

NI340 YOUNG CHILDREN'S DIETARY SURVEY

No NAs

BOWEL MOVEMENTS

6 digits
Serial number label

Please keep a record of the number of bowel movements your child has each day that you keep the food record diary

On the first day that you keep a record of what your child eats write in the day in the 1st column, for example, Thursday

When your child has a bowel movement that day circle the number 1 in the 2nd column. If your child is in nappies, and when you get him or her up in the morning he or she has a dirty nappy, count that as the first bowel movement. If your child has a second bowel movement that day circle number 2, and so on

Keep a record for each of the four days, ending at midnight on the fourth day. If your child does not have a bowel movement on any day please circle the number 9 in the 3rd column.

Applies if F1=1 or F2=2 **1**
BOWEL/NA ⁴⁵ OR
each line the same.

Applies if F2=1

Day	Number of bowel movements	No bowel movements
... 1-7 day <u>DAY1</u> ⁴⁶ No NAs	1 2 3 4 5 6 7 8	NA . 9 ⁴⁷ BOWEL1
... .. day <u>DAY2</u> ⁴⁸	1 2 3 4 5 6 7 8	9 ⁴⁹ BOWEL2
... .. day <u>DAY3</u> ⁵⁰	1 2 3 4 5 6 7 8	9 ⁵¹ BOWEL3
. day <u>DAY4</u> ⁵²	1 2 3 4 5 6 7 8	9 ⁵³ BOWEL4

The interviewer will collect this sheet when she collects the completed food diary.

Thank you for your help

8

9

N1340/W1
BLOOD QUESTIONNAIRE

No NAs
6 digits
serial number label

Explain purpose and outline procedure for taking blood sample
Hand 'Information Sheet for Parents' to parent(s) - (Z1)
Explain that parent(s) will have opportunity to discuss purpose and procedure with person taking blood

REC 01 SEQ 08

B1. May I make an appointment to call back with the person who would be taking the blood sample?

B1

- Yes, willing for sample to be taken
- Yes, wishes to discuss further/
think about it
- Yes, other conditional answer
- No, outright refusal

- 54
- 1
- 2
- 3
- 4
- 5

No NAs
B2
(a)
Dental recall (T)

(a) Give reasons for refusal and specify conditional answers
Blood not mentioned as no blood taker available

not coded / keyed

B2. Applies to all "willing" or "conditional" - B1 coded 1, 2 or 3

DNA, outright refusal X
B1 = 4

Dental recall (T)

Leave 'Information Sheet' (Z1) with parent(s) and make appointment to call with blood taker

Day _____ day _____ th
Time _____ am/pm
1

not keyed or coded

VISIT WITH BLOOD TAKER

B3. Allow parent(s) to discuss purpose and procedure with blood taker

Are you willing for your child to have a blood sample taken?

Yes
No
1NA - B4
2 - (a)

B3

(a) Give reasons for refusal

~~not coded/
keyed~~

55

B4. Applies to all willing for sample to be taken

DNA, not willing X
B3 = 2 or NA

Dental recall
Ⓟ

Explain requirement for written consent
Obtain signatures on Dunn Unit consent form (Z2)

TICK

- signed by parent
- signed by witness
- signed by blood taker

~~not keyed.~~
B5

Written consent refused
1 - (a)

(a) Give reasons for refusal

~~not coded/keyed~~

56
blank or
1 - (a)

Dental recall
Ⓟ

B5. Explain purpose of GP consent form (X)
Obtain signatures on GP consent form - top and carbon

Write in code from GP consent form (range 1-5)

B5

57
NONAS
1-5

271

B6

B6. Outcome: ring code

Attempted, obtained blood

Attempted, did not obtain blood

Not attempted

58
1
NA
2
3 (a)
4-9

B7

(a) Specify reasons why blood sample not attempted.

Not coded / keyed

B7. Applies if blood sample obtained or attempted
i.e. B6 = 1 or 2

B7DNA

DNA, not attempted
i.e. B6 = 3-9
or NA

59 Dental recall (T)

60-61	62-63	64-65
Day	Month	Year
01-31	01-12	93 or 912
No NAs	No NAs	No NAs

B8

Date sample obtained/attempted: _____

B7DAY
B7MONTH
B7YEAR

B8. Time sample obtained/attempted:
(Use 24hr clock)

66-67

Hours	Mins
08-22	00-59
No NAs	No NAs

68-69

B9 B8B

B8A

B9. Number of attempts made to obtain sample:

B9

1.....	1	70 B10
2.....	2	B10
		No NAs

B10. Site of attempt(s) to obtain sample:

Specified answers:

1st attempt site.....
.....
2nd attempt site
.....

If B9 = 1 or 2 If B9 = 2

B10A ↓ ↓ B10B

	1st ⁷¹ attempt	2nd ⁷² attempt
Venepuncture - arm	1	1
Venepuncture - hand	2	2
Finger prick	3	3
Other (specify)	4	4
	5-9 NA	5-9 NA

B11. Amount of blood obtained:

Consult blood taker

B11

73 No NAs

None.....	9
Less than 1ml	8
Other (specify mls)	1-7

B12 Were there any difficulties in attempting to obtain/obtaining the sample?

B12

74

Yes, difficulties
No, no difficulties

1 (a)
2 NA Check list

(a) Specify difficulties

Not coded / keyed

GO TO CHECK LIST

Interviewer check list:			Tick
* Blood consent form	(Z2)	to blood taker	---
* GP consent form	(X)	top copy to blood taker carbon to HQ	---
* GOSH analysis card	:	complete with serial no label - to blood taker	---
* Set of serial no labels	.	to blood taker	---

Not keyed

NOW GO TO DENTAL RECALL (T)

2

2

PLEASE START A NEW PAGE FOR EACH DAY EVEN IF ONLY SOME OF THIS PAGE IS USED

22-23 24-25 26-27
DDAY MONTH DAY YEAR
01-31 01-12 92-93

TICK A BOX TO SHOW WHICH DAY THIS IS
DAY 1 2 3 4
DAYNO 13-14 1 2 3 4 No NAs

No NAs
OFF USE DAY OF WK DAY OF WEEK 01-07
TICK A BOX TO SHOW WHETHER CHILD IS WELL OR UNWELL TODAY
WELL 30 Well 1 Unwell 2

No NAs
Serial Number 31-36
DSERNO

Please use a separate line for each item eaten write in weight of plate, leave a line between different 'plate' entries

START RECORD 04
SEQUENCE 01

Time eaten am/pm MONTIME	TICK A BOX Food eaten		TICK A BOX Weighed by		D Brand name of each item in full (except for fresh produce)	E Full description of each item including - whether fresh frozen dried canned - what flavour whether sweetened - how cooked what type of fat food fried in	F If fresh fruit or veg was it home grown? TICK BOX YES/NO	G Weight served WTSERVED PLATEST GMS 07-32	H Weight of leftovers/ LEFTOVER TICK ITEM 33-36	OFFICE USE ONLY			I If any of this item was spilt or eaten by someone else and therefore not reweighed as leftovers TICK BOX - and estimate how much of the original item was lost Give details of any other problems		
	home HOME	away AWAY	mother MOTHER	other OTHER						Est. weight? Tick if YES/37	BRAND Brand 38-41	FOODCODE Food 42-45		46 SALARE Yes	
22-23 0000 2359	blank or 1	2	blank or 1	2			blank or 1	2	1-9999 No NAs	1-9999 or blank ✓=1	✓=1 or blank	1-9999 or blank 1	1-9999	or blank 1	END RECORD 04 SEQUENCE 01
or blank	1	2	1	2			1	2	No NAs	✓=1	or blank	No NAs	1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		
	1	2	1	2			1	2					1		

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Appendix I

SIR and SPSS derived variable specifications

Toddlers' Nutrition - Table of Derived Variables

NB All derived variables (except for FDNAME) will be held as integers on the SIR database. This means that weights will have to be divided by an appropriate factor to give decimal places, these are indicated on the specification for each DV. For certain DVs calculations are made to a specified level of accuracy (noted on this table), however answers are then rounded to the number of decimal places required for reporting purposes.

variable name	source DVS	level	rec types	comments
PAB Edit Derived Variables - MAIN				
AGE2		Toddler	1	de jure age in months at time of interview (INTAGE)
AGE3		Toddler	1	de jure age in months at time of weight measurement (M1AGE)
AGE4		Toddler	1	de jure age in months at time of head circumference measurement (M2AGE)
AGE5		Toddler	1	de jure age in months at time of upper arm circumference measurement (M3AGE)
AGE6		Toddler	1	de jure age in months at time of standing height measurement (M4AGE)
AGE7		Toddler	1	de jure age in months at time of supine length measurement (M5AGE)
F14 Matrix Derived Variables - MAIN				
MUMSOCL		Toddler	1, 50	social class of mother
MUMSEG		Toddler	1, 50	socio-economic group of mother
DADSOCL		Toddler	1, 50	social class of father
DADSEG		Toddler	1, 50	socio-economic group of father

Author Sally Gale

Date 28 March 1994

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
Nutritionist Edit Derived Variables - DIARY				
WTLEFT		Plate	3	Weight of leftovers (calculated to an accuracy of 1 decimal place)
WTEATEN	WTLEFT	Item	3, 4	Weight eaten (calculated to an accuracy of 1 decimal place)
NUTF01 to NUTF54	WTEATEN	Item	4, 30	nutrient intake for food item (9 digits, 5 decimal places)
FOODGRPC		Item	4, 30	Subsidiary Food Group count
FDNAME		Item	4, 30	Food name (first 34 characters)
TDNUTS01 to TDNUTS54	FOODGRPC NUTF01 to NUTF54	Day	2, 4	total daily intake of each of 54 nutrients (with supps) (calculated to an accuracy of 5 decimal places)
TDNUT01 to TDNUT54	FOODGRPC NUTF01 to NUTF54	Day	2, 4	total daily intake of each of 54 nutrients (no supps) (calculated to an accuracy of 5 decimal places)

