**Demographics Data**

**Demographic Variables and Sample Weights**

Demographic Variables and Sample Weights (DEMO\_H)

Data File: DEMO\_H.xpt

First Published: October 2015

Last Revised: NA

Component Description

The demographics file provides individual, family, and household level information on the following topics:

* Survey participant’s household interview and examination status
* Interview and examination sample weights
* Masked variance units
* Language of questionnaires used for the interviews conducted in the household and in the mobile examination center
* Use of proxy or interpreter during the interviews
* The six-month time period when the examination was performed
* Pregnancy status
* Household and family income
* Household and family sizes
* Household composition: the number of children (aged 5 years or younger and 6-17 years old), and adults aged 60 years or older, in the household
* Demographic information about the household reference person
* Other selected demographic information, such as gender, age, race/Hispanic origin, education, marital status, military service status, country of birth, citizenship, and years of U.S. residence

The format and coding for all the variables included in the 2013-14 NHANES demographics file are identical to those released for the 2011-12 survey cycle.

The sample design for NHANES 2011-14 includes an oversample of Asian Americans (Table 1). The variable RIDRETH3 is included to describe the participant’s race and Hispanic origin.

| Table 1. Unweighted sample size and percentage by race/Hispanic origin, from NHANES 2007-2010 and 2011-2014 for examined participants | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Hispanic | | Non-Hispanic | | | | Total |
|  | Mexican American | Other Hispanic | White, single race | Black, single race | Asian, single race | Other, including multiracial persons |  |
| 2007-2010 n (%) | 4,369 (21.8) | 2,250 (11.2) | 8,286 (41.4) | 4,044 (20.2) | n/a1 | 1,066 (5.3) | 20,015 (100.0) |
| 2011-2014 n (%) | 3,001 (15.7) | 1,941 (10.1) | 6,379 (33.3) | 4,780 (25.0) | 2,234 (11.7) | 816 (4.3) | 19,151 (100.0) |

1Non-Hispanic Asians were included in the “Other” category in 2007-10.

Similar to previous release cycles, the 2013-2014 demographics file includes a variable for age in years at screening (RIDAGEYR) for all participants. Age in months at screening (RIDAGEMN) is reported for participants aged 0 to 24 months, and age in months at examination (RIDEXAGM) is reported for participants aged 0 to 19 years only. Due to increasing concerns about potential disclosure risks, information on age in months at screening and at examination for participants in other age groups are no longer included in the public release file but are available through the [NCHS Research Data Center (RDC)](https://www.cdc.gov/rdc/).

Eligible Sample

The target age groups for demographic variables in this file vary by the topic. Please review the codebook carefully.

Interview Setting and Mode of Administration

The family and sample person demographics questionnaires were asked, in the home, by trained interviewers using Computer-Assisted Personal Interview (CAPI) system. The respondent selected the language of interview (English or Spanish) or requested that an interpreter be used. Hand cards, showing response choices or information that survey participants needed to answer the questions, were used for some questions. The hand cards were printed in English, Spanish, Mandarin Chinese (both traditional and simplified), Korean, and Vietnamese. The interviewer directed the respondent to the appropriate hand card during the interview. When necessary, the interviewer further assisted the respondent by reading the response choices listed on the hand cards.

Persons 16 years and older and emancipated minors were interviewed directly. A proxy provided information for survey participants who were under 16 and for participants who could not answer the questions themselves.

The NHANES 2013-2014 demographics questionnaires are available on the NHANES website at: <https://wwwn.cdc.gov/nchs/nhanes/continuousnhanes/questionnaires.aspx?BeginYear=2013>.

Quality Assurance & Quality Control

The CAPI system is programmed with built-in consistency checks to reduce data entry errors. CAPI also uses online help screens to assist interviewers in defining key terms used in the questionnaire.

After collection, interview data were reviewed by the NHANES field office staff for accuracy and completeness of selected items. The interviewers were required to record interviews periodically and the recorded interviews were reviewed by NCHS staff and interviewer supervisors.

Data Processing and Editing

Frequency counts were checked, “skip” patterns were verified, and the reasonableness of question responses was reviewed. Edits were made to some variables to ensure the completeness, consistency, and analytic usefulness of the data. Edits were also made, when necessary, to address data disclosure concerns.

SDDSRVYR: This variable represents the two-year data release cycle number.  A value of “8” denotes NHANES 2013–2014.

RIDSTATR: This status code is used to identify whether a participant was both interviewed at home and examined in the mobile examination center (MEC) or was only interviewed in the home but never went through the examination.

RIDAGEYR: Age in years, at the time of the screening interview, is reported for survey participants between the ages of 1 and 79 years of age. All responses of participants aged 80 years and older are coded as ‘80.’ The reporting of age in single years for adults 80 years and older was determined to be a disclosure risk. In NHANES 2013-2014, the weighted mean age for participants 80 years and older is 84 years.

RIDAGEYR was calculated based on the participant’s date of birth. In rare cases, the actual date of birth was missing but the participant’s age in years was provided, then the reported age was used.

RIDAGEMN: The age in months, at the time of the screening interview, is provided for participants who were less than 25 months of age at the time of examination (RIDEXAGM < 25). If the exact date of birth was not provided by the respondent, the age in months was calculated based on the imputed age in years at the time of the screening interview.

RIDEXAGM: The age in months, at the time of examination, is provided for participants who were less than 240 months of age at the time of examination (RIDEXAGM < 240).

RIDEXMON: This variable indicates the six-month time period when the examination was performed. A value of “1” indicates November 1st through April 30th; a value of “2” indicates May 1st through October 31st.

RIDRETH3: This is the race-ethnicity variable included in the demographics file since the 2011-2012 survey cycle to accommodate the oversample of non-Hispanic Asian. It was derived from responses to the survey questions on race and Hispanic origin. Respondents who self-identified as “Mexican American” were coded as such (i.e., RIDRETH3=1) regardless of their other race-ethnicity identities.  Otherwise, self-identified “Hispanic” ethnicity would result in code “2, Other Hispanic” in the RIDRETH3 variable. All other non-Hispanic participants would then be categorized based on their self-reported races: non-Hispanic white (RIDRETH3=3), non-Hispanic black (RIDRETH3=4), non-Hispanic Asian (RIDRETH3=6), and other non-Hispanic races including non-Hispanic multiracial (RIDRETH3=7).  Code “5” was not used in RIDRETH3.

RIDRETH1: This is the race-ethnicity variable that can be linked to the previous NHANES race-ethnicity variable in 1999-2010. Non-Hispanic Asian participants are grouped with other non-Hispanic races in code “5” (other non-Hispanic race including non-Hispanic multiracial) in RIDRETH1. Codes “6” and “7” were not used in RIDRETH1. Coding procedure for other categories in RIDRETH1 was compatible to RIDRETH3.

DMDBORN4: Due to the concerns of disclosure risk, starting in 2011, country of birth was recoded into two categories: 1) Born in 50 U.S. states or Washington, DC; and 2) Born in other countries, including U.S. territories.

DMDCITZN: Citizenship status is reported using two codes: 1) Citizen by birth or naturalization; or 2) Not a citizen of the U.S. Persons who were born in the U.S. or U.S. territories who acquired citizenship at birth were coded as U.S. citizens.

DMDMARTL: The marital status question was asked of persons 14 years of age and older. Due to disclosure risks, marital status is only released for persons 20 years of age and older.

RIDEXPRG: Pregnancy status at the time of the health examination was ascertained for females 8–59 years of age. Due to disclosure risks pregnancy status is only released for women 20-44 years of age. The information used to code RIDEXPRG values included self-reported pregnancy status and urine pregnancy test results. Persons who reported they were pregnant at the time of exam were assumed to be pregnant (RIDEXPRG=1). Those who reported they were not pregnant or did not know their pregnancy status were further classified based on the results of the urine pregnancy test. If the respondent reported “no” or “don’t know” and the urine test result was positive, the respondent was coded as pregnant (RIDEXPRG=1). If the respondent reported “no” and the urine test was negative, the respondent was coded not pregnant (RIDEXPRG=2). If the respondent reported did not know her pregnancy status and the urine test was negative, the respondent was coded "could not be determined” (RIDEXPRG=3). Persons who were interviewed, but not examined also have an RIDEXPRG value = 3 (could not be determined).

DMDYRSUS: This variable is the number of years the participant has lived in the United States. Participants who were born outside the U.S. were asked the month and year when they came to the U.S. to live (DMQ.160). A small number of records were imputed because the participant did not report the month of their arrival. A month value of 7 (July) was used to impute DMDYRSUS for these respondents. The responses to the question were recoded into 9 categories ranging from less than one year to 50 years or more.

DMDEDUC3: This variable provides information on the highest grade or level of education completed by participants 6-19 years of age. The responses were re-coded as follows: single years of education (grades 1-12), high school graduate/GED, and post-high school. Codes “55” (less than 5th grade) and “66” (less than 9th grade) were used to categorize older youth who had very low education levels.

DMDEDUC2: This variable is the highest grade or level of education completed by adults 20 years and older. The response categories are: less than 9th grade education, 9-11th grade education (includes 12th grade and no diploma), High school graduate/GED, some college or associates (AA) degree, and college graduate or higher.

DMQMILIZ: This is a variable included in the demographics file since the 2011-2012 survey cycle to provide information on whether the participant has ever served on active duty in the U.S. Armed Forces, military Reserves, or National Guard. Active duty does not include training for the Reserves or National Guard, but does include activation, for service in the U.S. or in a foreign country, in support of military or humanitarian operations.

Prior to 2011, the veteran status information (released in the variable DMQMILIT in the demographics file in 1999-2010) was collected in the survey using a question with different wording that asked if the participant had served in the U.S. Armed Forces.

DMQADFC: For participants who reported having served on active duty in the U.S. Armed Forces, this variable denotes whether the participant has ever served in a foreign country during a time of armed conflict or on a humanitarian or peace-keeping mission. This would include National Guard or reserve or active duty monitoring or conducting peace keeping operations in Bosnia and Kosovo, in the Sinai between Egypt and Israel, or in response to the 2004 tsunami or Haiti in 2010.

Similar to the 2011-2012 survey cycle, there are more detailed information on veterans collected in NHANES. Additional information for these veterans is available through the [NCHS RDC](https://www.cdc.gov/rdc/).

SIALANG: This variable indicates the language (English or Spanish) used during the sample person questionnaire interview conducted at the participant’s home.

SIAPROXY: This variable denotes whether a proxy respondent was used during the sample person questionnaire interview.

SIAINTRP: This variable denotes whether an interpreter was used during the sample person questionnaire interview. The language spoken by the respondent is only available through the [NCHS RDC](https://www.cdc.gov/rdc/).

FIALANG: This variable indicates the language used during the family questionnaire interview conducted at the participant’s home.

FIAPROXY: This variable denotes whether a proxy respondent was used to complete the family questionnaire interview.

FIAINTRP: This variable denotes whether an interpreter was used to complete the family questionnaire interview. The language spoken by the respondent is only available through the [NCHS RDC](https://www.cdc.gov/rdc/).

MIALANG: This variable indicates the language (English or Spanish) used for the CAPI portion of the MEC interview.

MIAPROXY: This variable denotes whether a proxy respondent was used during the CAPI portion of the MEC interview.

MIAINTRP: This variable denotes whether an interpreter was used during the CAPI portion of the MEC interview. The language spoken by the respondent is only available through the [NCHS RDC](https://www.cdc.gov/rdc/).

AIALANGZ: This variable indicates the language used for the audio-computer-assisted self-interviewing (ACASI) portion of the MEC interview. Starting 2011, the ACASI portion was translated into Chinese (traditional/Mandarin, simplified/Mandarin, and traditional/Cantonese), Korean, and Vietnamese to accommodate the Asian oversampling. The three categories reported are: 1) English, 2) Spanish, and 3) Asian languages.

