

ICPSR 25505

**National Health and Nutrition
Examination Survey (NHANES),
2007-2008**

*United States Department of Health and
Human Services. Centers for Disease
Control and Prevention. National Center
for Health Statistics*

NCHS User Guide -- Examination: Blood
Pressure

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National Health and Nutrition Examination Survey

2007 - 2008 Data Documentation, Codebook, and Frequencies

Blood Pressure (BPX_E)

Data File: BPX_E.xpt

First Published: September, 2009

Last Revised: NA

Locator Record

Title: Blood Pressure (BPX_E)

Contact Number: 1-866-441-NCHS

Years of Content: 2007 - 2008

First Published: September, 2009

Revised: NA

Access Constraints: None

Use Constraints: None

Geographic Coverage: National

Subject: The data in this file provide interview questions and blood pressure measurements taken in the mobile examination center by two physicians on sample persons eight years of age and older.

Record Source: NHANES 2007 - 2008

Survey Methodology: NHANES 2007 - 2008 is a stratified multistage probability sample of the civilian non-institutionalized population of the U.S.

Medium: NHANES Web site; SAS transport files

Component Description

Accurate measurement of blood pressure (BP) is a major public health concern; it is essential for hypertension screening, as well as for disease management. 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 0-4 years of age; radial pulse is measured on examinees 5 years and older; and blood pressure (BP) is measured on all examinees 8 years and over.

Exclusion criteria: presence of the following on both arms: rashes, gauze dressings, casts, edema, paralysis, tubes, open sores or wounds, withered arms, a-v shunts, or if blood has been drawn from arm within last week.

Protocol and Procedure

After resting quietly in a sitting position for 5 minutes and determining the maximum inflation level (MIL), 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).

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;
- practice listening to systolic and diastolic BP sounds using a standardized audio-video tape presentation;
- audio-video tape test;
- written exam;
- examiner and gold standard instructor simultaneously listening to BP of a minimum of 20 volunteers of all ages through a Y- stethoscope to compare measures; and
- observation of protocol technique using a checklist.

Certification requires a score of 100 per cent 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 ± 2 mm mercury (Hg) on 92 per cent of 24 measures (12 systolic, 12 diastolic), and within ± 4 mm Hg on 100 percent of 24 measures (12 systolic, 12 diastolic). For more information on quality assurance and control, see Ostchega et al. (Ostchega et al, 2003).

For more details on the QA/QC process for this component, please refer to the Physician Section of the **MEC Operations Manual**.

Data Processing and Editing

The following are some required specifications used in capturing the blood pressure data:

- systolic blood pressure and maximum inflation level cannot be greater than 300 mmHg;
- systolic and diastolic blood pressure and 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;
- diastolic blood pressure can be zero

Analytic Notes

Changes Since 2005-2006:

The exam variable BPXDB is not continued in the 2007-2008.

Exam sample weights should be used for analyses. Please refer to the Analytic Guidelines for further details on the use of sample weights and other analytic issues. The Analytic Guidelines are available on the NHANES website.

References

- Ostchega Y, Prineas RJ, Paulose-Ram R, Grim CM, Willard C, Collins C. National Health and Nutrition Examination Survey (NHANES) 1999-2000: Effect of observer training and protocol standardization on reducing blood pressure measurement error. J Clinical Epidemiology. 2003 Aug; 56 (8): 768-774

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name: SEQN

SAS Label: Respondent sequence number

English Text: Respondent sequence number.

Target Gender: Both males and females

Target Age: 0 YEARS - 150 YEARS

PEASCST1 - Blood Pressure Status

Variable Name: PEASCST1

SAS Label: Blood Pressure Status

English Text: Blood Pressure Status

Target Gender: Both males and females

Target Age: 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Complete | 9357 | 9357 | |
| 2 | Partial | 27 | 9384 | |
| 3 | Not done | 378 | 9762 | |
| . | Missing | 0 | 9762 | |

PEASCTM1 - Blood Pressure Time in Seconds

Variable Name: PEASCTM1

SAS Label: Blood Pressure Time in Seconds

English Text: Blood Pressure Time in Seconds

Target Gender: Both males and females

Target Age: 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 3 to 1521 | Range of Values | 9369 | 9369 | |
| . | Missing | 393 | 9762 | |

PEASCCT1 - Blood Pressure Comment

Variable Name: PEASCCT1

SAS Label: Blood Pressure Comment

English Text: Blood Pressure Comment

Target Gender: Both males and females

Target Age: 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-----------------------|-------|------------|--------------|
| 2 | SP refusal | 23 | 23 | |
| 3 | No time | 10 | 33 | |
| 4 | Physical limitation | 3 | 36 | |
| 5 | Communication problem | 3 | 39 | |
| 7 | SP ill/emergency | 8 | 47 | |
| 56 | Came late/left early | 333 | 380 | |
| 84 | SP with child | 6 | 386 | |
| 99 | Other, specify | 19 | 405 | |
| . | Missing | 9357 | 9762 | |

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 Gender: Both males and females

Target Age: 0 YEARS - 7 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 0 to 208 | Range of Values | 2016 | 2016 | |
| . | Missing | 7746 | 9762 | |

BPQ150A - Had food in the past 30 minutes?

Variable Name: BPQ150A

SAS Label: Had food in the past 30 minutes?

English Text: Have you had any of the following in the past 30 minutes?: Food

English Instructions: Check each that applies

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 1679 | 1679 | |
| 2 | No | 5691 | 7370 | |
| . | Missing | 2392 | 9762 | |

BPQ150B - Had alcohol in the past 30 minutes?