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
Post Edit Derived Variables - MAIN				
REGION		Toddler	1	Standard region - see SIU table
AGE1		Toddler	1	de facto age at midpoint of interview period - nominal age of child
HCOMP1	HCOMP2	Toddler	1, 20	household composition - condensed
HCOMP2		Toddler	1, 20	household composition
FTYPE1		Toddler	1, 20	sampled child's family unit type
FTYPE2	FTYPE1	Toddler	1, 20	sampled child's family unit type - condensed
NOCHLT5		Toddler	1, 20	number of children aged under 5 in household
NOCHLT16		Toddler	1, 20	number of children aged under 16 in household
AGECLT2		Toddler	1, 20	age of oldest child under 2
AGECLT3		Toddler	1, 20	age of oldest child under 3
AGECLT4		Toddler	1, 20	age of oldest child under 4
AGECLT5		Toddler	1, 20	age of oldest child under 5
AGECLT9		Toddler	1, 20	age of oldest child under 9
AGECLT11		Toddler	1, 20	age of oldest child under 11
AGECLT16		Toddler	1, 20	age of oldest child under 16
M1INVAL		Toddler	1, 20	Whether child's weight unacceptable
M2INVAL		Toddler	1, 20	Whether child's head circumference unacceptable
M3INVAL		Toddler	1, 20	Whether child's upper arm circumference unacceptable
M4INVAL		Toddler	1, 20	Whether child's standing height unacceptable
M5INVAL		Toddler	1, 20	Whether child's supine length unacceptable
DAYSAFTR		Toddler	1, 2	No of days between last day of diary and taking of blood sample

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
Post Edit Derived Variables - DIARY				
Group 1 (Record 2 and 21)				
TDNUTS55	TDNUTS03 TDNUTS54	Day	2	Total daily intake of Intrinsic and milk sugars and starch (with supps)
TDNUTS56	TDNUTS36 TDNUTS37	Day	2	Total daily intake of Cis-poly unsaturated fatty acids (with supps)
TDNUTS57	TDNUTS34 TDNUTS35 TDNUTS38 TDNUTS56	Day	2	Total daily intake of total fatty acids (with supps)
TDFD001 to TDFD106	FOODGRPC WTEATEN	Day	2, 4	Total daily amount of food consumed in each food sub group (calculated to an accuracy of 2 decimal places)
WEEKEND		Toddler DV	21, 2	Weekend (Saturday/Sunday) indicator.
Group 2 (Record 21)				
ADFSG011 to ADFSG018 ADFSG027 ADFSG075 ADFSG078 to ADFSG083 ADFSG085	FOODGRPC WEEKEND	Toddler DV	21, 4	Average Daily Frequency of consumption of sugary foods in food subgroups 7R, 8A, 8R, 9A, 9B, 9D, 9C, 9R, 15R, 40E, 41A, 41B, 41R, 43R, 44R, 45R, 46A.
Group 3 (Record 21)				
WKFD001 to WKFD106	TDFD001 to TDFD106 WEEKEND	Toddler DV	21, 4	Total amount of food from each food subgroup consumed in 7 days (calculated to an accuracy of 2 decimal places)
Group 4 (Record 21)				
ADSUG011 to ADSUG018 ADSUG027 ADSUG075 ADSUG078 to ADSUG083 ADSUG085	WKFD011 to WKFD018 WKFD027 WKFD075 WKFD078 to WKFD083 WKFD085	Toddler DV	21	ADI of Sugary Food in food subgroups 7R, 8A, 8R, 9A, 9B, 9D, 9C, 9R, 15R, 40E, 41A, 41B, 41R, 43R, 44R, 45R, 46A

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
Group 5 (Record 21)				
ADNUTS01 to ADNUTS54	TDNUTS01 to TDNUTS54 WEEKEND	Toddler DV	21, 4	ADI of each of 54 nutrients (with supps) (calculated to an accuracy of 5 decimal places)
ADNUTS55	ADNUTS03 ADNUTS54	Toddler DV	21	ADI of Intrinsic and milk sugars and starch (with supps)
ADNUTS56	ADNUTS36 ADNUTS37	Toddler DV	21	ADI of Cis-polyunsaturated fatty acids (with supps)
ADNUTS57	ADNUTS34 ADNUTS35 ADNUTS38 ADNUTS56	Toddler DV	21	ADI of Total fatty acids (with supps)
ADNUT01 to ADNUT54	TDNUT01 to TDNUT54 WEEKEND	Toddler DV	21, 4	ADI of each of 54 nutrients (no supps) (calculated to an accuracy of 5 decimal places)
Group 6 (Record 21)				
EFAT	ADNUTS08 ADNUTS05	Toddler DV	21	% energy from total fat from food consumed in seven days (with supps)
EPROTEIN	ADNUTS07 ADNUTS05	Toddler DV	21	% energy from protein from food consumed in seven days (with supps)
ECARBOHY	ADNUTS09 ADNUTS05	Toddler DV	21	% energy from carbohydrate from food consumed in seven days (with supps)
ESTARCH	ADNUTS03 ADNUTS05	Toddler DV	21	% energy from starch from food consumed in seven days (with supps)
ESUGARS	ADNUTS02 ADNUTS05	Toddler DV	21	% energy from total sugars from food consumed in seven days (with supps)
EN3PUFA	ADNUTS36 ADNUTS05	Toddler DV	21	% energy from cis n-3 polyunsaturated fatty acids from food consumed in seven days (with supps)
EN6PUFA	ADNUTS37 ADNUTS05	Toddler DV	21	% energy from cis n-6 polyunsaturated fatty acids from food consumed in seven days (with supps)

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
EPOLYUNS	ADNUTS36 ADNUTS37 ADNUTS05	Toddler DV	21	% energy from cis-polyunsaturated fatty acids from food consumed in seven days (with supps)
EMONUNS	ADNUTS35 ADNUTS05	Toddler DV	21	% energy from mono-unsaturated fatty acids from food consumed in seven days (with supps)
ESATFAT	ADNUTS34 ADNUTS05	Toddler DV	21	% energy from saturated fatty acids from food consumed in seven days (with supps)
ENMES	ADNUTS53 ADNUTS05	Toddler DV	21	% energy from non-milk extrinsic sugars from food consumed in seven days (with supps)
ENMESSS	ADNUTS55 ADNUTS05	Toddler DV	21	% energy from intrinsic and milk sugars and starch from food consumed in seven days (with supps)
ETRANSFA	ADNUTS38 ADNUTS05	Toddler DV	21	% energy from trans fatty acids from food consumed in seven days (with supps)
Group 7 (Record 21)				
REQUIV	ADNUT21 ADNUT22	Toddler DV	21	Retinol equivalentents (no supps)
REQUIVS	ADNUTS21 ADNUTS22	Toddler DV	21	Retinol equivalentents (with supps)
Group 8 (Record 21)				
PSRAT	ADNUTS56 ADNUTS34	Toddler DV	21	Polyunsaturated: Saturated Fat Ratio from food consumed in seven days (with supps)
IRONRATS	ADNUTS51 ADNUTS52	Toddler DV	21	haem:non-haem iron ratio from food consumed in seven days (with supps)
IRONRAT	ADNUT51 ADNUT52	Toddler DV	21	haem:non-haem iron ratio from food consumed in seven days (no supps)
Group 9 (Record 22 and 23)				
AN02S001 to AN02S106	ADNUTS02	Toddler DV	22	ADI of total sugars from each food subgroup (with supps)
AN03S001 to AN03S106	ADNUTS03	Toddler DV	22	ADI of starch from each food subgroup (with supps)

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
AN05S001 to AN05S106	ADNUTS05 HOMEAWAY	Toddler DV	22	ADI of energy (kcal) from each food subgroup (with supps)
AN06S001 to AN06S106	ADNUTS06 HOMEAWAY	Toddler DV	22	ADI of energy (KJ) from each food subgroup (with supps)
OT05S001 to OT05S106	ADNUTS05 HOMEAWAY	Toddler DV	22	ADI of energy (kcal) from each food subgroup (with supps), eaten away from home
OT06S001 to OT06S106	ADNUTS06 HOMEAWAY	Toddler DV	22	ADI of energy (KJ) from each food subgroup (with supps), eaten away from home
AN07S001 to AN07S106	ADNUTS07	Toddler DV	22	ADI of protein from each food subgroup (with supps)
AN08S001 to AN08S106	ADNUTS08	Toddler DV	22	ADI of total fat from each food subgroup (with supps)
AN09S001 to AN09S106	ADNUTS09	Toddler DV	23	ADI of carbohydrate from each food subgroup (with supps)
AN12S001 to AN12S106	ADNUT12	Toddler DV	23	ADI of potassium from each food subgroup (no supps)
AN13S001 to AN13S106	ADNUT13	Toddler DV	23	ADI of calcium from each food subgroup (no supps)
AN14S001 to AN14S106	ADNUT14	Toddler DV	23	ADI of magnesium from each food subgroup (no supps)
AN16S001 to AN16S106	ADNUT16	Toddler DV	23	ADI of iron from each food subgroup (no supps)
AN17S001 to AN17S106	ADNUT17	Toddler DV	23	ADI of copper from each food subgroup (no supps)
AN18S001 to AN18S106	ADNUT18	Toddler DV	23	ADI of zinc from each food subgroup (no supps)
AN21S001 to AN21S106	ADNUT21 ADNUT22	Toddler DV	23	ADI of retinol equivalents from each food subgroup (no supps)

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Toddlers' Nutrition -- Table of Derived Variables

variable name	source DVS	level	rec types	comments
AN22S001 to AN22S106	ADNUT22	Toddler DV	23	ADI of carotene from each food subgroup (no supps)
Group 10 (Record 24 and 25)				
AN23S001 to AN23S106	ADNUT23	Toddler DV	24	ADI of vitamin D from each food subgroup (no supps)
AN25S001 to AN25S106	ADNUT25	Toddler DV	24	ADI of riboflavin from each food subgroup (no supps)
AN27S001 to AN27S106	ADNUT27	Toddler DV	24	ADI of vitamin C from each food subgroup (no supps)
AN28S001 to AN28S106	ADNUT28	Toddler DV	24	ADI of vitamin E from each food subgroup (no supps)
AN29S001 to AN29S106	ADNUT29	Toddler DV	24	ADI of vitamin B6 from each food subgroup (no supps)
AN30S001 to AN30S106	ADNUT30	Toddler DV	24	ADI of vitamin B12 from each food subgroup (no supps)
AN31S001 to AN31S106	ADNUT31	Toddler DV	24	ADI of folate from each food subgroup (no supps)
AN34S001 to AN34S106	ADNUTS34	Toddler DV	24	ADI of saturated fatty acids from each food subgroup (with supps)
AN35S001 to AN35S106	ADNUTS35	Toddler DV	24	ADI of cis monounsaturated fatty acids from each food subgroup (with supps)
AN36S001 to AN36S106	ADNUTS36	Toddler DV	25	ADI of cis n-3 polyunsaturated fatty acids from each food subgroup (with supps)
AN37S001 to AN37S106	ADNUTS37	Toddler DV	25	ADI of cis n-6 polyunsaturated fatty acids from each food subgroup (with supps)
AN38S001 to AN38S106	ADNUTS38	Toddler DV	25	ADI of trans fatty acids from each food subgroup (with supps)
AN39S001 to AN39S106	ADNUTS39	Toddler DV	25	ADI of cholesterol from each food subgroup (with supps)

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Toddlers' Nutrition - Table of Derived Variables

variable name	source DVS	level	rec types	comments
AN46S001 to AN46S106	ADNUTS46	Toddler DV	25	ADI of NSP from each food subgroup (with supps)
AN51S001 to AN51S106	ADNUT51	Toddler DV	25	ADI of haem iron from each food subgroup (no supps)
AN52S001 to AN52S106	ADNUT52	Toddler DV	25	ADI of non-haem iron from each food subgroup (no supps)
AN53S001 TO AN53S106	ADNUTS53	Toddler DV	25	ADI of non-milk extrinsic sugars from each food subgroup (with supps)
AN15S001 TO AN15S106	ADNUT15	Toddler DV	26	ADI of phosphorous from each food subgroup (no supps)
AN20S001 to AN20S106	ADNUT20	Toddler DV	26	ADI of iodine from each food subgroup (no supps)

1. Derived Variable: REGION

Level Toddler (household).
 Description Standard Region

a. Variables used.

