IMP1.DOC

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#### NHANES III Multiply Imputed Data Set File Index for Imputed Data File IMP1.DAT

Description	Variable Name	Positions
GENERAL INFORMATION		
Sequence number	SEQN	1-5
HOUSEHOLD FAMILY QUESTIONNAIRE ITEMS		
Poverty income ratio	DMPPIRMI	6-11
Anyone living here smoke cigs in home	HFF1MI	12
HOUSEHOLD ADULT QUESTIONNAIRE ITEMS		
Self-rating of health status	HAB1MI	13-14
How tall are you without shoes-inchs	HAM5MI	15-16
How much do you weigh in pounds	HAM6MI	17-19
Beer/wine/liquor (recode)	HAN6SRMI	20-21
Condition of SPS natural teeth	HAQ1MI	22-23
Smoke cigarettes now (recode)	HAR3RMI	24-25
Compare own activity level to others	HAT28MI	26-27
K1 for first BP measurement (home)	HAZAK1MI	28-30
K5 for first BP measurement (home)	HAZAK5MI	31-33
K1 for second BP measurement (home) K5 for second BP measurement (home)	HAZBK1MI HAZBK5MI	34-36 37-39
K1 for third BP measurement (home)	HAZEKSMI HAZCK1MI	40-42
K5 for third BP measurement (home)	HAZCKIMI HAZCK5MI	43-45
HOUSEHOLD YOUTH QUESTIONNAIRE ITEMS		
How is health of SP in general	HYD1MI	46-47
Condition of natural teeth	HYF2MI	48-49
BONE DENSITOMETRY		
BONE DENSITOMETRI		
Bone minrl density femur neck-gm/cm sq	BDPFNDMI	50-54
BMD of intertrochanter region-gm/cm sq	BDPINDMI	55-59
K value for scan	BDPKMI	60-64
<u> </u>	BDPTOAMI	65-69
Bone minrl density total region-gm/cm sq	BDPTODMI	70-74
BMD of trochanter region - gm/cm sq	BDPTRDMI	75-79
BMD of Ward's triangle region-gm/cm sq	BDPWTDMI	80-84

# NHANES III Multiply Imputed Data Set File Index for Imputed Data File IMP1.DAT

Description		Positions
BODY MEASUREMENTS		
Buttocks circumference (cm)		85-89
Head circumference (cm)		90-93
Standing height (cm)		94-98
Knee height (cm)	BMPKNEMI	99-102
Recumbent length (cm)	BMPRECMI	103-107
Sitting height (cm)	BMPSTHMI	108-112
First subscapular skinfold (mm)	BMPSB1MI	113-116
Second subscapular skinfold (mm)	BMPSB2MI	117-120
First suprailiac skinfold (mm)	BMPSP1MI	121-124
Second suprailiac skinfold (mm)	BMPSP2MI	125-128
First triceps skinfold (mm)	BMPTR1MI	129-132
Second triceps skinfold (mm)	BMPTR2MI	133-136
Waist circumference (cm)		137-141
Weight (kg)	BMPWTMI	142-147
BLOOD AND URINE ASSAY ITEMS		
Serum iron (ug/dl)	FEPMI	148-150
Ferritin (ng/ml)		151-154
Serum HDL cholesterol (mg/dL)	HDPMI	155-157
Hemoglobin (g/dl)	HGPMI	158-162
Hematocrit (%)	HTPMI	163-167
Mean cell hemoglobin: SI	MCPSIMI	168-172
Mean cell hemoglobin conc (g/dl)	MHPMI	173-177
Mean cell volume: SI (fl)	MVPSIMI	178-183
Lead (ug/dl)	PBPMI	184-189
Length of calculated fast (in hours)	PHPFSTMI	190-194
Serum transferrin saturation (%)	PXPMI	195-199
Red blood cell count (x 10**6)	RCPMI	200-203
Red cell distribution width (%)	RWPMI	204-208
Selenium (ng/ml)	SEPMI	209-211
Serum cholesterol (mg/dL)	TCPMI	212-214
Serum triglycerides (mg/dL)		215-218
Serum TIBC (ug/dl)		219-221
FUNDUS PHOTOGRAPHY		
Summary drusen score	EDDGIIDMT	222-223
	FPPSUDMI	224-225
Summary age-related maculopathy score	FPPSUMMI	
Summary diabetic retinopathy score	FPPSUKMI	226-227

