

Cohort, Exam 1**TOTNUTX Nutritional Data**

The nutrient values from foods other than alcoholic beverages were provided by the Willett group. ARIC added to these nutrient values the nutrients estimated from alcoholic beverage consumption from a program developed by Tomoko Shimakawa and were approved by the ARIC Nutrition Working Group.

ANUT2 is the most current data set containing nutrition derived variables. The earlier file TOTNUT has now been replaced by ANUT2 and is the file that should be used for analysis. Only values for participants meeting the ARIC Nutrition Working Groups criteria for analysis are included in this data set (see description of variable INCLUDE in attached memo). ANUT2 has 30 additional variables from TOTNUT:

ACAR, AOFIB, APIG, BCAR, BCAR_WO, BCRYP, CERAOFIB, CT18291, FRTAOFIB, GI, GIB, GIBD, GID, GL, GLB, GLU, KAEM, LEGAOFIB, LUT, LUTEOLIN, LYCO, MYRI, QUER, ST, TOTFLAVO, TR18191, TR18291, TRANS91, VEGAOFIB, and _16T191.

The nutrition data set TOTNUTX is a smaller data set that excludes extreme values. The value of the variable INCLUDE indicates extreme values.

The attached memo describes in detail how values for these variables are calculated.

Table 1: Names and descriptions of 78 variables (nutrients from beer, wine and hard liquor are included).

Number	Variable Name	Description
1	ID	Participant Identifier
2	CALOR	Total Calories kcal
3	CARB	Carbohydrates gm
4	SUCR	Sucrose gm
5	FRUCT	Fructose gm
6	LACT	Lactose gm
7	ST	Starch gm
8	GLU	Glucose gm
9	AOFIB	AOAC Fiber gm, 1993
10	ACAR	Alpha Carotene mcg
11	BCAR	Beta Carotene mcg
12	BCRYP	Beta Cryptoxanthin mcg
13	LYCO	Lycopene mcg
14	LUT	Lutein and Zeaxanthin mcg
15	_16T191	Trans 16:1 fa gm, Sacks 1991
16	TR18191	Trans 18:1 fa gm, Sacks 1991
17	TR18291	Trans Trans 18:2 fa gm, Sacks 1991
18	CT18291	Cis Trans 18:2 fa gm, Sacks 1991
19	TRANS91	gm, Sacks 1991
20	MYRI	Myricetin mg, flavonol
21	KAEM	Kaempferol mg, flavonol
22	QUER	Quercetin mg, flavonol
23	LUTEOLIN	Luteolin mg, flavone

Cohort, Exam 1

24	AFIG	Apigenin mg, flavone
25	TOTFLAVO	Total Flavonoids mg
26	GI	Glycemic Index

Cohort, Exam 1

Number	Variable Name	Description
27	GIB	Glycemic Index, Bread
28	GL	Glycemic Load
29	GLB	Glycemic Load, Bread
30	GID	Glycemic Index
31	GIBD	Glycemic Index, Bread
32	BCAR_WO	Beta Carotene w/out suppl mcg
33	CERAOFIB	Cereal Dietary Fiber
34	FRTAOFIB	Fruit Dietary Fiber
35	LEGAOFIB	Legume Dietary Fiber
36	VEGAOFIB	Vegetable Dietary Fiber
37	PROT	protein (g)
38	AFAT	animal fat (g)
39	VFAT	vegetable fat (g)
40	CFIB	crude fiber (g)
41	DFIB	dietary fiber (g)
42	CALC	calcium (mg)
43	IRON	iron (mg)
44	MAGN	magnesium (mg)
45	PHOS	phosphorous (mg)
46	POTA	potassium (mg)
47	ZINC	zinc (mg)
48	VITC	vitamin C (mg)
49	VITB1	thiamine (mg)
50	VITB2	riboflavin (mg)
51	NIAC	niacin (mg)
52	VITB6	vitamin B6 (mg)
53	FOLA	folate (micrograms)
54	RETI	retinol (IU)
55	CARO	total carotenoid (IU)
56	VITA	total vitamin A (IU)
57	SFAT	saturated fatty acid (g)
58	MFAT	monounsaturated fatty acid (g)
59	F181	fatty acid 18:1 (g)
60	PFAT	polyunsaturated fatty acid (g)
61	F182	fatty acid 18:2 (g)
62	CHOL	dietary cholesterol (mg)
63	METH	methionine (g)
64	VITD	vitamin D (IU)
65	ALCO	alcohol intake (g) per day