1 Case level
 CASEID

b Specification

Use first three characters of serial number to look up
 Region on table supplied by SIU

2. Derived Variable: AGE1

Level Toddler (household)
 Description de facto age at midpoint of interview period -
 nominal age of child

a Variables used

1 Record 1

b Specification

Subtract date of birth from midpoint date to give
 AGE1

3. Temporary Variable: ADULTCT

Level Toddler (household)
 Description Total number of adults in Toddler's
 household

Temporary Variable: CHILDC

Level Toddler (household)
 Description Total number of children in Toddler's
 household

Temporary Variables: LT2AGE
 LT3AGE
 LT4AGE
 LT5AGE
 LT9AGE
 LT11AGE
 LT16AGE

a Variables used

1 Record 20 (Household Box)

AGE

b. Specification.

```
SET ADULTCT LT2AGE LT3AGE LT4AGE LT5AGE LT9AGE LT11AGE
LT16AGE(0)
SET CHILDCT (1)
```

```
IF CAGE LT 16 LT16AGE = CAGE
IF CAGE LT 11 LT11AGE = CAGE
IF CAGE LT 9 LT9AGE = CAGE
IF CAGE LT 5 LT5AGE = CAGE
IF CAGE LT 4 LT4AGE = CAGE
IF CAGE LT 3 LT3AGE = CAGE
IF CAGE LT 2 LT2AGE = CAGE
```

For each person record:

```
  Ifthen AGE GE 16
    ADULTCT = ADULTCT + 1
  Else
    CHILDCT = CHILDCT + 1
    If AGE GT LT16AGE LT16AGE = AGE
    If AGE LT 11
      If AGE GT LT11AGE LT11AGE = AGE
    If AGE LT 9
      If AGE GT LT9AGE LT9AGE = AGE
    If AGE LT 5
      If AGE GT LT5AGE LT5AGE = AGE
    If AGE LT 4
      If AGE GT LT4AGE LT4AGE = AGE
    If AGE LT 3
      If AGE GT LT3AGE LT3AGE = AGE
    If AGE LT 2
      If AGE GT LT2AGE LT2AGE = AGE
  Endif
```

4. Temporary Variables: NOINCFAM
CHILDFACT

Level: Toddler (family)
Description Total number of other people in Toddler's family/children in Toddler's family

Temporary Variables: DADMS
MUMMS

Level Toddler.
Description Marital status of toddler's father/mother

a Variables used
1. Record 1 (Toddler)
CFAMUNIT
11 Record 20 (Household Box)
FAMUNIT
MARSTAT
RELTOCH

b Specification

SET NOINCFAM (0)
SET DADMS MUMMS (0)
SET CHILDFACT (1)

For each person record.

If FAMUNIT = CFAMUNIT
SET NOINCFAM = NOINCFAM + 1

If RELTOCH = 2
COMPUTE DADMS = MARSTAT
Elseif RELTOCH = 1
COMPUTE MUMMS = MARSTAT
End if

If AGE LT 16 SET CHILDFACT = CHILDFACT + 1

5. Variable: HCOMP2.
Level: Toddler
Description Household Composition

a Variables used
1. Temporary
ADULTCT
CHILDCT

b Specification

```

If ADULTCT = 1
  If CHILDCT = 1 SET HCOMP2 (1)
  Elseif CHILDCT = 2 SET HCOMP2 (2)
  Else SET HCOMP2 (3)
Else if ADULTCT = 2
  If CHILDCT = 1 SET HCOMP2 (4)
  Elseif CHILDCT = 2 SET HCOMP2 (5)
  Else SET HCOMP2 (6)
Else
  If CHILDCT = 1 SET HCOMP2 (7)
  Elseif CHILDCT = 2 SET HCOMP2 (8)
  Else SET HCOMP2 (9)

```

6. Variable: HCOMP1.
 Level: Toddler (household).
 Description: Household Composition.
- a. Variables used:
 - i. Record 1 (Toddler)
HCOMP2
 - b. Specification.

```

If HCOMP2 = 1 OR 2 OR 3 SET HCOMP1 (1)
Else if HCOMP2 = 4 OR 5 OR 6 SET HCOMP1 (2)
Else SET HCOMP1 (3)

```

7. Variable: FTYPE1.
 Level Toddler (household)
 Description Family Composition
- a. Variables used
1. Temporary
 MUMMS
 DADMS
 CHILDFCT
 NOINCFAM
- b Specification
- ```

If (MUMMS = 1 OR 2) AND (DADMS = 1 OR 2)
 If CHILDFCT = 1 SET FTYPE1 (1)
 Else if CHILDFCT = 2 SET FTYPE1 (2)
 Else SET FTYPE1 (3)
Else (DADMS = 0)
 If CHILDFCT = 1 SET FTYPE1 (4)
 Else if CHILDFCT = 2 SET FTYPE1 (5)
 Else SET FTYPE1 (6)
Else (MUMMS = 0)
 If CHILDFCT = 1 SET FTYPE1 (7)
 Else if CHILDFCT = 2 SET FTYPE1 (8)
 Else SET FTYPE1 (9)
Else if (MUMMS = 0) and (DADMS = 0) and (NOINCFAM = 0)
 SET FTYPE1 (10)
Else SET FTYPE1 (Error)

```
8. Variable: FTYPE2.  
 Level Toddler (household)  
 Description Family Composition
- a Variables used
- 1 Record 1 (Toddler)  
 FTYPE1
  - 11 Temporary  
 MUMMS
- b Specification
- ```

If FTYPE1 = 1 OR 2 OR 3 SET FTYPE2 (1)
Else if FTYPE1 = 7 OR 8 OR 9 SET FTYPE2 (2)
Else if FTYPE1 = 4 OR 5 OR 6
  If MUMMS = 1 OR 2 SET FTYPE2 (3)
  Else if MUMMS = 3 SET FTYPE2 (4)
  Else SET FTYPE2 (5)
Else if FTYPE1 = 10 SET FTYPE2 (6)
Else SET FTYPE2 (Error)
    
```

9. Variable: M1INVAL.
Level: Toddler (household).
Description: Whether child's weight unacceptable.
- a. Variables used:
i. Record 1 (Toddler)
M1EM1-M3
- b. Specification:
If M1EM1-M3 = 1 OR 3 OR 4 OR 5 OR 6 SET M1INVAL (1)
10. Variable: M2INVAL.
Level: Toddler (household).
Description: Whether child's head circumference unacceptable.
- a. Variables used:
i. Record 1 (Toddler)
M2DM1-M3
- b. Specification:
If M2DM1-M3 = 1 OR 2 OR 5 OR 7 SET M2INVAL (2)
11. Variable: M3INVAL.
Level: Toddler (household).
Description: Whether child's upper arm circumference unacceptable.
- a. Variables used:
i. Record 1 (Toddler)
M3DM1-M3
- b. Specification:
If M3DM1-M3 = 1 OR 5 OR 7 SET M3INVAL (3)

12. Variable: M4INVAL.
 Level Toddler (household)
 Description Whether child's standing height unacceptable
- a Variables used
 1 Record 1 (Toddler)
 M4EM1-M4
- b Specification
 If M4EM1-M4 GE 1 AND LE 7 SET M4INVAL (4)
13. Variable: M5INVAL.
 Level Toddler (household).
 Description Whether child's supine length unacceptable
- a Variables used
 1 Record 1 (Toddler)
 M5EM1-M4
- b. Specification
 If M5EM1-M4 = GE 1 AND LE 7 SET M5INVAL (5)
14. Variable: DAYSAFTR.
 Level Toddler (household)
 Description Number of days between last day of diary and date of blood sample.
- a. Variables used
 1 Record 1 (Toddler)
 B7DAY B7MONTH B7YEAR
 11 Record 2 (Day)
 DDAY DMONTH DYEAR
- b. Specification.
 Convert B7DAY/B7MONTH/B7YEAR to days B7DAYS
 Read the last Day record
 convert DDAY/DMONTH/DYEAR to days DDAYS
 If no Diary records DAYSAFTR (-9)
 else DAYSAFTR = B7DAYS - DDAYS

Group 1 Day Level Derived Variables

1. Variable: TDNUTS55.
Level Day
Description Total daily intake of ~~intrinsic milk sugars~~
and starch with supps

* held as an integer - divide by 10000 to get 4 decimal places

a Variables used

- 1 Record 2 (Day)
TDNUTS03
TDNUTS54

b Specification

TDNUTS55 = TDNUTS54 + TDNUTS03
else no record 2 = -9

2. Variable: TDNUTS56.
Level Day
Description Total daily intake of Cis-polyunsaturated
fatty acids with supps

* held as an integer - divide by 10000 to get 4 decimal places

a Variables used

- 1 Record 2 (Day)
TDNUTS36
TDNUTS37

b Specification

TDNUTS56 = TDNUTS36 + TDNUTS37
else no record 2 = -9

3. Variable: TDNUTS57.
Level: Day.
Description: Total daily intake of total fatty acids with
supps.
* held as an integer - divide by 10000 to get 4 decimal
places
- a. Variables used:
- i. Record 2 (Day)
TDNUTS34
TDNUTS35
TDNUTS38
TDNUTS56
- b. Specification.
- TDNUTS57 = TDNUTS34 + TDNUTS35 + TDNUTS38 + TDNUTS56
else no record 2 = -9