INDFMIN2: This variable indicates the total annual family income or annual individual income (for households with one person or households comprised of unrelated individuals). A family is defined as a group of two people or more (one of whom is the householder) related by birth, marriage, or adoption and residing together.

During the household interview, the respondent was asked to report total income for the entire family (or individual) in the last calendar year in dollars. The reported dollar amount was re-coded into range values.

If the respondent was not willing or able to provide an exact dollar figure, the interviewer asked an additional question to determine whether the income was < $20,000 or ≥ $20,000. Based on the respondent’s answer to this question, he/she was asked to select a category of income from a list on a hand card. For respondents who selected a category of income, their family incomes were set as the midpoints of the selected ranges. If the respondent was unable to report greater detail than < $20,000 or ≥ $20,000, then these two categories were used to report the family (or individual) income.

INDFMPIR: This variable is the ratio of family income to poverty. The Department of Health and Human Services (HHS) poverty guidelines were used as the poverty measure to calculate this ratio. These guidelines are issued each year, in the Federal Register, for determining financial eligibility for certain federal programs, such as Head Start, Supplemental Nutrition Assistance Program (SNAP), Special Supplemental Nutrition Program for Women, Infants, and Children (WIC), and the National School Lunch Program. The poverty guidelines vary by family size and geographic location (with different guidelines for the 48 contiguous states and the District of Columbia; Alaska; and Hawaii).

INDFMPIR was calculated by dividing family (or individual) income by the poverty guidelines specific to the survey year. The value was not computed if the respondent only reported income as < $20,000 or ≥ $20,000. If family income was reported as a more detailed category, the midpoint of the range was used to compute the ratio. Values at or above 5.00 were coded as 5.00 or more because of disclosure concerns. The values were not computed if the income data was missing.

INDHHIN2: This variable indicates the total annual household income in dollar ranges. If a household was comprised of a single family or individual, the reported family income was used as household income as well. When more than one family, or one or more unrelated individuals, or a combination of a family and unrelated individuals resided in the household, the total household income was calculated by the sum of all reported family and/or individual income values. Please see above notes on variable INDFMIN2 for details on how the amounts of family income were determined.

When more than one family, or one or more unrelated individuals, or a combination of a family and unrelated individuals resided in the same household, they were asked to provide a total income estimate for the entire household, using similar questions as were used for family income. This estimated household income value was only used when: 1) the family income value was missing for one or more families in the household; and 2) the estimated value was equal or more than the sum of all known family incomes from the household. If different respondents in the household provided different estimates, the largest value was used. If none of the respondents provided a valid household income estimate, but the sum of known family and/or individual incomes was at least $100,000, then INDHHIN2 was categorized as “$100,000 and over.”

Similar to the family income category coding, the “$20,000 and over” and “under $20,000” categories were only used when no other valid value estimates were provided.

DMDFMSIZ: This variable is the number of people in the participant’s family. A family is defined as a group of people related by birth, marriage, or adoption and residing together. Due to disclosure concerns, families that are comprised of 7 or more people are included in the category that is labeled ‘7 or more’.

DMDHHSIZ: This variable is the number of people in the participant’s household. The values for this variable range from 1 to 7. Due to disclosure concerns, households that are comprised of 7 or more people are included in the category that is labeled ‘7 or more’.

DMDHHSZA: This variable is the number of children aged 5 years or younger living in the participant’s household. The values for this variable range from 0 to 3. Due to disclosure concerns, households that are comprised of 3 or more children aged 5 years or younger are included in the category that is labeled ‘3 or more’.

DMDHHSZB: This variable is the number of children aged 6-17 years old living in the participant’s household. The values for this variable range from 0 to 4. Due to disclosure concerns, households that are comprised of 4 or more children aged 6-17 years are included in the category that is labeled ‘4 or more’.

DMDHHSZE: This variable is the number of adults aged 60 years or older living in the participant’s household. The values for this variable range from 0 to 3. Due to disclosure concerns, households that are comprised of 3 or more adults aged 60 years or older are included in the category that is labeled ‘3 or more’.

Household Reference Person: The household reference person is defined as the first household member 18 years of age or older listed on the household member roster, who owns or rents the residence where members of the household reside. The household reference person is comparable to “family reference person” in NHANES programs prior to 1999. Analysts frequently use information about the reference persons to characterize the socioeconomic status of the households where survey participants reside. The demographics file includes information on the household reference person’s gender (DMDHRGND), age (DMDHRAGE), country of birth (DMDHRBR4), education level (DMDHREDU), and marital status (DMDHRMAR). Additionally, information on the education level of the household reference person’s spouse is included (DMDHSEDU).

Analytic Notes

As aforementioned, the sample design for NHANES 2011-14 includes an oversample of Asian Americans. For more details on sample design and related analytic issues, please refer to the NHANES Analytic Guidelines available at: <https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx>.

Age at screening: Age at screening was used to determine eligibility for an examination component and should be used for most analyses. However, when analyzing anthropometric data on children and youth from birth through 19 years, age in months at MEC examination was often the recommended age variable for analyses. To further facilitate these analyses, a variable, BMDBMIC, has been created as part of the Body Measures Exam file to provide analysts pre-computed BMI categories for children and adolescents aged 2 to 19 years at examination. For further details refer to the Body Measures Data File and Documentation.

DMDMARTL: Marital status is only released for persons 20 years of age and older because of potential disclosure risks. Prior to 2007, marital status was released for participants aged 14 and older. In NHANES 2013-2014, the number of married persons aged 14-19 is less than 2%.

RIDEXPRG: Because of possible disclosure risks, pregnancy status is only released for women aged 20-44 years. The percentage of pregnant women/girls aged 8-19 or 45-59 years is less than 1% in the 2013-2014 dataset.

Masked Variance Units (MVUs): Fifteen masked variance strata and 30 masked primary sampling units (PSUs) are included in the 2013-2014 NHANES demographics file. Each stratum has 2 PSUs. These MVUs are a collection of secondary sampling units that are aggregated into groups for the purpose of variance estimation. The variance estimates that are produced, using the MVUs, closely approximate the variances that would have been estimated using the “true” sample design variance units that are based on the actual survey sample strata and primary sampling units. MVUs are used to protect the confidentiality of information provided by survey participants and to reduce disclosure risks. The use of MVUs is described in the [NHANES Analytic Guidelines](https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx). Analysts should review the Guidelines carefully prior to analyzing the survey data.

Sample Weights: The 2-year sample weights (WTINT2YR, WTMEC2YR) should be used for all NHANES 2013-2014 analyses. Detailed instructions for combining datasets from previous NHANES cycles are provided in the NHANES Analytic Guidelines.

Please also refer to the [NHANES Analytic Guidelines](https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx) and the on-line [NHANES Tutorial](https://www.cdc.gov/nchs/tutorials/) for further details on the use of sample weights and other analytic issues.

Disclosure risks and issues pertaining to confidentiality protection prevent NCHS from releasing all of the NHANES demographic variables publicly. Additional information may be accessed through the NCHS RDC. Instructions for requesting use of these data are available from <https://www.cdc.gov/rdc/>.

References

* U.S. Department of Health & Human Services. Poverty Guidelines, Research, and Measurement. Washington, DC: U.S. Department of Health & Human Services. <http://aspe.hhs.gov/POVERTY/index.shtml>

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:

SEQN

SAS Label:

Respondent sequence number

English Text:

Respondent sequence number.

Target:

Both males and females 0 YEARS - 150 YEARS

SDDSRVYR - Data release cycle

Variable Name:

SDDSRVYR

SAS Label:

Data release cycle

English Text:

Data release cycle

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 8 | NHANES 2013-2014 public release | 10175 | 10175 |  |
| . | Missing | 0 | 10175 |  |

RIDSTATR - Interview/Examination status

Variable Name:

RIDSTATR

SAS Label:

Interview/Examination status

English Text:

Interview and examination status of the participant.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Interviewed only | 362 | 362 |  |
| 2 | Both interviewed and MEC examined | 9813 | 10175 |  |
| . | Missing | 0 | 10175 |  |

RIAGENDR - Gender

Variable Name:

RIAGENDR

SAS Label:

Gender

English Text:

Gender of the participant.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Male | 5003 | 5003 |  |
| 2 | Female | 5172 | 10175 |  |
| . | Missing | 0 | 10175 |  |

RIDAGEYR - Age in years at screening

Variable Name:

RIDAGEYR

SAS Label:

Age in years at screening

English Text:

Age in years of the participant at the time of screening. Individuals 80 and over are topcoded at 80 years of age.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 79 | Range of Values | 9823 | 9823 |  |
| 80 | 80 years of age and over | 352 | 10175 |  |
| . | Missing | 0 | 10175 |  |

RIDAGEMN - Age in months at screening - 0 to 24 mos

Variable Name:

RIDAGEMN

SAS Label:

Age in months at screening - 0 to 24 mos

English Text:

Age in months of the participant at the time of screening. Reported for persons aged 24 months or younger at the time of exam (or screening if not examined).

Target:

Both males and females 0 YEARS - 2 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 24 | Range of Values | 673 | 673 |  |
| . | Missing | 9502 | 10175 |  |

RIDRETH1 - Race/Hispanic origin

Variable Name:

RIDRETH1

SAS Label:

Race/Hispanic origin

English Text:

Recode of reported race and Hispanic origin information

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Mexican American | 1730 | 1730 |  |
| 2 | Other Hispanic | 960 | 2690 |  |
| 3 | Non-Hispanic White | 3674 | 6364 |  |
| 4 | Non-Hispanic Black | 2267 | 8631 |  |
| 5 | Other Race - Including Multi-Racial | 1544 | 10175 |  |
| . | Missing | 0 | 10175 |  |

RIDRETH3 - Race/Hispanic origin w/ NH Asian

Variable Name:

RIDRETH3

SAS Label:

Race/Hispanic origin w/ NH Asian

English Text:

Recode of reported race and Hispanic origin information, with Non-Hispanic Asian Category

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Mexican American | 1730 | 1730 |  |
| 2 | Other Hispanic | 960 | 2690 |  |
| 3 | Non-Hispanic White | 3674 | 6364 |  |
| 4 | Non-Hispanic Black | 2267 | 8631 |  |
| 6 | Non-Hispanic Asian | 1074 | 9705 |  |
| 7 | Other Race - Including Multi-Racial | 470 | 10175 |  |
| . | Missing | 0 | 10175 |  |

RIDEXMON - Six month time period

Variable Name:

RIDEXMON

SAS Label:

Six month time period

English Text:

Six month time period when the examination was performed - two categories: November 1 through April 30, May 1 through October 31.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | November 1 through April 30 | 4823 | 4823 |  |
| 2 | May 1 through October 31 | 4990 | 9813 |  |
| . | Missing | 362 | 10175 |  |

RIDEXAGM - Age in months at exam - 0 to 19 years

Variable Name:

RIDEXAGM

SAS Label:

Age in months at exam - 0 to 19 years

English Text:

Age in months of the participant at the time of examination. Reported for persons aged 19 years or younger at the time of examination.

Target:

Both males and females 0 YEARS - 19 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 239 | Range of Values | 4213 | 4213 |  |
| . | Missing | 5962 | 10175 |  |

DMQMILIZ - Served active duty in US Armed Forces

Variable Name:

DMQMILIZ

SAS Label:

Served active duty in US Armed Forces

English Text:

{Have you/Has SP} ever served on active duty in the U.S. Armed Forces, military Reserves, or National Guard? (Active duty does not include training for the Reserves or National Guard, but does include activation, for service in the U.S. or in a foreign country, in support of military or humanitarian operations.)

