



Urinary Metal Study

Data Dictionary

**THE NATIONAL HEART, LUNG, AND BLOOD INSTITUTE OF
THE NATIONAL INSTITUTES OF HEALTH**

Table of Contents

To view more information about each variable, click either the variable name or label. Urinary metal data was measured in the following:

- Original Cohort SHS Phase I: All eligible participants
- Original Cohort SHS Phase II: Subset of participants (~300)
- Original Cohort SHS Phase III: Subset of participants (~300)
- Family Cohort SHS Phase IV: Eligible non-diabetic participants

Phase I Urinary Metals

VARIABLE	LABEL
IDNO	SHS I.D.
S1AS	SHS1 Arsenic (µg/L)
S1CD	SHS1 Cadmium (µg/L)
S1MO	SHS1 Molybdenum (µg/L)
S1PB	SHS1 Lead (µg/L)
S1SB	SHS1 Antimony (µg/L)
S1SE	SHS1 Selenium (µg/L)
S1W	SHS1 Tungsten (µg/L)
S1ZN	SHS1 Zinc (µg/L)
S1AB_KATIONS	SHS1 Arsenobetaine (µg/L)
S1DMA_OX	SHS1 Dimethylarsinate (µg/L)
S1MA_OX	SHS1 Methylarsonate (µg/L)
S1ASVASIII_OX	SHS1 Inorganic Arsenic (µg/L)
S1SUM_IAS	SHS1 Sum Inorganic & Metholated AS (µg/L)
S1AS_CR	SHS1 Arsenic (µg/g Creatinine)
S1CD_CR	SHS1 Cadmium (µg/g Creatinine)
S1MO_CR	SHS1 Molybdenum (µg/g Creatinine)
S1PB_CR	SHS1 Lead (µg/g Creatinine)
S1SB_CR	SHS1 Antimony (µg/g Creatinine)
S1SE_CR	SHS1 Selenium (µg/g Creatinine)
S1W_CR	SHS1 Tungsten (µg/g Creatinine)
S1ZN_CR	SHS1 Zinc (µg/g Creatinine)
S1AB_KATIONS_CR	SHS1 Arsenobetaine (µg/g Creatinine)
S1DMA_OX_CR	SHS1 Dimethylarsinate (µg/g Creatinine)

Error! Reference source not found.

VARIABLE	LABEL
S1MA_OX_CR	SHS1 Methylarsonate ($\mu\text{g/g}$ Creatinine)
S1ASVASIII_OX_CR	SHS1 Inorganic Arsenic ($\mu\text{g/g}$ Creatinine)
S1SUM_IAS_CR	SHS1 Inorganic & Metholated AS ($\mu\text{g/g}$ Creatinine)
S1PCT_ASVASIII_OX_IAS	SHS1 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)
S1PCT_DMA_OX_IAS	SHS1 Percent Dimethylarsinate of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)
S1PCT_MA_OX_IAS	SHS1 Percent Methylarsonate of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)
S1PCT_AB_KATIONS_IAS	SHS1 Percent Arsenobetaine of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)
S1SGRAVITY CENTER	SHS1 Specific Gravity SHS Site

Phase II Urinary Metals

VARIABLE	LABEL
IDNO	SHS I.D.
S2AS	SHS2 Arsenic (µg/L)
S2CD	SHS2 Cadmium (µg/L)
S2MO	SHS2 Molybdenum (µg/L)
S2PB	SHS2 Lead (µg/L)
S2SB	SHS2 Antimony (µg/L)
S2SE	SHS2 Selenium (µg/L)
S2W	SHS2 Tungsten (µg/L)
S2ZN	SHS2 Zinc (µg/L)
S2AB_KATIONS	SHS2 Arsenobetaine (µg/L)
S2DMA_OX	SHS2 Dimethylarsinate (µg/L)
S2MA_OX	SHS2 Methylarsonate (µg/L)
S2ASVASIII_OX	SHS2 Inorganic Arsenic (µg/L)
S2SUM_IAS	SHS2 Sum Inorganic & Metholated AS (µg/L)
S2AS_CR	SHS2 Arsenic (µg/g Creatinine)
S2CD_CR	SHS2 Cadmium (µg/g Creatinine)
S2MO_CR	SHS2 Molybdenum (µg/g Creatinine)
S2PB_CR	SHS2 Lead (µg/g Creatinine)
S2SB_CR	SHS2 Antimony (µg/g Creatinine)
S2SE_CR	SHS2 Selenium (µg/g Creatinine)
S2W_CR	SHS2 Tungsten (µg/g Creatinine)
S2ZN_CR	SHS2 Zinc (µg/g Creatinine)
S2AB_KATIONS_CR	SHS2 Arsenobetaine (µg/g Creatinine)
S2DMA_OX_CR	SHS2 Dimethylarsinate (µg/g Creatinine)
S2MA_OX_CR	SHS2 Methylarsonate (µg/g Creatinine)
S2ASVASIII_OX_CR	SHS2 Inorganic Arsenic (µg/gCreatinine)
S2SUM_IAS_CR	SHS2 Inorganic & Metholated AS (µg/g Creatinine)
S2PCT_ASVASIII_OX_IAS	SHS2 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS (µg/L)
S2PCT_DMA_OX_IAS	SHS2 Percent Dimethylarsinate of Sum Inorganic & Metholated AS (µg/L)
S2PCT_MA_OX_IAS	SHS2 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)
S2PCT_AB_KATIONS_IAS	SHS2 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)
S2SGRAVITY	SHS2 Specific Gravity
CENTER	SHS Site