4. Variable: TDFD001 TO TDFD106
 Level Day
 Description Total daily amount of food consumed by
 type/group/subgroup
 * held as an integer - divide by 10 to get 1 decimal place

a Variables used

1 Record 4 (Food Item)
 FOODGRPC
 WTEATEN

b Specification

```

Ifthen FOODGRPC = 0
Else            TDFD001 to TDFD106 (FOODGRPC) =
                TDFD001 to TDFD106 (FOODGRPC) + (WTEATEN * DILUTE)
Else no record 2 = -9
Endif
  
```

5. Variable: WEEKEND
 Level Toddler DV
 Description Weekend (Saturday/Sunday) indicator

a Variables used

1 Record 2 (Day)
 DAYOFWK

b Specification

```

If any DAYOFWK = 01 AND any DAYOFWK = 07 DAYOFWK=1 WEEKEND=1
Elseif any DAYOFWK = 01                                    WEEKEND=2
Elseif any DAYOFWK = 07                                    WEEKEND=3
Elseif no record 2s                                         WEEKEND=-9
Else                                                            WEEKEND=0
Endif
  
```

Group 2: Toddler Level DVs
(Frequency of eating Sugary Foods)

6. In flight Variable: WEFSG011 TO WEFSG018, WEFSG027, WEFSG075,
WEFSG078 TO WEFSG083, WEFSG085
WDFSG011 TO WDFSG018, WDFSG027, WDFSG075,
WDFSG078 TO WDFSG083, WDFSG085

Level: Toddler DV
Description: Weekend and Weekday Frequency of consumption
of sugary foods.

- a. Variables used:
i. Record 2 (Day)
DAYOFWK
ii. Record 4 (Food Item)
FOODGRPC

b. Specification.

At start of case, set WEFSG011, WDFSG011 (0)

For each foodcode:

```
  Ifthen FOODGRPC = 11
    Ifthen DAYOFWK = 01 or 07
      WEFSG011 = WEFSG011 + 1
    Else
      WDFSG011 = WDFSG011 + 1
  elseif FOODGRPC = 12 ....
```

7. Variable: ADFSG011 TO ADFSG018, ADFSG027, ADFSG075, ADFSG078
TO ADFSG083, ADFSG085

Level: Toddler DV
Description: Average Daily Frequency of consumption of
sugary foods.

* held as an integer - divide by 10 to get 1 decimal place

- a. Variables used:
i. In Flight
WEFSG011 TO WEFSG018, WEFSG027, WEFSG075, WEFSG078
TO WEFSG083, WEFSG085
WDFSG011 TO WDFSG018, WDFSG027, WDFSG075, WDFSG078
TO WDFSG083, WDFSG085

b Specification

If 4 day diary

Ifthen WEEKEND = 1

ADFSG011 = (WEFSG011 + (WDFSG011 * 2 5))/7

ADFSG012

Elseif WEEKEND = 2 or 3

ADFSG011 = ((WEFSG011 * 2) + (WDFSG011 * 5/3))/7

ADFSG012

Else ADFSG011 = -6

ADFSG012

Elseif 3 day diary

Ifthen WEEKEND = 1

ADFSG011 = (WEFSG011 + (WDFSG011 * 5))/7

ADFSG012

Elseif WEEKEND = 2 or 3

ADFSG011 = ((WEFSG011 * 2) + (WDFSG011 * 2 5))/7

ADFSG012

Else ADFSG011 = -6

ADFSG012

Elseif no record 2s

ADFSG011 = -9

ADFSG012

Else ADFSG011 = -6

ADFSG012

Group 3: Toddler Level DVs
(Food Consumed in Seven Days by Food Subgroup)

8. In flight Variables: WEFD001 TO WEFD106,
WDFD001 TO WDFD106.
Level: Toddler.
Description: Total amount of food type/group/subgroup
consumed on weekends and weekdays.
- a. Variables used:
- i. Record 2 (Day)
TDFD001 to TDFD106
DAYOFWK
- b. Specification.
For each day record:
Ifthen DAYOFWK = 1 or 7 COMPUTE WEFD001 to WEFD106 =
TDFD001 to TDFD106
Else COMPUTE WDFD001 to WDFD106 =
TDFD01 to TDFD106
Endif
9. Variable: WKFD001 TO WKFD106.
Level: Toddler.
Description: Total amount of food type/group/subgroup
consumed in seven days.
* held as an integer - divide by 10 to get 1 decimal place
- a. Variables used:
- i. In flight Variables:
WEFD001 TO WEFD106,
WDFD001 TO WDFD106.
- ii. Record 2 (Day)
WEEKEND

b Specification

At the end of all day records

If 4 day diary

 Ifthen WEEKEND = 1

 COMPUTE WKFD001 to WKFD106 = (WEFD001 to WEFD106 +
 (WDFD001 to WDFD106 * 2 5))

 Elseif WEEKEND = 2 or 3

 COMPUTE WKFD001 to WKFD106 =
 ((WEFD001 to WEFD106 * 2) + (WDFD001 to WDFD106 * 5/3))

 Else COMPUTE WKFD001 to WKFD106 = -6

Elseif 3 day diary

 Ifthen WEEKEND = 1

 COMPUTE WKFD001 to WKFD106 =
 ((WEFD001 to WEFD106 + (WDFD001 to WDFD106 * 5))

 Elseif WEEKEND = 2 or 3

 COMPUTE WKFD001 to WKFD106 =
 ((WEFD001 to WEFD106 * 2) + (WDFD001 to WDFD106 * 2 5))

 Elseif no record 2s

COMPUTE WKFD001 to WKFD106 = -9

 Else COMPUTE WKFD001 to WKFD106 = -6

Else

 COMPUTE WKFD001 to WKFD106 = -6

Group 4: Toddler Level DVs
(Average Daily Sugary Food Intake)

10. Variable: ADSUG011 TO ADSUG018, ADSUG027, ADSUG075,
ADSUG078 TO ADSUG083, ADSUG085
Level: Toddler DV
Description: Average Daily Intake of sugary foods.
* held as an integer - divide by 10 *to get* decimal place
- a. Variables used:
i. Record 21 (Toddler DV)
- WKFD011 TO WKFD018,
WKFD027,
WKFD075,
WKFD078 TO WKFD083,
WKFD085
- b. Specification.
ADSUG011 = WKFD011/7
ADSUG012
if no record 2s
 ADSUG011 = -9
 ADSUG012
else ADSUG011 = -6
 ADSUG012

Group 5 Toddler Level DVs
(Average Daily Nutrient Intake)

11. In flight Variables: WENUTS01 to WENUTS54,
WDNUTS01 to WDNUTS54.

Level	Toddler
Description	Total nutrient intake for weekends and weekdays

- a Variables used
1 Record 21 (Toddler)
TDNUTS01 to TDNUTS54

- b Specification

For each day record

Ifthen DAYOFWK = 01 or 07

COMPUTE WENUTS01 to WENUTS54 = WENUTS01 to WENUTS54 +
TDNUTS01 to TDNUTS54

Else COMPUTE WDNUTS01 to WDNUTS54 = WDNUTS01 to WDNUTS54 +
TDNUTS01 to TDNUTS54

Endif

12. Variable: ADNUTS01 TO ADNUTS54.
Level Toddler DV
Description Average daily nutrient intake including supplements

* held as an integer - divide by 10000 to get 4 decimal places

- a Variables used
1 Record 2 (Day)
TDNUTS01 to TDNUTS54
WEEKEND
DAYOFWK

```
b. Specification.
At the end of all day records:
If 4 day diary
  Ifthen WEEKEND = 1
    COMPUTE ADNUTS01 to ADNUTS54 =
      ((WENUTS01 to WENUTS54 + (WDNUTS01 to WDNUTS54 * 2.5))/7

    Elseif WEEKEND = 2 or 3
      COMPUTE ADNUTS01 to ADNUTS54 =
        ((WENUTS01 to WENUTS54 * 2) + (WDNUTS01 to WDNUTS54 * 5/3))/7

    Else COMPUTE ADNUTS01 to ADNUTS54 = -6

Elseif 3 day diary
  Ifthen WEEKEND = 1
    COMPUTE ADNUTS01 to ADNUTS54 =
      ((WENUTS01 to WENUTS54 + (WDNUTS01 to WDNUTS54 * 5))/7

    Elseif WEEKEND = 2 or 3
      COMPUTE ADNUTS01 to ADNUTS54 =
        ((WENUTS01 to WENUTS54 * 2) + (WDNUTS01 to WDNUTS54 * 2.5))/7

    Else COMPUTE ADNUTS01 to ADNUTS54 = -6
Elseif no record 2s
  COMPUTE ADNUTS01 to ADNUTS54 = -9
Else
  COMPUTE ADNUTS01 to ADNUTS54 = -6
```

13. Variable: ADNUTS55.
 Level Toddler
 Description Average daily intake of intrinsic milk sugars
 and starch with supps
 *held as an integer - divide by 10000 to get 4 decimal places

a Variables used

1 Record 21 (Toddler)
 ADNUTS03
 ADNUTS54

b Specification

 ADNUTS55 = ADNUTS54 + ADNUTS03
 NB If no record 2s, ADNUTS55 = -9
 ELSE ADNUTS55 = -6

14. Variable: ADNUTS56.
 Level Toddler
 Description Average daily intake of Cis-polyunsaturated
 fatty acids with supps

* held as an integer - divide by 10000 to get 4 decimal places

a Variables used

1 Record 21 (Toddler)
 ADNUTS36
 ADNUTS37

b Specification

 ADNUTS56 = ADNUTS36 + ADNUTS37
 NB If no record 2s, ADNUTS56 = -9
 ELSE ADNUTS56 = -6

15. Variable: ADNUTS57.
 Level Toddler
 Description Average daily intake of total fatty acids with
 supps

* held as an integer - divide by 10000 to get 4 decimal places

a Variables used

1 Record 21 (Toddler)
 ADNUTS34
 ADNUTS35
 ADNUTS38
 ADNUTS56

b. Specification.

ADNUTS57 = ADNUTS34 + ADNUTS35 + ADNUTS38 + ADNUTS56
NB If no record 2s, ADNUTS57 = -9
ELSE ADNUTS57 = -6

16. In flight Variables: WENUT01 to WENUT54,
WDNUT01 to WDNUT54.

Level: Toddler.

Description: Total nutrient intake for weekends and
weekdays.

