

IMP5.DOC

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IMP5.PDF

NHANES III Multiply Imputed Data Set
File Index for Imputed Data File IMP5.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)	HAZBK1MI	34-36
K5 for second BP measurement (home)	HAZBK5MI	37-39
K1 for third BP measurement (home)	HAZCK1MI	40-42
K5 for third BP measurement (home)	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 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
Bone area of total region - cm sq	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
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Description	Variable Name	Positions
BODY MEASUREMENTS		
Buttocks circumference (cm)	BMPBUTMI	85-89
Head circumference (cm)	BMPHEAMI	90-93
Standing height (cm)	BMPHTMI	94-98
Knee height (cm)	BMPKNEMI	99-102
Recumbent length (cm)	BMPRECFMI	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)	BMPWSTMI	137-141
Weight (kg)	BMPWTMI	142-147
BLOOD AND URINE ASSAY ITEMS		
Serum iron (ug/dl)	FEPMI	148-150
Ferritin (ng/ml)	FRPMI	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)	TGPMI	215-218
Serum TIBC (ug/dl)	TIPMI	219-221
FUNDUS PHOTOGRAPHY		
Summary drusen score	FPPSUDMI	222-223
Summary age-related maculopathy score	FPPSUMMI	224-225
Summary diabetic retinopathy score	FPPSURMI	226-227

NHANES III Multiply Imputed Data Set
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Description	Variable Name	Positions

REPLICATE BLOOD PRESSURE (3x) FROM MEC EXAMINATION		
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

NHANES III Multiply Imputed Data File

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FILENAME=IMP5                      VERSION 1.0                      N=33994
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                                HOUSEHOLD FAMILY QUESTIONNAIRE ITEMS
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Positions          Item description
SAS name           Counts          and code          Notes
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        6-11          Poverty Income Ratio          See note
DMPPIRMI          33994          00.000-11.889

        12-12          Does anyone who lives here smoke          See note
HFF1MI          12502          1          Yes
                21492          2          No
    
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NHANES III Multiply Imputed Data File

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FILENAME=IMP5                      VERSION 1.0                          N=33994
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HOUSEHOLD ADULT QUESTIONNAIRE ITEMS

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Positions                            Item description
SAS name     Counts                    and code                           Notes
-----
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13-14				Would you say your health in general is excellent, very good, good, fair or poor?	See note
HAB1MI					
	13944	-9		Not applicable	
	3071	01		Excellent	
	4744	02		Very good	
	7196	03		Good	
	3997	04		Fair	
	1042	05		Poor	
15-16				How tall are you without shoes? (inches)	See note
HAM5MI					
	13944	-9		Not applicable	
	20050	41-91			
17-19				How much do you weigh without clothes or shoes? (pounds)	See note
HAM6MI					
	13944	-09		Not applicable	
	20050	057-450			
20-21				Beer, wine, and liquor per month (recode)	See note
HAN6SRMI					
	13944	-9		Not applicable	
	11243	01		0 times in past month	
	5523	02		1-10 times in past month	
	3284	03		11 or more times in past month	
22-23				How would you describe the condition of your natural teeth: poor?	See note
HAQ1MI					
	13944	-9		Not applicable	
	1449	01		Excellent	
	2435	02		Very good	
	5669	03		Good	
	4895	04		Fair	
	2863	05		Poor	
	2739	06		Has no natural teeth	
24-25				Do you smoke cigarettes now? (recode)	See note
HAR3RMI					
	13944	-9		Not applicable	
	4996	01		Yes	
	15054	02		No	

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NHANES III Multiply Imputed Data File

 FILENAME=IMP5

VERSION 1.0

N=33994

HOUSEHOLD ADULT QUESTIONNAIRE ITEMS

Positions		Item description	
SAS name	Counts	and code	Notes
26-27		Compared with most	See note
HAT28MI		(men/women) your age, would you say	
		that you are more active, less	
		active, or about the same?	
	13944	-9 Not applicable	
	6261	01 More active	
	4531	02 Less active	
	9258	03 About the same	
28-30		First Korotkoff sound (K1) for 1st home	See note
HAZAK1MI		measurement (systolic, mm Hg)	
	13944	-09 Not applicable	
	20050	072-260	
31-33		Fifth Korotkoff sound (K5) for 1st home	See note
HAZAK5MI		measurement (systolic, mm Hg)	
	13944	-09 Not applicable	
	20050	000-148	
34-36		First Korotkoff sound (K1) for 2nd home	See note
HAZBK1MI		measurement (systolic, mm Hg)	
	13944	-09 Not applicable	
	20050	074-264	
37-39		Fifth Korotkoff sound (K5) for 2nd home	See note
HAZBK5MI		measurement (systolic, mm Hg)	
	13944	-09 Not applicable	
	20050	000-154	
40-42		First Korotkoff sound (K1) for 3rd home	See note
HAZCK1MI		measurement (systolic, mm Hg)	
	13944	-09 Not applicable	
	20050	074-256	
43-45		Fifth Korotkoff sound (K5) for 3rd home	See note
HAZCK5MI		measurement (systolic, mm Hg)	
	13944	-09 Not applicable	
	20050	000-156	

3446	-009	Not applicable
30548	02.1-50.0	

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 (%)	See note
	2107	-0009 Not applicable	
	31887	000.2-098.5	
200-203 RCPMI		Red blood cell count	See note
	2107	-009 Not applicable	
	31887	1.69-6.84	
204-208 RWPMI		Red blood cell count	See note
	2107	-0009 Not applicable	
	31887	07.80-31.95	
209-211 SEPMI		Serum selenium (ng/mL)	See note
	11728	-09 Not applicable	
	22266	039-622	
212-214 TCPMI		Serum cholesterol (mg/dL)	See note
	5982	-09 Not applicable	
	28012	059-702	
215-218 TGPMI		Serum triglycerides (mg/dL)	See note
	5982	-009 Not applicable	
	28012	0013-3616	
219-221 TIPMI		Serum TIBC (ug/dL)	See note
	2107	-09 Not applicable	
	31887	069-866	

25976	-09	Not applicable
8018	002-104	

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 calendar 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.

BDPINDMI: BMD of intertrochanter 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 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 BDPTOAIIF 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.

BMPRECM1: 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:

$$\begin{aligned} \text{MCH} &= \text{Hb/RBC} \\ \text{MCHC} &= \text{Hb/PCV} \\ \text{MCV} &= \text{PCV/RBC} \end{aligned}$$

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 HTPPIF 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 RCPFI 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 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 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 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.