Variable Name: BPQ150B

SAS Label: Had alcohol in the past 30 minutes?

English Text: Have you had any of the following in the past 30 minutes?: Alcohol

English Instructions: Check each that applies

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 3 | 3 | |
| 2 | No | 7367 | 7370 | |
| . | Missing | 2392 | 9762 | |

BPQ150C - Had coffee in the past 30 minutes?

Variable Name: BPQ150C

SAS Label: Had coffee in the past 30 minutes?

English Text: Have you had any of the following in the past 30 minutes?: Coffee

English Instructions: Check each that applies

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 49 | 49 | |
| 2 | No | 7321 | 7370 | |
| . | Missing | 2392 | 9762 | |

BPQ150D - Had cigarettes in the past 30 minutes?

Variable Name: BPQ150D

SAS Label: Had cigarettes in the past 30 minutes?

English Text: Have you had any of the following in the past 30 minutes?: Cigarettes

English Instructions: Check each that applies

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 140 | 140 | |
| 2 | No | 7230 | 7370 | |
| . | Missing | 2392 | 9762 | |

BPAARM - Arm selected:

| | |
|-----------------------|------------------------|
| Variable Name: | BPAARM |
| SAS Label: | Arm selected: |
| English Text: | Arm selected: |
| Target Gender: | Both males and females |
| Target Age: | 8 YEARS - 150 YEARS |

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Right | 7326 | 7326 | |
| 2 | Left | 36 | 7362 | |
| 8 | Could not obtain | 8 | 7370 | |
| . | Missing | 2392 | 9762 | |

BPACSZ - Coded cuff size

| | |
|-----------------------|---------------------------------|
| Variable Name: | BPACSZ |
| SAS Label: | Coded cuff size |
| English Text: | Cuff size (cm) (width X length) |
| Target Gender: | Both males and females |
| Target Age: | 8 YEARS - 150 YEARS |

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Infant (6X12) | 0 | 0 | |
| 2 | Child (9X17) | 448 | 448 | |
| 3 | Adult (12X22) | 2388 | 2836 | |
| 4 | Large (15X32) | 3530 | 6366 | |
| 5 | Thigh (18X35) | 987 | 7353 | |

| | | | | |
|---|---------|------|------|--|
| . | Missing | 2409 | 9762 | |
|---|---------|------|------|--|

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 40 to 224 | Range of Values | 7361 | 7361 | |
| . | Missing | 2401 | 9762 | |

BPXPULS - Pulse regular or irregular?

Variable Name: BPXPULS

SAS Label: Pulse regular or irregular?

English Text: Pulse regular or irregular?

Target Gender: Both males and females

Target Age: 0 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Regular | 9215 | 9215 | |
| 2 | Irregular | 171 | 9386 | |
| . | Missing | 376 | 9762 | |

BPXPTY - Pulse type:

Variable Name: BPXPTY

SAS Label: Pulse type:

English Text: Pulse type:

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Radial | 7365 | 7365 | |
| 2 | Brachial | 5 | 7370 | |
| 8 | Could not obtain | 0 | 7370 | |
| . | Missing | 2392 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

Hard Edits: 70.0000 to 300.0000

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 110 to 240 | Range of Values | 7352 | 7352 | |
| 888 | Could not obtain | 0 | 7352 | |
| . | Missing | 2410 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
|---------------|-------------------|-------|------------|--------------|

| | | | | |
|-----------|-----------------|------|------|--|
| 74 to 230 | Range of Values | 7147 | 7147 | |
| . | Missing | 2615 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 0 to 116 | Range of Values | 7147 | 7147 | |
| . | Missing | 2615 | 9762 | |

BPAEN1 - Enhancement used first reading

Variable Name: BPAEN1

SAS Label: Enhancement used first reading

English Text: Enhancement used first reading

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 0 | 0 | |
| 2 | No | 7354 | 7354 | |
| 8 | Could not obtain | 0 | 7354 | |
| . | Missing | 2408 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|------------------|-------------------|-------|------------|--------------|
| 76 to 220 | Range of Values | 6876 | 6876 | |
| . | Missing | 2886 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|-----------------|-------------------|-------|------------|--------------|
| 0 to 122 | Range of Values | 6876 | 6876 | |
| . | Missing | 2886 | 9762 | |

BPAEN2 - Enhancement used second reading

Variable Name: BPAEN2

SAS Label: Enhancement used second reading

English Text: Enhancement used second reading

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 72 | 72 | |
| 2 | No | 7282 | 7354 | |

| | | | | |
|---|------------------|------|------|--|
| 8 | Could not obtain | 0 | 7354 | |
| . | Missing | 2408 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 74 to 222 | Range of Values | 6759 | 6759 | |
| . | Missing | 3003 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 0 to 120 | Range of Values | 6759 | 6759 | |
| . | Missing | 3003 | 9762 | |

BPAEN3 - Enhancement used third reading

Variable Name: BPAEN3

SAS Label: Enhancement used third reading

English Text: Enhancement used third reading

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 64 | 64 | |
| 2 | No | 7290 | 7354 | |
| 8 | Could not obtain | 0 | 7354 | |
| . | Missing | 2408 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 80 to 214 | Range of Values | 225 | 225 | |
| . | Missing | 9537 | 9762 | |

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 Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 0 to 118 | Range of Values | 225 | 225 | |

| | | | | |
|---|---------|------|------|--|
| . | Missing | 9537 | 9762 | |
|---|---------|------|------|--|