* held as an integer, divide by 10000 to get 4 decimal places

c. Variables used:

- i. Record 21 (Toddler)
TDNUT01 to TDNUT54.
OFNUT06

d. Specification.

For each day record:

Ifthen DAYOFWK = 01 or 07

COMPUTE WENUT01 to WENUT54 = WENUT01 to WENUT54 +
TDNUT01 to TDNUT54

Else COMPUTE WDNUT01 to WDNUT54 = WDNUT01 to WDNUT54 +
TDNUT01 to TDNUT54

Endif

17. Variable: ADNUT01 TO ADNUT54.

Level: Toddler.

Description: Average daily nutrient intake excluding
supplements

a. Variables used:

- i. Record 1 (Toddler)
WEEKEND

- ii. In flight
WENUT01 to WENUT54
WDNUT01 to WDNUT54

b Specification

If 4 day diary

 Ifthen WEEKEND = 1

 COMPUTE ADNUT01 to ADNUT54 =
 (WENUT01 to WENUT54 + (WDNUT01 to WDNUT54 * 2 5))/7

 Elseif WEEKEND = 2 or 3

 COMPUTE ADNUT01 to ADNUT54 =
 ((WENUT01 to WENUT54 * 2) + (WDNUT01 to WDNUT54 * 5/3))/7

 Else COMPUTE ADNUT01 to ADNUT54 = -6

Elseif 3 day diary

 Ifthen WEEKEND = 1

 COMPUTE ADNUT01 to ADNUT54 =
 (WENUT01 to WENUT54 + (WDNUT01 to WDNUT54 * 5))/7

 Elseif WEEKEND = 2 or 3

 COMPUTE ADNUT01 to ADNUT54 =
 ((WENUT01 to WENUT54 * 2) + (WDNUT01 to WDNUT54 * 2 5))/7

 Else COMPUTE ADNUT01 to ADNUT54 = -6

Elseif no record 2s

 COMPUTE ADNUT01 to ADNUT54 = -9

Else

 COMPUTE ADNUT01 to ADNUT54 = -6

Group 6: Toddler Level DVs
(Percentage of Energy from certain Nutrients)

18. Variable: EFAT.
Level: Toddler.
Description: % Energy from total fat (including supplements) * held as an integer, divide by 100 to get 2 decimal places

a. Variables used:
1. Record 21 (Toddler)
ADNUTS08
ADNUTS05

b. Specification.

EFAT = (((ADNUTS08*9)/ADNUTS05)*100)*100
If no record 2s EFAT = -9
ELSE EFAT = -6

19. Variable: EPROTEIN.
Level: Toddler.
Description: % Energy from protein (including supplements) * held as an integer, divide by 100 to get 2 decimal places

a. Variables used:
i. Record 21 (Toddler)
ADNUTS07
ADNUTS05

b. Specification.

EPROTEIN = (((ADNUTS07 * 4)/ADNUTS05)*100)*100
If no record 2s EPROTEIN = -9
ELSE EPROTEIN = -6

20. Variable: ECARBOHY.
Level Toddler
Description % Energy from carbohydrate (including supplements)
* held as an integer, divide by 100 to get 2 decimal places
- a Variables used
1 Record 21 (Toddler)
ADNUTS09
ADNUTS05
- b Specification
- ECARBOHY = (((ADNUTS09 * 3 75)/ADNUTS05)*100)*100
If no record 2s ECARBOHY = -9
ELSE ECARBOHY = -6
21. Variable: ESTARCH.
Level Toddler
Description % Energy from starch (including supplements)
* held as an integer, divide by 100 to get 2 decimal places
- a Variables used
1 Record 21 (Toddler)
ADNUTS03
ADNUTS05
- b Specification
- ESTARCH = (((ADNUTS03 * 3 75)/ADNUTS05)*100)*100
If no record 2s ESTARCH = -9
ELSE ESTARCH = -6
22. Variable: ESUGARS.
Level Toddler
Description % Energy from total sugars (including supplements)
* held as an integer, divide by 100 to get 2 decimal places
- a Variables used
1 Record 21 (Toddler)
ADNUTS02
ADNUTS05
- b Specification
- ESUGARS = (((ADNUTS02 * 3 75)/ADNUTS05)*100)*100
If no record 2s ESUGARS = -9
ELSE ESUGARS = -6

23. Variable: EN3PUFA.
 Level: Toddler.
 Description: % Energy from cis n-3 polyunsaturated fatty acids (including supplements)
 * held as an integer, divide by 100 to get 2 decimal places
- a. Variables used:
 i. Record 21 (Toddler)
 ADNUTS05
 ADNUTS36
- b. Specification.
 $EN3PUFA = (((ADNUTS36 * 9)/ADNUTS05)*100)*100$
 If no record 2s EN3PUFA = -9
 ELSE EN3PUFA = -6
24. Variable: EN6PUFA.
 Level: Toddler.
 Description: % Energy from cis n-6 polyunsaturated fatty acids (including supplements)
 * held as an integer, divide by 100 to get 2 decimal places
- a. Variables used:
 i. Record 2 (Toddler)
 ADNUTS05
 ADNUTS37
- b. Specification.
 $EN6PUFA = (((ADNUTS37 * 9)/ADNUTS05)*100)*100$
 If no record 2s EN6PUFA = -9
 ELSE EN6PUFA = -6
25. Variable: EPOLYUNS.
 Level: Toddler.
 Description: % Energy from cis polyunsaturated fatty acids (including supplements)
 * held as an integer, divide by 100 to get 2 decimal places
- a. Variables used:
 i. Record 21 (Toddler)
 ADNUTS05
 ADNUTS36
 ADNUTS37
- b. Specification.
 $EPOLYUNS = (((ADNUTS36 + ADNUTS37 * 9)/ADNUTS05)*100)*100$
 If no record 2s EPOLYUNS = -9
 ELSE EPOLYUNS = -6

26. Variable: EMONUNS.
 Level Toddler
 Description % Energy from cis mono-unsaturated fatty acids
 (including supplements)
 * held as an integer, divide by 100 to get 2 decimal places

a Variables used
 1 Record 21 (Toddler)
 ADNUTS05
 ADNUTS35

b Specification

EMONUNS = (((ADNUTS35 * 9)/ADNUTS05)*100)*100
 If no record 2s EMONUNS = -9
 ELSE EMONUNS = -6

27. Variable: ESATFAT.
 Level Toddler
 Description % Energy from saturated fatty acids (including
 supplements)
 * held as an integer, divide by 100 to get 2 decimal places

a Variables used
 1 Record 21 (Toddler)
 ADNUTS05
 ADNUTS34

b Specification

ESATFAT = (((ADNUTS34 * 9)/ADNUTS05)*100)*100
 If no record 2s ESATFAT = -9
 ELSE ESATFAT = -6

28. Variable: ENMES.
 Level Toddler
 Description % Energy from non-milk extrinsic sugars
 (including supplements)
 * held as an integer, divide by 100 to get 2 decimal places

a Variables used
 1 Record 21 (Toddler)
 ADNUTS05
 ADNUTS53

b Specification

ENMES = (((ADNUTS53 * 3 75)/ADNUTS05)*100)*100
 If no record 2s ENMES = -9
 ELSE ENMES = -6

29. Variable: `EMSS`
Level: Toddler.
Description: % Energy from intrinsic and milk sugars and starch (including supplements)
* held as an integer, divide by 100 to get 2 decimal places
- a. Variables used:
i. Record 21 (Toddler)
`ADNUTS05`
`ADNUTS55`
- b. Specification.
- `ENMESSS = (((ADNUTS55 * 3.75)/ADNUTS05)*100)*100`
If no record 2s `ENMESSS = -9`
ELSE `ENMESSS = -6`
30. Variable: `ETRANSFA.`
Level: Toddler.
Description: % Energy from trans fatty acids (including supplements)
* held as an integer, divide by 100 to get 2 decimal places
- a. Variables used:
i. Record 21 (Toddler)
`ADNUTS05`
`ADNUTS38`
- b. Specification.
- `ETRANSFA = (((ADNUTS38 * 9)/ADNUTS05)*100)*100`
If no record 2s `ETRANSFA = -9`
ELSE `ETRANSFA = -6`

Group 7 Toddler Level DVs
(Retinol Equivalents)

31. Variable: REQUIV
Level Toddler
Description Retinol equivalents (excluding supplements)
- * held as an integer - divide by 10000 to get 4 decimal places
- a Variables used
 1 Record 21 (Toddler)
 ADNUT21
 ADNUT22
- b Specification
- REQUIV = ((ADNUT21 + (ADNUT22/6))
If no record 2s, REQUIV = -9
ELSE REQUIV = -6
32. Variable: REQUIVS
Level Toddler
Description Retinol equivalents (including supplements)
- * held as an integer- divide by 10000 to get 4 decimal places
- a. Variables used
 1 Record 21 (Toddler)
 ADNUTS21
 ADNUTS22
- b Specification
- REQUIVS = ((ADNUTS21 + (ADNUTS22/6))
If no record 2s, REQUIVS = -9
ELSE REQUIVS = -6

Group 8: Toddler Level DVs (Nutrient Ratios)

33. Variable: PSRAT.
Level: Toddler.
Description: Polyunsaturated: Saturated Fat ratio
(including supplements)
* held as an integer, divide by 10000 to get 4 decimal places
- a. Variables used:
i. Record 21 (Toddler)
ADNUTS56
ADNUTS34
- b. Specification.
- PSRAT = (ADNUTS56/ADNUTS34)*100
If no record 2s, PSRAT = -9
ELSE PSRAT = -6
34. Variable: IRONRATS.
Level: Toddler.
Description: Haem:non-haem iron ratio (including
supplements)
* held as an integer, divide by 10000 to get 4 decimal places
- a. Variables used:
iii. Record 21 (Toddler)
ADNUTS51
ADNUTS52
- b. Specification.
- IRONRATS = (ADNUTS51/ADNUTS52)*100
If no record 2s, IRONRATS = -9
ELSE IRONRATS = -6
35. Variable: IRONRAT.
Level: Toddler.
Description: Haem:non-haem iron ratio (excluding
supplements)
* held as an integer, divide by 10000 to get 4 decimal places
- a. Variables used:
i. Record 21 (Toddler)
ADNUT51
ADNUT52

b Specification

IRONRAT = (ADNUT51/ADNUT52)*100
If no record 2s, IRONRAT = -9
ELSE IRONRAT = -6

Group 9 and Group 10 : Toddler Level DVs
(ADI of Food Subgroups for selected Nutrients)

36. In flight Variables: WE02S001 to WE53S106,
WD02S001 to WD53S106,
OWE5S001 to OWE6S106,
OWD5S001 to OWD6S106.

Level: Toddler.