Target:

Both males and females 17 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 543 | 543 |  |
| 2 | No | 5717 | 6260 | DMDBORN4 |
| 7 | Refused | 1 | 6261 | DMDBORN4 |
| 9 | Don't Know | 0 | 6261 | DMDBORN4 |
| . | Missing | 3914 | 10175 |  |

DMQADFC - Served in a foreign country

Variable Name:

DMQADFC

SAS Label:

Served in a foreign country

English Text:

Did {you/SP} ever serve in a foreign country during a time of armed conflict or on a humanitarian or peace-keeping mission? (This would include National Guard or reserve or active duty monitoring or conducting peace keeping operations in Bosnia and Kosovo, in the Sinai between Egypt and Israel, or in response to the 2004 tsunami or Haiti in 2010.)

Target:

Both males and females 17 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 282 | 282 |  |
| 2 | No | 260 | 542 |  |
| 7 | Refused | 0 | 542 |  |
| 9 | Don't Know | 1 | 543 |  |
| . | Missing | 9632 | 10175 |  |

DMDBORN4 - Country of birth

Variable Name:

DMDBORN4

SAS Label:

Country of birth

English Text:

In what country {were you/was SP} born?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Born in 50 US states or Washington, DC | 8262 | 8262 |  |
| 2 | Others | 1908 | 10170 |  |
| 77 | Refused | 4 | 10174 |  |
| 99 | Don't Know | 1 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDCITZN - Citizenship status

Variable Name:

DMDCITZN

SAS Label:

Citizenship status

English Text:

{Are you/Is SP} a citizen of the United States? [Information about citizenship is being collected by the U.S. Public Health Service to perform health related research. Providing this information is voluntary and is collected under the authority of the Public Health Service Act. There will be no effect on pending immigration or citizenship petitions.]

English Instructions:

HAND CARD DMQ2

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Citizen by birth or naturalization | 9220 | 9220 |  |
| 2 | Not a citizen of the US | 944 | 10164 |  |
| 7 | Refused | 4 | 10168 |  |
| 9 | Don't Know | 3 | 10171 |  |
| . | Missing | 4 | 10175 |  |

DMDYRSUS - Length of time in US

Variable Name:

DMDYRSUS

SAS Label:

Length of time in US

English Text:

Length of time the participant has been in the US.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Less than 1 year | 70 | 70 |  |
| 2 | 1 year or more, but less than 5 years | 170 | 240 |  |
| 3 | 5 year or more, but less than 10 years | 234 | 474 |  |
| 4 | 10 year or more, but less than 15 years | 298 | 772 |  |
| 5 | 15 year or more, but less than 20 years | 210 | 982 |  |
| 6 | 20 year or more, but less than 30 years | 342 | 1324 |  |
| 7 | 30 year or more, but less than 40 years | 246 | 1570 |  |
| 8 | 40 year or more, but less than 50 years | 146 | 1716 |  |
| 9 | 50 years or more | 106 | 1822 |  |
| 77 | Refused | 41 | 1863 |  |
| 99 | Don't Know | 45 | 1908 |  |
| . | Missing | 8267 | 10175 |  |

DMDEDUC3 - Education level - Children/Youth 6-19

Variable Name:

DMDEDUC3

SAS Label:

Education level - Children/Youth 6-19

English Text:

What is the highest grade or level of school {you have/SP has} completed or the highest degree {you have/s/he has} received?

English Instructions:

HAND CARD DMQ1 READ HAND CARD CATEGORIES IF NECESSARY ENTER HIGHEST LEVEL OF SCHOOL

Target:

Both males and females 6 YEARS - 19 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 | Never attended / kindergarten only | 277 | 277 |  |
| 1 | 1st grade | 237 | 514 |  |
| 2 | 2nd grade | 231 | 745 |  |
| 3 | 3rd grade | 215 | 960 |  |
| 4 | 4th grade | 234 | 1194 |  |
| 5 | 5th grade | 212 | 1406 |  |
| 6 | 6th grade | 178 | 1584 |  |
| 7 | 7th grade | 203 | 1787 |  |
| 8 | 8th grade | 189 | 1976 |  |
| 9 | 9th grade | 194 | 2170 |  |
| 10 | 10th grade | 162 | 2332 |  |
| 11 | 11th grade | 186 | 2518 |  |
| 12 | 12th grade, no diploma | 45 | 2563 |  |
| 13 | High school graduate | 137 | 2700 |  |
| 14 | GED or equivalent | 9 | 2709 |  |
| 15 | More than high school | 81 | 2790 |  |
| 55 | Less than 5th grade | 3 | 2793 |  |
| 66 | Less than 9th grade | 9 | 2802 |  |
| 77 | Refused | 0 | 2802 |  |
| 99 | Don't Know | 1 | 2803 |  |
| . | Missing | 7372 | 10175 |  |

DMDEDUC2 - Education level - Adults 20+

Variable Name:

DMDEDUC2

SAS Label:

Education level - Adults 20+

English Text:

What is the highest grade or level of school {you have/SP has} completed or the highest degree {you have/s/he has} received?

English Instructions:

HAND CARD DMQ1 READ HAND CARD CATEGORIES IF NECESSARY ENTER HIGHEST LEVEL OF SCHOOL

Target:

Both males and females 20 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Less than 9th grade | 455 | 455 |  |
| 2 | 9-11th grade (Includes 12th grade with no diploma) | 791 | 1246 |  |
| 3 | High school graduate/GED or equivalent | 1303 | 2549 |  |
| 4 | Some college or AA degree | 1770 | 4319 |  |
| 5 | College graduate or above | 1443 | 5762 |  |
| 7 | Refused | 2 | 5764 |  |
| 9 | Don't Know | 5 | 5769 |  |
| . | Missing | 4406 | 10175 |  |

DMDMARTL - Marital status

Variable Name:

DMDMARTL

SAS Label:

Marital status

English Text:

Marital status

Target:

Both males and females 20 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Married | 2965 | 2965 |  |
| 2 | Widowed | 436 | 3401 |  |
| 3 | Divorced | 659 | 4060 |  |
| 4 | Separated | 177 | 4237 |  |
| 5 | Never married | 1112 | 5349 |  |
| 6 | Living with partner | 417 | 5766 |  |
| 77 | Refused | 2 | 5768 |  |
| 99 | Don't Know | 1 | 5769 |  |
| . | Missing | 4406 | 10175 |  |

RIDEXPRG - Pregnancy status at exam

Variable Name:

RIDEXPRG

SAS Label:

Pregnancy status at exam

English Text:

Pregnancy status for females between 20 and 44 years of age at the time of MEC exam.

Target:

Females only 20 YEARS - 44 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes, positive lab pregnancy test or self-reported pregnant at exam | 65 | 65 |  |
| 2 | The participant was not pregnant at exam | 1150 | 1215 |  |
| 3 | Cannot ascertain if the participant is pregnant at exam | 94 | 1309 |  |
| . | Missing | 8866 | 10175 |  |

SIALANG - Language of SP Interview

Variable Name:

SIALANG

SAS Label:

Language of SP Interview

English Text:

Language of the Sample Person Interview Instrument

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | English | 9100 | 9100 |  |
| 2 | Spanish | 1075 | 10175 |  |
| . | Missing | 0 | 10175 |  |

SIAPROXY - Proxy used in SP Interview?

Variable Name:

SIAPROXY

SAS Label:

Proxy used in SP Interview?

English Text:

Was a Proxy respondent used in conducting the Sample Person (SP) interview?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 3757 | 3757 |  |
| 2 | No | 6417 | 10174 |  |
| . | Missing | 1 | 10175 |  |

SIAINTRP - Interpreter used in SP Interview?

Variable Name:

SIAINTRP

SAS Label:

Interpreter used in SP Interview?

English Text:

Was an interpreter used to conduct the Sample Person (SP) interview?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 342 | 342 |  |
| 2 | No | 9833 | 10175 |  |
| . | Missing | 0 | 10175 |  |

FIALANG - Language of Family Interview

Variable Name:

FIALANG

SAS Label:

Language of Family Interview

English Text:

Language of the Family Interview Instrument

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | English | 9417 | 9417 |  |
| 2 | Spanish | 637 | 10054 |  |
| . | Missing | 121 | 10175 |  |

FIAPROXY - Proxy used in Family Interview?

Variable Name:

FIAPROXY

SAS Label:

Proxy used in Family Interview?

English Text:

Was a Proxy respondent used in conducting the Family Interview?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 13 | 13 |  |
| 2 | No | 10041 | 10054 |  |
| . | Missing | 121 | 10175 |  |

FIAINTRP - Interpreter used in Family Interview?

Variable Name:

FIAINTRP

SAS Label:

Interpreter used in Family Interview?

English Text:

Was an interpreter used to conduct the Family interview?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 311 | 311 |  |
| 2 | No | 9743 | 10054 |  |
| . | Missing | 121 | 10175 |  |

MIALANG - Language of MEC Interview

Variable Name:

MIALANG

SAS Label:

Language of MEC Interview

English Text:

Language of the MEC CAPI Interview Instrument

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | English | 6904 | 6904 |  |
| 2 | Spanish | 407 | 7311 |  |
| . | Missing | 2864 | 10175 |  |

MIAPROXY - Proxy used in MEC Interview?

Variable Name:

MIAPROXY

SAS Label:

Proxy used in MEC Interview?

English Text:

Was a Proxy respondent used in conducting the MEC CAPI Interview?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 48 | 48 |  |
| 2 | No | 7264 | 7312 |  |
| . | Missing | 2863 | 10175 |  |

MIAINTRP - Interpreter used in MEC Interview?

Variable Name:

MIAINTRP

SAS Label:

Interpreter used in MEC Interview?

English Text:

Was an interpreter used to conduct the MEC CAPI interview?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 247 | 247 |  |
| 2 | No | 7066 | 7313 |  |
| . | Missing | 2862 | 10175 |  |

AIALANGA - Language of ACASI Interview

Variable Name:

AIALANGA

SAS Label:

Language of ACASI Interview

English Text:

Language of the MEC ACASI Interview Instrument

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | English | 5762 | 5762 |  |
| 2 | Spanish | 482 | 6244 |  |
| 3 | Asian languages | 73 | 6317 |  |
| . | Missing | 3858 | 10175 |  |

DMDHHSIZ - Total number of people in the Household

Variable Name:

DMDHHSIZ

SAS Label:

Total number of people in the Household

English Text:

Total number of people in the Household

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | 1 | 817 | 817 |  |
| 2 | 2 | 1787 | 2604 |  |
| 3 | 3 | 1779 | 4383 |  |
| 4 | 4 | 2100 | 6483 |  |
| 5 | 5 | 1781 | 8264 |  |
| 6 | 6 | 985 | 9249 |  |
| 7 | 7 or more people in the Household | 926 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDFMSIZ - Total number of people in the Family

Variable Name:

DMDFMSIZ

SAS Label:

Total number of people in the Family

English Text:

Total number of people in the Family

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | 1 | 1297 | 1297 |  |
| 2 | 2 | 1610 | 2907 |  |
| 3 | 3 | 1737 | 4644 |  |
| 4 | 4 | 2027 | 6671 |  |
| 5 | 5 | 1723 | 8394 |  |
| 6 | 6 | 961 | 9355 |  |
| 7 | 7 or more people in the Family | 820 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDHHSZA - # of children 5 years or younger in HH

Variable Name:

DMDHHSZA

SAS Label:

# of children 5 years or younger in HH

English Text:

Number of children aged 5 years or younger in the household

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 | 0 | 6417 | 6417 |  |
| 1 | 1 | 2341 | 8758 |  |
| 2 | 2 | 1068 | 9826 |  |
| 3 | 3 or more | 349 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDHHSZB - # of children 6-17 years old in HH

Variable Name:

DMDHHSZB

SAS Label:

# of children 6-17 years old in HH

English Text:

Number of children aged 6-17 years old in the household

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 | 0 | 4907 | 4907 |  |
| 1 | 1 | 2099 | 7006 |  |
| 2 | 2 | 1814 | 8820 |  |
| 3 | 3 | 887 | 9707 |  |
| 4 | 4 or more | 468 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDHHSZE - # of adults 60 years or older in HH

Variable Name:

DMDHHSZE

SAS Label:

# of adults 60 years or older in HH

English Text:

Number of adults aged 60 years or older in the household

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 | 0 | 7384 | 7384 |  |
| 1 | 1 | 1612 | 8996 |  |
| 2 | 2 | 1114 | 10110 |  |
| 3 | 3 or more | 65 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDHRGND - HH ref person's gender

Variable Name:

DMDHRGND

SAS Label:

HH ref person's gender

English Text:

HH reference person's gender

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Male | 5088 | 5088 |  |
| 2 | Female | 5087 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDHRAGE - HH ref person's age in years

Variable Name:

DMDHRAGE

SAS Label:

HH ref person's age in years

English Text:

HH reference person's age in years

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 18 to 79 | Range of Values | 9815 | 9815 |  |
| 80 | 80 years of age and over | 360 | 10175 |  |
| . | Missing | 0 | 10175 |  |

DMDHRBR4 - HH ref person's country of birth

Variable Name:

DMDHRBR4

SAS Label:

HH ref person's country of birth

English Text:

HH reference person's country of birth

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Born in 50 US states or Washington, DC | 6894 | 6894 |  |
| 2 | Others | 2972 | 9866 |  |
| 77 | Refused | 12 | 9878 |  |
| 99 | Don't Know | 0 | 9878 |  |
| . | Missing | 297 | 10175 |  |

DMDHREDU - HH ref person's education level

Variable Name:

DMDHREDU

SAS Label:

HH ref person's education level

English Text:

HH reference person's education level

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Less Than 9th Grade | 785 | 785 |  |
| 2 | 9-11th Grade (Includes 12th grade with no diploma) | 1405 | 2190 |  |
| 3 | High School Grad/GED or Equivalent | 2282 | 4472 |  |
| 4 | Some College or AA degree | 2969 | 7441 |  |
| 5 | College Graduate or above | 2413 | 9854 |  |
| 7 | Refused | 9 | 9863 |  |
| 9 | Don't Know | 18 | 9881 |  |
| . | Missing | 294 | 10175 |  |

DMDHRMAR - HH ref person's marital status

Variable Name:

DMDHRMAR

SAS Label:

HH ref person's marital status

English Text:

HH reference person's marital status

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Married | 5843 | 5843 |  |
| 2 | Widowed | 532 | 6375 |  |
| 3 | Divorced | 1087 | 7462 |  |
| 4 | Separated | 396 | 7858 |  |
| 5 | Never married | 1340 | 9198 |  |
| 6 | Living with partner | 801 | 9999 |  |
| 77 | Refused | 46 | 10045 |  |
| 99 | Don't Know | 7 | 10052 |  |
| . | Missing | 123 | 10175 |  |

DMDHSEDU - HH ref person's spouse's education level

Variable Name:

DMDHSEDU

SAS Label:

HH ref person's spouse's education level

English Text:

HH reference person's spouse's education level

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Less Than 9th Grade | 496 | 496 |  |
| 2 | 9-11th Grade (Includes 12th grade with no diploma) | 632 | 1128 |  |
| 3 | High School Grad/GED or Equivalent | 1063 | 2191 |  |
| 4 | Some College or AA degree | 1470 | 3661 |  |
| 5 | College Graduate or above | 1664 | 5325 |  |
| 7 | Refused | 1 | 5326 |  |
| 9 | Don't Know | 16 | 5342 |  |
| . | Missing | 4833 | 10175 |  |

WTINT2YR - Full sample 2 year interview weight

Variable Name:

WTINT2YR

SAS Label:

Full sample 2 year interview weight

English Text:

Full sample 2 year interview weight.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 3697.772098 to 167884.54371 | Range of Values | 10175 | 10175 |  |
| . | Missing | 0 | 10175 |  |

WTMEC2YR - Full sample 2 year MEC exam weight

Variable Name:

WTMEC2YR

SAS Label:

Full sample 2 year MEC exam weight

English Text:

Full sample 2 year MEC exam weight.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 3748.417657 to 171395.2649 | Range of Values | 9813 | 9813 |  |
| 0 | Not MEC Examined | 362 | 10175 |  |
| . | Missing | 0 | 10175 |  |

SDMVPSU - Masked variance pseudo-PSU

Variable Name:

SDMVPSU

SAS Label:

Masked variance pseudo-PSU

English Text:

Masked variance unit pseudo-PSU variable for variance estimation

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 to 2 | Range of Values | 10175 | 10175 |  |
| . | Missing | 0 | 10175 |  |

SDMVSTRA - Masked variance pseudo-stratum

Variable Name:

SDMVSTRA

SAS Label:

Masked variance pseudo-stratum

English Text:

Masked variance unit pseudo-stratum variable for variance estimation

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 104 to 118 | Range of Values | 10175 | 10175 |  |
| . | Missing | 0 | 10175 |  |

INDHHIN2 - Annual household income

Variable Name:

INDHHIN2

SAS Label:

Annual household income

English Text:

Total household income (reported as a range value in dollars)

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | $ 0 to $ 4,999 | 273 | 273 |  |
| 2 | $ 5,000 to $ 9,999 | 407 | 680 |  |
| 3 | $10,000 to $14,999 | 639 | 1319 |  |
| 4 | $15,000 to $19,999 | 658 | 1977 |  |
| 5 | $20,000 to $24,999 | 880 | 2857 |  |
| 6 | $25,000 to $34,999 | 1185 | 4042 |  |
| 7 | $35,000 to $44,999 | 913 | 4955 |  |
| 8 | $45,000 to $54,999 | 764 | 5719 |  |
| 9 | $55,000 to $64,999 | 521 | 6240 |  |
| 10 | $65,000 to $74,999 | 378 | 6618 |  |
| 12 | $20,000 and Over | 323 | 6941 |  |
| 13 | Under $20,000 | 133 | 7074 |  |
| 14 | $75,000 to $99,999 | 860 | 7934 |  |
| 15 | $100,000 and Over | 1781 | 9715 |  |
| 77 | Refused | 252 | 9967 |  |
| 99 | Don't know | 75 | 10042 |  |
| . | Missing | 133 | 10175 |  |

INDFMIN2 - Annual family income

Variable Name:

INDFMIN2

SAS Label:

Annual family income

English Text:

Total family income (reported as a range value in dollars)

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | $ 0 to $ 4,999 | 375 | 375 |  |
| 2 | $ 5,000 to $ 9,999 | 467 | 842 |  |
| 3 | $10,000 to $14,999 | 691 | 1533 |  |
| 4 | $15,000 to $19,999 | 706 | 2239 |  |
| 5 | $20,000 to $24,999 | 897 | 3136 |  |
| 6 | $25,000 to $34,999 | 1182 | 4318 |  |
| 7 | $35,000 to $44,999 | 913 | 5231 |  |
| 8 | $45,000 to $54,999 | 740 | 5971 |  |
| 9 | $55,000 to $64,999 | 502 | 6473 |  |
| 10 | $65,000 to $74,999 | 381 | 6854 |  |
| 12 | $20,000 and Over | 219 | 7073 |  |
| 13 | Under $20,000 | 129 | 7202 |  |
| 14 | $75,000 to $99,999 | 835 | 8037 |  |
| 15 | $100,000 and Over | 1701 | 9738 |  |
| 77 | Refused | 246 | 9984 |  |
| 99 | Don't know | 68 | 10052 |  |
| . | Missing | 123 | 10175 |  |

INDFMPIR - Ratio of family income to poverty

Variable Name:

INDFMPIR

SAS Label:

Ratio of family income to poverty

English Text:

A ratio of family income to poverty guidelines.

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 4.99 | Range of Values | 7974 | 7974 |  |
| 5 | Value greater than or equal to 5.00 | 1416 | 9390 |  |
| . | Missing | 785 | 10175 |  |

**Examination Data**

**Blood Pressure**

Blood Pressure (BPX\_H)

Data File: BPX\_H.xpt

First Published: October 2015

Last Revised: NA

Component Description

This section provides data for three consecutive blood pressure (BP) measurements and other methodological measurements to obtain an accurate blood pressure.

Eligible Sample

Heart rate is measured on all children 0-7 years of age; radial pulse is measured on participants 8 years and older; and blood pressure (BP) is measured on all participants 8 years and older.

Protocol and Procedure

After resting quietly in a seated position for 5 minutes and once the participants maximum inflation level (MIL) has been determined, three consecutive blood pressure readings are obtained. If a blood pressure measurement is interrupted or incomplete, a fourth attempt may be made. All BP determinations (systolic and diastolic) are taken in the mobile examination center (MEC). Participants with any of the following on both arms were excluded from the exam: rashes, gauze dressings, casts, edema, paralysis, tubes, open sores or wounds, withered arms, a-v shunts, radical mastectomy, or if BP cuff does not fit on the arm.

Quality Assurance & Quality Control

The BP examiners are certified for blood pressure measurement through a training program from Shared Care Research and Education Consulting. Certification is achieved when physician examiners meet all requirements of the training program. The initial training includes:

* didactic instruction about BP measurement and propensity for error;
* listening to systolic and diastolic BP sounds using a standardized audio-video tape presentation;
* an audio-video tape test;
* a written exam; and
* simultaneously listening to BP on a minimum of 20 volunteers, of all ages, through a Y- stethoscope to compare measures with a gold standard instructor who does the same.

Certification requires a score of 100 percent on the audio-video tape test. Correct answers on the audio-video tape test require the examiner’s answers and the standardized test answers to be within +/- 2mm of mercury (Hg) on 92 percent of 24 measures (12 systolic, 12 diastolic), and within +/- 4mmHg on 100 percent of 24 measures (12 systolic, 12 diastolic).  
  
For more details on the QA/QC process for this component, please refer to the Physician Examination Manual located on the NHANES website at the following link: <https://wwwn.cdc.gov/nchs/nhanes/continuousnhanes/manuals.aspx?BeginYear=2013>

Data Processing and Editing

The following are some specifications used in capturing the BP data:

Systolic blood pressure and maximum inflation level cannot be greater than 300 mmHg;

Systolic and diastolic blood pressure measurements and the maximum inflation level can be even numbers only;

Systolic blood pressure must be greater than diastolic blood pressure;

If there is no systolic blood pressure, there can be no diastolic blood pressure. (There can be a systolic measurement without a diastolic measurement.); and

Diastolic blood pressure can be zero.

Analytic Notes

        Changes Since 2011-2012:

| Discontinued Questions | | | |
| --- | --- | --- | --- |
| BPQ150A | BPQ150B | BPQ150C | BPQ150D |

Exam sample weights should be used for analyses. Please refer to the NHANES Analytic Guidelines (<https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx>) and the on-line NHANES Tutorial (<https://www.cdc.gov/nchs/tutorials/>) for further details on the use of sample weights and other analytic issues.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:

SEQN

SAS Label:

Respondent sequence number

English Text:

Respondent sequence number.

