 years. No current recommendations provided
for this age group'.
```

TOTFRUITVEGPORTIONS: ”5-a-day” portions (portions/day)

-5 <11 years. No current recommendations provided for this age group

```
SPSS Syntax

COMPUTE Fruitjuicesmoothieportions = Fruitjuiceportions + SmoothieFruitportions .
IF (Fruitjuicesmoothieportions > 1) Fruitjuicesmoothieportions_capped = 1.
IF (Fruitjuicesmoothieportions <= 1) Fruitjuicesmoothieportions_capped =
Fruitjuicesmoothieportions .
IF (AgeGrp4 =1) Fruitjuicesmoothieportions_capped =-5.
EXECUTE .

COMPUTE Totfruitvegportions = Fruitvegportions + Fruitjuicesmoothieportions_capped .
IF (AgeGrp4 =1) Totfruitvegportions =-5.
EXECUTE .
VALUE LABELS Totfruitvegportions  '-5' '<11 years. No current recommendations provided
for this age group'.
```

ACHIEVE5: Consuming 5 or more portions per day of fruit and vegetables

1 Yes
2 No
-5 <11 years. No current recommendations provided for this age group

SPSS Syntax

```
IF (Totfruitvegportions >= 5) Achieve5 = 1.
RECODE Achieve5 (SYSMIS=2).
IF (AgeGrp4 =1) ACHIEVE5 =-5.
EXECUTE.
VALUE LABELS  Achieve5
'1' 'Yes'
'2' 'No'
'-5' '<11 years. No current recommendations provided for this age group'.
```

TOTALVEG: Total vegetables

SPSS Syntax

```
COMPUTE totalveg = Beansg + Brassicaceaeg + OtherVegg + Tomatoesg + TomatoPureeg +
YellowRedGreeng.
```

TOTALFRUIT: Total fruit (not including juice)

SPSS Syntax

```
COMPUTE totalfruit = Fruitg + DriedFruitg + SmoothieFruitg.
```

TOTALFRUITANDVEG: Total fruit (not including juice) and vegetables

SPSS Syntax

```
COMPUTE totalfruitandveg = totalfruit + totalveg .
EXECUTE
```

TOTALFISH: Total fish (incl from composite dishes) (g)

SPSS Syntax

```
COMPUTE totalfish = WhiteFishg + OilyFishg + CannedTunag + Shellfishg.
EXECUTE .
```

TOTALREDMEAT: Total red meat (incl from composite dishes) (g)

SPSS Syntax

```
COMPUTE totalredmeat = Beefg + Burgersg + Lambg + Offalg + OtherRedMeatg + Porkg +
ProcessedRedMeatg + Sausagesg.
EXECUTE .
```

TOTALWHITEMEAT: Total white meat (incl from composite dishes) (g)

SPSS Syntax

```
COMPUTE totalwhitemeat = GameBirdsg + ProcessedPoultryg + Poultryg.
EXECUTE .
```

TOTALMEAT: Total meat (incl from composite dishes) (g)

SPSS Syntax

```
COMPUTE totalmeat = Beefg + Burgersg + Lambg + Offalg + OtherRedMeatg + Porkg +
ProcessedRedMeatg + Sausagesg + GameBirdsg + ProcessedPoultryg + Poultryg.
EXECUTE .
```

Percent contribution of food groups to nutrient intakes

Variables calculating the percentage contribution of food groups to nutrient intakes do not appear in the Food Level Dietary datasets. However, an example of the syntax used to derive these variables for the NDNS RP Yr9-11 report is provided here.

This example shows the syntax to derive the contribution of all food groups to energy intake. This syntax should be run on the Food Level Dietary datasets. For other nutrients, users should adapt the syntax used below by replacing the nutrient variable in the third line i.e. for contribution of all food groups to total fat intake replace Energy_kcal with.Fat_g and rename the derived variable throughout:

e.g. ENERGY_sum=SUM(Energykcal)

becomes

FAT_sum=SUM(Fatg)

SPSS syntax example

```
AGGREGATE
/BREAK=seriali RecipeMainFoodGroupDesc
/ENERGY_sum=SUM(Energykcal).


AGGREGATE
/BREAK=seriali DayofWeek
/Age_mean=MEAN(AgeGrp4).

AGGREGATE
/BREAK=seriali
/DayCount= DiaryDaysCompleted.

COMPUTE ENERGY_sum_Average = ENERGY_sum/ DayCount.

AGGREGATE
/OUTFILE=* MODE=ADDVARIABLES
/BREAK=seriali
/ENERGY_sum_Average_sum=SUM(ENERGY_sum_Average).

COMPUTE pcEnergykcal= (ENERGY_sum_Average/ENERGY_sum_Average_sum)*100.

SORT CASES BY seriali RecipeMainFoodGroupDesc.

CASESTOVARS
/ID=seriali
  /INDEX=RecipeMainFoodGroupDesc
  /GROUPBY=VARIABLE.