Description: Total of certain nutrients by subgroup for weekends and weekdays.

* held as an integer, divide by 10000 to get 4 decimal places

- a. Variables used:
- i. Record 2 (Day)
DAYOFWK
 - ii. Record 3 (Plate)
HOMEAWAY
 - iii. Record 4 (Food Item)
NUTF02 to NUTF53 as appropriate.

b. Specification.

For each food item:

```
Ifthen DAYOFWK = 01 or 07
  COMPUTE WE02S001 to WE53S106
    = WE02S001 to WE53S106 + NUTF02 to NUTF53
  Ifthen (HOMEAWAY = 2)
    COMPUTE OWE5S001 TO OWE6S106(FOODGRPC)
    = OWE5S001 TO OWE6S106(FOODGRPC) + NUTF05/06
  Endif
Else COMPUTE WD02S001 to WD53S106
  = WD02S001 to WD53S106 + NUTF02 to NUTF53
  Ifthen (HOMEAWAY = 2)
    COMPUTE OWD5S001 TO OWD6S106(FOODGRPC)
    = OWD5S001 TO OWD6S106(FOODGRPC) + NUTF05/06
  Endif
Endif
```

37. Variable: AN02S001 TO AN02S106
AN03S001 TO AN03S106
AN05S001 TO AN05S016
AN06S001 TO AN06S016
AN07S001 TO AN07S016
AN08S001 TO AN08S016
AN09S001 TO AN09S016
AN12S001 TO AN12S016
AN13S001 TO AN13S016

AN14S001 TO AN14S016
AN16S001 TO AN16S016
AN17S001 TO AN17S016
AN18S001 TO AN18S016
AN21S001 TO AN21S016
AN22S001 TO AN22S016
AN23S001 TO AN23S016
AN25S001 TO AN25S016
AN27S001 TO AN27S016
AN28S001 TO AN28S016
AN29S001 TO AN29S016
AN30S001 TO AN30S016
AN31S001 TO AN31S016
AN34S001 TO AN34S016
AN35S001 TO AN35S016
AN36S001 TO AN36S016
AN37S001 TO AN37S016
AN38S001 TO AN38S016
AN39S001 TO AN39S016
AN46S001 TO AN46S016
AN51S001 TO AN51S016
AN52S001 TO AN52S016
AN53S001 TO AN53S016

Level Toddler DV
Description ADI of selected nutrient from each food subgroup (with
supps)

a Variables used

- 1 Record 4 (Food Item)
FOODGRPC
NUTF03-53 as appropriate

b. Specification.

```

If 4 day diary
  Ifthen WEEKEND = 1
  COMPUTE ANnnS001 to ANnnS106 =
    WEnnS001 to WEnnS106 + (WDnnS001 to WDnnS106 * 2.5))/7

  Elseif WEEKEND = 2 or 3
  COMPUTE ANnnS001 to ANnnS106 =
    ((WEnnS001 to WEnnS106 * 2) + (WDnnS001 to WDnnS106 * 5/3))/7

  Else COMPUTE ANnnS001 to ANnnS106 = -6

Elseif 3 day diary
  Ifthen WEEKEND = 1
  COMPUTE ANnnS001 to ANnnS106 =
    (WEnnS001 to WEnnS106 + (WDnnS001 to WDnnS106 * 5))/7

  Elseif WEEKEND = 2 or 3
  COMPUTE ANnnS001 to ANnnS106 =
    ((WEnnS001 to WEnnS106 * 2) + (WDnnS001 to WDnnS106 * 2.5))/7

  Else COMPUTE ANnnS001 to ANnnS106 = -6

Elseif no Diary records
  COMPUTE ANnnS001 to ANnnS106 = -9
Else
  COMPUTE ANnnS001 to ANnnS106 = -6
  
```

38 Variable: OT05S001 TO OT05S106
 OT06S001 TO OT06S106
 Level: Toddler DV
 Description: ADI of energy from each food subgroup, eaten away from home (with supps)

a. Variables used:

- i. Record 3 (Plate)
HOMEAWAY
- ii. Record 4 (Food Item)
FOODGRPC
NUTF05 or NUTF06

b. Specification.

As for ANnnS001 to ANnnS106.

Group 11 Toddler Level DVs (ADI of Food Subgroups for Phosphorous and Iodine)

39. In flight variables: WE15S001 TO WE15S106
 WD15S001 TO WD15S106
 WE20S001 TO WE20S106
 WD20S001 TO WD20S106

Level Toddler
 Description Total of phosphorous and iodine by subgroup for weekends and weekdays
 * held as an integer, divide by 10000 to get 4 decimal places

a Variables used
 1 Record 2 (Day)
 DAYOFWK
 11 Record 4 (Food item)
 NUTF15, NUTF20

b Specification

For each food item
 Ifthen DAYOFWK = 01 or 07
 COMPUTE WE02S001 to WE53S106
 = WE02S001 to WE53S106 + NUTF02 to NUTF53
 Else COMPUTE WD02S001 to WD53S106
 = WD02S001 to WD53S106 + NUTF02 to NUTF53
 Endif
 Endif

40. Variable: AN15S001 TO AN15S106
 AN20S001 TO AN20S106

Level Toddler DV
 Description ADI of phosphorous and iodine from each food subgroup (with supps)

a Variable used
 1 Record 4 (Food item)
 FOODGRPC
 NUTF15, NUTF20

b. Specification.

```
If 4 day diary
  Ifthen WEEKEND = 1
  COMPUTE ANnnS001 to ANnnS106 =
    WEnnS001 to WEnnS106 + (WDnnS001 to WDnnS106 * 2.5))/7

  Elseif WEEKEND = 2 or 3
  COMPUTE ANnnS001 to ANnnS106 =
    ((WEnnS001 to WEnnS106 * 2) + (WDnnS001 to WDnnS106 * 5/3))/7

  Else COMPUTE ANnnS001 to ANnnS106 = -6

Elseif 3 day diary
  Ifthen WEEKEND = 1
  COMPUTE ANnnS001 to ANnnS106 =
    (WEnnS001 to WEnnS106 + (WDnnS001 to WDnnS106 * 5))/7

  Elseif WEEKEND = 2 or 3
  COMPUTE ANnnS001 to ANnnS106 =
    ((WEnnS001 to WEnnS106 * 2) + (WDnnS001 to WDnnS106 * 2.5))/7

  Else COMPUTE ANnnS001 to ANnnS106 = -6

Elseif no Diary records
  COMPUTE ANnnS001 to ANnnS106 = -9

Else
  COMPUTE ANnnS001 to ANnnS106 = -6
```



```

comment 'Specifications for master spss-derived variables'

comment 'New region variable'
recode region (18 thru 22 = 1) (1 thru 6 = 2) (7 thru 10 = 3) (13 thru 14 = 3)
      (11 thru 12 = 4) (-8 = -8) (-9 = -9) into nregion
variable labels nregion 'Grouped GHS regions'
value labels nregion 1 'Scotland'
                  2 'Northern'
                  3 'Central SW & Wales'
                  4 'London & SE'

comment 'Defining wave'
recode caseid (001001 thru 025100 = 1) (026001 thru 050100 = 2)
      (051001 thru 075100 = 3) (076001 thru 100100 = 4) into waves
variable labels waves 'Fieldwork wave'
value labels waves 1 'Wave 1'
                  2 'Wave 2'
                  3 'Wave 3'
                  4 'Wave 4'

comment 'Grouping age at interview for child'
recode age2 (16 thru 29 = 1) (30 thru 41 = 2) (42 thru 54 = 3) into agegroup
variable labels agegroup 'Age at time of interview'
value labels agegroup 1 '1.5 to 2.5 years'
                    2 '2.5 to 3.5 years'
                    3 '3.5 to 4.5 years'

comment 'creating HOH social class'
missing values all ( )
do if c73 = 2 or (c73 = -8)
  compute hohsocl = 8
else if dadsocl ge 1
  compute hohsocl = dadsocl
else if dadsocl = -8
  compute hohsocl = -8
else if (c69dna = 1 and c61 = 2) or (c69dna = 1 and (c61 = -8))
  compute hohsocl = 9
else if (c69dna = 1 and mumsocl ge 1)
  compute hohsocl = mumsocl
else if ((c69dna = 1) and (mumsocl = -8))
  compute hohsocl = -8
end if
variable labels hohsocl 'HOH social class'
value labels hohsocl 1 'I' 2 'II' 3 'IIINM' 4 'IIIM' 5 'IV' 6 'V'
                  7 'Armed forces' 8 'Dad never wkd' 9 'Mum never wkd'
                  -8 'NA'

comment 'Creating HOH social class dv grouped'
recode hohsocl (1 thru 3=1) (4 thru 6=2) (7=3) (8=4)
      (else=copy) into hohsocl1
variable labels hohsocl1 'HOH social class grouped'
value labels hohsocl1 1 'Non-manual'
                    2 'Manual'
                    3 'Armed Forces'
                    4 'Never worked'
                    -8 'NA'

Comment 'Creating employment status of HOH derived variable'
missing values all ( )
do if (c69a = 1) or (c70 = 1) or (c70 = -8)
  compute empst = 1
else if (c71 = 1) or (c71 = 2) or (c71 = 3)
  compute empst = 2
else if (c71 = 4) or (c71 = 5) or (c71 = 6) or (c71 = 7)
      or (c71 = 8) or (c71 = -8)