Target:

Both males and females 0 YEARS - 150 YEARS

PEASCST1 - Blood Pressure Status

Variable Name:

PEASCST1

SAS Label:

Blood Pressure Status

English Text:

Blood Pressure Status

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Complete | 9493 | 9493 |  |
| 2 | Partial | 3 | 9496 |  |
| 3 | Not done | 317 | 9813 |  |
| . | Missing | 0 | 9813 |  |

PEASCTM1 - Blood Pressure Time in Seconds

Variable Name:

PEASCTM1

SAS Label:

Blood Pressure Time in Seconds

English Text:

Blood Pressure Time in Seconds

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 7 to 2868 | Range of Values | 9508 | 9508 |  |
| . | Missing | 305 | 9813 |  |

PEASCCT1 - Blood Pressure Comment

Variable Name:

PEASCCT1

SAS Label:

Blood Pressure Comment

English Text:

Blood Pressure Comment

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Safety exclusion | 4 | 4 |  |
| 2 | SP refusal | 16 | 20 |  |
| 3 | No time | 7 | 27 |  |
| 4 | Physical limitation | 14 | 41 |  |
| 5 | Communication problem | 1 | 42 |  |
| 6 | Equipment failure | 1 | 43 |  |
| 7 | SP ill/emergency | 12 | 55 |  |
| 56 | Came late/left early | 184 | 239 |  |
| 72 | Error (technician/software/supply) | 3 | 242 |  |
| 84 | SP with child | 4 | 246 |  |
| 99 | Other, specify | 69 | 315 |  |
| 122 | Language barrier | 5 | 320 |  |
| . | Missing | 9493 | 9813 |  |

BPXCHR - 60 sec HR (30 sec HR \* 2)

Variable Name:

BPXCHR

SAS Label:

60 sec HR (30 sec HR \* 2)

English Text:

60 sec HR (30 sec HR \* 2)

Target:

Both males and females 0 YEARS - 7 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 60 to 178 | Range of Values | 1961 | 1961 |  |
| . | Missing | 7852 | 9813 |  |

BPAARM - Arm selected

Variable Name:

BPAARM

SAS Label:

Arm selected

English Text:

Arm selected:

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Right | 7480 | 7480 |  |
| 2 | Left | 54 | 7534 |  |
| 8 | Could not obtain | 1 | 7535 |  |
| . | Missing | 2278 | 9813 |  |

BPACSZ - Coded cuff size

Variable Name:

BPACSZ

SAS Label:

Coded cuff size

English Text:

Cuff size (cm) (width X length)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Infant (6X12) | 2 | 2 |  |
| 2 | Child (9X17) | 450 | 452 |  |
| 3 | Adult (12X22) | 2590 | 3042 |  |
| 4 | Large (15X32) | 3452 | 6494 |  |
| 5 | Thigh (18X35) | 1048 | 7542 |  |
| . | Missing | 2271 | 9813 |  |

BPXPLS - 60 sec. pulse (30 sec. pulse \* 2)

Variable Name:

BPXPLS

SAS Label:

60 sec. pulse (30 sec. pulse \* 2)

English Text:

60 sec. pulse (30 sec. pulse \* 2)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 40 to 180 | Range of Values | 7549 | 7549 |  |
| . | Missing | 2264 | 9813 |  |

BPXPULS - Pulse regular or irregular?

Variable Name:

BPXPULS

SAS Label:

Pulse regular or irregular?

English Text:

Pulse regular or irregular?

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Regular | 9381 | 9381 |  |
| 2 | Irregular | 130 | 9511 |  |
| . | Missing | 302 | 9813 |  |

BPXPTY - Pulse type

Variable Name:

BPXPTY

SAS Label:

Pulse type

English Text:

Pulse type

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Radial | 7531 | 7531 |  |
| 2 | Brachial | 33 | 7564 |  |
| 8 | Could not obtain | 0 | 7564 |  |
| . | Missing | 2249 | 9813 |  |

BPXML1 - MIL: maximum inflation levels (mm Hg)

Variable Name:

BPXML1

SAS Label:

MIL: maximum inflation levels (mm Hg)

English Text:

MIL: maximum inflation levels (mm Hg)

Target:

Both males and females 8 YEARS - 150 YEARS

Hard Edits:

70.0000 to 300.0000

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 100 to 240 | Range of Values | 7539 | 7539 |  |
| 888 | Could not obtain | 14 | 7553 |  |
| . | Missing | 2260 | 9813 |  |

BPXSY1 - Systolic: Blood pres (1st rdg) mm Hg

Variable Name:

BPXSY1

SAS Label:

Systolic: Blood pres (1st rdg) mm Hg

English Text:

Systolic: Blood pressure (first reading) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 66 to 228 | Range of Values | 7172 | 7172 |  |
| . | Missing | 2641 | 9813 |  |

BPXDI1 - Diastolic: Blood pres (1st rdg) mm Hg

Variable Name:

BPXDI1

SAS Label:

Diastolic: Blood pres (1st rdg) mm Hg

English Text:

Diastolic: Blood pressure (first reading) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 122 | Range of Values | 7172 | 7172 |  |
| . | Missing | 2641 | 9813 |  |

BPAEN1 - Enhancement used first reading

Variable Name:

BPAEN1

SAS Label:

Enhancement used first reading

English Text:

Enhancement used first reading

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 85 | 85 |  |
| 2 | No | 7454 | 7539 |  |
| 8 | Could not obtain | 0 | 7539 |  |
| . | Missing | 2274 | 9813 |  |

BPXSY2 - Systolic: Blood pres (2nd rdg) mm Hg

Variable Name:

BPXSY2

SAS Label:

Systolic: Blood pres (2nd rdg) mm Hg

English Text:

Systolic: Blood pressure (second reading) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 66 to 230 | Range of Values | 7409 | 7409 |  |
| . | Missing | 2404 | 9813 |  |

BPXDI2 - Diastolic: Blood pres (2nd rdg) mm Hg

Variable Name:

BPXDI2

SAS Label:

Diastolic: Blood pres (2nd rdg) mm Hg

English Text:

Diastolic: Blood pressure (second reading) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 116 | Range of Values | 7409 | 7409 |  |
| . | Missing | 2404 | 9813 |  |

BPAEN2 - Enhancement used second reading

Variable Name:

BPAEN2

SAS Label:

Enhancement used second reading

English Text:

Enhancement used second reading

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 347 | 347 |  |
| 2 | No | 7190 | 7537 |  |
| 8 | Could not obtain | 0 | 7537 |  |
| . | Missing | 2276 | 9813 |  |

BPXSY3 - Systolic: Blood pres (3rd rdg) mm Hg

Variable Name:

BPXSY3

SAS Label:

Systolic: Blood pres (3rd rdg) mm Hg

English Text:

Systolic: Blood pressure (third reading) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 62 to 228 | Range of Values | 7408 | 7408 |  |
| . | Missing | 2405 | 9813 |  |

BPXDI3 - Diastolic: Blood pres (3rd rdg) mm Hg

Variable Name:

BPXDI3

SAS Label:

Diastolic: Blood pres (3rd rdg) mm Hg

English Text:

Diastolic: Blood pressure (third reading) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 118 | Range of Values | 7408 | 7408 |  |
| . | Missing | 2405 | 9813 |  |

BPAEN3 - Enhancement used third reading

Variable Name:

BPAEN3

SAS Label:

Enhancement used third reading

English Text:

Enhancement used third reading

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 276 | 276 |  |
| 2 | No | 7261 | 7537 |  |
| 8 | Could not obtain | 0 | 7537 |  |
| . | Missing | 2276 | 9813 |  |

BPXSY4 - Systolic: Blood pres (4th rdg) mm Hg

Variable Name:

BPXSY4

SAS Label:

Systolic: Blood pres (4th rdg) mm Hg

English Text:

Systolic: Blood pressure (fourth reading if necessary) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 80 to 212 | Range of Values | 515 | 515 |  |
| . | Missing | 9298 | 9813 |  |

BPXDI4 - Diastolic: Blood pres (4th rdg) mm Hg

Variable Name:

BPXDI4

SAS Label:

Diastolic: Blood pres (4th rdg) mm Hg

English Text:

Diastolic: Blood pressure (fourth reading if necessary) mm Hg

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 128 | Range of Values | 515 | 515 |  |
| . | Missing | 9298 | 9813 |  |

BPAEN4 - Enhancement used fourth reading

Variable Name:

BPAEN4

SAS Label:

Enhancement used fourth reading

English Text:

Enhancement used fourth reading

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 68 | 68 |  |
| 2 | No | 494 | 562 |  |
| 8 | Could not obtain | 0 | 562 |  |
| . | Missing | 9251 | 9813 |  |

**Body Measures**

Body Measures (BMX\_H)

Data File: BMX\_H.xpt

First Published: October 2015

Last Revised: NA

Component Description

NHANES body measures data are used to monitor trends in infant and child growth, to estimate the prevalence of overweight and obesity in the U.S. children, adolescents, and adults, and to examine the associations between body weight and the health and nutritional status of the U.S. population. The new collected Sagittal Abdominal Diameter (SAD) data will be used to establish population based reference ranges, and to improve the health risk assessments associated with body weight and obesity.

The measurements and target age groups for the NHANES 2013–2014 body measures component are as follows:

* Weight: All ages
* Head circumference: birth through 6 months of age
* Recumbent length: birth through 47 months of age
* Standing height: 2 years and older
* Upper leg length: 8 years and older
* Upper arm length: 2 months of age and older
* Mid-upper arm circumference: 2 months of age and older
* Waist circumference: 2 years of age and older
* Sagittal abdominal diameter: 8 years of age and older

Eligible Sample

All survey participants were eligible for the body measures component. Pregnant women and persons who weighed more than 600 pounds were excluded from the sagittal abdominal diameter measurement. For all other measurements, there were no medical, safety, or other exclusions for the body measurements protocol. The health technicians used their discretion to obtain as many measures as practical for persons who used a wheelchair.

Protocol and Procedure

The body measures data were collected, in the Mobile Examination Center (MEC), by trained health technicians. The health technician was assisted by a recorder during the body measures examination. The participant’s age at the time of the screening interview determined the body measures examination protocol. In some instances, the age at the screening interview and age at the time of the health examination differed by several weeks. The Demographics data file includes variables for age in years at screening (RIDAGEYR) for all participants. It also includes variables for age in months at screening (RIDAGEMN) and age in months at examination (RIDEXAGM) for participants aged 0 to 24 months, and age in years at examination (RIDEXAGY) for participants aged 2 to 19 years. Data on age in months at screening and age in months at examination for participants in other age groups are available through the NCHS Research Data Center (RDC).

Arm and leg measurements were made on the right side of the body. If a participant had an amputation, medical condition, or medical appliance, such as a cast, that prevented measurements from being taken on the right side of the body, the health technician took measurements on the left side. The body measurements file does not identify participants who had amputations because that information may be considered identifiable and pose a disclosure concern. The body weight data for participants who had limb amputations were set to “missing.”

This data file includes body measures for women who were pregnant at the time of their health examination. Pregnancy status at the time of the health examination is indicated by the variable, RIDEXPRG, in the Demographic data file. RIDEXPRG values are reported for women 20–44 years of age. RIDEXPRG for several pregnant women who were outside of this age range are not reported due to disclosure concerns. The body measures data for these participants are not reported.

Please refer to the NHANES 2013-2014 Anthropometry Procedures Manual (<https://wwwn.cdc.gov/nchs/data/nhanes/2013-2014/manuals/2013_anthropometry.pdf>) for further details on obtaining body measurements.

Quality Assurance & Quality Control

The NHANES health technicians completed a 2-day training program with survey staff and an expert anthropometrist. The training included an overview of the component, using the NHANES III anthropometry video, and demonstrations conducted by the expert examiner with volunteer subjects. The expert examiner reviewed and demonstrated the proper technique to use for each measurement. Supervised practice exercises followed, conducted with several volunteer subjects, including infants, children, and adults. The chief health technician, at each of the MECs, monitored staff performance in the field. Health technician performance was also monitored using direct observation, data reviews, and periodic expert examiner (gold standard comparison) evaluations.

The body measures examination rooms in each of the MECs were identical with respect to layout and equipment. Scheduled equipment calibration was performed by the health technicians and verified by supervisory staff. The Anthropometry Procedures Manual includes detailed descriptions of the quality assurance and quality control measures that are used in the NHANES anthropometry/body measures component.