## NHANES III Multiply Imputed Data Set File Index for Imputed Data File IMP1.DAT

Description	Variable Name	Positions
REPLICATE BLOOD PRESSURE (3x) FROM MEC EXAMINA	rion -	
K1, systolic, for 1st BP (mmHg)	PEP6G1MI	228-230
K4, diastolic, for 1st BP(mmHg)	PEP6G2MI	231-233
K5, diastolic, for 1st BP (mmHg)	PEP6G3MI	234-236
K1, systolic, for 2nd BP (mmHg)	PEP6H1MI	237-239
K4, diastolic, for 2nd BP(mmHg)	PEP6H2MI	240-242
K5, diastolic, for 2nd BP (mmHg)	PEP6H3MI	243-245
K1, systolic, for 3rd BP (mmHg)	PEP6I1MI	246-248
K4, diastolic, for 3rd BP(mmHg)	PEP6I2MI	249-251
K5, diastolic, for 3rd BP (mmHg)	PEP6I3MI	252-254

FILENAME=1	 [MP1	VERSION 1.0	N=33994
		GENERAL INFORMATION	
Positions SAS name	Counts	Item description and code	Notes
1-	-5	Sample person identification number	
SEQN	33994	00003-53623	

FILENAME=IM	 D1	VERSION 1.0	 N=33994
	НС	SUSEHOLD FAMILY QUESTIONNAIRE ITEMS	
Positions SAS name	Counts	Item description and code	Notes
6-11 DMPPIRMI		Poverty Income Ratio	See note
	33994	00.000-11.889	
12-12		Does anyone who lives here smoke	See note
HFF1MI		cigarettes in the home?	
	12499	1 Yes	
	21495	2 No	

FILENAME=IM		VERSION 1.0	N=33994
	НОІ	JSEHOLD ADULT QUESTIONNAIRE ITEMS	
Positions		Item description and code	Notes
13-14 HAB1MI	13944 3071 4745 7197 3994	Would you say your health in general is excellent, very good, good, fair or poor?  -9 Not applicable 01 Excellent 02 Very good	See note
15-16 НАМ5МІ		How tall are you without shoes? (inches) -9 Not applicable	See note
17-19 HAM6MI	13944 20050		See note
20-21 HAN6SRMI	13944 11214 5569 3267	01 0 times in past month 02 1-10 times in past month	)See note
22-23 HAQ1MI	13944 1449 2435 5670 4894 2865 2737	How would you describe the condition of your natural teeth: poor?  -9 Not applicable 01 Excellent 02 Very good 03 Good 04 Fair 05 Poor 06 Has no natural teeth	See note
24-25 HAR3RMI	13944 4996 15054	Do you smoke cigarettes now? (recode)  -9 Not applicable  01 Yes  02 No	See note

FILENAME=IM		VERSION 1.0	N=33994
	ЛОН	JSEHOLD ADULT QUESTIONNAIRE ITEMS	
Positions SAS name	Counts	Item description and code	Notes
26-27 HAT28MI	13944 6270 4532 9248	01 More active 02 Less active	See note
28-30 HAZAK1MI	13944 20050		See note
31-33 HAZAK5MI			See note
34-36 HAZBK1MI	13944 20050	<del></del>	See note
37-39 HAZBK5MI	13944 20050		See note
40-42 HAZCK1MI	13944 20050	First Korotkoff sound (K1) for 3rd home measurement (systolic, mm Hg) -09 Not applicable 074-256	
43-45 HAZCK5MI	13944 20050	Fifth Korotkoff sound (K5) for 3rd home measurement (systolic, mm Hg) -09 Not applicable 000-156	See note

FILENAME=IM	 P1	VERSION 1.0	N=33994
	НО	USEHOLD YOUTH QUESTIONNAIRE ITEMS	
	Counts	Item description and code	Notes
46-47 HYD1MI	20050 5431 3672 3751 1000 90	01 Excellent 02 Very good 03 Good 04 Fair	See note
48-49 HYF2MI	23496 2772 2212 3297 1597 618 2	01 Excellent 02 Very good 03 Good 04 Fair	See note

FILENAME=IMP1		VERSION 1.0	N=33994
		BONE DENSITOMETRY	
Positions		Item description and code	Notes
50-54 BDPFNDMI			See note
55-59 BDPINDMI	15169 18825		See note
60-64 BDPKMI		K value for scan	See note
DDFKMI	15169 18825		
65-69 BDPTOAMI		Bone area of total region (cm squared)	See note
	15169 18825		
70-74 BDPTODMI	15169 18825		See note
75-79 BDPTRDMI		Bone mineral density of trochanter region (gm/cm squared) -0009 Not applicable 0.057-1.542	See note
80-84 BDPWTDMI	15169 18825	Bone mineral density of Ward's triangle region (gm/cm squared) -0009 Not applicable 0.047-1.812	See note