Cohort, Exam 1

Number	Variable Name	Description
66	VITE	alpha-tocopherol (mg)
67	CAFF	caffeine (mg)
68	VITB12	vitamin B12 (micrograms)
69	PANT	pantothenic acid (mg)
70	SODI	sodium (mg)
71	APROT	animal protein (g)
72	TRYP	tryptophan (mg)
73	MANG	manganese (mg)
74	OMEGA	omega fatty acid w20:5 and w22:6 (g)
75	COPP	copper (mg)
76	F183	fatty acid 18:3 (g)
77	F40	fatty acid 4:0 (g)
78	F60	fatty acid 6:0 (g)
79	F80	fatty acid 8:0 (g)
80	F100	fatty acid 10:0 (g)
81	F120	fatty acid 12:0 (g)
82	F140	fatty acid 14:0 (g)
83	F160	fatty acid 16:0 (g)
84	F180	fatty acid 18:0 (g)
85	F161	fatty acid 16:1 (g)
86	F201	fatty acid 20:1 (g)
87	F221	fatty acid 22:1 (g)
88	F184	fatty acid 18:4 (g)
89	F204	fatty acid 20:4 (g)
90	F205	fatty acid 20:5 (g)
91	F225	fatty acid 22:5 (g)
92	F226	fatty acid 22:6 (g)
93	GLUT	glutamic acid (g)
94	ASPA	aspartic acid (g)
95	FATE	animal fat wo visible fat (g)
96	CALF	energy wo visible fat (kcal)
97	TFAT	total fat (g)
98	P_TFAT	total fat (%kcal)
99	P_ALC	alcohol (%kcal)
100	P_PROT	protein (%kcal)
101	P_AFAT	animal fat (%kcal)
102	P_VFAT	vegetable fat (%kcal)
103	P_CARB	carbohydrate (%kcal)
104	P_SFAT	saturated fatty acid (%kcal)

Cohort, Exam 1

Number	Variable Name	Description
105	P_MFAT	monounsaturated fatty acid (%kcal)
106	P_PFAT	polyunsaturated fatty acid (%kcal)
107	KEYS	Keys score (defined below)
108	INCLUDE	Inclusion Criteria Variable

$$KeysScore = 1.26(2_P.SFAT - P.PFAT) + 1.5\sqrt{CHOL_1000/TCAL}$$

Description of the SAS program

The goal of the program is to create a new SAS data set ANUT2 that contains 108 variables, including ID, 65 daily total nutrient values (sum of daily nutrient intakes from 66 food items and nutrient intakes from alcoholic beverages), 11 nutrient variables that are derived from these total nutrient values including percentages of energy from macronutrients, and a binary variable INCLUDE to indicate participants who meet the ARIC Nutrition Working Groups inclusion criteria for analysis. Table 1 lists names and brief descriptions of these variables.

The attached hard copy of the program is written for Exam 1 data, but it can be used for Exam 2 data by replacing data set names and variable names. The rest of the memo describes 78 variables in detail and explains how these variables are created in the SAS program.