Data Processing and Editing

The 2013–2014 data were reviewed for unusual and erroneous values. Review criteria were based on the NHANES 1999–2012 body measurement data. During the data review, values that were above the 99th percentile or below the 1st percentile, for a particular age or age-gender group, were flagged for review. When records were flagged, the entire body measurements record was reviewed for reasonableness. Subject characteristics such as height, weight, age and gender were taken into consideration. Values that were determined to be unrealistic were deleted from the file. None of the original body measures data were changed and there are no imputed values in this file.

Body Mass Index (BMXBMI):  
Body Mass Index (BMI) was calculated as weight in kilograms divided by height in meters squared, and then rounded to one decimal place.

BMI Category – Children/Adolescents (BMDBMIC):  
This variable was created for children and adolescents aged 2 to 19 years at examination. Cutoff criteria are based on the Centers for Disease Control and Prevention's sex-specific 2000 BMI-for-age growth charts for the United States. Age in months at examination was used to match age in months from BMI growth chart data, separately for males and females. There are four codes:

    1. Underweight (BMI < 5th percentile)   
    2. Normal weight (BMI 5th to < 85th percentiles)   
    3. Overweight (BMI 85th to < 95th percentiles)   
    4. Obese (BMI ≥ 95th percentile)

Average sagittal abdominal diameter (BMDAVSAD):  
This variable was created by averaging up to four SAD readings. The majority of survey participants have two readings (BMXSAD1, and BMXSAD2); as such, these two readings were used to obtain mean of SAD value. If there were four SAD readings (BMXSAD1, BMXSAD2, BMXSAD3, and BMXSAD4) because the difference between the first and second SAD measurements was greater than 0.5 cm, then three closest SAD readings were used to obtain mean of SAD value (Stein AD et al, American Journal of Clinical Nutrition 2007; 85(3): 869-876). In a few instances where two outlying measurements are equally distant from the means of the two closest measurements, then all four readings were used to obtain mean of SAD value.

Sagittal abdominal diameter comment (BMDSADCM):  
This variable was created by regrouping all comments for sagittal abdominal diameter measurement. BMDSADCM was coded as 1 if health technicians could not obtain sagittal abdominal diameter measurement. BMDSADCM were coded as 2, 3, and 4 sequentially if original comments recorded during the sagittal abdominal diameter measurement were “SP unable to comply with exam instruction,” “SP discomfort,” and “Use of positioning cushion.” BMDSADCM was coded as 5 for all other comments, including scar or navel interfering with measures and problem of handing caliper or reading number.

Analytic Notes

Component status code: A final body measures component status code (BMDSTATS) provides analysts with a quick method of identifying survey participants with complete or partial body measurement data.

Unusual values: Unusual body measures values were noted during the review of the data. Typically, unusual values occurred when a subject was extremely short, tall, overweight or underweight. In addition, the upper arm length (BMXARML) and upper leg length (BMXLEG) values may be affected by extreme amounts of adipose tissue. Analysts should examine the distributions of the body measurements carefully and consider whether or not it is appropriate to include or exclude extreme values in a given analysis.

Comment codes: Comment codes were added by the health technicians, during data collection, to document problems or situations that arose during the body measures examination. For example, the variable BMIWT is a comment code for the body weight measurement. If a participant did not change into the NHANES exam gown, a code of BMIWT of “3” denoting “clothing worn” was made in the record. Analysts should review the comment code information for each of the body measures prior to data analysis.

Weight status classification: BMI, expressed as weight in kilograms divided by height in meters squared (kg/m2), is commonly used to classify weight status. The definitions of underweight, normal weight, overweight, and obesity in children and adolescents are not directly comparable with the definitions in adults. The age-and sex-specific 5th, 85th, and 95th percentiles of the 2000 CDC growth charts are usually used as cutoff criteria for children and adolescents. The variable BMDBMIC provides weight status categories for children and adolescents aged 2 to 19 years at examination, consequently BMDBMIC was not calculated for a few persons who were 19 years at the screening interview but became 20 years at the health examination. Information about age in years at screening and at examination for participants aged 2 to 19 years is available in the Demographic data file.

SAS algorithm to calculate average SAD value from up to four readings:  
\*\* Mean of 2 measurements if only BMXSAD1 and BMXSAD2 are available \*\*;  
if (n(of bmxsad1-bmxsad4) = 2) then BMDAVSAD = round(mean(bmxsad1, bmxsad2), 0.1);  
\*\* If BMXSAD3 and BMXSAD4 are available \*\*;  
\*\* Find the 3 closest SAD values and take their mean \*\*;  
\*\* If the 3 closest SAD values could not be determined, take mean of all 4 values \*\*;  
else if (n(of bmxsad1-bmxsad4) = 4) then do;  
range1 = round(range(bmxsad1, bmxsad2, bmxsad3), 0.1);  
range2 = round(range(bmxsad1, bmxsad2, bmxsad4), 0.1);  
range3 = round(range(bmxsad1, bmxsad3, bmxsad4), 0.1);  
range4 = round(range(bmxsad2, bmxsad3, bmxsad4), 0.1);  
if (smallest(1,of range1-range4) = smallest(2,of range1-range4))  
then BMDAVSAD = round(mean(of bmxsad1-bmxsad4), 0.1);  
else do;  
   select(smallest(1, of range1-range4));  
   when(range1) BMDAVSAD = round(mean(bmxsad1, bmxsad2, bmxsad3), 0.1);  
   when(range2) BMDAVSAD = round(mean(bmxsad1, bmxsad2, bmxsad4), 0.1);  
   when(range3) BMDAVSAD = round(mean(bmxsad1, bmxsad3, bmxsad4), 0.1);  
   when(range4) BMDAVSAD = round(mean(bmxsad2, bmxsad3, bmxsad4), 0.1);  
   end;  
  end;  
end;

Sample weights: The NHANES examination sample weights should be used to analyze the body measurement data. Please refer to the [NHANES Analytic Guidelines](https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx) and the on-line [NHANES Tutorial](https://www.cdc.gov/nchs/tutorials/) for further details on the use of sample weights and other analytic issues.

References

* Centers for Disease Control and Prevention, National Center for Health Statistics. NHANES III Anthropometric Procedures Video. Available from: <http://www.cdc.gov/nchs/nhanes/nhanes3/anthropometric_videos.htm>
* Lohman TG, Roche AF, Martorell R, editors. Anthropometric Standardization Reference Manual. Abridged ed. Champaign, IL: Human Kinetics Books; 1988.
* Stein AD, Kahn HS, Rundle A, Zybert PA, van der Pal-de Bruin K, Lumey LH. Anthropometric measure in middle age after exposure to famine during gestation: evidence from the Dutch famine. American Journal of Clinical Nutrition 2007; 85(3): 869-876.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:

SEQN

SAS Label:

Respondent sequence number

English Text:

Respondent sequence number.

Target:

Both males and females 0 YEARS - 150 YEARS

BMDSTATS - Body Measures Component Status Code

Variable Name:

BMDSTATS

SAS Label:

Body Measures Component Status Code

English Text:

Body Measures Component status Code

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Complete data for age group | 9003 | 9003 |  |
| 2 | Partial: Only height and weight obtained | 317 | 9320 |  |
| 3 | Other partial exam | 423 | 9743 |  |
| 4 | No body measures exam data | 70 | 9813 |  |
| . | Missing | 0 | 9813 |  |

BMXWT - Weight (kg)

Variable Name:

BMXWT

SAS Label:

Weight (kg)

English Text:

Weight (kg)

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 3.1 to 222.6 | Range of Values | 9723 | 9723 |  |
| . | Missing | 90 | 9813 |  |

BMIWT - Weight Comment

Variable Name:

BMIWT

SAS Label:

Weight Comment

English Text:

Weight Comment

Target:

Both males and females 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 17 | 17 |  |
| 2 | Exceeds capacity | 0 | 17 |  |
| 3 | Clothing | 346 | 363 |  |
| 4 | Medical appliance | 21 | 384 |  |
| . | Missing | 9429 | 9813 |  |

BMXRECUM - Recumbent Length (cm)

Variable Name:

BMXRECUM

SAS Label:

Recumbent Length (cm)

English Text:

Recumbent Length (cm)

Target:

Both males and females 0 YEARS - 47 MONTHS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 48.6 to 115.1 | Range of Values | 1065 | 1065 |  |
| . | Missing | 8748 | 9813 |  |

BMIRECUM - Recumbent Length Comment

Variable Name:

BMIRECUM

SAS Label:

Recumbent Length Comment

English Text:

Recumbent Length Comment

Target:

Both males and females 0 MONTHS - 47 MONTHS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 31 | 31 |  |
| 2 | Exceeds capacity | 0 | 31 |  |
| 3 | Not straight | 0 | 31 |  |
| . | Missing | 9782 | 9813 |  |

BMXHEAD - Head Circumference (cm)

Variable Name:

BMXHEAD

SAS Label:

Head Circumference (cm)

English Text:

Head Circumference (cm)

Target:

Both males and females 0 YEARS - 6 MONTHS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 33.8 to 46.8 | Range of Values | 229 | 229 |  |
| . | Missing | 9584 | 9813 |  |

BMIHEAD - Head Circumference Comment

Variable Name:

BMIHEAD

SAS Label:

Head Circumference Comment

English Text:

Head Circumference Comment

Target:

Both males and females 0 MONTHS - 6 MONTHS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 0 | 0 |  |
| . | Missing | 9813 | 9813 |  |

BMXHT - Standing Height (cm)

Variable Name:

BMXHT

SAS Label:

Standing Height (cm)

English Text:

Standing Height (cm)

Target:

Both males and females 2 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 79.7 to 202.6 | Range of Values | 9067 | 9067 |  |
| . | Missing | 746 | 9813 |  |

BMIHT - Standing Height Comment

Variable Name:

BMIHT

SAS Label:

Standing Height Comment

English Text:

Standing Height Comment

Target:

Both males and females 2 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 39 | 39 |  |
| 2 | Exceeds capacity | 0 | 39 |  |
| 3 | Not straight | 182 | 221 |  |
| . | Missing | 9592 | 9813 |  |

BMXBMI - Body Mass Index (kg/m\*\*2)

Variable Name:

BMXBMI

SAS Label:

Body Mass Index (kg/m\*\*2)

English Text:

Body Mass Index (kg/m\*\*2)

Target:

Both males and females 2 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 12.1 to 82.9 | Range of Values | 9055 | 9055 |  |
| . | Missing | 758 | 9813 |  |

BMDBMIC - BMI Category - Children/Youth

Variable Name:

BMDBMIC

SAS Label:

BMI Category - Children/Youth

English Text:

BMI Category - Children/Youth

Target:

Both males and females 2 YEARS - 19 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Underweight | 132 | 132 |  |
| 2 | Normal weight | 2167 | 2299 |  |
| 3 | Overweight | 595 | 2894 |  |
| 4 | Obese | 629 | 3523 |  |
| . | Missing | 6290 | 9813 |  |

BMXLEG - Upper Leg Length (cm)

Variable Name:

BMXLEG

SAS Label:

Upper Leg Length (cm)

English Text:

Upper Leg Length (cm)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 24.4 to 51.9 | Range of Values | 7402 | 7402 |  |
| . | Missing | 2411 | 9813 |  |

BMILEG - Upper Leg Length Comment

Variable Name:

BMILEG

SAS Label:

Upper Leg Length Comment

English Text:

Upper Leg Length Comment

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 350 | 350 |  |
| . | Missing | 9463 | 9813 |  |

BMXARML - Upper Arm Length (cm)

Variable Name:

BMXARML

SAS Label:

Upper Arm Length (cm)

English Text:

Upper Arm Length (cm)

Target:

Both males and females 2 MONTHS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 9.9 to 47.9 | Range of Values | 9301 | 9301 |  |
| . | Missing | 512 | 9813 |  |

BMIARML - Upper Arm Length Comment

Variable Name:

BMIARML

SAS Label:

Upper Arm Length Comment

English Text:

Upper Arm Length Comment

Target:

Both males and females 2 MONTHS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 368 | 368 |  |
| . | Missing | 9445 | 9813 |  |

BMXARMC - Arm Circumference (cm)

Variable Name:

BMXARMC

SAS Label:

Arm Circumference (cm)

English Text:

Arm Circumference (cm)

Target:

Both males and females 2 MONTHS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 10.4 to 59.4 | Range of Values | 9301 | 9301 |  |
| . | Missing | 512 | 9813 |  |

BMIARMC - Arm Circumference Comment

Variable Name:

BMIARMC

SAS Label:

Arm Circumference Comment

English Text:

Arm Circumference Comment

Target:

Both males and females 2 MONTHS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 372 | 372 |  |
| . | Missing | 9441 | 9813 |  |

BMXWAIST - Waist Circumference (cm)

Variable Name:

BMXWAIST

SAS Label:

Waist Circumference (cm)

English Text:

Waist Circumference (cm)

Target:

Both males and females 2 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 40.2 to 177.9 | Range of Values | 8661 | 8661 |  |
| . | Missing | 1152 | 9813 |  |

BMIWAIST - Waist Circumference Comment

Variable Name:

BMIWAIST

SAS Label:

Waist Circumference Comment

English Text:

Waist Circumference Comment

Target:

Both males and females 2 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 439 | 439 |  |
| . | Missing | 9374 | 9813 |  |

BMXSAD1 - Sagittal Abdominal Diameter 1st (cm)

Variable Name:

BMXSAD1

SAS Label:

Sagittal Abdominal Diameter 1st (cm)

English Text:

Sagittal Abdominal Diameter 1st (cm)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 10 to 40.2 | Range of Values | 7218 | 7218 |  |
| . | Missing | 2595 | 9813 |  |

BMXSAD2 - Sagittal Abdominal Diameter 2nd (cm)

Variable Name:

BMXSAD2

SAS Label:

Sagittal Abdominal Diameter 2nd (cm)

English Text:

Sagittal Abdominal Diameter 2nd (cm)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 10.2 to 40.2 | Range of Values | 7218 | 7218 |  |
| . | Missing | 2595 | 9813 |  |

BMXSAD3 - Sagittal Abdominal Diameter 3rd (cm)

Variable Name:

BMXSAD3

SAS Label:

Sagittal Abdominal Diameter 3rd (cm)

English Text:

Sagittal Abdominal Diameter 3rd (cm)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 10.9 to 35.6 | Range of Values | 358 | 358 |  |
| . | Missing | 9455 | 9813 |  |

BMXSAD4 - Sagittal Abdominal Diameter 4th (cm)

Variable Name:

BMXSAD4

SAS Label:

Sagittal Abdominal Diameter 4th (cm)

English Text:

Sagittal Abdominal Diameter 4th (cm)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 11 to 35.6 | Range of Values | 358 | 358 |  |
| . | Missing | 9455 | 9813 |  |

BMDAVSAD - Average Sagittal Abdominal Diameter (cm)

Variable Name:

BMDAVSAD

SAS Label:

Average Sagittal Abdominal Diameter (cm)

English Text:

Average Sagittal Abdominal Diameter (cm)

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 10.1 to 40.1 | Range of Values | 7218 | 7218 |  |
| . | Missing | 2595 | 9813 |  |

BMDSADCM - Sagittal Abdominal Diameter Comment

Variable Name:

BMDSADCM

SAS Label:

Sagittal Abdominal Diameter Comment

English Text:

Sagittal Abdominal Diameter Comment

Target:

Both males and females 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Could not obtain | 444 | 444 |  |
| 2 | SP unable to comply with exam instruction | 19 | 463 |  |
| 3 | SP discomfort | 1 | 464 |  |
| 4 | Use of positioning cushion | 16 | 480 |  |
| 5 | Other | 4 | 484 |  |
| . | Missing | 9329 | 9813 |  |

**Laboratory Data**

**Plasma Fasting Glucose**

Plasma Fasting Glucose (GLU\_H)

Data File: GLU\_H.xpt

First Published: January 2016

Last Revised: NA

Component Description

Diabetes is a leading cause of disease and death in the United States. Approximately eight million Americans are known to have diabetes, and it is estimated that an equal amount have undiagnosed diabetes. In 1993, nearly 18 percent of all deaths for persons over the age of 25 were among people with diabetes. The prevalence of diabetes and overweight (one of the major risk factors for diabetes) continues to increase. Substantial new efforts to prevent or control diabetes have begun, including the Diabetes Prevention Trial and the National Diabetes Education Program.

Diabetes testing provides population data to: 1) determine a national estimate of diabetes disease prevalence (diagnosed and undiagnosed); 2) identify the risk factors of diabetes disease; 3) permit a national cohort to be established for follow-up studies of this condition; and 4) provide critical information to clinicians and public health officials for the development of preventive care and community-based interventions.

Eligible Sample

Participants aged 12 years and older who were examined in the morning session were eligible.

Description of Laboratory Methodology

Glucose  
In this enzymatic method glucose is converted to glucose-6-phosphate (G-6-P) by hexokinase in the presence of ATP, a phosphate donor. Glucose-6-phosphate dehydrogenase then converts the G-6-P to gluconate-6-P in the presence of NADP+. As the NADP+ is reduced to NADPH during this reaction, the resulting increase in absorbance at 340 nm (secondary wavelength = 700 nm) is measured. This is an endpoint reaction that is specific for glucose.

There are seven exclusion criteria, including hemophilia and chemotherapy safety exclusions, fasting less than nine hours, taking insulin or oral medications for diabetes, refusing phlebotomy, or not drinking the entire TrutolTM solution within the allotted time.

Refer to the Laboratory Method Files section for detailed laboratory procedure manual(s) of the methods used.

There were changes to the lab method, lab equipment, and lab site for this component in the NHANES 2013-2014 cycle. In the 2011-2012 cycle, the University of Minnesota performed this testing. The University of Missouri-Columbia began testing plasma glucose in the 2013-2014 cycle.

Laboratory Method Files

[Fasting Glucose](https://wwwn.cdc.gov/nchs/data/nhanes/2013-2014/labmethods/GLU_H_MET_Fasting_Glucose.pdf) (January 2016)

Laboratory Quality Assurance and Monitoring

Plasma specimens were processed, stored, and shipped to the University of Missouri-Columbia, Columbia, MO for analysis.

Detailed instructions on specimen collection and processing are discussed in the NHANES [Laboratory Procedures Manual (LPM)](https://wwwn.cdc.gov/nchs/data/nhanes/2013-2014/manuals/2013_mec_laboratory_procedures_manual.pdf). Vials are stored under appropriate frozen (–70°C) conditions until they are shipped to University of Missouri-Columbia for testing.

The NHANES quality assurance and quality control (QA/QC) protocols meet the 1988 Clinical Laboratory Improvement Act mandates. Detailed QA/QC instructions are discussed in the [NHANES LPM](https://wwwn.cdc.gov/nchs/data/nhanes/2013-2014/manuals/2013_mec_laboratory_procedures_manual.pdf).

Mobile Examination Centers (MECs)

Laboratory team performance is monitored using several techniques. NCHS and contract consultants use a structured quality assurance evaluation during unscheduled visits to evaluate both the quality of the laboratory work and the quality control procedures. Each laboratory staff member is observed for equipment operation, specimen collection and preparation; testing procedures and constructive feedback are given to each staff member. Formal retraining sessions are conducted annually to ensure that required skill levels were maintained.

Analytical Laboratories

NHANES uses several methods to monitor the quality of the analyses performed by the contract laboratories. In the MEC, these methods include performing blind split samples collected on “dry run” sessions. In addition, contract laboratories randomly perform repeat testing on 2% of all specimens.

NCHS developed and distributed a quality control protocol for all the contract laboratories which outlined the use of Westgard rules (Westgard et al, 1981) when running NHANES specimens. Progress reports containing any problems encountered during shipping or receipt of specimens, summary statistics for each control pool, QC graphs, instrument calibration, reagents, and any special considerations are submitted to NCHS quarterly. The reports are reviewed for trends or shifts in the data. The laboratories are required to explain any identified areas of concern.

All QC procedures recommended by the manufacturers were followed. Reported results for all assays meet the University of Missouri’s quality control and quality assurance performance criteria for accuracy and precision, similar to the Westgard rules.

Data Processing and Editing

The data were reviewed. Incomplete data or improbable values were sent to the performing laboratory for confirmation.  
  
Two variables were created in this data file. The variables were created using the following formulas:  
  
LBXGLU and LBDGLUSI:  
The fasting glucose value in mg/dL (LBXGLU) was converted to mmol/L (LBDGLUSI) by multiplying by 0.05551 (rounded to 3 decimals).  
  
LBXIN and LBDINSI:  
The insulin value in µU/mL (LBXIN) was converted to pmol/L (LBDINSI) by multiplying by 6.0 (rounded to 2 decimals).

Analytic Notes

Refer to the [2013 - 2014 Laboratory Data Overview](https://wwwn.cdc.gov/nchs/nhanes/continuousnhanes/overviewlab.aspx?BeginYear=2013) for general information on NHANES laboratory data.

Sampling Weights  
  
Glucose and insulin were measured in a fasting subsample of persons 12 years and older.  
  
The analyst is strongly encouraged to use the fasting sampling weights in this file to analyze 2013-2014 glucose and insulin levels.  
  
There will be two weight files associated with the subsample for the diabetes data. Use the fasting sample weights (WTSFA2YR) when analyzing the fasting glucose and insulin levels only. Use the OGTT sample weights (WTSOG2YR) when analyzing the insulin, fasting AND OGTT glucose levels or when analyzing ONLY OGTT glucose levels. NOTE: the Insulin and OGTT weights and data are in separate files (INS\_H and OGTT\_H, respectively).  
  
Reporting Glucose Results  
  
The University of Missouri’s Data File (GLU\_H) (which contains laboratory test results for glucose - LBXGLU) was measured using the reference analytic method. However, the Iowa laboratory (BIOPRO\_H), that measures biochemistry profiles, also included measurements of serum glucose. The serum glucose values (LBXSGL) reported in the Iowa lab should not be used to determine undiagnosed diabetes or prediabetes. Instead, plasma glucose values from the University of Missouri’s lab (LBXGLU) should be used for data analysis.

Demographic and Other Related Variables

The analysis of NHANES laboratory data must be conducted using the appropriate survey design and demographic variables. The [NHANES 2013-2014 Demographics File](https://wwwn.cdc.gov/nchs/nhanes/search/datapage.aspx?Component=Demographics&CycleBeginYear=2013) contains demographic data, health indicators, and other related information collected during household interviews as well as the sample design variables. The recommended procedure for variance estimation requires use of stratum and PSU variables (SDMVSTRA and SDMVPSU, respectively) in the demographic data file.

The [Fasting Questionnaire File](https://wwwn.cdc.gov/nchs/nhanes/2013-2014/fastqx_h.htm) includes auxiliary information such as fasting status, the time of venipuncture, and the conditions precluding venipuncture.

The demographics and fasting questionnaire files may be linked to the laboratory data file using the unique survey participant identifier (i.e., SEQN).

This laboratory data file can be linked to the other NHANES data files using the unique survey participant identifier SEQN.

Detection Limits

The detection limits were constant for the analyte in the data set. The variable prefixed LBX (ex., LBXGLU) provides the analytic result for that analyte.

The lower limit of detection (LLOD, in mg/dL) for fasting glucose:

|  |  |  |
| --- | --- | --- |
| Variable Name | SAS LABEL | LLOD |
| LBXGLU | Fasting glucose | 2.0 |

Please refer to the NHANES [Analytic Guidelines](https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx) and the on-line NHANES [Tutorial](https://www.cdc.gov/nchs/tutorials/) for further details on the use of sample weights and other analytic issues.

