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National Health and Nutrition Examination Survey

2005-2006 Data Documentation, Codebook, and Frequencies

Dual-Energy X-ray Absorptiometry - Whole Body (DXX\_D)

**Data File: DXX\_D.xpt**

**First Published: February 2013**

**Last Revised: December 2016**

Component Description

**Users of the 2005-2006 Dual-Energy X-ray Absorptiometry data (variable name prefix DXX\_D) are strongly encouraged to read the documentation before accessing the data file.**

**Because missing or invalid data have been multiply imputed, the DXX\_D data release file contains 5 records for each survey participant, 8-69 years of age, who was interviewed and examined. Only 1 record should be used in calculating sample sizes. However, all 5 records must be used in analyses in order to obtain more accurate variance estimates. The records for some survey participants, such as pregnant females, are blank; pregnant females were not eligible for the DXA scan.**

Dual-energy x-ray absorptiometry (DXA) has become one of the most widely accepted methods of measuring body composition due in part to its speed, ease of use, and low radiation exposure (Genant, 1996, Njeh, 1999, Heymsfield, 1989, Tothill, 1996). Whole body DXA scans were administered from 1999-2006. The NHANES DXA examination provides nationally representative data on body composition (bone and soft tissue), overall, and for age, gender, and racial/ethnic groups, to study the association between body composition and other health conditions and risk factors, such as cardiovascular disease, diabetes, hypertension, and physical activity and dietary intake patterns.

The DXA scans provide bone and soft tissue measurements for the total body, for both arms and both legs, the trunk, and the head. Bone measurements also were obtained for the pelvis, left and right ribs, thoracic spine, and lumbar spine. Values for the total body and regions include:

* Total mass (gm)
* Bone mineral content (BMC) (gm)
* Bone area (cm2)
* Bone mineral density (BMD) (gm/cm2)
* Fat mass (gm)
* Lean mass excluding BMC (gm)
* Lean mass including BMC (gm)
* Percent body fat (%)

Eligible Sample

DXA scans were administered to eligible survey participants aged 8-69. Pregnant females were ineligible for the DXA examination. Participants who were excluded from the DXA examination for reasons other than pregnancy were considered to be eligible nonrespondents. Reasons for exclusion from the DXA examination were as follows:

* Pregnancy (positive urine pregnancy test and/or self-report at the time of the DXA examination). Females between the ages of 12–59 years and menstruating 8–11 year olds were not permitted to take the DXA examination without a negative MEC pregnancy test result. In addition, females aged 12–59 years were excluded from the examination if they said they were pregnant at the time of the exam, even if the pregnancy test was negative.
* Self-reported history of radiographic contrast material (barium) use in past 7 days.
* Self-reported weight over 300 pounds or height over 6’5” (DXA table limitations).

The variable DXAEXSTS indicates examination status. Equipment failure was the main reason for a completed, but invalid scan. The “Not scanned, other reason” code includes no time to complete the examination, pregnancy test not completed, and participant refusal, as well as exclusion for reasons other than pregnancy.

DXAEXSTS – examination status variable  
1 = Scan completed  
2 = Scan completed, but invalid  
3 = Not scanned, pregnant  
4 = Not scanned, weight > 300 lbs  
5 = Not scanned, height > 6'5"  
6 = Not scanned, other reason

Protocol and Procedure

Whole body DXA scans were taken with a Hologic QDR-4500A fan-beam densitometer (Hologic, Inc., Bedford, Massachusetts). Hologic software version 8.26:a3\* was used to administer all scans through mid-2005. In 2005, the acquisition software was updated to Hologic Discovery v12.4. The densitometer scanned participants with an x-ray source using fan-beam scan geometry in three passes (1 minute per pass). The participants were positioned supine on the tabletop with their feet in a neutral position and hands flat by their side. A Velcro strap was used to keep the feet stationary and together. The DXA technique acquires two low-dose x-ray images at different average energies. The ratio of the attenuation of these two average energies, called an R-factor, is used to distinguish both bone from soft tissue, and the percent fat in soft tissue when bone isn’t present. The radiation exposure from DXA whole body scans is extremely low at less than 10 uSv.

The DXA examinations were administered at the mobile examination center (MEC), by certified radiology technologists. Further details of the DXA examination protocol are documented in the [Body Composition Procedures Manual](https://wwwn.cdc.gov/nchs/data/nhanes/2005-2006/manuals/bc.pdf) located on the NHANES website.

Quality Assurance & Quality Control

A high level of quality control was maintained throughout the DXA data collection and scan analysis, including a rigorous phantom scanning schedule.

**Monitoring of Field Staff and Densitometers**  
Staff from the National Center for Health Statistics (NCHS) and the NHANES data collection contractor monitored technologist acquisition performance through in-person observations in the field. Retraining sessions were conducted with the technologists annually and as needed to reinforce correct techniques and appropriate protocol. In addition, technologist performance codes were recorded by the NHANES quality control center at the University of California, San Francisco (UCSF), Department of Radiology as part of the participants’ scan review. The codes documented when the technologist had deviated from acquisition procedures and scan quality could have been improved. The performance codes were tracked for each technologist individually and a summary report was provided to NCHS on a quarterly basis. Constant communication was maintained throughout the year among UCSF, NCHS, and the data collection contractor regarding any issues that arose.

Hologic service engineers performed all routine densitometer maintenance and repairs. Copies of all reports completed by the manufacturer’s service engineers were sent to UCSF when the scanners were serviced or repaired so any changes in measurement as a result of the work could be assessed. While some minor mechanical repairs were made during 2005-2006 survey operations, replacement or realignment of the detectors, apertures, or other major hardware was not required for any of the three densitometers.

**Scan Analysis**  
Each participant and phantom scan was reviewed and analyzed by UCSF using standard radiologic techniques and study-specific protocols developed for the NHANES. Hologic Discovery software, version 12.4, was used to analyze the scans. The Discovery analysis software incorporates the Auto WB application, which was developed to improve bone detection in children participating in NHANES and other studies of children (Kelly, 2002, Fan, 2004). The Discovery analysis algorithms automatically detect and measure very low-density bone in children weighing 40 kg or less.

Expert review was conducted by UCSF on 100% of analyzed participant scans to verify the accuracy and consistency of the results.