BPAEN4 - Enhancement used fourth reading

Variable Name: BPAEN4

SAS Label: Enhancement used fourth reading

English Text: Enhancement used fourth reading

Target Gender: Both males and females

Target Age: 8 YEARS - 150 YEARS

| Code or Value | Value Description | Count | Cumulative | Skip to Item |
|---------------|-------------------|-------|------------|--------------|
| 1 | Yes | 16 | 16 | |
| 2 | No | 784 | 800 | |
| 8 | Could not obtain | 0 | 800 | |
| . | Missing | 8962 | 9762 | |

General Information About the Mobile Examination Center (MEC) Examination Data

Automated Data Collection

Each MEC examination had computerized data collection. The examination component data entry systems had built-in quality control checks. Unusual data entries were flagged and a message was sent to the technicians. The technicians were required to either verify the original entry or edit the response. At the end of each examination session, data were sent to a central survey database.

Spanish Translations of Protocol Instructions

All NHANES brochures, consent forms, hand cards, protocols, and correspondence were produced in English and Spanish. All materials were translated as part of the NHANES, Institutional Review Board (IRB) approved, forward translation process. Extensive training was completed with MEC staff to ensure the quality and comparability of staff interactions with Spanish-speaking respondents.

Technician Training

The qualifications for MEC laboratory, physician, dental, and health technician staff are described in the component training manuals. All MEC staff completed the requirements for safety, subject privacy and confidentiality, and cardiopulmonary resuscitation training. In addition, all staff completed component-specific training to learn the standardized NHANES protocol for each of the examinations they performed.

Quality Control Monitoring- General Procedures

Quality control measures included equipment calibration and observations of examinations in the field. Experienced trainers and observers monitored technician performance in the field. Periodic retraining sessions were conducted with the survey staff.

For a subset of examination components (e.g., body measurements, blood pressure and the dental examination), a "gold standard" examiner performed the second examinations during a site visit.

Consistency Checks

An extensive series of quality assurance and quality control analyses were completed for each examination component. The MEC examination component training manuals, provided with these data files, describe the measures taken in greater detail.

Data Preparation

Routine data preparation procedures included a review of frequency data, outliers, and technician notes. Analysts should review the data reported for each component or laboratory assay, prior to beginning data analyses. Analysts should examine the data spread and consider whether or not it is appropriate to include or exclude extreme values in a given analysis.

2007 - 2008 Examination Variable List

Blood Pressure (BPX_E)

Data File: [BPX_E.xpt](#)

| Item Label | SAS Label |
|------------|--|
| SEQN | Respondent sequence number |
| PEASCST1 | Blood Pressure Status |
| PEASCTM1 | Blood Pressure Time in Seconds |
| PEASCCT1 | Blood Pressure Comment |
| BPXCHR | 60 sec HR (30 sec HR * 2) |
| BPQ150A | Had food in the past 30 minutes? |
| BPQ150B | Had alcohol in the past 30 minutes? |
| BPQ150C | Had coffee in the past 30 minutes? |
| BPQ150D | Had cigarettes in the past 30 minutes? |
| BPAARM | Arm selected: |
| BPACSZ | Coded cuff size |
| BPXPLS | 60 sec. pulse (30 sec. pulse * 2): |
| BPXPULS | Pulse regular or irregular? |
| BPXPTY | Pulse type: |
| BPXML1 | MIL: maximum inflation levels (mm Hg) |
| BPXSY1 | Systolic: Blood pres (1st rdg) mm Hg |
| BPXDI1 | Diastolic: Blood pres (1st rdg) mm Hg |
| BPAEN1 | Enhancement used first reading |
| BPXSY2 | Systolic: Blood pres (2nd rdg) mm Hg |
| BPXDI2 | Diastolic: Blood pres (2nd rdg) mm Hg |
| BPAEN2 | Enhancement used second reading |
| BPXSY3 | Systolic: Blood pres (3rd rdg) mm Hg |
| BPXDI3 | Diastolic: Blood pres (3rd rdg) mm Hg |
| BPAEN3 | Enhancement used third reading |
| BPXSY4 | Systolic: Blood pres (4th rdg) mm Hg |
| BPXDI4 | Diastolic: Blood pres (4th rdg) mm Hg |
| BPAEN4 | Enhancement used fourth reading |

Body Measurements (BMX_E)

Data File: [BMX_E.xpt](#)

| Item Label | SAS Label |
|------------|-------------------------------------|
| SEQN | Respondent sequence number |
| BMDSTATS | Body Measures Component Status Code |
| BMXWT | Weight (kg) |
| BMIWT | Weight Comment |
| BMXRECUM | Recumbent Length (cm) |
| BMIRECUM | Recumbent Length Comment |
| BMXHEAD | Head Circumference (cm) |
| BMIHEAD | Head Circumference Comment |
| BMXHT | Standing Height (cm) |
| BMIHT | Standing Height Comment |
| BMXBMI | Body Mass Index (kg/m**2) |
| BMXLEG | Upper Leg Length (cm) |
| BMILEG | Upper Leg Length Comment |
| BMXARML | Upper Arm Length (cm) |
| BMIARML | Upper Arm Length Comment |
| BMXARMC | Arm Circumference (cm) |
| BMIARMC | Arm Circumference Comment |
| BMXWAIST | Waist Circumference (cm) |
| BMIWAIST | Waist Circumference Comment |
| BMXTRI | Triceps Skinfold (mm) |
| BMITRI | Triceps Skinfold Comment |
| BMXSUB | Subscapular Skinfold (mm) |
| BMISUB | Subscapular Skinfold Comment |