```

```

compute empst = 3
else if (c69dna = 1 and c56 = 1) or (c69dna = 1 and c58 = 1) or
(c69dna = 1 and c58 = 3) or (c69dna = 1 and (c58=-8))
compute empst = 4
else if (c69dna = 1 and c59 = 1) or (c69dna = 1 and c59 = 2)
or (c69dna = 1 and c59 = 3)
compute empst = 5
else if (c69dna=1 and c59 = 4)
or (c69dna = 1 and c59=5) or (c69dna=1 and c59 = 6)
or (c69dna = 1 and c59 = 7) or (c69dna = 1 and c59 = 8)
or (c69dna=1 and (c59=-8))
compute empst = 6
else
compute empst = 7
end if
variable labels empst 'Employment status of Head of Household'
value labels empst 1 'Dad HOH working'
2 'Dad HOH unemployed'
3 'Dad HOH economically inactive'
4 'Mum HOH working'
5 'Mum HOH unemployed'
6 'Mum HOH economically inactive'

comment 'Employment status of HOH collapsed'
recode empst (1=1) (2=2) (3=3) (4=1) (5=2) (6=3) into empst1
variable labels empst1 'Employment status of HOH collapsed'
value labels empst1 1 'HOH working'
2 'HOH unemployed'
3 'HOH economically inactive'

comment 'Creating whether received any state benefits'
missing values all ( )
do if (C81=1) or (C82=1)
compute benefit = 1
else if (c81= 8) or (c82= 8)
compute benefit = -8
else
compute benefit = 2
end if
variable labels benefit 'parents receiving benefit'
value labels benefit 1 'receiving benefit'
2 'no benefit'
-8 'na'

comment 'Grouping mother's highest educational qualification'
recode c76MUM (1 = 1) (2=2) (3=3) (4=4) (5=5) (6=6) (7 = 6)
(8 = 7) (-8= 8) ( 9=-9) into mumh1qal
variable labels mumh1qal 'Mums highest qual'
value labels mumh1qal 1 'degree'
2 'lt degree h1 qual'
3 'A levels & equiv'
4 'O levels & equiv'
5 'CSE & equiv'
6 'other'
7 'none'
-8 'na'
9 'no mum in hhid'

comment 'Mother's highest educational qualification collapsed'
recode mumh1qal (1 thru 2=1) (3=2) (4=3) (5 thru 6=4) (7=5) (else=copy)
into mumqal1
variable labels mumqal1 'mums highest educational qualification collapsed'
value labels mumqal1 1 'above A level'

```

```

2 'A level'
3 'O level & equiv'
4 'CSE & equiv & other'
5 'none'
-9 'non mum in hhd'
-8 'na'
frequencies variables = mumqal1

comment 'Grouping family type (ftype1)'
recode ftype1 (1=1) (2 thru 3=2) (4=3) (7=3) (5 thru 6=4) (8 thru 9=4)
(10=5) into ftype3
variable labels ftype3 'collapsed family type1'
value labels ftype3 1 'mc 1 child'
2 'mc 2+ kids'
3 'lp 1 child'
4 'lp 2+ kids'
5 'ff'

frequencies variables=ftype3
recode ftype1 (1 thru 3=1) (4 thru 9=2) (10=3) into ftype4
variable labels ftype4 'condensed family1'
value labels ftype4 1 'mc + kids'
2 'lp + kids'
3 'ff'

frequencies variables=ftype4

comment 'Creating how many cigs mother smokes'
missing vales all ( )
do if (c77mum =2)
compute msmoking=1
else if (c77mum=-9)
compute msmoking=-9
else if (c77mum=-8)
compute msmoking=-8
else if (c77amum le 19)
compute msmoking=2
else if (c77amum gt 19 and c77amum lt 90)
compute msmoking=3
else if (c77amum eq 99)
compute msmoking=99
end if
variable labels msmoking 'mum smoker'
value labels msmoking 1 'non smoker'
2 'light smoker'
3 'heavy smoker'
99 'smoker dk number'
-8 'dk if mum smokes'
-9 'no mum'

comment 'Creating how many cigs dad smokes'
do if (c77dad=2)
compute dsmoking=1
else if (c77dad=-9)
compute dsmoking=-9
else if (c77dad=-8)
compute dsmoking=-8
else if (c77adad le 19)
compute dsmoking=2
else if (c77adad gt 19 and c77adad lt 90)
compute dsmoking=3
else if (c77adad=99)
compute dsmoking=99
end if
variable labels dsmoking 'dad smoker'
value labels dsmoking 1 'non smoking'
2 'light smoker'
3 'heavy smoker'

```

```
99 'smoker dk number'  
8 'dk if dad smokes'  
9 'no dad'
```

```
comment 'Creating child unwell during 4 day diary'  
missing values all ( )  
compute well=-9  
do if diaryind=1  
+ do if (f20b1=-8) or (f20b2= 8) or (f20b3=-8) or (f20b4= 8)  
+ compute well=2  
+ else if (f20b1=1) or (f20b2=1) or (f20b3=1) or (f20b4=1)  
+ compute well =1  
+ else if (f20b1=2) or (f20b2=2) or (f20b3=2) or (f20b4=2)  
+ compute well = 2  
+ else if (well1=1) or (well2=1) or (well3=1) or (well4=1)  
+ compute well =3  
+ end if  
end if  
variable labels well 'whether child unwell during 4 day diary'  
value labels well 1 'unwell & eating affected eating'  
2 'unwell & eating not affected'  
3 'not unwell'  
9 'no diary'
```

```
comment 'Creating hhid annual gross income'  
recode c83 (1 thru 2=1) (3=2) (4 thru 5=3) (6 thru 7=4) (8=5)  
(9 thru 10=6) (11 thru 12=7) (88=8) (99=9) into income  
variable labels income 'gross hhid income per year'  
value labels income 1 '0 00 to 3999 99'  
2 '4000 to 5999 99'  
3 '6000 to 9999 99'  
4 '10000 to 13999 99'  
5 '14000 to 17999 99'  
6 '18000 to 24999 99'  
7 '25000 plus'  
8 'dk or na'  
9 'refused'
```

```
comment 'Calculating childs average daily no of bowel movements'  
missing values all ( )  
do if boweldna=1  
compute avbowel=-9  
else if ((bowel1=9) and (bowel2=9) and (bowel3=9) and (bowel4=9))  
compute avbowel=0  
else if ((bowel1=-8) and (bowel2=-8) and (bowel3= 8) and (bowel4= 8))  
compute avbowel= 8  
else if ((bowel1 ge 1 and bowel1 le 9) and (bowel2= 8) and (bowel3= 8)  
and (bowel4=-8))  
compute avbowel= 8  
else if ((bowel1= 8) and (bowel2 ge 1 and bowel2 le 9) and (bowel3= 8)  
and (bowel4= 8))  
compute avbowel= 8  
else if ((bowel1= 8) and (bowel2= 8) and (bowel3 ge 1 and bowel3 le 9)  
and (bowel4= 8))  
compute avbowel= 8  
else if ((bowel1= 8) and (bowel2= 8) and (bowel3= 8)  
and (bowel4 ge 1 and bowel4 le 9))  
compute avbowel= 8  
else if ((bowel1 ge 1 and bowel1 le 9) and (bowel2 ge 1 and bowel2 le 9)  
and (bowel3=-8) and (bowel4= 8))  
compute avbowel= 8  
else if ((bowel1 ge 1 and bowel1 le 9) and (bowel2= 8) and  
(bowel3 ge 1 and bowel3 le 9) and (bowel4=-8))  
compute avbowel=-8  
else if ((bowel1 ge 1 and bowel1 le 9) and (bowel2= 8) and (bowel3= 8)  
and (bowel4 ge 1 and bowel4 le 9))
```

```

compute avbowl=-8
else if ((bowl1=-8) and (bowl2 ge 1 and bowl2 le 9) and
(bowl3 ge 1 and bowl3 le 9) and (bowl4=-8))
compute avbowl=-8
else if ((bowl1=-8) and (bowl2 ge 1 and bowl2 le 9) and (bowl3=-8)
and (bowl4 ge 1 and bowl4 le 9))
compute avbowl=-8
else if ((bowl1=-8) and (bowl2=-8) and (bowl3 ge 1 and bowl3 le 9)
and (bowl4 ge 1 and bowl4 le 9))
compute avbowl=-8
else if ((bowl1=9) and (bowl2=9) and (bowl3=9) and (bowl4=-8))
compute avbowl=0
else if ((bowl1=9) and (bowl2=9) and (bowl3=-8) and (bowl4=9))
compute avbowl=0
else if ((bowl1=9) and (bowl2=-8) and (bowl3=9) and (bowl4=9))
compute avbowl=0
else if ((bowl1=-8) and (bowl2=9) and (bowl3=9) and (bowl4=9))
compute avbowl=0
else if ((bowl1 = -8) and (bowl2 ge 1 and bowl2 le 8)
and (bowl3 ge 1 and bowl3 le 8) and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl2+bowl3+bowl4)/3)
else if ((bowl2 =-8) and (bowl1 ge 1 and bowl1 le 8)
and (bowl3 ge 1 and bowl3 le 8) and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl1+bowl3+bowl4)/3)
else if ((bowl3 =-8) and (bowl1 ge 1 and bowl1 le 8)
and (bowl2 ge 1 and bowl2 le 8) and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl1+bowl2+bowl4)/3)
else if ((bowl4 =-8) and (bowl1 ge 1 and bowl1 le 8)
and (bowl2 ge 1 and bowl2 le 8) and (bowl3 ge 1 and bowl3 le 8))
compute avbowl = ((bowl1+bowl2+bowl3)/3)
else if ((bowl1=9) and (bowl2 ge 1 and bowl2 le 8) and
(bowl3 ge 1 and bowl3 le 8) and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl2+bowl3+bowl4)/4)
else if ((bowl1 ge 1 and bowl1 le 8) and (bowl2=9) and
(bowl3 ge 1 and bowl3 le 8) and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl1+bowl3+bowl4)/4)
else if ((bowl1 ge 1 and bowl1 le 8) and (bowl2 ge 1 and bowl2 le 8)
and (bowl3=9) and (bowl4 ge 1 and bowl2 le 8))
compute avbowl = ((bowl1+bowl2+bowl4)/4)
else if ((bowl1 ge 1 and bowl1 le 8) and (bowl2 ge 1 and bowl2 le 8)
and (bowl3 ge 1 and bowl3 le 8) and (bowl4=9))
compute avbowl = ((bowl1+bowl2+bowl3)/4)
else if ((bowl1=9) and (bowl2=9) and (bowl3 ge 1 and bowl3 le 8)
and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl3+bowl4)/4)
else if ((bowl1=9) and (bowl2 ge 1 and bowl2 le 8)
and (bowl3=9) and (bowl4 ge 1 and bowl4 le 8))
compute avbowl = ((bowl2+bowl4)/4)
else if ((bowl1=9) and (bowl2 ge 1 and bowl2 le 8) and
(bowl3 ge 1 and bowl3 le 8) and (bowl4=9))
compute avbowl = ((bowl2+bowl3)/4)
else if ((bowl1=9) and (bowl2 ge 1 and bowl2 le 8) and (bowl3=9) and
(bowl4 ge 1 and bowl4 le 8))
compute avbowl = (bowl4/4)
else if ((bowl1=9) and (bowl2 ge 1 and bowl2 le 8) and (bowl3=9)
and (bowl4=9))
compute avbowl = (bowl2/4)