FILENAME=IMI	P1 	VERSION 1.0	N=33994
		BODY MEASUREMENTS	
Positions SAS name	Counts	Item description and code	Notes
85-89 BMPBUTMI	3446	Buttocks circumference (cm) (2 years and over) -0009 Not applicable 027.8-182.8	See note
90-93 BMPHEAMI		Head circumference (cm) (2 months-7 years) -009 Not applicable 34.4-58.1	See note
94-98 BMPHTMI	3446	Standing height (cm) (2 years and over) -0009 Not applicable 073.6-206.5	See note
99-102 BMPKNEMI		<del></del>	See note
103-107 BMPRECMI		Recumbent length (cm) (2 months-3 years) -0009 Not applicable 039.1-119.5	See note
108-112 BMPSTHMI		Sitting height (cm) (2 years and over) -0009 Not applicable 036.9-110.2	See note
113-116 BMPSB1MI	33994	First subscapular skinfold (mm) (2 months and over) 02.8-47.4	See note
117-120 BMPSB2MI	33994	Second subscapular skinfold (mm) (2 months and over) 02.8-50.4	See note
121-124 BMPSP1MI	3446 30548	First suprailiac skinfold (mm) (2 years and over) -009 Not applicable 01.9-50.4	See note
125-128 BMPSP2MI	3446 30548	Second suprailiac skinfold (mm) (2 years and over) -009 Not applicable 01.1-50.0	See note

FILENAME=IM	<del>-</del>	VERSION 1.0	N=33994
		BODY MEASUREMENTS	
Positions SAS name	Counts	Item description and code	Notes
129-132 BMPTR1MI		First triceps skinfold (mm) (2 months and over) 01.2-49.8	See note
133-136 BMPTR2MI	33994	Second triceps skinfold (mm) (2 months and over) 02.8-49.0	See note
137-141 BMPWSTMI		Waist circumference (cm) (2 years and over) -0009 Not applicable 034.5-174.1	See note
142-147 BMPWTMI		Weight (kg)	See note
	33994	002.80-241.80	

FILENAME=IMP1		VERSION 1.0	N = 33994
		BLOOD AND URINE ASSAY ITEMS	
Positions		Item description and code	Notes
148-150 FEPMI		Serum iron (ug/dL)	See note
		-09 Not applicable 002-338	
151-154 FRPMI		Serum ferritin (ng/mL)	See note
	2107 31887	-009 Not applicable 0001-3059	
155-157 HDPMI		Serum HDL cholesterol (mg/dL)	See note
		-09 Not applicable 008-196	
158-162 HGPMI		Hemoglobin (g/dL)	See note
		-0009 Not applicable 04.95-19.60	
163-167 HTPMI		Hematocrit (%)	See note
		-0009 Not applicable 16.60-57.60	
168-172 MCPSIMI		Mean cell hemoglobin: SI (pg)	See note
		-0009 Not applicable 13.60-53.60	
173-177 MHPMI		Mean cell hemoglobin concentration $(g/dL)$	See note
	2107 31887	-0009 Not applicable 24.22-52.35	
178-183 MVPSIMI		Mean cell volume: SI (fL)	See note
	2107 31887		
184-189 PBPMI		Lead (ug/dL)	See note
	2107 31887	-00009 Not applicable 000.20-071.80	

190-194 Computed number of hours since last See note PHPFSTMI ate or drank

2107 -0009 Not applicable 31887 00.00-39.13

195-199 PXPMI	Serum transferrin saturation (%) -0009 Not applicable 000.0-098.5	See note
200-203 RCPMI	Red blood cell count	See note
	-009 Not applicable 1.69-6.84	
204-208 RWPMI	Red blood cell count	See note
	-0009 Not applicable 07.80-31.95	
209-211 SEPMI	Serum selenium (ng/mL)	See note
	-09 Not applicable 039-622	
212-214 TCPMI	Serum cholesterol (mg/dL)	See note
	-09 Not applicable 059-702	
215-218 TGPMI	Serum triglycerides (mg/dL)	See note
	-009 Not applicable 0009-3616	
219-221 TIPMI	Serum TIBC (ug/dL)	See note
	-09 Not applicable 069-866	