Phase III Urinary Metals

VARIABLE	LABEL
IDNO	SHS I.D.
S3AS	SHS3 Arsenic (µg/L)
S3CD	SHS3 Cadmium (µg/L)
S3MO	SHS3 Molybdenum (µg/L)
S3PB	SHS3 Lead (µg/L)
S3SB	SHS3 Antimony (µg/L)
S3SE	SHS3 Selenium (µg/L)
S3W	SHS3 Tungsten (µg/L)
S3ZN	SHS3 Zinc (µg/L)
S3AB_KATIONS	SHS3 Arsenobetaine (µg/L)
S3DMA_OX	SHS3 Dimethylarsinate (µg/L)
S3MA_OX	SHS3 Methylarsonate (µg/L)
S3ASVASIII_OX	SHS3 Inorganic Arsenic (µg/L)
S3SUM_IAS	SHS3 Sum Inorganic & Metholated AS (µg/L)
S3AS_CR	SHS3 Arsenic (µg/g Creatinine)
S3CD_CR	SHS3 Cadmium (µg/g Creatinine)
S3MO_CR	SHS3 Molybdenum (µg/g Creatinine)
S3PB_CR	SHS3 Lead (µg/g Creatinine)
S3SB_CR	SHS3 Antimony (µg/g Creatinine)
S3SE_CR	SHS3 Selenium (µg/g Creatinine)
S3W_CR	SHS3 Tungsten (µg/g Creatinine)
S3ZN_CR	SHS3 Zinc (µg/g Creatinine)
S3AB_KATIONS_CR	SHS3 Arsenobetaine (µg/g Creatinine)
S3DMA_OX_CR	SHS3 Dimethylarsinate (µg/g Creatinine)
S3MA_OX_CR	SHS3 Methylarsonate (µg/g Creatinine)
S3ASVASIII_OX_CR	SHS3 Inorganic Arsenic (µg/g Creatinine)
S3SUM_IAS_CR	SHS3 Inorganic & Metholated AS (µg/g Creatinine)
S3PCT_ASVASIII_OX_IAS	SHS3 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS (µg/L)
S3PCT_DMA_OX_IAS	SHS3 Percent Dimethylarsinate of Sum Inorganic & Metholated AS (µg/L)
S3PCT_MA_OX_IAS	SHS3 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)
S3PCT_AB_KATIONS_IAS	SHS3 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)
S3SGRAVITY	SHS3 Specific Gravity
CENTER	SHS Site