Dual Energy X-ray Absorptiometry - Femur (DXXFEM_E)

Data File: [DXXFEM_E.xpt](#)

| Item Label | SAS Label |
|------------|---------------------------------|
| SEQN | Respondent sequence number |
| DXAFMRST | Femur scan status |
| DXXFMBCC | Total femur BMD invalidity code |
| DXXOFBMD | Total femur BMD |
| DXXOFBMC | Total femur BMC |
| DXXOFA | Total femur area |
| | |

| | |
|----------|-------------------------|
| DXXNKBMD | Femoral neck BMD |
| DXXNKBMC | Femoral neck BMC |
| DXXNKA | Femoral neck area |
| DXXTRBMD | Trochanter BMD |
| DXXTRBMC | Trochanter BMC |
| DXXTRA | Trochanter area |
| DXXINBMD | Intertrochanter BMD |
| DXXINBMC | Intertrochanter BMC |
| DXXINA | Intertrochanter area |
| DXXWDBMD | Ward's triangle BMD |
| DXXWDBMC | Ward's triangle BMC |
| DXXWDA | Ward's triangle area |
| DXAFMRK | Calculated K for femur |
| DXAFMRD0 | Calculated DO for femur |

Ophthalmology - Frequency Doubling Technology (OPXFDT_E)

Data File: [OPXFDT_E.xpt](#)

| Item Label | SAS Label |
|------------|--|
| SEQN | Respondent sequence number |
| OPASCST1 | FDT Exam Status |
| OPASCCT1 | FDT Exam Status Comment |
| VIQ110 | SP has severe eye infection? |
| VIQ121 | If so, which eye? |
| VIQ130 | SP wearing eye patch |
| OPDODFDT | Final FDT Right Eye Status |
| OPDOSFDT | Final FDT Left Eye Status |
| OPX10DBS | Response to BS stimulus - Right - Test 1 |
| OPX10DFP | Response to FP stimulus - Right - Test 1 |
| OPX10DTN | No fixation per Tech - Right - Test 1 |
| OPX10D02 | CT result - Right - Test 1 |
| OPX10D03 | T6 results - Right - Test 1 |
| OPX10D04 | T2 results - Right - Test 1 |
| OPX10D05 | T5 results - Right - Test 1 |
| OPX10D06 | T1 results - Right - Test 1 |
| OPX10D07 | N2 results - Right - Test 1 |
| OPX10D08 | N6 results - Right - Test 1 |

| | |
|----------|--|
| OPX10D09 | N1 results - Right - Test 1 |
| OPX10D10 | N5 results - Right - Test 1 |
| OPX10D11 | N3 results - Right - Test 1 |
| OPX10D12 | N7 results - Right - Test 1 |
| OPX10D13 | N4 results - Right - Test 1 |
| OPX10D14 | N8 results - Right - Test 1 |
| OPX10D15 | T7 results - Right - Test 1 |
| OPX10D16 | T3 results - Right - Test 1 |
| OPX10D17 | T8 results - Right - Test 1 |
| OPX10D18 | T4 results - Right - Test 1 |
| OPX10D19 | NS results - Right - Test 1 |
| OPX10D20 | NI results - Right - Test 1 |
| OPX10SBS | Response to BS stimulus - Left - Test 1 |
| OPX10SFP | Response to FP stimulus - Left - Test 1 |
| OPX10STN | No fixation per Tech - Left - Test 1 |
| OPX10S00 | NS result - Left - Test 1 |
| OPX10S01 | NI results - Left - Test 1 |
| OPX10S02 | CT results - Left - Test 1 |
| OPX10S03 | N2 results - Left - Test 1 |
| OPX10S04 | N6 results - Left - Test 1 |
| OPX10S05 | N1 results - Left - Test 1 |
| OPX10S06 | N5 results - Left - Test 1 |
| OPX10S07 | T6 results - Left - Test 1 |
| OPX10S08 | T2 results - Left - Test 1 |
| OPX10S09 | T5 results - Left - Test 1 |
| OPX10S10 | T1 results - Left - Test 1 |
| OPX10S11 | T7 results - Left - Test 1 |
| OPX10S12 | T3 results - Left - Test 1 |
| OPX10S13 | T8 results - Left - Test 1 |
| OPX10S14 | T4 results - Left - Test 1 |
| OPX10S15 | N3 results - Left - Test 1 |
| OPX10S16 | N7 results - Left - Test 1 |
| OPX10S17 | N4 results - Left - Test 1 |
| OPX10S18 | N8 results - Left - Test 1 |
| OPX20DBS | Response to BS stimulus - Right - Test 2 |
| OPX20DFP | Response to FP stimulus - Right - Test 2 |
| OPX20DTN | No fixation per Tech - Right - Test 2 |
| | |