**Invalidity Codes**  
Invalidity codes were applied by UCSF to indicate the reasons that regions of the body could not be analyzed accurately. The invalidity codes are provided in the data file (see Analytic Notes for a description of the invalidity codes).

**Quality Control Scans**  
The quality control phantoms were scanned according to a predetermined schedule. The Hologic Anthropomorphic Spine Phantom associated with each MEC was scanned daily as required by the manufacturer to ensure accurate calibration of the densitometer. Other MEC-specific phantoms, such as the Hologic Whole Body Slim-line Phantom and Hologic Tissue Step Phantom, were scanned 1 to 3 times weekly. Another set of phantoms, the Hologic Spine (HSP-Q96), Hologic Block, and Hologic Whole Body Phantoms, circulated among the MECs and were scanned at the start of operations at each survey site.

Air scans, phantom-less scans using the whole body scan mode, were used to describe and monitor the systems’ radiographic uniformity across the entire scan field. Poor uniformity could be caused by poor aperture alignment, incorrect gantry rotation, non-uniform gain in detectors, etc., that result in localized inaccuracies in the attenuation values.

The complete phantom scanning schedule is described in the [Body Composition Procedures Manual](https://wwwn.cdc.gov/nchs/data/nhanes/2005-2006/manuals/bc.pdf) located on the NHANES website.

**Cross-Calibration and Longitudinal Monitoring**  
In multi-site studies such as NHANES, verification that all DXA systems are performing within the expected limits is critical since data collected at the multiple sites are pooled for analysis. A cross-calibration study was conducted prior to the start of NHANES 1999 to identify the relationships among the densitometers in the three MECS. Since all three densitometers in NHANES were the identical make and model, cross-calibration was simplified. However, in 1999, no standard existed for phantom cross-calibration for whole body BMD and soft tissue and new procedures were developed for the survey. At the time, the NHANES cross-calibration study was unique in that it included three scanners and in-vivo subjects and in-vitro phantoms.

In 2005-2006, longitudinal monitoring was conducted through the daily spine phantom scans as required by the manufacturer, 3 times weekly whole body slim-line phantom scans, and weekly air scans in order to correct any scanner-related changes in participant data. The circulating HSP-Q96, block, and whole body phantoms, which were scanned at the start of operations at each site, provided additional data for use in longitudinal monitoring and cross calibration. The cross-comparability of the data from each MEC was critical so the data could be pooled for analysis.

The UCSF used the Cumulative Statistics method (CUSUM) and the MEC-specific phantom data to determine breaks in the calibration of the densitometers over the course of the survey (Lu, 1996). Multiplicative correction factors were used to correct the phantom data back to the baseline calibration. The type, frequency, and magnitude of calibration problems detected in the NHANES data were similar to those in other studies using stationary densitometers that were being monitored by UCSF.

After applying the correction factors developed by UCSF from the cross-calibration and longitudinal phantom data to the NHANES participant data, the adjusted participant data were compared to unadjusted data. The magnitude of the changes and reduction in standard errors between the adjusted and unadjusted data were found to be small and correction of the participant data not required.

A number of issues were addressed through the quality control program. Direct feedback given to the technologists regarding acquisition problems affecting the quality of the scans and yearly refresher training resulted in improved technologist performance. The rigorous schedule of quality control scans provided continuous monitoring of machine performance. The expert review procedures assured that scan analysis was accurate and consistent. The air scan quality assurance tool used to evaluate whole body performance was first used in the NHANES and was subsequently adopted by Hologic as a mandatory scan mode for all whole body scanners.

Data Processing and Editing

Several steps were taken to produce the DXX\_D data files.

**5% Adjustment of Lean Mass and Fat Mass**  
The NHANES lean soft tissue mass and fat mass for the total body and regions were adjusted based on the results of an analysis of QDR- 4500A DXA data from seven research laboratories indicating that the QDR-4500A algorithm underestimated fat mass and overestimated lean mass (Schoeller, 2005). The analysis utilized six data sets provided by study investigators and one published data set. The analytic data included fat mass and lean mass measured on Hologic QDR-4500A densitometers and criteria measurements of body composition from total body water by dilution, underwater weighing, and four-compartment analysis. The QDR-4500A was determined to overestimate lean mass (p < 0.05) in the cohort of 1,198 subjects. A statistically significant difference was observed in all 7 data sets with a mean ± SE of 5 ± 1%. Based on the results of the analysis, the NHANES DXA lean mass was decreased by 5% and an equivalent kilogram weight added to the fat mass so the total mass did not change.

**Multiple Imputation**  
The percentage of eligible survey participants in 2005-2006 with 100% valid data (all analyzed regions were valid) is shown by age group in Table 1. The percentage of participants with valid data decreases with increasing age. The decrease in valid data with age was due primarily to an increase in the number of participants with implants such as pacemakers, stents, and hip replacements and higher rates of obesity resulting in invalid truncal data from “obesity noise.” The percentage of participants with 100% valid data also decreases with increasing BMI (Table 2).

SAS-callable imputation and variance estimation software developed by the Survey Methodology Program at the University of Michigan’s Institute of Survey Research (ISR), IVEware, was used to impute the NHANES DXA data (Raghunathan, 2002). The IVEware module IMPUTE performs multiple imputations of missing values using the sequential regression imputation method (Raghunathan, 2001). A detailed description of the imputation procedures is provided in the Documentation for Multiple Imputation of National Health and Nutrition Examination Survey 1999-2004 Dual Energy X-Ray Absorptiometry Data on the NHANES website and in Schenker, 2011.

Five complete records containing valid and/or imputed values were created for each survey participant to allow the assessment of variability due to imputation. The DXX data file contains all 5 records. The variable “\_multi\_“ has values 1-5, which can be used to identify the records. For participants with multiply imputed data, each of the 5 records contains a different set of imputed values. Participants who have 100% valid data have 5 identical records, since no data were imputed.