1. Description of 65 total nutrient variables

Total nutrient variables are sums of daily nutrient intakes from 66 foods and daily nutrient intakes from alcoholic beverages. The ARIC SAS data set NUTR contains participant's daily intakes of 90 nutrients that are calculated from the ARIC 66 food item-frequency questionnaire by Willett. Another ARIC SAS data set DTIA contains participants' weekly frequencies of consuming wine, beer, and liquor. Using the weekly alcohol consumption data and Willett's nutrient database for wine, beer, and liquor, daily intakes of 90 nutrients from alcoholic beverages will be computed. However, the calculation of daily nutrient intakes from alcoholic beverages depends on each participant's alcohol drinking status. Classify each participant into a current drinker, a former drinker, or a never drinker using the definition for the DRNKR01 variable in the ARIC SAS data set DERIVED. Do not use the DRNKR01 variable to classify participants unless DRNKR01 is updated using the latest DTIA data.

- X If a participant is a current drinker, compute daily intakes of 90 nutrients from wine, beer and liquor using weekly consumption data of these beverages (DTIA96 - DTIA98 in the ARIC SAS data set DTIA) and Willett's nutrient database for these beverages (entered in pages 1-2 of my SAS program as a data set ALCDRINK). These daily intakes of 90 nutrients from wine, beer and liquor will be added to daily intakes of 90 nutrients from 66 food items (NUTRA01 - NUTRA90) to obtain daily total intakes of 90 nutrients (TNUTA01 - TNUTA90). See page 3 or the SAS program for computation.

The ALCDRINK data contains 274 variables; weight of one serving of wine (4oz glass = 116g), 90 nutrient values (NUTRA01 - NUTRA90) for one serving of wine, weight of one serving of beer (12oz can = 360g), 90 nutrient values (NUTRA01 - NUTRA90) for one serving of beer, weight of one serving of liquor (1.5oz shot = 45g), 90 nutrient values (NUTRA01 - NUTRA90) for one serving of liquor, and a new variable MERGEID (= 1).

- X If a participant is a former drinker or a never drinker, assign a zero value to the daily total alcohol intake TNUT33. Other 89 daily total nutrients (TNUTA01 - TNUTA32, TNUTA34 - TNUTA90) will be the same as 89 nutrient intakes from 66 food items (NUTRA01 - NUTRA32, NUTRA34 - NUTRA90).

Cohort, Exam 1

- X If a participant's drinking status cannot be determined, assign a null value to TNUTA33. Other 89 daily total nutrients (TNUTA01 - TNUTA32, TNUTA34 - TNUTA90) will be the same as 89 nutrient intakes from 66 food items (NUTRA01 - NUTRA32, NUTRA34 - NUTRA90).

25 of 90 daily total nutrient intakes (TNUTA numbers 8, 9, 13, 14, 15, 16, 18, 19, 20, 22, 30, 31, 32, 35, 36, 40, 42, 45, 46, 47, 48, 49, 52, 53, 88) are not useful to use because they are not calculated by Willett's algorithm. See Table 1 for 65 daily total nutrient intakes that will be included in our new SAS data set ANUT1.

2. Description of 11 derived variables

Using variables defined in Section 1, eleven variables will be created. See Table 1. Calculate the total fat intake by adding the animal fat intake to the vegetable fat intake. To calculate percentages of daily total energy intakes from 8 nutrients, assume that one gram of fat, alcohol, protein and carbohydrate contains 9 kilocalories, 7 kilocalories, 4 kilocalories and 4 kilocalories of energy, respectively. Calculate Keys score as follows: $1.26(2S - P) + 1.5Z$, where S is the percentage of energy from saturated fat, P is the percentage of energy from polyunsaturated fat, and Z is the square root of dietary cholesterol, expressed as mg/1,000kcal/day. This equation is from a paper by Anderson *et al.* on Preventive Medicine 1979;8:525-37.

3. Description of a binary variable INCLUDE

A binary variable INCLUDE will be created to indicate participants who meet our inclusion criteria for dietary analysis. Participants will have a value 'YES' if they meet the following four criteria. See pages 5-6 of the SAS program.