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|----------|---|
| OPX20D02 | CT result - Right - Test 2 |
| OPX20D03 | T6 results - Right - Test 2 |
| OPX20D04 | T2 results - Right - Test 2 |
| OPX20D05 | T5 results - Right - Test 2 |
| OPX20D06 | T1 results - Right - Test 2 |
| OPX20D07 | N2 results - Right - Test 2 |
| OPX20D08 | N6 results - Right - Test 2 |
| OPX20D09 | N1 results - Right - Test 2 |
| OPX20D10 | N5 results - Right - Test 2 |
| OPX20D11 | N3 results - Right - Test 2 |
| OPX20D12 | N7 results - Right - Test 2 |
| OPX20D13 | N4 results - Right - Test 2 |
| OPX20D14 | N8 results - Right - Test 2 |
| OPX20D15 | T7 results - Right - Test 2 |
| OPX20D16 | T3 results - Right - Test 2 |
| OPX20D17 | T8 results - Right - Test 2 |
| OPX20D18 | T4 results - Right - Test 2 |
| OPX20D19 | NS results - Right - Test 2 |
| OPX20D20 | NI results - Right - Test 2 |
| OPX20SBS | Response to BS stimulus - Left - Test 2 |
| OPX20SFP | Response to FP stimulus - Left - Test 2 |
| OPX20STN | No fixation per Tech - Left - Test 2 |
| OPX20S00 | NS result - Left - Test 2 |
| OPX20S01 | NI results - Left - Test 2 |
| OPX20S02 | CT results - Left - Test 2 |
| OPX20S03 | N2 results - Left - Test 2 |
| OPX20S04 | N6 results - Left - Test 2 |
| OPX20S05 | N1 results - Left - Test 2 |
| OPX20S06 | N5 results - Left - Test 2 |
| OPX20S07 | T6 results - Left - Test 2 |
| OPX20S08 | T2 results - Left - Test 2 |
| OPX20S09 | T5 results - Left - Test 2 |
| OPX20S10 | T1 results - Left - Test 2 |
| OPX20S11 | T7 results - Left - Test 2 |
| OPX20S12 | T3 results - Left - Test 2 |
| OPX20S13 | T8 results - Left - Test 2 |
| OPX20S14 | T4 results - Left - Test 2 |
| | |

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|----------|----------------------------|
| OPX2OS15 | N3 results - Left - Test 2 |
| OPX2OS16 | N7 results - Left - Test 2 |
| OPX2OS17 | N4 results - Left - Test 2 |
| OPX2OS18 | N8 results - Left - Test 2 |

Ophthalmology - Retinal Imaging (OPXRET_E)

Data File: [OPXRET_E.xpt](#)

| Item Label | SAS Label |
|------------|--|
| SEQN | Respondent sequence number |
| OPASCST2 | Exam status |
| OPASCCT2 | Reason for not done/partial |
| VIQ110 | SP has severe eye infection? |
| VIQ121 | If so, which eye? |
| VIQ130 | SP wearing eye patch |
| OPXDCOMP | Are field 1 & field 2 present, right eye |
| OPXDF1 | Field 1 Present, Right Eye |
| OPXDF1FO | Field 1 Focus, Right Eye |
| OPXDF2 | Field 2 Present, Right Eye |
| OPXDF2FO | Field 2 Focus, Right Eye |
| OPXDGRBL | Gradability of images, Right Eye |
| OPXDPMML | Pupil Size, Right Eye |
| OPXDPHPR | Photo Problems, Right Eye |
| OPXDPHIL | Photo Prob - Illumination, Right Eye |
| OPXDPHFD | Photo Prob - Field Definition, Right Eye |
| OPXDPHHZ | Photo Prob - Haze, Right Eye |
| OPXDPHDD | Photo Prob - Dust/Dirt, Right Eye |
| OPXDPHLA | Photo Prob - Lashes, Right Eye |
| OPXDPHAR | Photo Prob - Arc, Right Eye |
| OPXDPHRC | Photo Prob - Red Channel, Right Eye |
| OPXDPHOT | Photo Prob - Other, Right Eye |
| OPDURET | Retinopathy level, worse eye |
| OPDURL4 | 4 levels retinopathy severity, worse eye |
| OPDUARMA | Any retinopathy, worse eye |
| OPDUHMA | MAS, HEM, worse eye |
| OPDUMA | Retinal microaneurysms, worse eye |
| OPDUHEM | Retinal blot hemorrhages, worse eye |