COMPUTE pcEnergykcal.CerealProducts=pcEnergykcal.PASTARICEANDOTHERCEREALS+
pcEnergykcal.WHITEBREAD+pcEnergykcal.WHOLEMEALBREAD+pcEnergykcal.BROWNGRANARYANDWHEATGERM
BREAD+pcEnergykcal.OTHERBREAD+pcEnergykcal.HIGHFIBREBREAKFASTCEREALS+pcEnergykcal.OTHERBR
EAKFASTCEREALS+pcEnergykcal.BISCUITS+pcEnergykcal.BUNSCAKESPASTRIESANDFRUITPIES+pcEnergyk
cal.PUDDINGS+pcEnergykcal.SANDWICHES.

COMPUTE
pcEnergykcal.Cheese=pcEnergykcal.CHEDDARCHEESE+pcEnergykcal.COTTAGECHEESE+pcEnergykcal.OT
HERCHEESE.

COMPUTE
pcEnergykcal.MilkProducts=pcEnergykcal.WHOLEMILK+pcEnergykcal.SEMISKIMMEDMILK+pcEnergykca
l.SKIMMEDMILK+pcEnergykcal.OnePercentFatMilk+pcEnergykcal.OTHERMILKANDCREAM+pcEnergykcal.
```

```
CHEDDARCHEESE+pcEnergykcal.COTTAGECHEESE+pcEnergykcal.OTHERCHEESE+pcEnergykcal.YOGURTFROM
AGEFRAISANDDAIRYDESSERTS+pcEnergykcal.ICECREAM

COMPUTE
pcEnergykcal.FatSpreads=pcEnergykcal.BUTTER+pcEnergykcal.REDUCEDFATSPREADPOLYUNSATURATED+
pcEnergykcal.REDUCEDFATSPREADNOTPOLYUNSATURATED+pcEnergykcal.POLYUNSATURATEDLOWFATSPREAD+
pcEnergykcal.LOWFATSPREADNOTPOLYUNSATURATED+pcEnergykcal.PUFAMARGARINEANDOILS+pcEnergykca
l.OTHERMARGARINEFATSANDOILS.

COMPUTE
pcEnergykcal.MeatProducts=pcEnergykcal.BACONANDHAM+pcEnergykcal.BEEFVEALANDDISHES+pcEnerg
ykcal.LAMBANDDISHES+pcEnergykcal.PORKANDDISHES+pcEnergykcal.COATEDCHICKEN+pcEnergykcal.CH
ICKENANDTURKEYDISHES+pcEnergykcal.LIVERANDDISHES+pcEnergykcal.BURGERSANDKEBABS+pcEnergykc
al.SAUSAGES+pcEnergykcal.MEATPIESANDPASTRIES+pcEnergykcal.OTHERMEATANDMEATPRODUCTS.

COMPUTE
pcEnergykcal.FishDishes=pcEnergykcal.WHITEFISHCOATEDORFRIED+pcEnergykcal.OTHERWHITEFISHSH
ELLFISHANDFISHDISHES+pcEnergykcal.OILYFISH.

COMPUTE
pcEnergykcal.VegetablesPotatoes=pcEnergykcal.SALADANDOTHERRAWVEGETABLES+pcEnergykcal.VEGE
TABLESNOTRAW+pcEnergykcal.CHIPSFRIEDANDROASTPOTATOESANDPOTATOPRODUCTS+pcEnergykcal.OTHERP
OTATOESPOTATOSALADSANDDISHES.

COMPUTE
pcEnergykcal.SugarPreservesConfectionery=pcEnergykcal.SUGARSPRESERVESANDSWEETSPREADS+pcEn
ergykcal.SUGARCONFECTIONERY+pcEnergykcal.CHOCOLATECONFECTIONERY.

COMPUTE
pcEnergykcal.FruitJuiceMain=pcEnergykcal.FRUITJUICE+pcEnergykcal.SMOOTHIES100PercentFRUIT
ANDORJUICE.

COMPUTE
pcEnergykcal.NonAlcoholicBeverages=pcEnergykcal.FruitJuiceMain+pcEnergykcal.SOFTDRINKSNOT
LOWCALORIE+pcEnergykcal.SOFTDRINKSLOWCALORIE+pcEnergykcal.TEACOFFEEANDWATER.

COMPUTE
pcEnergykcal.AlcoholicBeverages=pcEnergykcal.SPIRITSANDLIQUEURS+pcEnergykcal.WINE+pcEnerg
ykcal.BEERLAGERCIDERANDPERRY.

COMPUTE
pcEnergykcal.SoupManufacturedHomemade=pcEnergykcal.SOUPHOMEMADE+pcEnergykcal.SOUPMANUFACT
UREDRETAIL

COMPUTE
pcEnergykcal.Miscellaneous=pcEnergykcal.BEVERAGESDRYWEIGHT+pcEnergykcal.SoupManufacturedH
omemade+pcEnergykcal.SAVOURYSAUCESPICKLESGRAVIESANDCONDIMENTS+pcEnergykcal.COMMERCIALTODD
LERSFOODSANDDRINKS+pcEnergykcal.NUTRITIONPOWDERSANDDRINKS.

EXECUTE.
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