FILENAME=IMP1			VERSION 1.0		33994
		FUN	DUS PHOTOGRAPHY		
Positions SAS name	Counts	Item descr and co	ription	Note	es 
222-223 FPPSUDMI		Summary	drusen score	See	note
	22546	-9	Not applicable		
		00	None		
			Questionable		
	6946	02	Present		
224-225 FPPSUMMI		Summary	age-related maculopathy score	See	note
	22546	-9	Not applicable		
	9747	00	None		
	1637	01	Early		
	64	02	Late		
226-227 FPPSURMI		Summary	diabetic retinopathy score	See	note
	22546	-9	Not applicable		
	10599	00	None		
	728	01	Mild		
	95		Moderate		
	26	03	Proliferative		

FILENAME=IMP1		VERSION 1.0	N=33994	
		BLOOD PRESSURE (3x) FROM MEC EXAMINATION		
Positions SAS name	Counts	Item description and code	Notes	
228-230 PEP6G1MI	)	First Korotkoff sound (K1), systolic, fo first blood pressure (BP) measurement	rSee note	
	7151 26843	-09 Not applicable 052-258		
231-233 PEP6G2MI	3	Fourth Korotkoff sound (K4), diastolic, for first BP measurement (mm Hg)	See note	
	25976 8018	-09 Not applicable 002-110		
234-236 PEP6G3MI		Fifth Korotkoff sound (K5), diastolic, for first BP measurement (mm Hg)	See note	
	7151 26843	-09 Not applicable 000-136		
237-239 PEP6H1MI		First Korotkoff sound (K1), systolic, fo second blood pressure (BP) measurement	rSee note	
	7151 26843	-09 Not applicable 054-256		
240-242 PEP6H2MI		Fourth Korotkoff sound (K4), diastolic, for second BP measurement (mm Hg)	See note	
		-09 Not applicable 002-102		
243-245 PEP6H3MI	;	Fifth Korotkoff sound (K5), diastolic, for second BP measurement (mm Hg)	See note	
	7151 26843			
246-248 PEP6I1MI		First Korotkoff sound (K1), systolic, fo third blood pressure (BP) measurement	rSee note	
	7151 26843			
249-251 PEP6I2MI	-	Fourth Korotkoff sound (K4), diastolic, for third BP measurement (mm Hg)	See note	
	25976 8018	<del></del>		

FILENAME=IMP1		VERSION 1.0	N=33994
	REPLICATE	BLOOD PRESSURE (3x) FROM MEC EXAMINATION	
Positions SAS name	Counts	Item description and code	Notes
252-254 PEP6I3MI		Fifth Korotkoff sound (K5), diastolic, for third BP measurement (mm Hg)	See note
	7151 26843	-09 Not applicable 000-140	

MULTIPLY IMPUTED DATA FILE: NOTES

DMPPIRMI: Poverty income ratio (or poverty index) Multiply Imputed Version

The poverty income ratio (PIR) was computed as a ratio of two components. The numerator was the midpoint of the observed family income category in the Family Questionnaire variable: HFF19R. The denominator was the poverty threshold, the age of the family reference person, and the calender year in which the family was interviewed.

Poverty threshold values (in dollars) are produced annually by the Census Bureau (Series P-60). These threshold values are based on calendar years and adjusted for changes caused by inflation between calendar years. Reports for each of the calendar years in the survey (1988-94) were used in the calculation of PIR. For the years 1991 and 1994, data from preliminary reports were used. The poverty income ratio allows income data to be analyzed in a comparable manner across the six years of the survey and with previous NHANES.

Persons who reported having had no income and were assigned a zero value for PIR. A substantial proportion of persons refused to report their income or income category during the Family Questionnaire, resulting in a missing value for PIR.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable DMPPIRIF in the data file CORE.DAT.

HFF1MI: Anyone living here smoke cigs in home Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HFF1IF in the data file CORE.DAT.

HAB1MI: Self-rating of health status Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAB1IF in the data file CORE.DAT.

HAM5MI: Reported height without shoes (inches)
Multiply Imputed Version

This variable was standardized to inches using the conversion factors 0.3937 inches per centimeter, and 12 inches per foot.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAM5IF in the data file CORE.DAT.

HAM6MI: Reported weight without clothes (lbs)
Multiply Imputed Version

This variable was standardized to weight in pounds using the conversion factor 2.2046 pounds per kilogram.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAM6IF in the data file CORE.DAT.