**Use of the imputed data sets will provide complete DXA data for all participants and ensure a more accurate standard error of the estimate.**

The data file contains two overall imputation indicator variables that indicate whether bone (DXITOTBN) or soft tissue data (DXITOTST) were imputed for at least one body subregion. The values for these overall imputation variables are 0 = data not imputed, 1 = data imputed, and 2 = highly variable imputed data: The data file also contains imputation indicator variables for different body subregions as listed below:  
DXIHE = head  
DXILA = left arm  
DXILL = left leg  
DXIRA = right arm  
DXIRL = right leg  
DXILR = left rib  
DXIRR = right rib  
DXITS = thoracic spine  
DXILS = lumbar spine  
DXIPE = pelvis  
DXITR = trunk  
**The values for each variable are:**  
0=Not imputed  
1= Only soft tissue imputed  
2=Only bone imputed  
3=Both soft tissue and bone imputed  
4= Highly variable imputation

A subset of participants with highly variable imputed data, fat mass in particular, has blank records in the 2005-2006 DXX file. The data for these participants can be found in the DXX\_D\_S data file. Participants with highly variable imputed data (all imputation indicator variables = 4) had no valid DXA data and were missing measured weight and waist circumference, which were critical predictor variables in the imputation model. The data in DXX\_D\_ S should be reviewed carefully before inclusion in any analysis.

Analytic Notes

**The DXX\_D data file contains 5 records for each survey participant. The multiple records must be taken into account when calculating sample sizes. The following SAS example can be used to select a single record in order to calculate sample sizes:**

data alldxx\_d;  
merge dexa.dxx\_d (where =(\_mult\_ = 1)) work.demo;  
by seqn;  
run;

The frequency counts in the codebook are the total number of observations from all 5 records. The counts must be divided by 5 to calculate the actual number of participants with the code or value. Frequency counts are not provided for the DXX\_D\_S data file.

Analysts should read the Documentation for Multiple Imputation of National Health and Nutrition Examination Survey 1999-2004 Dual Energy X-Ray Absorptiometry Data on the NHANES website. The same model and procedures used in multiply imputing the 1999-2004 DXA data were used in imputing the 2005-2006 data. Additional information on the multiple imputation of the 1999-2004 DXA data can be found in Schenker, 2011. The documentation provides sample code for analysis of the multiply imputed data using SAS-callable SUDAAN. Other statistical packages, including Stata, R and SAS Survey, can be used in the analysis of multiply imputed complex survey data.

The NHANES examination sample weights should be used for all DXX\_D 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.

**Relationship among examination status codes and imputation indicator codes**

| **DXAEXSTS** | **DXITOT** | **DXITOTBN** | **Data** | **Body subregion Imputation Indicator Codes** |
| --- | --- | --- | --- | --- |
| 1 | 0 | 0 | All data were valid and none were imputed. | All codes = 0. |
| 1 | 0 | 1 | Bone Data for at least 1 subregion were invalid and imputed. | Code(s) for the subregion(s) that were imputed= 2. |
| 1 | 1 | 0 | Soft tissue Data for at least 1 subregion were invalid and imputed | Code(s) for the subregion(s) that were imputed = 1. |
| 1 | 1 | 1 | Bone and soft tissue data for at least 1 subregion were invalid and imputed. | Code(s) for the subregion(s) that were imputed= 1, 2 or 3. |
| 2 | 1 | 1 | All data were invalid and all were imputed. | All codes = 1, 2 or 3. |
| 3 | Missing | Missing | Participant was pregnant and excluded from the DXA exam. All data are missing and none were imputed. There are 371 pregnant females in the DXX\_D data file. | All codes =Missing |
| 4, 5, or 6 | 1 | 1 | Participant was excluded from the exam for a reason other than pregnancy. All data were imputed. | All codes = 1, 2 or 3. |
| 4 or 6 | 2 | 2 | The participant was excluded from the exam. All data were imputed, but were considered to be highly variable and placed in DXX\_D\_S. There are 48 participants with highly variable data in the DXX\_D\_S file. | All codes = 4. |
| 6 | Missing | Missing | The participant was excluded from the exam, but the data could not be imputed .All data are missing. There are 6 such participants in the DXX\_D data file. | All codes =Missing |

**Invalidity Codes**  
Invalidity codes were applicable to completed scans only (DXAEXSTS=1). Valid regions were coded 0. Codes 1-7 indicate the reasons regions could not be analyzed accurately. If a participant was not scanned, all invalidity codes will be missing.

Invalidity codes  
DXAHEBV = head bone  
DXAHETV = head tissue  
DXALABV = left arm bone  
DXALATV = left arm tissue  
DXALLBV = left leg bone  
DXALLTV = left leg tissue  
DXARABV = right arm bone  
DXARATV = right arm tissue  
DXARLBV = right leg bone  
DXARLTV = right leg tissue  
DXATRBV = trunk bone, includes thoracic and lumbar spine, left and right ribs, and pelvis  
DXATRTV = trunk tissue

Values for invalidity codes  
0 = Valid data  
1 = Jewelry and other objects not removed  
2 = Non-removable objects (includes prostheses, implants, casts)  
3 = Excessive x-ray “noise” due to obesity, i.e., the DXA beam could not penetrate the layers of abdominal fat to provide an analyzable scan image (applied to the trunk region only)  
4 = Arm/leg overlap  
5 = Body parts out of scan region  
6 = Positioning problem (head, arms/hands or feet turned)  
7 = Other (includes participant motion, unknown artifacts, deformities)

Table 1. Percentages of interviewed and examined participants 8-69 years of age with valid DXA data by age group, NHANES 2005-2006.

| **Gender-age group (Years)** | **Interviewed and examined (N) \*** | **Eligible for DXA (N) †** | **Eligible for DXA (%) †** | **100% valid DXA data (N) ‡** | **100% valid DXA data (%) ‡** |
| --- | --- | --- | --- | --- | --- |
| 8-11 | 740 | 740 | 100 | 663 | 90 |
| 12-15 | 1,089 | 1,085 | 100 | 916 | 84 |
| 16-19 | 1,118 | 1,076 | 96 | 857 | 80 |
| 20-29 | 1,021 | 792 | 78 | 574 | 72 |
| 30-39 | 818 | 725 | 89 | 539 | 74 |
| 40-49 | 815 | 812 | 100 | 604 | 74 |
| 50-59 | 631 | 631 | 100 | 463 | 73 |
| 60-69 | 661 | 661 | 100 | 464 | 70 |
| Total | 6,893 | 6,522 | 95 | 5,080 | 78 |

\* The number interviewed and examined is the total number of participants in the data file with a SEQN variable. This number includes pregnant females (n = 344).

† The total number eligible for DXA includes participants with both valid and imputed data (n = 7,621), participants with highly variable data in DXX\_D\_S (n = 252), and participants for whom data could not be imputed (n = 25). This number does not include pregnant females.