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|----------|--|
| OPDUHE | Retinal hard exudate, worse eye |
| OPDUSE | Retinal soft exudate, worse eye |
| OPDUIRMA | IRMA, worse eye |
| OPDUVB | Retinal venous beading, worse eye |
| OPDUNVO | Retinal new vessels on disc, worse eye |
| OPDUNVE | Retinal new vessels elsewhere, worse eye |
| OPDURFP | Retinal fibrous proliferation, worse eye |
| OPDUPHVH | Pre-ret./ vitreous hemorrhage, worse eye |
| OPDUME | Macular edema, worse eye |
| OPDUMEC | Macular edema in center, worse eye |
| OPDUPPS | Panret. photocoagulation scar, worse eye |
| OPDUFOC | Focal photocoag. scars for ME, worse eye |
| OPDUARM | ARM, 3 severity levels, worse eye |
| OPDUPIGA | Ret. & pigmentary abnorm., worse eye |
| OPDULARM | Late ARM, worse eye |
| OPDUGA | Geographic atrophy, worse eye |
| OPDUEXU | Exudative ARM, worse eye |
| OPDUHD | Hard distinct drusen, worse eye |
| OPDUD125 | Drusen \geq 125 microns, worse eye |
| OPDUD500 | Drusen \geq 500 microns, worse eye |
| OPDUASD | Any soft drusen, worse eye |
| OPDUSDD | Soft distinct drusen, worse eye |
| OPDUSID | Soft indistinct drusen, worse eye |
| OPDUIRP | Increased retinal pigment, worse eye |
| OPDURPE | RPE depigmentation, worse eye |
| OPDUAGA | Any geographic atrophy, worse eye |
| OPDUPED | RPE/sensory ret. detachment, worse eye |
| OPDUSNV | Subretinal new vessels, worse eye |
| OPDUSUBH | Subretinal hemorrhage, worse eye |
| OPDUSFS | Subretinal fibrous scar, worse eye |
| OPDUARMX | Treatment for ARM, worse eye |
| OPDUBCO | Retinal artery occlusion, worse eye |
| OPDUBVO | Retinal branch vein occlusion, worse eye |
| OPDUCVO | Ret. central vein occlusion, worse eye |
| OPDUAVN | Retinal AV nicking, worse eye |
| OPDUFAN | Focal arteriolar narrowing, worse eye |
| OPDUHOLL | Hollenhorst plaque, worse eye |
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| OPDUPPA | Peripapillary atrophy, worse eye |
| OPDUASHY | Asteroid Hyalosis, worse eye |
| OPDUCHRA | Chorioretinal abnormality, worse eye |
| OPDUMACH | Macular hole, worse eye |
| OPDUCHN | Choroidal nevus, worse eye |
| OPDUOTRX | Any other treatment, worse eye |
| OPDUPOHS | Histoplasmosis syndrome, worse eye |
| OPDURDET | Retinal detachment, worse eye |
| OPDUSWR | SW, cellophane changes, worse eye |
| OPDUSWRT | SW, traction changes, worse eye |
| OPDUOTHC | Other ocular conditions, worse eye |
| OPDDRET | Retinopathy level, right eye. |
| OPDDRL4 | 4 levels retinopathy severity, right eye |
| OPDDARMA | Any retinopathy, right eye |
| OPDDHMA | MAS, HEM, right eye |
| OPDDMA | Retinal microaneurysms, right eye |
| OPDDHEM | Retinal blot hemorrhages, right eye |
| OPDDHE | Retinal hard exudate, right eye |
| OPDDSE | Retinal soft exudate, right eye |
| OPDDIRMA | IRMA, right eye |
| OPDDVB | Retinal venous beading, right eye |
| OPDDNVO | Retinal new vessels on disc, right eye |
| OPDDNVE | Retinal new vessels elsewhere, right eye |
| OPDDRFP | Retinal fibrous proliferation, right eye |
| OPDDPHVH | Pre-ret./ vitreous hemorrhage, right eye |
| OPDDME | Macular edema, right eye |
| OPDDMEC | Macular edema in center, right eye |
| OPDDPPS | Panret. photocoagulation scar, right eye |
| OPDDFOC | Focal photocoag. scars for ME, right eye |
| OPDDARM | ARM, 3 severity levels, right eye |
| OPDDPIGA | Ret. & pigmentary abnorm., right eye |
| OPDDLARM | Late ARM, right eye |
| OPDDGA | Geographic atrophy, right eye |
| OPDDEXU | Exudative ARM, right eye |
| OPDDAREX | Excluded for ARM, right eye |
| OPDDREA | Reason for ARM exclusion, right eye |
| OPDDHD | Hard distinct drusen, right eye |
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|----------|--|
| OPDDD125 | Drusen>=125 microns, right eye |
| OPDDD500 | Drusen>=500 microns, right eye |
| OPDDASD | Any soft drusen, right eye |
| OPDDSDD | Soft distinct drusen, right eye |
| OPDDSID | Soft indistinct drusen, right eye |
| OPDDIRP | Increased retinal pigment, right eye |
| OPDDRPE | RPE depigmentation, right eye |
| OPDDAGA | Any geographic atrophy, right eye |
| OPDDPED | RPE/sensory ret. detachment, right eye |
| OPDDSNV | Subretinal new vessels, right eye |
| OPDDSUBH | Subretinal hemorrhage, right eye |
| OPDDSFS | Subretinal fibrous scar, right eye |
| OPDDARMX | Treatment for ARM, right eye |
| OPDDBCO | Retinal artery occlusion, right eye |
| OPddbvo | Retinal branch vein occlusion, right eye |
| OPDDCVO | Ret. central vein occlusion, right eye |
| OPDDAVN | Retinal AV nicking, right eye |
| OPDDFAN | Focal arteriolar narrowing, right eye |
| OPDDHOLL | Hollenhorst plaque, right eye |
| OPDDPPA | Peripapillary atrophy, right eye |
| OPDDASHY | Asteroid Hyalosis, right eye |
| OPDDCHRA | Chorioretinal abnormality, right eye |
| OPDDMACH | Macular hole, right eye |
| OPDDCHN | Choroidal nevus, right eye |
| OPDDOTRX | Any other treatment, right eye |
| OPDDPOHS | Histoplasmosis syndrome, right eye |
| OPDDRDET | Retinal detachment, right eye |
| OPDDSWR | SW, cellophane changes, right eye |
| OPDDSWRT | SW, traction changes, right eye |
| OPDDOTHC | Other ocular conditions, right eye |
| OPDDVCDR | Vertical cup disc ratio, right eye |
| OPXSCOMP | Are field 1 & field 2 present, left eye |
| OPXSF1 | Field 1 Present, Left Eye |
| OPXSF1FO | Field 1 Focus, Left Eye |
| OPXSF2 | Field 2 Present, Left Eye |
| OPXSF2FO | Field 2 Focus, Left Eye |
| OPXSGRBL | Gradability of images, Left Eye |
| | |