HAN6SRMI: Beer, wine, and liquor per month (recode)
Multiply Imputed Version

This variable was derived from HAN6HS, HAN6IS, and HAN6JS. Respondents were asked how often over the past month they had consumed beer and lite beer (HAN6HS), wine, wine coolers, sangria, and champagne (HAN6IS), and hard liquor such as tequila, gin, vodka, scotch, rum, whiskey and liqueurs, either alone or mixed (HAN6JS). It is important to note that portion sizes were not defined, and responses represent 'number or times' as determined by the respondent. The frequencies of consumption were standardized as 'times per month' using the conversion factors 4.3 weeks/month and 30.4 days/month rounded to the nearest whole number. If the frequency of consumption was reported as 'never,' the value was recorded as zero. The variable HAN6SRMI is a categorization of HAN6HS, HAN6IS, and HAN6JS into three levels representing zero times in the past month, 1-10 times in the past month, and 11 or more times in the past month.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAN6SRIF in the data file CORE.DAT.

HAQ1MI: Condition of sampled person's natural teeth Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAQ1IF in the data file CORE.DAT.

HAR3RMI: Smoke cigarettes now? (recode)
Multiply Imputed Version

This variable was derived from variables HAR1 and HAR3. It records the response to the question 'Do you smoke cigarettes now?' Subjects who indicated earlier that they had not smoked at least 100 cigarettes

in their lifetime were assigned the response 'No'.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAR3RIF in the data file CORE.DAT.

HAT28MI: Compare own activity level to others
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAT28IF in the data file CORE.DAT.

HAZAK1MI: K1 for first BP measurement (home interview)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAZAK1IF in the data file CORE.DAT.

HAZAK5MI: K5 for first BP measurement (home interview)
Multiply Imputed Version

Zero was considered a valid observation for diastolic (K5) measurements when pulse sounds continue to be heard down to 0 mm Hg.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAZAK5IF in the data file CORE.DAT.

HAZBK1MI: K1 for second BP measurement (home interview)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAZBK1IF in the data file CORE.DAT.

HAZBK5MI: K5 for second BP measurement (home interview)
Multiply Imputed Version

Zero was considered a valid observation for diastolic (K5) measurements when pulse sounds continue to be heard down to 0 mm Hg.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAZBK5IF in the data file CORE.DAT.

HAZCK1MI: K1 for third BP measurement (home interview)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAZCK1IF in the data file CORE.DAT.

HAZCK5MI: K5 for third BP measurement (home interview)
Multiply Imputed Version

Zero was considered a valid observation for diastolic (K5) measurements when pulse sounds continue to be heard down to 0 mm Hg.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HAZCK5IF in the data file CORE.DAT.

HYD1MI: How is health of SP in general Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HYD1IF in the data file CORE.DAT.

HYF2MI: Condition of SP's natural teeth Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HYF2IF in the data file CORE.DAT.

BDPFNDMI: Bone mineral density femur neck-gm/cm sq Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPFNDIF in the data file CORE.DAT.

 $\begin{tabular}{lll} {\tt BMD} & of & intertrochanter & region-gm/cm & sq \\ & & & {\tt Multiply} & {\tt Imputed} & {\tt Version} \\ \end{tabular}$ 

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPINDIF in the data file CORE.DAT.

BDPKMI: K value for scan

Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPKIF in the data file CORE.DAT.

BDPTOAMI: Bone area of total region - cm sq Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPTOAIF in the data file CORE.DAT.

BDPTODMI: Bone mineral density total region-gm/cm sq Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPTODIF in the data file CORE.DAT.

BDPTRDMI: Bone mineral density trochanter region-gm/cm sq Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPTRDIF in the data file CORE.DAT.

BDPWTDMI: Bone mineral density Ward's triangle region-gm/cm sq Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BDPWTDIF in the data file CORE.DAT.

BMPBUTMI: Buttocks circumference (cm)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPBUTIF in the data file CORE.DAT.

BMPHEAMI: Head circumference (cm)

#### Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPHEAIF in the data file CORE.DAT.

BMPHTMI: Standing height (cm)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPHTIF in the data file CORE.DAT.

BMPKNEMI: Knee height (cm)

Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPKNEIF in the data file CORE.DAT.

BMPRECMI: Recumbent length (cm)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPRECIF in the data file CORE.DAT.

BMPSTHMI: Sitting height (cm)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPSTHIF in the data file CORE.DAT.

BMPSB1MI: First subscapular skinfold (mm)
Multiply Imputed Version

For NHANES III, the body measurements protocol specified that skinfolds would be measured at four different anatomic body sites. Independent measures were taken at each body site by two technicians, resulting in a minimum of two skinfold observations for each site.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPSB1IF in the data file CORE.DAT.

BMPSB2MI: Second subscapular skinfold (mm)
Multiply Imputed Version

For NHANES III, the body measurements protocol specified that skinfolds would be measured at four different anatomic body sites. Independent measures were taken at each body site by two technicians, resulting in a minimum of two skinfold observations for each site.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPSB2IF in the data file CORE.DAT.