‡ Of those eligible for DXA who successfully completed a scan.

Table 2. Percentages of participants 20 years and older with valid DXA data by body mass index (BMI)\* category, NHANES 2005-2006.

| **BMI Category** | **Eligible for DXA †** | **100% Valid Data (N) †** | **100% Valid Data (%) ‡** |
| --- | --- | --- | --- |
| < 18 | 60 | 47 | 78 |
| 18-24.9 | 997 | 797 | 80 |
| 25-29.9 | 1,193 | 956 | 80 |
| 30-34.9 | 738 | 559 | 76 |
| 35.0-39.9 | 346 | 216 | 62 |
| ≥ 40 | 238 | 60 | 25 |
| Total | 3,572 | 2,635 | 74 |

\* Measured weight in kilograms divided by measured height in meters squared.

† Does not include pregnant females

‡ Of those eligible for DXA.

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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 8 YEARS - 69 YEARS

\_MULT\_ - Imputation Version

**Variable Name:**

\_MULT\_

**SAS Label:**

Imputation Version

**English Text:**

Imputation version

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1 to 5 | Range of Values | 34465 | 34465 |  |
| . | Missing | 0 | 34465 |  |

DXAEXSTS - Exam Status

**Variable Name:**

DXAEXSTS

**SAS Label:**

Exam Status

**English Text:**

Exam Status

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1 | Scan completed | 28565 | 28565 |  |
| 2 | Scan completed, but invalid | 20 | 28585 |  |
| 3 | Not scanned, pregnancy | 1855 | 30440 |  |
| 4 | Not scanned, weight > 300 lbs | 435 | 30875 |  |
| 5 | Not scanned, height > 6'5 | 25 | 30900 |  |
| 6 | Not scanned, other reason | 3565 | 34465 |  |
| . | Missing | 0 | 34465 |  |

DXITOTST - Soft Tissue Imputation Indicator

**Variable Name:**

DXITOTST

**SAS Label:**

Soft Tissue Imputation Indicator

**English Text:**

Soft Tissue Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 24425 | 24425 |  |
| 1 | Imputed | 7920 | 32345 |  |
| 2 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXITOTBN - Bone Imputation Indicator

**Variable Name:**

DXITOTBN

**SAS Label:**

Bone Imputation Indicator

**English Text:**

Bone Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 25400 | 25400 |  |
| 1 | Imputed | 6945 | 32345 |  |
| 2 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXIHE - Head Imputation Indicator

**Variable Name:**

DXIHE

**SAS Label:**

Head Imputation Indicator

**English Text:**

Head Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 28430 | 28430 |  |
| 1 | Imputed | 0 | 28430 |  |
| 2 | Highly Variable Imputation | 0 | 28430 |  |
| 3 | Both soft tissue and bone imputed | 3915 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXHEA - Head Area (cm^2)

**Variable Name:**

DXXHEA

**SAS Label:**

Head Area (cm^2)

**English Text:**

Head Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 158.97 to 302.58 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXAHEBV - Head Bone Invalidity Code

**Variable Name:**

DXAHEBV

**SAS Label:**

Head Bone Invalidity Code

**English Text:**

Head Bone Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 28450 | 28450 |  |
| 1 | Jewelry or other objects not removed | 45 | 28495 |  |
| 2 | Non-removable objects | 5 | 28500 |  |
| 5 | Body parts out of scan region | 40 | 28540 |  |
| 6 | Positioning problem | 5 | 28545 |  |
| 7 | Other | 25 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXHEBMC - Head Bone Mineral Content (g)

**Variable Name:**

DXXHEBMC

**SAS Label:**

Head Bone Mineral Content (g)

**English Text:**

Head Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 186.72 to 1124.12 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXHEBMD - Head Bone Mineral Density (g/cm^2)

**Variable Name:**

DXXHEBMD

**SAS Label:**

Head Bone Mineral Density (g/cm^2)

**English Text:**

Head Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.954 to 4.358 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXAHETV - Head Tissue Invalidity Code

**Variable Name:**

DXAHETV

**SAS Label:**

Head Tissue Invalidity Code

**English Text:**

Head Tissue Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 28450 | 28450 |  |
| 1 | Jewelry or other objects not removed | 45 | 28495 |  |
| 2 | Non-removable objects | 5 | 28500 |  |
| 5 | Body parts out of scan region | 40 | 28540 |  |
| 6 | Positioning problem | 5 | 28545 |  |
| 7 | Other | 25 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXHEFAT - Head Fat (g)

**Variable Name:**

DXXHEFAT

**SAS Label:**

Head Fat (g)

**English Text:**

Head Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 675.9 to 3469.5 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDHELE - Head Lean excl BMC (g)

**Variable Name:**

DXDHELE

**SAS Label:**

Head Lean excl BMC (g)

**English Text:**

Head Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1904.7 to 7074.5 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXHELI - Head Lean incl BMC (g)

**Variable Name:**

DXXHELI

**SAS Label:**

Head Lean incl BMC (g)

**English Text:**

Head Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 2168.8 to 7995.5 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDHETOT - Head Total (g)

**Variable Name:**

DXDHETOT

**SAS Label:**

Head Total (g)

**English Text:**

Head Total (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 2849 to 10830.3 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDHEPF - Head Percent Fat

**Variable Name:**

DXDHEPF

**SAS Label:**

Head Percent Fat

**English Text:**

Head Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 20.5 to 32.8 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXILA - Left Arm Imputation Indicator

**Variable Name:**

DXILA

**SAS Label:**

Left Arm Imputation Indicator

**English Text:**

Left Arm Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 26860 | 26860 |  |
| 1 | Only soft tissue imputed | 920 | 27780 |  |
| 2 | Only bone imputed | 35 | 27815 |  |
| 3 | Both soft tissue and bone imputed | 4530 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXLAA - Left Arm Area (cm^2)

**Variable Name:**

DXXLAA

**SAS Label:**

Left Arm Area (cm^2)

**English Text:**

Left Arm Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 55.22 to 419.43 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXALABV - Left Arm Bone Invalidity Code