1. Both DTIA and NUTR data exist.
2. The GENDER variable is either female or male. The GENDER variable is necessary because gender specific energy value will be used as an inclusion criterion.
3. Less than 10 blanks in our 66 food item-frequency questionnaire (DTIA01 -DTIA66).
4. Total energy intake TCAL is between 500 and 3600 kcal for women and between 600 and 4200 kcal for men.

If a participant does not meet the above criteria and number of blanks is greater than or equal to 10, assign 'NO1' to INCLUDE variable. If a participant cannot take either 'YES' or 'NO1' and if his or her TCAL value is outside of our acceptable TCAL range (500-3600 kcal for women and 600-4200 kcal for men), assign 'NO2' to INCLUDE variable.

Cohort, Exam 1**Nutrient Data**

Nutrient measurements.

<i>AFAT</i>		<i>Animal Fat (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 691.18 (median=20.145 mean=58.6414 std=70.3146)

<i>ALCO</i>		<i>Alcohol Intake (g) Per Day</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
319	Range	0 - 186.6857 (median=0 mean=5.6 std=18.0)
19		Missing

<i>APROT</i>		<i>Animal Protein (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 544.39 (median=28.49 mean=75.110 std=83.009)
1		Missing

<i>ASPA</i>		<i>Aspartic Acid (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 90.97 (median=3.045 mean=8.6702 std=9.7810)

<i>CAFF</i>		<i>Caffeine (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 1437.54 (median=141.885 mean=290.7593 std=351.1826)

<i>CALC</i>		<i>Calcium (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 7322.46 (median=435.16 mean=948.125 std=1060.845)

<i>CALF</i>		<i>Energy Without Visible Fat (Kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 21778.01 (median=588.98 mean=2462.828 std=2499.103)

<i>CARB</i>		<i>Carbohydrate (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 2264.04 (median=99.32 mean=309.724 std=309.710)

Cohort, Exam 1

<i>CARO</i>		<i>Total Carotenoid (IU)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 119279.4 (median=4058.1 mean=10259.84 std=17194.21)

<i>CFIB</i>		<i>Crude Fiber (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 73.38 (median=3.125 mean=6.0775 std=7.2794)

<i>CHOL</i>		<i>Dietary Cholesterol (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 4754.5 (median=138.905 mean=377.2973 std=466.8008)

<i>COPP</i>		<i>Copper (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 13.11 (median=0.865714 mean=1.9076839 std=1.8385331)

<i>DFIB</i>		<i>Dietary Fiber (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 339.4 (median=11.41 mean=25.006 std=30.368)

<i>F100</i>		<i>Fatty Acid 10:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 4.59 (median=0.165 mean=0.4801 std=0.6102)

<i>F120</i>		<i>Fatty Acid 12:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 5.65 (median=0.22 mean=0.610 std=0.739)

<i>F140</i>		<i>Fatty Acid 14:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 22.4 (median=0.93 mean=3.111 std=3.570)

<i>F160</i>		<i>Fatty Acid 16:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 178.51 (median=5.545 mean=20.3432 std=22.0471)

Cohort, Exam 1

<i>F161</i>		<i>Fatty Acid 16:1 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 27.53 (median=0.77 mean=2.373 std=2.834)

<i>F180</i>		<i>Fatty Acid 18:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 97.87 (median=2.615 mean=10.1171 std=11.5598)

<i>F181</i>		<i>Fatty Acid 18:1 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 303.92 (median=9.175 mean=35.6046 std=38.6717)

<i>F182</i>		<i>Fatty Acid 18:2 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 73.11 (median=3.66 mean=12.362 std=13.612)

<i>F183</i>		<i>Fatty Acid 18:3 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 10.06 (median=0.37 mean=1.139 std=1.207)

<i>F184</i>		<i>Fatty Acid 18:4 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 0.56 (median=0 mean=0.0 std=0.0)

<i>F201</i>		<i>Fatty Acid 20:1 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 9.47 (median=0.11 mean=0.307 std=0.641)