BMPSP1MI: First suprailiac skinfold (mm)
Multiply Imputed Version

For NHANES III, the body measurements protocol specified that skinfolds would be measured at four different anatomic body sites. Independent measures were taken at each body site by two technicians, resulting in a minimum of two skinfold observations for each site.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPSP1IF in the data file CORE.DAT.

BMPSP2MI: Second suprailiac skinfold (mm)
Multiply Imputed Version

For NHANES III, the body measurements protocol specified that skinfolds would be measured at four different anatomic body sites. Independent measures were taken at each body site by two technicians, resulting in a minimum of two skinfold observations for each site.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPSP2IF in the data file CORE.DAT.

BMPTR1MI: First triceps skinfold (mm)
Multiply Imputed Version

For NHANES III, the body measurements protocol specified that skinfolds would be measured at four different anatomic body sites. Independent measures were taken at each body site by two technicians, resulting in a minimum of two skinfold observations for each site.

Missing values in this variable have been imputed using model-based

methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPTR1IF in the data file CORE.DAT.

BMPTR2MI: Second triceps skinfold (mm)
Multiply Imputed Version

For NHANES III, the body measurements protocol specified that skinfolds would be measured at four different anatomic body sites. Independent measures were taken at each body site by two technicians, resulting in a minimum of two skinfold observations for each site.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPTR2IF in the data file CORE.DAT.

BMPWSTMI: Waist circumference (cm)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPWSTIF in the data file CORE.DAT.

BMPWTMI: Weight (kg)

Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable BMPWTIF in the data file CORE.DAT.

FEPMI: Serum iron (ug/dL)
Multiply Imputed Version

Laboratory methods differed between NHANES III and previous surveys. Therefore, results may not be comparable between surveys. Consult the Laboratory Procedures Used for NHANES III (U.S. DHHS, 1996).

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable FEPIF in the data file CORE.DAT.

FRPMI: Ferritin (ng/mL)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the

imputation flag variable FRPIF in the data file CORE.DAT.

HDPMI: Serum HDL cholesterol (mg/dL)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HDPIF in the data file CORE.DAT.

HGPMI: Hemoglobin (g/dL)

Multiply Imputed Version

In NHANES I, NHANES II, and HHANES, determinations of red and white blood cell counts were made using a semiautomated cell counter (Coulter model FN). Determinations of hemoglobin concentration (Hb) were made using a Coulter hemoglobinometer, and determinations of packed cell volume (PCV) were made using the microhematocrit centrifuge method. The hematologic indices MCH, MCHC, and MCV were calculated as follows:

MCH = Hb/RBC MCHC = Hb/PCV MCV = PCV/RBC

In NHANES III, these hematologic parameters were determined by using a fully automated Coulter S+JR hematology analyzer. These analyzers measured the mean (red) cell volume (MCV) directly, utilizing a process of continuous integration of pulse heights divided by the pulse number; PCV values were calculated through the multiplication of MCV and RBC.

Although it has been shown that identified errors in the microhematocrit method caused by plasma trapping and red cell dehydration approximately compensate each other (Bull, 1990), packing errors can occur in macrocytic anemia and can be considerable in sickle cell anemia, spherocytosis, and thalassemias (NCCLS, 1993). Therefore, individual values for MCV, PCV ('hematocrit'), and MCHC from NHANES III cannot be compared directly to values from the previous NHANES.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HGPIF in the data file CORE.DAT.

HTPMI: Hematocrit (%)

Multiply Imputed Version

See notes for HGPMI.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable HTPIF in the data file CORE.DAT.

MCPSIMI: Mean cell hemoglobin: SI (pg)
Multiply Imputed Version

See notes for HGPMI.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable MCPSIIF in the data file CORE.DAT.

MHPMI: Mean cell hemoglobin concentration (g/dL) Multiply Imputed Version

See notes for HGPMI.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable MHPIF in the data file CORE.DAT.

MVPSIMI: Mean cell volume: SI (fL)
Multiply Imputed Version

See notes for HGPMI.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable MVPSIIF in the data file CORE.DAT.

PBPMI: Lead (ug/dL)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PBPIF in the data file CORE.DAT.

PHPFSTMI: Length of calculated fast (in hours)
Multiply Imputed Version

The fasting time was calculated using the time of venipuncture and the time the examinee last ate or drank (other than water). This was determined using the snack/drink time and the corresponding day variables. Fasting time is the elapsed interval between the time the examinee last ate or drank and the time of venipuncture.