Phase IV Urinary Metals

VARIABLE	LABEL
IDNO	SHS I.D
S4AS	SHS4 Arsenic (µg/L)
S4CD	SHS4 Cadmium (µg/L)
S4MO	SHS4 Molybdenum (µg/L)
S4PB	SHS4 Lead (µg/L)
S4SB	SHS4 Antimony (µg/L)
S4SE	SHS4 Selenium (µg/L)
S4W	SHS4 Tungsten (µg/L)
S4ZN	SHS4 Zinc (µg/L)
S4AB_KATIONS	SHS4 Arsenobetaine (µg/L)
S4DMA_OX	SHS4 Dimethylarsinate (µg/L)
S4MA_OX	SHS4 Methylarsonate (µg/L)
S4ASVASIII_OX	SHS4 Inorganic Arsenic (µg/L)
S4SUM_IAS	SHS4 Sum Inorganic & Metholated AS (µg/L)
S4AS_CR	SHS4 Arsenic (µg/g Creatinine)
S4CD_CR	SHS4 Cadmium (µg/g Creatinine)
S4MO_CR	SHS4 Molybdenum (µg/g Creatinine)
S4PB_CR	SHS4 Lead (µg/g Creatinine)
S4SB_CR	SHS4 Antimony (µg/g Creatinine)
S4SE_CR	SHS4 Selenium (µg/g Creatinine)
S4W_CR	SHS4 Tungsten (µg/g Creatinine)
S4ZN_CR	SHS4 Zinc (µg/g Creatinine)
S4AB_KATIONS_CR	SHS4 Arsenobetaine (µg/g Creatinine)
S4DMA_OX_CR	SHS4 Dimethylarsinate (µg/g Creatinine)
S4MA_OX_CR	SHS4 Methylarsonate (µg/g Creatinine)
S4ASVASIII_OX_CR	SHS4 Inorganic Arsenic (µg/gCreatinine)
S4SUM_IAS_CR	SHS4 Inorganic & Metholated AS (µg/g Creatinine)
S4PCT_ASVASIII_OX_IAS	SHS4 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS (µg/L)
S4PCT_DMA_OX_IAS	SHS4 Percent Dimethylarsinate of Sum Inorganic & Metholated AS (µg/L)
S4PCT_MA_OX_IAS	SHS4 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)
S4PCT_AB_KATIONS_IAS	SHS4 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)
S4SGRAVITY	SHS4 Specific Gravity
CENTER	SHS Site

Phase I Urinary Metals

Variable name: IDNO
SAS label: SHS I.D.

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1AS
SAS label: SHS1 Arsenic (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1CD
SAS label: SHS1 Cadmium (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1MO
SAS label: SHS1 Molybdenum (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase I Urinary Metals

Variable name: S1PB
SAS label: SHS1 Lead (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1SB
SAS label: SHS1 Antimony (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1SE
SAS label: SHS1 Selenium (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1W
SAS label: SHS1 Tungsten (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1ZN
SAS label: SHS1 Zinc (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase I Urinary Metals

Variable name: S1AB_KATIONS
SAS label: SHS1 Arsenobetaine (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1DMA_OX
SAS label: SHS1 Dimethylarsinate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1MA_OX
SAS label: SHS1 Methylarsonate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1ASVASIII_OX
SAS label: SHS1 Inorganic Arsenic (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1SUM_IAS
SAS label: SHS1 Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase I Urinary Metals

Variable name: S1AS_CR
SAS label: SHS1 Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1CD_CR
SAS label: SHS1 Cadmium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1MO_CR
SAS label: SHS1 Molybdenum ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1PB_CR
SAS label: SHS1 Lead ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1SB_CR
SAS label: SHS1 Antimony ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase I Urinary Metals

Variable name: S1SE_CR
SAS label: SHS1 Selenium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1W_CR
SAS label: SHS1 Tungsten ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1ZN_CR
SAS label: SHS1 Zinc ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1AB_KATIONS_CR
SAS label: SHS1 Arsenobetaine ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1DMA_OX_CR
SAS label: SHS1 Dimethylarsinate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase I Urinary Metals

Variable name: S1MA_OX_CR
SAS label: SHS1 Methylarsonate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1ASVASIII_OX_CR
SAS label: SHS1 Inorganic Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1SUM_IAS_CR
SAS label: SHS1 Inorganic & Metholated AS ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1PCT_ASVASIII_OX_IAS
SAS label: SHS1 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1PCT_DMA_OX_IAS
SAS label: SHS1 Percent Dimethylarsinate of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase I Urinary Metals

Variable name: S1PCT_MA_OX_IAS
SAS label: SHS1 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1PCT_AB_KATIONS_IAS
SAS label: SHS1 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S1SGRAVITY
SAS label: SHS1 Specific Gravity

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: CENTER
SAS label: SHS Site

Code or Value	Value description	Skip to item
1	AZ	
2	OK	
3	SD	

Phase II Urinary Metals

Variable name: IDNO
SAS label: SHS I.D.