**Variable Name:**

DXALABV

**SAS Label:**

Left Arm Bone Invalidity Code

**English Text:**

Left Arm Bone Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 27780 | 27780 |  |
| 1 | Jewelry or other objects not removed | 55 | 27835 |  |
| 2 | Non-removable objects | 65 | 27900 |  |
| 4 | Arm/leg overlap | 180 | 28080 |  |
| 5 | Body parts out of scan region | 365 | 28445 |  |
| 6 | Positioning problem | 5 | 28450 |  |
| 7 | Other | 120 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXLABMC - Left Arm BMC (g)

**Variable Name:**

DXXLABMC

**SAS Label:**

Left Arm BMC (g)

**English Text:**

Left Arm Body Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 27.71 to 472.84 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLABMD - Left Arm BMD (g/cm^2)

**Variable Name:**

DXXLABMD

**SAS Label:**

Left Arm BMD (g/cm^2)

**English Text:**

Left Arm Body Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.361 to 1.284 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXALATV - Left Arm Tissue Invalidity Code

**Variable Name:**

DXALATV

**SAS Label:**

Left Arm Tissue Invalidity Code

**English Text:**

Left Arm Tissue Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 26895 | 26895 |  |
| 1 | Jewelry or other objects not removed | 50 | 26945 |  |
| 2 | Non-removable objects | 65 | 27010 |  |
| 4 | Arm/leg overlap | 995 | 28005 |  |
| 5 | Body parts out of scan region | 410 | 28415 |  |
| 6 | Positioning problem | 5 | 28420 |  |
| 7 | Other | 150 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXLAFAT - Left Arm Fat (g)

**Variable Name:**

DXXLAFAT

**SAS Label:**

Left Arm Fat (g)

**English Text:**

Left Arm Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 134.5 to 7904.5 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDLALE - Left Arm Lean excl BMC (g)

**Variable Name:**

DXDLALE

**SAS Label:**

Left Arm Lean excl BMC (g)

**English Text:**

Left Arm Lean excl Body Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 586.1 to 9229.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLALI - Left Arm Lean incl BMC (g)

**Variable Name:**

DXXLALI

**SAS Label:**

Left Arm Lean incl BMC (g)

**English Text:**

Left Arm Lean incl BMC (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 627.4 to 9664.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDLATOT - Left Arm Total (g)

**Variable Name:**

DXDLATOT

**SAS Label:**

Left Arm Total (g)

**English Text:**

Left Arm Total (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 967.6 to 15770.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDLAPF - Left Arm Percent Fat

**Variable Name:**

DXDLAPF

**SAS Label:**

Left Arm Percent Fat

**English Text:**

Left Arm Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 7.6 to 69 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXILL - Left Leg Imputation Indicator

**Variable Name:**

DXILL

**SAS Label:**

Left Leg Imputation Indicator

**English Text:**

Left Leg Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 26500 | 26500 |  |
| 1 | Only soft tissue imputed | 910 | 27410 |  |
| 2 | Only bone imputed | 70 | 27480 |  |
| 3 | Both soft tissue and bone imputed | 4865 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXLLA - Left Leg Area (cm^2)

**Variable Name:**

DXXLLA

**SAS Label:**

Left Leg Area (cm^2)

**English Text:**

Left Leg Area(cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 126.96 to 659.52 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXALLBV - Left Leg Bone Invalidity Code

**Variable Name:**

DXALLBV

**SAS Label:**

Left Leg Bone Invalidity Code

**English Text:**

Left Leg Bone Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 27415 | 27415 |  |
| 1 | Jewelry or other objects not removed | 20 | 27435 |  |
| 2 | Non-removable objects | 250 | 27685 |  |
| 4 | Arm/leg overlap | 345 | 28030 |  |
| 5 | Body parts out of scan region | 425 | 28455 |  |
| 6 | Positioning problem | 5 | 28460 |  |
| 7 | Other | 110 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXLLBMC - Left Leg BMC (g)

**Variable Name:**

DXXLLBMC

**SAS Label:**

Left Leg BMC (g)

**English Text:**

Left Leg Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 93.61 to 1300.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLLBMD - Left Leg BMD (g/cm^2)

**Variable Name:**

DXXLLBMD

**SAS Label:**

Left Leg BMD (g/cm^2)

**English Text:**

Left Leg Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.571 to 2.21 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXALLTV - Left Leg Tissue Invalidity Code

**Variable Name:**

DXALLTV

**SAS Label:**

Left Leg Tissue Invalidity Code

**English Text:**

Left Leg Tissue Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 26575 | 26575 |  |
| 1 | Jewelry or other objects not removed | 20 | 26595 |  |
| 2 | Non-removable objects | 250 | 26845 |  |
| 4 | Arm/leg overlap | 1200 | 28045 |  |
| 5 | Body parts out of scan region | 415 | 28460 |  |
| 6 | Positioning problem | 5 | 28465 |  |
| 7 | Other | 105 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXLLFAT - Left Leg Fat (g)

**Variable Name:**

DXXLLFAT

**SAS Label:**

Left Leg Fat (g)

**English Text:**

Left Leg Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 579 to 20986.6 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDLLLE - Left Leg Lean excl BMC (g)

**Variable Name:**

DXDLLLE

**SAS Label:**

Left Leg Lean excl BMC (g)

**English Text:**

Left Leg Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1734.9 to 25712.8 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLLLI - Left Leg Lean incl BMC (g)

**Variable Name:**

DXXLLLI

**SAS Label:**

Left Leg Lean incl BMC (g)

**English Text:**

Left Leg Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1863.2 to 26841.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDLLTOT - Left Leg Total (g)

**Variable Name:**

DXDLLTOT

**SAS Label:**

Left Leg Total (g)

**English Text:**

Left Leg Total (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 3028.9 to 43171 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDLLPF - Left Leg Percent Fat

**Variable Name:**

DXDLLPF

**SAS Label:**

Left Leg Percent Fat

**English Text:**

Left Leg Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 6.4 to 69.1 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXIRA - Right Arm Imputation Indicator

**Variable Name:**

DXIRA

**SAS Label:**

Right Arm Imputation Indicator

**English Text:**

Right Arm Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 26490 | 26490 |  |
| 1 | Imputed | 1120 | 27610 |  |
| 2 | Only bone imputed | 35 | 27645 |  |
| 3 | Both soft tissue and bone imputed | 4700 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXRAA - Right Arm Area (cm^2)

**Variable Name:**

DXXRAA

**SAS Label:**

Right Arm Area (cm^2)