<i>F204</i>		<i>Fatty Acid 20:4 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 2.84 (median=0.08 mean=0.194 std=0.264)

<i>F205</i>		<i>Fatty Acid 20:5 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 7.18 (median=0.04 mean=0.147 std=0.457)

Cohort, Exam 1

<i>F221</i>		<i>Fatty Acid 22:1 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 6.23 (median=0.01 mean=0.102 std=0.383)

<i>F225</i>		<i>Fatty Acid 22:5 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 1.93 (median=0.02 mean=0.045 std=0.124)

<i>F226</i>		<i>Fatty Acid 22:6 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 3.23 (median=0.09 mean=0.231 std=0.410)
1		Missing

<i>F40</i>		<i>Fatty Acid 4:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 6.26 (median=0.2 mean=0.60 std=0.83)

<i>F60</i>		<i>Fatty Acid 6:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 3.87 (median=0.12 mean=0.359 std=0.490)

<i>F80</i>		<i>Fatty Acid 8:0 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 1.76 (median=0.05 mean=0.168 std=0.237)

<i>FATE</i>		<i>Animal Fat Without Visible Fat (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 691.02 (median=19.135 mean=55.4183 std=66.7704)

<i>FOLA</i>		<i>Folate (Micrograms)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 3094.05 (median=180.6086 mean=309.49965 std=352.40732)

<i>FRUC</i>		<i>Fructose (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 232.38 (median=16.49786 mean=39.749193 std=47.664872)

Cohort, Exam 1

<i>GLUT</i>		<i>Glutamic Acid (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 161.27 (median=5.305 mean=17.0713 std=18.3942)

<i>ID</i>		<i>ARIC Subject ID (Cir)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Present	Text suppressed

<i>INCLUDE</i>		<i>Inclusion Criteria Variable</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
20	NO1	Number of blanks is greater than or equal to 10
315	NO2	Not YES or NO1 and TCAL value is outside acceptable TCAL range (500-3600 kcal for women and 600-4200 kcal for men)
3	NO3	

<i>IRON</i>		<i>Iron (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 129.93 (median=9.71 mean=15.094 std=15.086)

<i>KEYS</i>		<i>Keys Score</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	14.22705 - 79.02575 (median=42.80263 mean=42.948366 std=11.133317)
12		Missing

<i>LACT</i>		<i>Lactose (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 152.31 (median=6.205 mean=17.1312 std=24.5813)

<i>MAGN</i>		<i>Magnesium (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 3202.02 (median=161.035 mean=347.7487 std=353.1570)

<i>MANG</i>		<i>Manganese (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 21.09 (median=1.54 mean=2.809 std=2.906)

Cohort, Exam 1

<i>METH</i>		<i>Methionine (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 32.87 (median=0.915 mean=2.4637 std=2.9901)

<i>MFAT</i>		<i>Monounsaturated Fatty Acid (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 366.11 (median=10.07 mean=39.096 std=42.858)

<i>NIAC</i>		<i>Niacin (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 267.7 (median=11.61 mean=25.242 std=27.462)

<i>OMEGA</i>		<i>Omega Fatty Acid W20:5 And W22:6 (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 5.18 (median=0.1 mean=0.33 std=0.64)
1		Missing

<i>PANT</i>		<i>Pantothenic Acid (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 60.79 (median=2.67 mean=5.627 std=5.904)

<i>PFAT</i>		<i>Polyunsaturated Fatty Acid (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 112.5 (median=4.205 mean=14.4092 std=15.8344)

<i>PHOS</i>		<i>Phosphorous (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 7518.71 (median=583.9 mean=1471.93 std=1405.08)
1		Missing

<i>POTA</i>		<i>Potassium (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 31627.98 (median=1722.92 mean=3566.931 std=3577.769)

Cohort, Exam 1

<i>PROT</i>		<i>Protein (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 682.03 (median=34.53 mean=100.165 std=102.699)
1		Missing