The following variables were used to calculate this variable: PHPSNTI, PHPSNDA, PHPDRIN, PHPDRTI, PHPDRDA, and PHPBEST. If the examinee drank only water since he/she last ate (PHPDRIN = 2), then the time and day the examinee last ate (PHPSNTI and PHPSNDA) were subtracted from the time and day of the venipuncture (PHPBEST). The difference was the number of hours between the time the examinee last ate and the time of the venipuncture.

If the examinee drank anything other than water (PHPDRIN = 1), then the time and day the examinee last drank (PHPDRTI and PHPDRDA) were subtracted from the time and day of the venipuncture (PHPBEST). The difference was the number of hours between the time the examinee last drank and the time of the venipuncture.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PHPFSTIF in the data file CORE.DAT.

PXPMI: Serum transferrin saturation (%)
Multiply Imputed Version

This value was calculated as (FEP/ TIP) \* 100.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PXPIF in the data file CORE.DAT.

RCPMI: Red blood cell count
Multiply Imputed Version

Consult the Manual for Medical Technicians for the Coulter granulocyte number, lymphocyte number, mononuclear number, white blood cell count, red blood cell count, and platelet count units (U.S. DHHS, 1996).

See notes for HGPMI.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable RCPIF in the data file CORE.DAT.

RWPMI: Red cell distribution width (%)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable RWPIF in the data file CORE.DAT.

SEPMI: Serum selenium (ng/mL)
Multiply Imputed Version

Selenium values were measured on two Perkin-Elmer graphite furnace atomic absorption spectrophotometers (model 3030 and model 5100) during the six-year study. Based on a comparability study using linear models, the results generated using the Model 5100 instrument (from 12/07/90 to 1/13/95) were on average 4.3 percent higher than those from the Model 3030 instrument (used from 10/1/88 to 12/06/90). Since the Model 5100 represented more precise measurements, the model 3030 data were adjusted to make them comparable to the Model 5100. Perkin-Elmer Model 5100 Zeeman-corrected graphite furnace atomic absorption spectrophotometer testing began on 12/07/90. All selenium values measured prior to 12/07/90 were adjusted to the AA5100 values. The formula used was:

New value = 16.795 + 0.902 \* original value.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable SEPIF in the data file CORE.DAT.

TCPMI: Serum cholesterol (mg/dL)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable TCPIF in the data file CORE.DAT.

TGPMI: Serum triglycerides (mg/dL)
Multiply Imputed Version

Serum triglyceride levels were measured regardless of the examinee's fasting status. Mean serum triglycerides and the distribution of serum triglycerides should be estimated only on examinees who did fast at least nine hours, were examined in the morning, and were randomly assigned to the morning fasting sample (WTPFHSD6 > 0). For the purpose of this calculation, the number of hours fasted was rounded to the nearest whole integer. Consult the Laboratory Procedures Used for NHANES III (U.S. DHHS, 1996) for details.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable TGPIF in the data file CORE.DAT.

TIPMI: Serum TIBC (ug/dL)

Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable TIPIF in the data file CORE.DAT.

FPPSUDMI: Summary drusen score
Multiply Imputed Version

The summary drusen score was derived from a combination of values from several variables.

Definite drusen present: FPP1230, hard drusen, and/or FPP1240, soft drusen, were coded '02 Yes.'

Questionable drusen present: Definite drusen were not present, and FPP1230, hard drusen, and/or FPP1240, soft drusen, were/was coded '01 Questionable.'

No drusen present: Neither definite nor questionable drusen was present, and FPP1230, hard drusen, and/or FPP1240, soft drusen, were/was coded '00 None.'

Cannot grade drusen: FPP1230, hard drusen, and FPP1240, soft drusen, were both treated as missing values.

Blank but applicable: FPP1060, gradability, was coded as missing, or FPP1020, fundus, was coded as '00' or missing.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable FPPSUDIF in the data file CORE.DAT.

FPPSUMMI: Summary age-related maculopathy score Multiply Imputed Version

The summary age-related maculopathy score was derived from a combination of values from several variables. A detailed description of lesions as defined by the Wisconsin Age-Related Maculopathy Grading System is available (Klein, 1991; NTIS, 1991).

Late age-related maculopathy: At least one of the following variables was coded '02 Yes.'

FPP1174, geographic atrophy
FPP1176, sub-retinal hemorrhage
FPP1178, sub-retinal fibrous scar
FPP1180, sensory serous (sub-retinal) detachment

Early age-related maculopathy: At least one of the following three sets of conditions was met.

FPP1172, degeneration of retinal pigment epithelium (RPE), was coded '02 Yes,' and (FPP1230, hard drusen, and/or FPP1240, soft drusen, were/was coded '02 Yes').