**English Text:**

Right Arm Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 59.97 to 403.38 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXARABV - Right Arm Bone Invalidity Code

**Variable Name:**

DXARABV

**SAS Label:**

Right Arm Bone Invalidity Code

**English Text:**

Right Arm Bone Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 27610 | 27610 |  |
| 1 | Jewelry or other objects not removed | 45 | 27655 |  |
| 2 | Non-removable objects | 85 | 27740 |  |
| 4 | Arm/leg overlap | 165 | 27905 |  |
| 5 | Body parts out of scan region | 570 | 28475 |  |
| 6 | Positioning problem | 5 | 28480 |  |
| 7 | Other | 90 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXRABMC - Right Arm BMC (g)

**Variable Name:**

DXXRABMC

**SAS Label:**

Right Arm BMC (g)

**English Text:**

Right Arm Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 33.11 to 464.87 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXRABMD - Right Arm BMD (g/cm^2)

**Variable Name:**

DXXRABMD

**SAS Label:**

Right Arm BMD (g/cm^2)

**English Text:**

Right Arm Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.377 to 1.367 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXARATV - Right Arm Tissue Invalidity Code

**Variable Name:**

DXARATV

**SAS Label:**

Right Arm Tissue Invalidity Code

**English Text:**

Right Arm Tissue Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 26525 | 26525 |  |
| 1 | Jewelry or other objects not removed. | 40 | 26565 |  |
| 2 | Non-removable objects | 85 | 26650 |  |
| 4 | Arm/leg overlap | 1190 | 27840 |  |
| 5 | Body parts out of scan region | 605 | 28445 |  |
| 6 | Positioning problem | 5 | 28450 |  |
| 7 | Other | 120 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXRAFAT - Right Arm Fat (g)

**Variable Name:**

DXXRAFAT

**SAS Label:**

Right Arm Fat (g)

**English Text:**

Right Arm Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 128.2 to 8033.6 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDRALE - Right Arm Lean excl BMC (g)

**Variable Name:**

DXDRALE

**SAS Label:**

Right Arm Lean excl BMC (g)

**English Text:**

Right Arm Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 606.8 to 9004.1 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXRALI - Right Arm Lean incl BMC (g)

**Variable Name:**

DXXRALI

**SAS Label:**

Right Arm Lean incl BMC (g)

**English Text:**

Right Arm Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 648.7 to 9466.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDRATOT - Right Arm Total (g)

**Variable Name:**

DXDRATOT

**SAS Label:**

Right Arm Total (g)

**English Text:**

Right Arm Total (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 953.9 to 15503.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDRAPF - Right Arm Percent Fat

**Variable Name:**

DXDRAPF

**SAS Label:**

Right Arm Percent Fat

**English Text:**

Right Arm Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 8.3 to 69.5 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXIRL - Right Leg Imputation Indicator

**Variable Name:**

DXIRL

**SAS Label:**

Right Leg Imputation Indicator

**English Text:**

Right Leg Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 26250 | 26250 |  |
| 1 | Only soft tissue imputed | 1145 | 27395 |  |
| 2 | Only bone imputed | 80 | 27475 |  |
| 3 | Both soft tissue and bone imputed | 4870 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXRLA - Right Leg Area (cm^2)

**Variable Name:**

DXXRLA

**SAS Label:**

Right Leg Area (cm^2)

**English Text:**

Right Leg Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 128.79 to 642.38 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXARLBV - Right Leg Bone Invalidity Code

**Variable Name:**

DXARLBV

**SAS Label:**

Right Leg Bone Invalidity Code

**English Text:**

Right Leg Bone Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 27400 | 27400 |  |
| 1 | Jewelry or other objects not removed | 20 | 27420 |  |
| 2 | Non-removable objects | 265 | 27685 |  |
| 4 | Arm/leg overlap | 365 | 28050 |  |
| 5 | Body parts out of scan region | 415 | 28465 |  |
| 6 | Positioning problem | 0 | 28465 |  |
| 7 | Other | 105 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXRLBMC - Right Leg BMC (g)

**Variable Name:**

DXXRLBMC

**SAS Label:**

Right Leg BMC (g)

**English Text:**

Right Leg Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 98.76 to 1236.7 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXRLBMD - Right Leg BMD(g/cm^2)

**Variable Name:**

DXXRLBMD

**SAS Label:**

Right Leg BMD(g/cm^2)

**English Text:**

Right Leg Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.575 to 2.101 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXARLTV - Right Leg Tissue Invalidity Code

**Variable Name:**

DXARLTV

**SAS Label:**

Right Leg Tissue Invalidity Code

**English Text:**

Right Leg Tissue Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 26335 | 26335 |  |
| 1 | Jewelry or other objects not removed | 20 | 26355 |  |
| 2 | Non-removable objects | 260 | 26615 |  |
| 4 | Arm/leg overlap | 1450 | 28065 |  |
| 5 | Body parts out of scan region | 405 | 28470 |  |
| 6 | Positioning problem | 0 | 28470 |  |
| 7 | Other | 100 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXRLFAT - Right Leg Fat (g)

**Variable Name:**

DXXRLFAT

**SAS Label:**

Right Leg Fat (g)

**English Text:**

Right Leg Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 554.8 to 22082 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDRLLE - Right Leg Lean excl BMC (g)

**Variable Name:**

DXDRLLE

**SAS Label:**

Right Leg Lean excl BMC (g)

**English Text:**

Right Leg Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1760.3 to 25844.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXRLLI - Right Leg Lean incl BMC (g)

**Variable Name:**

DXXRLLI

**SAS Label:**

Right Leg Lean incl BMC (g)

**English Text:**

Right Leg Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 1895.9 to 26934.8 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDRLTOT - Right Leg Total (g)

**Variable Name:**

DXDRLTOT

**SAS Label:**

Right Leg Total (g)

**English Text:**

Right Leg Total (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 3213.7 to 43467 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDRLPF - Right Leg Percent Fat

**Variable Name:**

DXDRLPF

**SAS Label:**

Right Leg Percent Fat

**English Text:**

Right Leg Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 6.3 to 66.3 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXILR - Left Ribs Imputation Indicator

**Variable Name:**

DXILR

**SAS Label:**

Left Ribs Imputation Indicator

**English Text:**

Left Ribs Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 27675 | 27675 |  |
| 1 | Only soft tissue imputed | 0 | 27675 |  |
| 2 | Only bone imputed | 4670 | 32345 |  |
| 3 | Both soft tissue and bone imputed | 0 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXLRA - Left Ribs Area (cm^2)