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|----------|---|
| OPXSPMM | Pupil Size, Left Eye |
| OPXSPHPR | Photo Problems, Left Eye |
| OPXSPHIL | Photo Prob - Illumination, Left Eye |
| OPXSPHFD | Photo Prob - Field Definition, Left Eye |
| OPXSPHHZ | Photo Prob - Haze, Left Eye |
| OPXSPHDD | Photo Prob - Dust/Dirt, Left Eye |
| OPXSPHLA | Photo Prob - Lashes, Left Eye |
| OPXSPHAR | Photo Prob - Arc, Left Eye |
| OPXSPHRC | Photo Prob - Red Channel, Left Eye |
| OPXSPHOT | Photo Prob - Other, Left Eye |
| OPDSRET | Retinopathy level, left eye. |
| OPDSRL4 | 4 levels retinopathy severity, left eye |
| OPDSARMA | Any retinopathy, left eye |
| OPDSHMA | MAS, HEM, left eye |
| OPDSMA | Retinal microaneurysms, left eye |
| OPDSHEM | Retinal blot hemorrhages, left eye |
| OPDSHE | Retinal hard exudate, left eye |
| OPDSSE | Retinal soft exudate, left eye |
| OPDSIRMA | IRMA, left eye |
| OPDSVB | Retinal venous beading, left eye |
| OPDSNVO | Retinal new vessels on disc, left eye |
| OPDSNVE | Retinal new vessels elsewhere, left eye |
| OPDSRFP | Retinal fibrous proliferation, left eye |
| OPDSPHVH | Pre-ret./ vitreous hemorrhage, left eye |
| OPDSME | Macular edema, left eye |
| OPDSMEC | Macular edema in center, left eye |
| OPDSPPS | Panret. photocoagulation scar, left eye |
| OPDSFOC | Focal photocoag. scars for ME, left eye |
| OPDSARM | ARM, 3 severity levels, left eye |
| OPDSPIGA | Ret. & pigmentary abnorm., left eye |
| OPDSLARM | Late ARM, left eye |
| OPDSGA | Geographic atrophy, left eye |
| OPDSEXU | Exudative ARM, left eye |
| OPDSAREX | Excluded for ARM, left eye |
| OPDSREA | Reason for ARM exclusion, left eye |
| OPDSHD | Hard distinct drusen, left eye |
| OPDSD125 | Drusen >=125 microns, left eye |
| | |

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|----------|---|
| OPDSD500 | Drusen ≥ 500 microns, left eye |
| OPDSASD | Any soft drusen, left eye |
| OPDSSDD | Soft distinct drusen, left eye |
| OPDSSID | Soft indistinct drusen, left eye |
| OPDSIRP | Increased retinal pigment, left eye |
| OPDSRPE | RPE depigmentation, left eye |
| OPDSAGA | Any geographic atrophy, left eye |
| OPDSPED | RPE/sensory ret. detachment, left eye |
| OPDSSNV | Subretinal new vessels, left eye |
| OPDSSUBH | Subretinal hemorrhage, left eye |
| OPDSSFS | Subretinal fibrous scar, left eye |
| OPDSARMX | Treatment for ARM, left eye |
| OPDSBCO | Retinal artery occlusion, left eye |
| OPDSBVO | Retinal branch vein occlusion, left eye |
| OPDSCVO | Ret. central vein occlusion, left eye |
| OPDSAVN | Retinal AV nicking, left eye |
| OPDSFAN | Focal arteriolar narrowing, left eye |
| OPDSHOLL | Hollenhorst plaque, left eye |
| OPDSPPA | Peripapillary atrophy, left eye |
| OPDSASHY | Asteroid Hyalosis, left eye |
| OPDSCHRA | Chorioretinal abnormality, left eye |
| OPDSMACH | Macular hole, left eye |
| OPDSCHN | Choroidal nevus, left eye |
| OPDSOTRX | Any other treatment, left eye |
| OPDSPOHS | Histoplasmosis syndrome, left eye |
| OPDSRDET | Retinal detachment, left eye |
| OPDSSWR | SW, cellophane changes, left eye |
| OPDSSWRT | SW, traction changes, left eye |
| OPDSOTHC | Other ocular conditions, left eye |
| OPDSVCDR | Vertical cup disc ratio, left eye |

Oral Health (OHX_E)

Data File: [OHX_E.xpt](#)

| Item Label | SAS Label |
|------------|---------------------------------|
| SEQN | Respondent sequence number |
| OHAEXSTS | Overall Oral Health Exam Status |

| | |
|----------|----------------------------|
| OHX08HTC | Tooth count: #8 |
| OHX07HTC | Tooth count: #7 |
| OHX06HTC | Tooth count: #6 |
| OHX05HTC | Tooth count: #5 |
| OHX04HTC | Tooth count: #4 |
| OHX03HTC | Tooth count: #3 |
| OHX02HTC | Tooth count: #2 |
| OHX01HTC | Tooth count: #1 |
| OHX09HTC | Tooth count: #9 |
| OHX10HTC | Tooth count: #10 |
| OHX11HTC | Tooth count: #11 |
| OHX12HTC | Tooth count: #12 |
| OHX13HTC | Tooth count: #13 |
| OHX14HTC | Tooth count: #14 |
| OHX15HTC | Tooth count: #15 |
| OHX16HTC | Tooth count: #16 |
| OHX24HTC | Tooth count: #24 |
| OHX23HTC | Tooth count: #23 |
| OHX22HTC | Tooth count: #22 |
| OHX21HTC | Tooth count: #21 |
| OHX20HTC | Tooth count: #20 |
| OHX19HTC | Tooth count: #19 |
| OHX18HTC | Tooth count: #18 |
| OHX17HTC | Tooth count: #17 |
| OHX25HTC | Tooth count: #25 |
| OHX26HTC | Tooth count: #26 |
| OHX27HTC | Tooth count: #27 |
| OHX28HTC | Tooth count: #28 |
| OHX29HTC | Tooth count: #29 |
| OHX30HTC | Tooth count: #30 |
| OHX31HTC | Tooth count: #31 |
| OHX32HTC | Tooth count: #32 |
| OHXDECAY | Dental decay present |
| OHXREST | Dental restoration present |
| OHXSEAL | Dental sealant present |
| OHXFCRZ1 | Right - Zone 1 |
| OHXFCRZ2 | Right - Zone 2 |
| | |