<i>P_AFAT</i>		<i>Animal Fat (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	2.541392 - 46.77395 (median=19.21545 mean=20.083813 std=7.566980)
12		Missing

<i>P_ALC</i>		<i>Alcohol (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
319	Range	0 - 92.69328 (median=0 mean=2.1 std=7.3)
19		Missing

<i>P_CARB</i>		<i>Carbohydrate (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	1.129508 - 84.75601 (median=48.11005 mean=49.025707 std=11.993602)
12		Missing

<i>P_MFAT</i>		<i>Monounsaturated Fatty Acid (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	0.552476 - 41.89056 (median=13.17016 mean=12.921090 std=4.104500)
12		Missing

<i>P_PFAT</i>		<i>Polyunsaturated Fatty Acid (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	0.552476 - 27.77973 (median=4.914163 mean=5.1195254 std=2.1949649)
12		Missing

<i>P_PROT</i>		<i>Protein (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
325	Range	0.645388 - 41.21642 (median=17.22359 mean=17.519081 std=5.652935)
13		Missing

Cohort, Exam 1

<i>P_SFAT</i>		<i>Saturated Fatty Acid (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	0.883962 - 23.27625 (median=12.51366 mean=12.316741 std=3.709139)
12		Missing

<i>P_TFAT</i>		<i>Total Fat (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	2.541392 - 94.38793 (median=33.68934 mean=33.489327 std=9.171467)
12		Missing

<i>P_VFAT</i>		<i>Vegetable Fat (%kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
326	Range	0 - 84.15994 (median=12.6444 mean=13.40551 std=7.53153)
12		Missing

<i>RETI</i>		<i>Retinol (IU)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 11961.15 (median=1679.475 mean=2311.7244 std=2180.6668)

<i>SFAT</i>		<i>Saturated Fatty Acid (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 316.13 (median=9.985 mean=37.3727 std=40.5563)

<i>SODI</i>		<i>Sodium (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 24955.62 (median=750.405 mean=2095.8874 std=2276.5689)

<i>SUCR</i>		<i>Sucrose (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 830.69 (median=34.375 mean=95.9628 std=112.2994)

<i>TCAL</i>		<i>Energy (Kcal)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 21779.21 (median=594.9543 mean=2537.69181 std=2548.07072)

Cohort, Exam 1

<i>TFAT</i>		<i>Total Fat (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 886.1 (median=25.995 mean=99.6086 std=106.6726)

<i>TRYP</i>		<i>Tryptophan (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 7466.4 (median=403.9 mean=1163.40 std=1177.88)
1		Missing

<i>VFAT</i>		<i>Vegetable Fat (g)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 221.94 (median=11.175 mean=40.9671 std=47.5972)

<i>VITA</i>		<i>Total Vitamin A (IU)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 129164.6 (median=5846.375 mean=12571.6558 std=18345.9618)

<i>VITB1</i>		<i>Thiamine (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 13.93 (median=0.69 mean=1.509 std=1.515)

<i>VITB12</i>		<i>Vitamin B12 (Micrograms)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
337	Range	0 - 45.2 (median=5.61 mean=9.371 std=8.992)
1		Missing

<i>VITB2</i>		<i>Riboflavin (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 18.96 (median=0.98 mean=2.150 std=2.140)

<i>VITB6</i>		<i>Vitamin B6 (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 19.04 (median=1.21 mean=2.252 std=2.348)

Cohort, Exam 1

<i>VITC</i>		<i>Vitamin C (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 1481.04 (median=82.275 mean=198.9720 std=268.0033)

<i>VITD</i>		<i>Vitamin D (IU)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 7428.85 (median=144.305 mean=308.0873 std=508.4671)

<i>VITE</i>		<i>Alpha-Tocopherol (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 80.79 (median=3.035 mean=7.5346 std=8.5717)

<i>ZINC</i>		<i>Zinc (mg)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
338	Range	0 - 113.69 (median=6.587857 mean=15.2054565 std=16.1218558)