**Variable Name:**

DXXLRA

**SAS Label:**

Left Ribs Area (cm^2)

**English Text:**

Left Ribs Area(cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 50.87 to 273.56 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLRBMC - Left Ribs BMC (g)

**Variable Name:**

DXXLRBMC

**SAS Label:**

Left Ribs BMC (g)

**English Text:**

Left Ribs Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 23.98 to 286.1 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLRBMD - Left Ribs BMD (g/cm^2)

**Variable Name:**

DXXLRBMD

**SAS Label:**

Left Ribs BMD (g/cm^2)

**English Text:**

Left Ribs Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.359 to 1.218 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXIRR - Right Ribs Imputation Indicator

**Variable Name:**

DXIRR

**SAS Label:**

Right Ribs Imputation Indicator

**English Text:**

Right Ribs Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 27675 | 27675 |  |
| 1 | Only soft tissue imputed | 0 | 27675 |  |
| 2 | Only bone imputed | 4670 | 32345 |  |
| 3 | Both soft tissue and bone imputed | 0 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXRRA - Right Ribs Area (cm^2)

**Variable Name:**

DXXRRA

**SAS Label:**

Right Ribs Area (cm^2)

**English Text:**

Right Ribs Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 46.47 to 364.75 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXRRBMC - Right Ribs BMC (g)

**Variable Name:**

DXXRRBMC

**SAS Label:**

Right Ribs BMC (g)

**English Text:**

Right Ribs Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 21.54 to 322.42 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXRRBMD - Right Ribs BMD (g/cm^2)

**Variable Name:**

DXXRRBMD

**SAS Label:**

Right Ribs BMD (g/cm^2)

**English Text:**

Right Ribs Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.337 to 1.193 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXITS - Thoracic Spine Imputation Indicator

**Variable Name:**

DXITS

**SAS Label:**

Thoracic Spine Imputation Indicator

**English Text:**

Thoracic Spine Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 27675 | 27675 |  |
| 1 | Only soft tissue imputed | 0 | 27675 |  |
| 2 | Only bone imputed | 4670 | 32345 |  |
| 3 | Both soft tissue and bone imputed | 0 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXTSA - Thoracic Spine Area (cm^2)

**Variable Name:**

DXXTSA

**SAS Label:**

Thoracic Spine Area (cm^2)

**English Text:**

Thoracic Spine Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 44.81 to 283.14 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXTSBMC - Thoracic Spine BMC (g)

**Variable Name:**

DXXTSBMC

**SAS Label:**

Thoracic Spine BMC (g)

**English Text:**

Thoracic Spine Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 21.64 to 364.11 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXTSBMD - Thoracic Spine BMD (g/cm^2)

**Variable Name:**

DXXTSBMD

**SAS Label:**

Thoracic Spine BMD (g/cm^2)

**English Text:**

Thoracic Spine Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.385 to 1.534 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXILS - Lumbar Spine Imputation Indicator

**Variable Name:**

DXILS

**SAS Label:**

Lumbar Spine Imputation Indicator

**English Text:**

Lumbar Spine Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 27675 | 27675 |  |
| 1 | Only soft tissue imputed | 0 | 27675 |  |
| 2 | Only bone imputed | 4670 | 32345 |  |
| 3 | Both soft tissue and bone imputed | 0 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXLSA - Lumbar Spine Area (cm^2)

**Variable Name:**

DXXLSA

**SAS Label:**

Lumbar Spine Area (cm^2)

**English Text:**

Lumbar Spine Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 9.66 to 96.06 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLSBMC - Lumbar Spine BMC (g)

**Variable Name:**

DXXLSBMC

**SAS Label:**

Lumbar Spine BMC (g)

**English Text:**

Lumbar Spine Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 5.81 to 148.27 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXLSBMD - Lumbar Spine BMD (g/cm^2)

**Variable Name:**

DXXLSBMD

**SAS Label:**

Lumbar Spine BMD (g/cm^2)

**English Text:**

Lumbar Spine Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.431 to 2.132 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXIPE - Pelvis Imputation Indicator

**Variable Name:**

DXIPE

**SAS Label:**

Pelvis Imputation Indicator

**English Text:**

Pelvis Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 27665 | 27665 |  |
| 1 | Only soft tissue imputed | 0 | 27665 |  |
| 2 | Only bone imputed | 4680 | 32345 |  |
| 3 | Both soft tissue and bone imputed | 0 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXXPEA - Pelvis Area (cm^2)

**Variable Name:**

DXXPEA

**SAS Label:**

Pelvis Area (cm^2)

**English Text:**

Pelvis Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 64.69 to 428.03 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXPEBMC - Pelvis BMC (g)

**Variable Name:**

DXXPEBMC

**SAS Label:**

Pelvis BMC (g)

**English Text:**

Pelvis Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 48.41 to 1304.15 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXPEBMD - Pelvis BMD (g/cm^2)

**Variable Name:**

DXXPEBMD

**SAS Label:**

Pelvis BMD (g/cm^2)

**English Text:**

Pelvis Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.528 to 3.162 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXITR - Trunk Imputation Indicator

**Variable Name:**

DXITR

**SAS Label:**

Trunk Imputation Indicator

**English Text:**

Trunk Imputation Indicator

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Not imputed | 27680 | 27680 |  |
| 1 | Only soft tissue imputed | 4665 | 32345 |  |
| 2 | Only bone imputed | 0 | 32345 |  |
| 3 | Both soft tissue and bone imputed | 0 | 32345 |  |
| 4 | Highly variable imputation | 235 | 32580 |  |
| . | Missing | 1885 | 34465 |  |

DXDTRA - Trunk Bone area (cm^2)

**Variable Name:**

DXDTRA

**SAS Label:**

Trunk Bone area (cm^2)

**English Text:**

Trunk Bone area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 273.29 to 1222 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXATRBV - Trunk Bone Invalidity Code

**Variable Name:**

DXATRBV

**SAS Label:**

Trunk Bone Invalidity Code

**English Text:**

Trunk Bone Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 27675 | 27675 |  |
| 1 | Jewelry or other objects not removed | 160 | 27835 |  |
| 2 | Non-removable objects | 425 | 28260 |  |
| 3 | Excessive X-ray noise | 220 | 28480 |  |
| 4 | Arm/leg overlap | 10 | 28490 |  |
| 5 | Body parts out of scan region | 0 | 28490 |  |
| 6 | Positioning problem | 0 | 28490 |  |
| 7 | Other | 80 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXDTRBMC - Trunk BMC (g)