FPP1182, hyperpigmentation, was coded '02 Yes,' and (FPP1230, hard drusen, and/or FPP1240, soft drusen, were/was coded '02 Yes').

FPP1240, soft drusen, was coded '02 Yes,' and FPP1250, grid area, was coded 02-04 (equal to or greater than a circle 95 microns in diameter).

No age-related maculopathy: Early and late age-related maculopathy definitions were not met, and FPP1240, soft drusen, was coded 00-02 (gradable).

'Cannot grade' age-related maculopathy: Early and late age-related maculopathy definitions were not met, and FPP1240, soft drusen, was coded 'Can't grade' and treated as missing.

Blank but applicable: FPP1060, gradability, was coded '06 Entire field ungradable,' or FPP1020, fundus, was coded '00 Absent' or '88 Blank but applicable' and treated as missing.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable FPPSUMIF in the data file CORE.DAT.

FPPSURMI: Summary diabetic retinopathy score
Multiply Imputed Version

The summary diabetic retinopathy score was derived from a combination of values from several variables. That is, it combines the diabetic retinopathy level variable (FPP1070) and history of treatment for proliferative diabetic retinopathy (using the photocoagulation treatment outside the arcades variable (FPP1214) as a marker). A detailed description of lesions as defined by The Early Treatment Diabetic Retinopathy Study (ETDRS) is available in the ETDRS report #10 (The Early Treatment Diabetic Retinopathy Study, 1991). The NHANES III fundus photo grading protocol (NTIS, 1995) describes methods of assigning diabetic levels.

Proliferative diabetic retinopathy: At least one of the following two sets of conditions was met.

FPP1070, diabetic retinopathy level, was coded 060-070.

FPP1070, diabetic retinopathy level, has a code of anything other than '012 Non-diabetic retinopathy,' and FPP1214, photocoagulation treatment outside arcades, was coded '02 Yes.'

Moderate/severe non-proliferative retinopathy: FPP1070, diabetic retinopathy level, was coded '041 Moderate non-proliferative' or '051 Severe non-proliferative.'

Mild non-proliferative retinopathy: FPP1070, diabetic retinopathy level, was coded '020 Microaneurysms only' or '031 Early non-proliferative.'

No diabetic retinopathy: FPP1070, diabetic retinopathy level, was coded 010-015.

'Cannot grade' diabetic retinopathy: FPP1070, diabetic retinopathy level, was coded 'Can't grade' and treated as missing.

Blank but applicable: FPP1060, gradability, was coded '06 Entire field ungradable,' or FPP1020, fundus, was coded '00 Absent' or '88 Blank but applicable' and treated as missing.

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable FPPSURIF in the data file CORE.DAT.

PEP6G1MI: K1, systolic, for 1st BP (mmHg)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply

Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6G1IF in the data file CORE.DAT.

PEP6G2MI: K4, diastolic, for 1st BP(mmHg)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6G2IF in the data file CORE.DAT.

PEP6G3MI: K5, diastolic, for 1st BP(mmHg)
Multiply Imputed Version

Zero is considered a valid observation for diastolic (K5) measurements when pulse sounds continue to be heard down to 0 mm  ${\rm Hg.}$ 

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6G3IF in the data file CORE.DAT.

PEP6H1MI: K1, systolic, for 2nd BP (mmHg)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6H1IF in the data file CORE.DAT.

PEP6H2MI: K4, diastolic, for 2nd BP(mmHg)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6H2IF in the data file CORE.DAT.

PEP6H3MI: K5, diastolic, for 2nd BP(mmHg)
Multiply Imputed Version

Zero is considered a valid observation for diastolic (K5) measurements when pulse sounds continue to be heard down to 0 mm  ${\rm Hg}\,.$ 

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6H3IF in the data file CORE.DAT.

PEP6I1MI: K1, systolic, for 3rd BP (mmHg)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6I1IF in the data file CORE.DAT.

PEP6I2MI: K4, diastolic, for 3rd BP(mmHg)
Multiply Imputed Version

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6I2IF in the data file CORE.DAT.

PEP6I3MI: K5, diastolic, for 3rd BP(mmHg)
Multiply Imputed Version

Zero is considered a valid observation for diastolic (K5) measurements when pulse sounds continue to be heard down to 0 mm  ${\rm Hg}\,.$ 

Missing values in this variable have been imputed using model-based methods described in the documentation on the NHANES III Multiply Imputed Data Set CD-ROM. Imputed values may be identified by the imputation flag variable PEP6I3IF in the data file CORE.DAT.