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|----------|--|
| OHXFCRZ3 | Right - Zone 3 |
| OHXFCRZ4 | Right - Zone 4 |
| OHXFCRZ5 | Right - Zone 5 |
| OHXFCRZ6 | Right - Zone 6 |
| OHXFCRZ7 | Right - Zone 7 |
| OHXFCRZ8 | Right - Zone 8 |
| OHXFCLZ1 | Left - Zone 1 |
| OHXFCLZ2 | Left - Zone 2 |
| OHXFCLZ3 | Left - Zone 3 |
| OHXFCLZ4 | Left - Zone 4 |
| OHXFCLZ5 | Left - Zone 5 |
| OHXFCLZ6 | Left - Zone 6 |
| OHXFCLZ7 | Left - Zone 7 |
| OHXFCLZ8 | Left - Zone 8 |
| OHXFCANT | Anterior Zone: |
| OHQ410 | Removable complete/partial max denture |
| OHQ420 | Wears complete/partial max denture |
| OHQ430 | Removable complete/partial mand. denture |
| OHQ440 | Wears complete/partial Mand. denture |
| OHAPOS | Was participant exam position recumbent |

Vision (VIX_E)

Data File: [VIX_E.xpt](#)

| Item Label | SAS Label |
|------------|--|
| SEQN | Respondent sequence number |
| VIQ110 | SP has a severe eye infection? |
| VIQ121 | Which eye(s) infected? |
| VIQ130 | Is SP wearing an eye patch? |
| VIQ141 | Which eye has eye patch? |
| VIQ150 | Glasses/contact lenses for near work? |
| VIQ160 | Glasses/contact lenses available? |
| VIQ170 | Glasses or contacts worn for near test? |
| VIXNC1 | Line read on near card |
| VIXNC2 | Testing distance of near card |
| VIQ180 | Eye surgery for near sightedness? |
| VIQ191 | Which eye(s) surgery - near-sightedness? |

| | |
|---------|--|
| VIQ200 | Eye surgery for cataracts? |
| VIQ211 | Which eye(s) cataract surgery? |
| VIQ220 | Glasses/contact lenses worn for distance |
| VIQ230 | Is distance correction available? |
| VIQ240 | Which type? Glasses or contacts? |
| VIQ250 | Was prescription obtained? |
| VIXPRS | Prescription, right sphere |
| VIXPRC | Prescription, right cylinder |
| VIXPRA | Prescription, right axis |
| VIXPLS | Prescription, left sphere |
| VIXPLC | Prescription, left cylinder |
| VIXPLA | Prescription, left axis |
| VIXOCMT | Visual Acuity Comments |
| VIXORSM | OR right sphere, median |
| VIXORCM | OR right cylinder, median |
| VIXORAM | OR right axis, median |
| VIDORFM | OR right confidence level reading |
| VIXOLSM | OR left sphere, median |
| VIXOLCM | OR left cylinder, median |
| VIXOLAM | OR left axis, median |
| VIDOLFM | OR left confidence level reading |
| VIXKRM1 | Right keratometry radius flat curve (mm) |
| VIXKRD1 | Right keratometry power flat curve (D) |
| VIXKRG1 | Right keratometry axis flat curve (deg) |
| VIXKRM2 | Right keratometry radius steep curve(mm) |
| VIXKRD2 | Right keratometry power steep curve (D) |
| VIXKRG2 | Right keratometry axis steep curve (deg) |
| VIXKRMM | Right keratometry radius, average (mm) |
| VIXKRDM | Right keratometry power, average (D) |
| VIXKRCD | Right keratometry cylinder |
| VIXKRCG | Right keratometry axis (deg) |
| VIXKLM1 | Left keratometry radius flat curve (mm) |
| VIXKLD1 | Left keratometry power flat curve (D) |
| VIXKLG1 | Left keratometry axis flat curve (deg) |
| VIXKLM2 | Left keratometry radius steep curve (mm) |
| VIXKLD2 | Left keratometry power steep curve (D) |
| VIXKLG2 | Left keratometry axis steep curve (deg) |
| | |

| | |
|---------|---|
| VIXKLMM | Left keratometry radius, average (mm) |
| VIXKLDM | Left keratometry power, average (D) |
| VIXKLCD | Left keratometry cylinder |
| VIXKLCG | Left keratometry axis (deg) |
| VIDRVA | Right visual acuity, presenting |
| VIDLVA | Left visual acuity, presenting |
| VIDROVA | Right visual acuity, w/ obj. refraction |
| VIDLOVA | Left visual acuity, w/ obj. refraction |