**Variable Name:**

DXDTRBMC

**SAS Label:**

Trunk BMC (g)

**English Text:**

Trunk Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 148.23 to 2120.49 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTRBMD - Trunk Bone BMD (g/cm^2)

**Variable Name:**

DXDTRBMD

**SAS Label:**

Trunk Bone BMD (g/cm^2)

**English Text:**

Trunk Bone BMD (g/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.471 to 2.028 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXATRTV - Trunk Tissue Invalidity Code

**Variable Name:**

DXATRTV

**SAS Label:**

Trunk Tissue Invalidity Code

**English Text:**

Trunk Tissue Invalidity Code

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0 | Valid data | 27680 | 27680 |  |
| 1 | Jewelry or other objects not removed | 155 | 27835 |  |
| 2 | Non-removable objects | 420 | 28255 |  |
| 3 | Excessive X-ray noise | 220 | 28475 |  |
| 4 | Arm/leg overlap | 15 | 28490 |  |
| 5 | Body parts out of scan region | 0 | 28490 |  |
| 6 | Positioning problem | 0 | 28490 |  |
| 7 | Other | 80 | 28570 |  |
| . | Missing | 5895 | 34465 |  |

DXXTRFAT - Trunk Fat (g)

**Variable Name:**

DXXTRFAT

**SAS Label:**

Trunk Fat (g)

**English Text:**

Trunk Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 853.3 to 53908.8 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTRLE - Trunk Lean excl BMC (g)

**Variable Name:**

DXDTRLE

**SAS Label:**

Trunk Lean excl BMC (g)

**English Text:**

Trunk Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 6505.4 to 62210.7 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXXTRLI - Trunk Lean incl BMC (g)

**Variable Name:**

DXXTRLI

**SAS Label:**

Trunk Lean incl BMC (g)

**English Text:**

Trunk Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 6697.7 to 63613.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTRTOT - Trunk Total (g)

**Variable Name:**

DXDTRTOT

**SAS Label:**

Trunk Total (g)

**English Text:**

Trunk Total (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 8324.1 to 113516.2 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTRPF - Trunk Percent Fat

**Variable Name:**

DXDTRPF

**SAS Label:**

Trunk Percent Fat

**English Text:**

Trunk Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 5.4 to 58.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTA - Subtotal Area (cm^2)

**Variable Name:**

DXDSTA

**SAS Label:**

Subtotal Area (cm^2)

**English Text:**

Subtotal Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 661.25 to 3237.16 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTBMC - Subtotal BMC (g)

**Variable Name:**

DXDSTBMC

**SAS Label:**

Subtotal BMC (g)

**English Text:**

Subtotal Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 420.71 to 5443.55 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTBMD - Subtotal BMD (g/cm^2)

**Variable Name:**

DXDSTBMD

**SAS Label:**

Subtotal BMD (g/cm^2)

**English Text:**

Subtotal Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.508 to 1.863 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTFAT - Subtotal Fat (g)

**Variable Name:**

DXDSTFAT

**SAS Label:**

Subtotal Fat (g)

**English Text:**

Subtotal Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 2727.4 to 110102.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTLE - Subtotal Lean excl BMC (g)

**Variable Name:**

DXDSTLE

**SAS Label:**

Subtotal Lean excl BMC (g)

**English Text:**

Subtotal Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 11394.3 to 128824.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTLI - Subtotal Lean incl BMC (g)

**Variable Name:**

DXDSTLI

**SAS Label:**

Subtotal Lean incl BMC (g)

**English Text:**

Subtotal Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 11932.9 to 134040.9 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTTOT - Subtotal (Total excl Head) (g)

**Variable Name:**

DXDSTTOT

**SAS Label:**

Subtotal (Total excl Head) (g)

**English Text:**

Subtotal (Total excl Head) (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 16959.3 to 222946.2 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDSTPF - Subtotal Percent Fat

**Variable Name:**

DXDSTPF

**SAS Label:**

Subtotal Percent Fat

**English Text:**

Subtotal Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 7.8 to 60.7 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOA - Total Area (cm^2)

**Variable Name:**

DXDTOA

**SAS Label:**

Total Area (cm^2)

**English Text:**

Total Area (cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 862.48 to 3502.93 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOBMC - Total Bone Mineral Content (g)

**Variable Name:**

DXDTOBMC

**SAS Label:**

Total Bone Mineral Content (g)

**English Text:**

Total Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 633.57 to 6101.17 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOBMD - Total Bone Mineral Density (g/cm^2)

**Variable Name:**

DXDTOBMD

**SAS Label:**

Total Bone Mineral Density (g/cm^2)

**English Text:**

Total Bone Mineral Density (grams/cm^2)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 0.599 to 1.927 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOFAT - Total Fat (g)

**Variable Name:**

DXDTOFAT

**SAS Label:**

Total Fat (g)

**English Text:**

Total Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 3488.6 to 112132.1 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOLE - Total Lean excl BMC (g)

**Variable Name:**

DXDTOLE

**SAS Label:**

Total Lean excl BMC (g)

**English Text:**

Total Lean excl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 13492.7 to 133745.3 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOLI - Total Lean incl BMC (g)

**Variable Name:**

DXDTOLI

**SAS Label:**

Total Lean incl BMC (g)

**English Text:**

Total Lean incl Bone Mineral Content (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 14339.4 to 139707.2 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOTOT - Total Lean+Fat (g)

**Variable Name:**

DXDTOTOT

**SAS Label:**

Total Lean+Fat (g)

**English Text:**

Total Lean incl BMC and Fat (grams)

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 20191.2 to 231062.4 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |

DXDTOPF - Total Percent Fat

**Variable Name:**

DXDTOPF

**SAS Label:**

Total Percent Fat

**English Text:**

Total Percent Fat

**Target:**

Both males and females 8 YEARS - 69 YEARS

| **Code or Value** | **Value Description** | **Count** | **Cumulative** | **Skip to Item** |
| --- | --- | --- | --- | --- |
| 8.8 to 58 | Range of Values | 32345 | 32345 |  |
| . | Missing | 2120 | 34465 |  |