```

```

else if ((bowel1=9) and (bowel2=9) and (bowel3 ge 1 and bowel3 le 8)
and (bowel4=9))
compute avbowel = (bowel3/4)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=9) and (bowel3=9)
and (bowel4=9))
compute avbowel = (bowel1/4)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2 ge 1 and bowel2 le 8)
and (bowel3 ge 1 and bowel3 le 8) and (bowel4 ge 1 and bowel4 le 8))
compute avbowel = ((bowel1+bowel2+bowel3+bowel4)/4)
else if ((bowel1= 8) and (bowel2=9) and (bowel3 ge 1 and bowel3 le 8)
and (bowel4 ge 1 and bowel3 le 8))
compute avbowel = ((bowel3+bowel4)/3)
else if ((bowel1= 8) and (bowel2 ge 1 and bowel2 le 8) and (bowel3=9)
and (bowel4 ge 1 and bowel4 le 8))
compute avbowel = ((bowel2+bowel4)/3)
else if ((bowel1= 8) and (bowel2 ge 1 and bowel2 le 8) and
(bowel3 ge 1 and bowel3 le 8) and (bowel4=9))
compute avbowel = ((bowel2+bowel3)/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2 ge 1 and bowel2 le 8)
and (bowel3= 8) and (bowel4=9))
compute avbowel=((bowel1+bowel2)/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2= 8) and
(bowel3 ge 1 and bowel3 le 8) and (bowel4=9))
compute avbowel =((bowel1+bowel3)/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=-8)
and (bowel3=9) and (bowel4 ge 1 and bowel4 le 8))
compute avbowel = ((bowel1+ bowel4)/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=9) and (bowel3=-8)
and (bowel4 ge 1 and bowel4 le 8))
compute avbowel =((bowel1+bowel4)/3)
else if ((bowel1=9) and (bowel2=-8) and (bowel3 ge 1 and bowel3 le 8)
and (bowel4 ge 1 and bowel4 le 8))
compute avbowel=((bowel3+bowel4)/3)
else if ((bowel1=9) and (bowel2 ge 1 and bowel2 le 8) and
(bowel3 ge 1 and bowel3 le 8) and (bowel4=-8))
compute avbowel=((bowel2+bowel3)/3)
else if ((bowel1=9) and (bowel2 ge 1 and bowel2 le 8) and (bowel3=-8)
and (bowel4 ge 1 and bowel4 le 8))
compute avbowel =((bowel2+bowel4)/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2 ge 1 and bowel2 le 8)
and (bowel3=9) and (bowel4=-8))
compute avbowel = ((bowel1+bowel2)/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=9) and
(bowel3 ge 1 and bowel3 le 8) and (bowel4=-8))
compute avbowel =((bowel1+bowel3)/3)
else if ((bowel1= 8) and (bowel2=9)
and (bowel3=9) and (bowel4 ge 1 and bowel4 le 8))
compute avbowel = (bowel4/3)
else if ((bowel1=-8) and (bowel2=9)
and (bowel3 ge 1 and bowel3 le 8) and (bowel4=9))
compute avbowel = (bowel3/3)
else if ((bowel1=-8) and (bowel2 ge 1 and bowel2 le 8)
and (bowel3=9) and (bowel4=9))
compute avbowel = (bowel2/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=-8)
and (bowel3=9) and (bowel4=9))
compute avbowel = (bowel1/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=9) and (bowel3= 8)
and (bowel4=9))
compute avbowel = (bowel1/3)
else if ((bowel1 ge 1 and bowel1 le 8) and (bowel2=9) and (bowel3=9)
and (bowel4=-8))
compute avbowel = (bowel1/3)
else if ((bowel1=9) and (bowel2=9) and (bowel3 ge 1 and bowel3 le 8)
and (bowel4= 8))
compute avbowel=(bowel3/3)

```

```

else if ((bowel1=9) and (bowel2=9) and (bowel3=-8)
and (bowel4 ge 1 and bowel4 le 8))
compute avbowel=(bowel4/3)
else if ((bowel1=9) and (bowel2 ge 1 and bowel2 le 8) and (bowel3=9)
and (bowel4=-8))
compute avbowel=(bowel2/3)
else if ((bowel1=9) and (bowel2=-8) and (bowel3=9)
and (bowel4 ge 1 and bowel4 le 8))
compute avbowel=(bowel4/3)
else if ((bowel1=9) and (bowel2 ge 1 and bowel2 le 8) and (bowel3=-8)
and (bowel4=9))
compute avbowel=(bowel2/3)
else if ((bowel1=9) and (bowel2=-8) and (bowel3 ge 1 and bowel3 le 8)
and (bowel4=9))
compute avbowel=(bowel3/3)
end if

```

```

comment 'Creating main carer of child whilst mum is at work'
missing values all (-8, -9)
recode C67a (1 thru 2=1) (3=2) (4 thru 8=3) (9 thru 10=4)
(11 thru 15=5) (-8=-8) into kidcare
variable labels kidcare 'main childcarer'
value labels kidcare 1 'mum'
2 'dad'
3 'other relative or friend'
4 'paid childminder or nanny'
5 'nursery etc'
-8 'na'
-9 'dna'

```

```

comment 'Food consumed by child who attends a nursery etc'
missing values all ( )
if c68=9 snackout=-9
do if (c68 ne 9)
+ do if (((c68ac=-8) and (c68ad=-8)) or
((c68bc=-8) and (c68bd=-8)) or
((c68cc=-8) and (c68cd=-8)) or
((c68dc=-8) and (c68dd=-8)) or
((c68ec=-8) and (c68ed=-8)) or
((c68fc=-8) and (c68fd=-8)) or
((c68gc=-8) and (c68gd=-8)) or
((c68hc=-8) and (c68hd=-8)) or
((c68ic=-8) and (c68id=-8)) or
((c68jc=-8) and (c68jd=-8)))
+ compute snackout=-8
+ else if ((c68a=1) and (val (c68ac)=1))
+ compute snackout=1
+ else if ((c68b=1) and (val (c68bc)=1))
+ compute snackout=2
+ else if ((c68c=1) and (val (c68cc)=1))
+ compute snackout=3
+ else if ((c68d=1) and (val (c68dc)=1))
+ compute snackout=4
+ else if ((c68e=1) and (val (c68ec)=1))
+ compute snackout=5
+ else if ((c68f=1) and (val (c68fc)=1))
+ compute snackout=6
+ else if ((c68g=1) and (val (c68gc)=1))
+ compute snackout=7
+ else if ((c68h=1) and (val (c68hc)=1))
+ compute snackout=8
+ else if ((c68i=1) and (val (c68ic)=1))
+ compute snackout=9
+ else if ((c68j=1) and (val (c68jc)=1))
+ compute snackout=10
+ else if ((c68a=1) and (c68ac ne 1) and (val (c68ad)=1))

```

```

+ compute snackout=11
+ else if ((c68b=1) and (c68bc ne 1) and (val(c68bd)=1))
+ compute snackout=12
+ else if ((c68c=1) and (c68cc ne 1) and (val(c68cd)=1))
+ compute snackout=13
+ else if ((c68d=1) and (c68dc ne 1) and (val(c68dd)=1))
+ compute snackout=14
+ else if ((c68e=1) and (c68ec ne 1) and (val(c68ed)=1))
+ compute snackout=15
+ else if ((c68f=1) and (c68fc ne 1) and (val(c68fd)=1))
+ compute snackout=16
+ else if ((c68g=1) and (c68gc ne 1) and (val(c68gd)=1))
+ compute snackout=17
+ else if ((c68h=1) and (c68hc ne 1) and (val(c68hd)=1))
+ compute snackout=18
+ else if ((c68i=1) and (c68ic ne 1) and (val(c68id)=1))
+ compute snackout=19
+ else if ((c68j=1) and (c68jc ne 1) and (val(c68jd)=1))
+ compute snackout=20
+ else if ((c68a=1) and (val(c68ac)=2) and (val(c68ad)=2))
+ compute snackout=21
+ else if ((c68b=1) and (val(c68bc)=2) and (val(c68bd)=2))
+ compute snackout=22
+ else if ((c68c=1) and (val(c68cc)=2) and (val(c68cd)=2))
+ compute snackout=23
+ else if ((c68d=1) and (val(c68dc)=2) and (val(c68dd)=2))
+ compute snackout=24
+ else if ((c68e=1) and (val(c68ec)=2) and (val(c68ed)=2))
+ compute snackout=25
+ else if ((c68f=1) and (val(c68fc)=2) and (val(c68fd)=2))
+ compute snackout=26
+ else if ((c68g=1) and (val(c68gc)=2) and (val(c68gd)=2))
+ compute snackout=27
+ else if ((c68h=1) and (val(c68hc)=2) and (val(c68hd)=2))
+ compute snackout=28
+ else if ((c68i=2) and (val(c68ic)=2) and (val(c68id)=2))
+ compute snackout=29
+ else if ((c68j=2) and (val(c68jc)=2) and (val(c68jd)=2))
+ compute snackout=30
+ else if (((c68ac=2) and (c68ad= 8)) or
          ((c68bc=2) and (c68bd=-8)) or
          ((c68cc=2) and (c68cd= 8)) or
          ((c68dc=2) and (c68dd= 8)) or
          ((c68ec=2) and (c68ed=-8)) or
          ((c68fc=2) and (c68fd=-8)) or
          ((c68gc=2) and (c68gd=-8)) or
          ((c68hc=2) and (c68hd= 8)) or
          ((c68ic=2) and (c68id= 8)) or
          ((c68jc=2) and (c68jd=-8)))
+ compute snackout=-8
+ else if (((c68ac=-8) and (c68ad=2)) or
          ((c68bc= 8) and (c68bd=2)) or
          ((c68cc= 8) and (c68cd=2)) or
          ((c68dc= 8) and (c68dd=2)) or
          ((c68ec= 8) and (c68ed=2)) or
          ((c68fc= 8) and (c68fd=2)) or
          ((c68gc=-8) and (c68gd=2)) or
          ((c68hc=-8) and (c68hd=2)) or
          ((c68ic=-8) and (c68id=2)) or
          ((c68jc=-8) and (c68jd=2)))
+ compute snackout= 8
+ else
+ compute snackout=-1
+ end if
end if
recode snackout (1 thru 10 =1) (11 thru 20=2) (21 thru 30=3)

```

```
(-8=-8) (-9=-9) (-1=-1) into eatout
variable labels eatout 'food consumed at nursery etc'
value labels eatout 1 'meal eaten'
                   2 'snack, no meal'
                   3 'nothing eaten'
                   -8 'na'
                   -9 'dna'
```

finish