References

* Caudill S.P., Schleicher R.L., Pirkle J.L. Multi-rule quality control for the age-related eye disease study. Statist. Med. (2008) 27(20):4094-40106.
* Westgard J.O., Barry P.L., Hunt M.R., Groth T. A multi-rule Shewhart chart for quality control in clinical chemistry. Clin Chem (1981) 27:493-501.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:

SEQN

SAS Label:

Respondent sequence number

English Text:

Respondent sequence number

Target:

Both males and females 12 YEARS - 150 YEARS

WTSAF2YR - Fasting Subsample 2 Year MEC Weight

Variable Name:

WTSAF2YR

SAS Label:

Fasting Subsample 2 Year MEC Weight

English Text:

Fasting Subsample 2 Year MEC Weight

Target:

Both males and females 12 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 12937.987305 to 395978.46579 | Range of Values | 2927 | 2927 |  |
| 0 | No Lab Result | 402 | 3329 |  |
| . | Missing | 0 | 3329 |  |

LBXGLU - Fasting Glucose (mg/dL)

Variable Name:

LBXGLU

SAS Label:

Fasting Glucose (mg/dL)

English Text:

Fasting Glucose (mg/dL)

Target:

Both males and females 12 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 51 to 421 | Range of Values | 3172 | 3172 |  |
| . | Missing | 157 | 3329 |  |

LBDGLUSI - Fasting Glucose (mmol/L)

Variable Name:

LBDGLUSI

SAS Label:

Fasting Glucose (mmol/L)

English Text:

Fasting Glucose (mmol/L)

Target:

Both males and females 12 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 2.831 to 23.37 | Range of Values | 3172 | 3172 |  |
| . | Missing | 157 | 3329 |  |

PHAFSTHR - Total length of 'food fast', hours

Variable Name:

PHAFSTHR

SAS Label:

Total length of 'food fast', hours

English Text:

Total length of 'food fast', hours

Target:

Both males and females 12 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 34 | Range of Values | 3291 | 3291 |  |
| . | Missing | 38 | 3329 |  |

PHAFSTMN - Total length of 'food fast', minutes

Variable Name:

PHAFSTMN

SAS Label:

Total length of 'food fast', minutes

English Text:

Total length of 'food fast', minutes

Target:

Both males and females 12 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 0 to 59 | Range of Values | 3291 | 3291 |  |
| . | Missing | 38 | 3329 |  |

**Questionair Data**

**Cardiovascular Health**

Cardiovascular Health (CDQ\_H)

Data File: CDQ\_H.xpt

First Published: October 2015

Last Revised: NA

Component Description

The Cardiovascular Disease and Health section (variable name prefix CDQ) provides participant level interview data on evaluating cardiovascular health and includes questions to assess the presence of angina pectoris as defined by the Rose1 questionnaire.

Eligible Sample

All participants aged 40 years and older were asked to respond to this section.

Interview Setting and Mode of Administration

These questions were asked before the physical examination, in the home, using the Computer-Assisted Personal Interviewing (CAPI) (interviewer administered) system.

Quality Assurance & Quality Control

The CAPI system is programmed with built-in consistency checks to reduce data entry errors. CAPI also uses online help screens to assist interviewers in defining key terms used in the questionnaire.

Data Processing and Editing

Edits were made to ensure the completeness, consistency, and analytic usefulness of the data.

Analytic Notes

The variables in this section are comparable to the CDQ variables released for 2001-2002 through 2013-2014. Other than question CDQ010, these questions are not comparable to the CDQ questions for NHANES 1999-2000, which focused on symptoms related to congestive heart failure.

Rose questionnaire criteria1:

Grade 1 Angina is defined as CDQ001 = 1 and CDQ002 = 1 (but CDQ003 ≠ 1) and CDQ004 = 1 and CDQ005 = 1 and CDQ006 = 1, plus either (CDQ009D = 4 or CDQ009E = 5) or (CDQ009F = 6 and CDQ009G = 7).  
Grade 2 Angina is defined as CDQ001 = 1 and CDQ002 = 1 and CDQ003 = 1 and CDQ004 = 1 and CDQ005 = 1 and CDQ006 = 1, plus either (CDQ009D = 4 or CDQ009E = 5) or (CDQ009F = 6 and CDQ009G = 7).

Changes Since 2011-2012:  
There were no questionnaire changes for 2013-2014.

Although these data were collected as part of the household questionnaire, if they are merged with the MEC exam data, exam sample weights should be used for the analyses.

Please refer to the [NHANES Analytic Guidelines](https://wwwn.cdc.gov/nchs/nhanes/analyticguidelines.aspx) and the on-line [NHANES Tutorial](https://www.cdc.gov/nchs/tutorials/) for further details on the use of sample weights and other analytic issues.

References

* 1Rose GA, Blackburn H. Cardiovascular survey methods. World Health Organization Monograph 1968; 56: 1-188.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:

SEQN

SAS Label:

Respondent sequence number

English Text:

Respondent sequence number.

Target:

Both males and females 40 YEARS - 150 YEARS

CDQ001 - SP ever had pain or discomfort in chest

Variable Name:

CDQ001

SAS Label:

SP ever had pain or discomfort in chest

English Text:

{Have you/Has SP} ever had any pain or discomfort in {your/her/his} chest?

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 879 | 879 |  |
| 2 | No | 2934 | 3813 | CDQ010 |
| 7 | Refused | 0 | 3813 | CDQ010 |
| 9 | Don't know | 2 | 3815 | CDQ010 |
| . | Missing | 0 | 3815 |  |

CDQ002 - SP get it walking uphill or in a hurry

Variable Name:

CDQ002

SAS Label:

SP get it walking uphill or in a hurry

English Text:

{Do you/Does she/Does he} get it when {you/she/he} walk uphill or hurry?

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 241 | 241 |  |
| 2 | No | 591 | 832 | CDQ008 |
| 3 | Never walks uphill or hurries | 42 | 874 |  |
| 7 | Refused | 0 | 874 | CDQ008 |
| 9 | Don't know | 5 | 879 | CDQ008 |
| . | Missing | 2936 | 3815 |  |

CDQ003 - During an ordinary pace on level ground

Variable Name:

CDQ003

SAS Label:

During an ordinary pace on level ground

English Text:

{Do you/Does she/Does he} get it when {you/she/he} walk at an ordinary pace on level ground?

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 111 | 111 |  |
| 2 | No | 171 | 282 |  |
| 7 | Refused | 0 | 282 |  |
| 9 | Don't know | 1 | 283 |  |
| . | Missing | 3532 | 3815 |  |

CDQ003A - CHECK ITEM

Variable Name:

CDQ003A

English Instructions:

BOX 1. CHECK ITEM CDQ.003A. IF 'YES' (CODE '1') IN CDQ.002 OR CDQ.003, CONTINUE. OTHERWISE, GO TO CDQ.008.

Target:

Both males and females 40 YEARS - 150 YEARS

CDQ004 - If so does SP continue or slow down

Variable Name:

CDQ004

SAS Label:

If so does SP continue or slow down

English Text:

What {do you/does she/does he} do if {you/she/he} get it while {you/she/he} are walking? {Do you/Does she/Does he} stop or slow down or continue at the same pace?

English Instructions:

CHECK "STOP OR SLOW DOWN" IF SP CARRIES ON AFTER TAKING NITROGLYCERINE.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Stop or slow down | 229 | 229 |  |
| 2 | Continue at the same pace | 23 | 252 | CDQ008 |
| 7 | Refused | 0 | 252 | CDQ008 |
| 9 | Don't know | 1 | 253 | CDQ008 |
| . | Missing | 3562 | 3815 |  |

CDQ005 - Does standing relieve pain/discomfort

Variable Name:

CDQ005

SAS Label:

Does standing relieve pain/discomfort

English Text:

If {you/she/he} stand still, what happens to it? Is the pain or discomfort relieved or not relieved?

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Relieved | 196 | 196 |  |
| 2 | Not Relieved | 31 | 227 | CDQ008 |
| 7 | Refused | 0 | 227 | CDQ008 |
| 9 | Don't know | 2 | 229 | CDQ008 |
| . | Missing | 3586 | 3815 |  |

CDQ006 - How soon is the pain relieved

Variable Name:

CDQ006

SAS Label:

How soon is the pain relieved

English Text:

How soon is the pain relieved? Would you say...

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | 10 minutes or less | 161 | 161 |  |
| 2 | More than 10 minutes | 35 | 196 | CDQ008 |
| 7 | Refused | 0 | 196 | CDQ008 |
| 9 | Don't know | 0 | 196 | CDQ008 |
| . | Missing | 3619 | 3815 |  |

CDQ009A - Pain in right arm

Variable Name:

CDQ009A

SAS Label:

Pain in right arm

English Text:

Please look at this card and show me where the pain or discomfort is located.

English Instructions:

CODE ALL THAT APPLY. PROBE FOR ADDITIONAL AREAS. HAND CARD CDQ1.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Pain in right arm | 10 | 10 |  |
| 77 | Refused | 1 | 11 |  |
| 99 | Don't know | 3 | 14 |  |
| . | Missing | 3801 | 3815 |  |

CDQ009B - Pain in right chest

Variable Name:

CDQ009B

SAS Label:

Pain in right chest

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 2 | Pain in right chest | 26 | 26 |  |
| . | Missing | 3789 | 3815 |  |

CDQ009C - Pain in neck

Variable Name:

CDQ009C

SAS Label:

Pain in neck

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 3 | Pain in neck | 29 | 29 |  |
| . | Missing | 3786 | 3815 |  |

CDQ009D - Pain in upper sternum

Variable Name:

CDQ009D

SAS Label:

Pain in upper sternum

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 4 | Pain in upper sternum | 80 | 80 |  |
| . | Missing | 3735 | 3815 |  |

CDQ009E - Pain in lower sternum

Variable Name:

CDQ009E

SAS Label:

Pain in lower sternum

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 5 | Pain in lower sternum | 36 | 36 |  |
| . | Missing | 3779 | 3815 |  |

CDQ009F - Pain in left chest

Variable Name:

CDQ009F

SAS Label:

Pain in left chest

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 6 | Pain in left chest | 52 | 52 |  |
| . | Missing | 3763 | 3815 |  |

CDQ009G - Pain in left arm

Variable Name:

CDQ009G

SAS Label:

Pain in left arm

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 7 | Pain in left arm | 8 | 8 |  |
| . | Missing | 3807 | 3815 |  |

CDQ009H - Pain in epigastric area

Variable Name:

CDQ009H

SAS Label:

Pain in epigastric area

English Text:

Please look at this card and show me where the pain or discomfort is located.

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 8 | Pain in epigastric area | 3 | 3 |  |
| . | Missing | 3812 | 3815 |  |

CDQ008 - Severe pain in chest more than half hour

Variable Name:

CDQ008

SAS Label:

Severe pain in chest more than half hour

English Text:

Have {you/she/he} ever had a severe pain across the front of {your/her/his} chest lasting for half an hour or more?

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 235 | 235 |  |
| 2 | No | 642 | 877 |  |
| 7 | Refused | 0 | 877 |  |
| 9 | Don't know | 2 | 879 |  |
| . | Missing | 2936 | 3815 |  |

CDQ010 - Shortness of breath on stairs/inclines

Variable Name:

CDQ010

SAS Label:

Shortness of breath on stairs/inclines

English Text:

{Have you/Has SP} had shortness of breath either when hurrying on the level or walking up a slight hill?

Target:

Both males and females 40 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
| --- | --- | --- | --- | --- |
| 1 | Yes | 1139 | 1139 |  |
| 2 | No | 2668 | 3807 |  |
| 7 | Refused | 1 | 3808 |  |
| 9 | Don't know | 7 | 3815 |  |
| . | Missing | 0 | 3815 |  |