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2AS
SAS label: SHS2 Arsenic ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2CD
SAS label: SHS2 Cadmium ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2MO
SAS label: SHS2 Molybdenum ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase II Urinary Metals

Variable name: S2PB
SAS label: SHS2 Lead (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2SB
SAS label: SHS2 Antimony (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2SE
SAS label: SHS2 Selenium (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2W
SAS label: SHS2 Tungsten (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2ZN
SAS label: SHS2 Zinc (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase II Urinary Metals

Variable name: S2AB_KATIONS
SAS label: SHS2 Arsenobetaine (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2DMA_OX
SAS label: SHS2 Dimethylarsinate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2MA_OX
SAS label: SHS2 Methylarsonate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2ASVASIII_OX
SAS label: SHS2 Inorganic Arsenic (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2SUM_IAS
SAS label: SHS2 Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase II Urinary Metals

Variable name: S2AS_CR
SAS label: SHS2 Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2CD_CR
SAS label: SHS2 Cadmium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2MO_CR
SAS label: SHS2 Molybdenum ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2PB_CR
SAS label: SHS2 Lead ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2SB_CR
SAS label: SHS2 Antimony ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase II Urinary Metals

Variable name: S2SE_CR
SAS label: SHS2 Selenium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2W_CR
SAS label: SHS2 Tungsten ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2ZN_CR
SAS label: SHS2 Zinc ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2AB_KATIONS_CR
SAS label: SHS2 Arsenobetaine ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2DMA_OX_CR
SAS label: SHS2 Dimethylarsinate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase II Urinary Metals

Variable name: S2MA_OX_CR
SAS label: SHS2 Methylarsonate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2ASVASIII_OX_CR
SAS label: SHS2 Inorganic Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2SUM_IAS_CR
SAS label: SHS2 Inorganic & Metholated AS ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2PCT_ASVASIII_OX_IAS
SAS label: SHS2 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2PCT_DMA_OX_IAS
SAS label: SHS2 Percent Dimethylarsinate of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase II Urinary Metals

Variable name: S2PCT_MA_OX_IAS
SAS label: SHS2 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2PCT_AB_KATIONS_IAS
SAS label: SHS2 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S2SGRAVITY
SAS label: SHS2 Specific Gravity

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: CENTER
SAS label: SHS Site

Code or Value	Value description	Skip to item
1	AZ	
2	OK	
3	SD	

Phase III Urinary Metals

Variable name: IDNO
SAS label: SHS I.D.

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3AS
SAS label: SHS3 Arsenic ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3CD
SAS label: SHS3 Cadmium ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3MO
SAS label: SHS3 Molybdenum ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase III Urinary Metals

Variable name: S3PB
SAS label: SHS3 Lead (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3SB
SAS label: SHS3 Antimony (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3SE
SAS label: SHS3 Selenium (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3W
SAS label: SHS3 Tungsten (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3ZN
SAS label: SHS3 Zinc (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase III Urinary Metals

Variable name: S3AB_KATIONS
SAS label: SHS3 Arsenobetaine (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3DMA_OX
SAS label: SHS3 Dimethylarsinate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3MA_OX
SAS label: SHS3 Methylarsonate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3ASVASIII_OX
SAS label: SHS3 Inorganic Arsenic (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3SUM_IAS
SAS label: SHS3 Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase III Urinary Metals

Variable name: S3AS_CR
SAS label: SHS3 Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3CD_CR
SAS label: SHS3 Cadmium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3MO_CR
SAS label: SHS3 Molybdenum ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3PB_CR
SAS label: SHS3 Lead ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3SB_CR
SAS label: SHS3 Antimony ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase III Urinary Metals

Variable name: S3SE_CR
SAS label: SHS3 Selenium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3W_CR
SAS label: SHS3 Tungsten ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3ZN_CR
SAS label: SHS3 Zinc ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3AB_KATIONS_CR
SAS label: SHS3 Arsenobetaine ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3DMA_OX_CR
SAS label: SHS3 Dimethylarsinate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase III Urinary Metals

Variable name: S3MA_OX_CR
SAS label: SHS3 Methylarsonate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3ASVASIII_OX_CR
SAS label: SHS3 Inorganic Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3SUM_IAS_CR
SAS label: SHS3 Inorganic & Metholated AS ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3PCT_ASVASIII_OX_IAS
SAS label: SHS3 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3PCT_DMA_OX_IAS
SAS label: SHS3 Percent Dimethylarsinate of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase III Urinary Metals

Variable name: S3PCT_MA_OX_IAS
SAS label: SHS3 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3PCT_AB_KATIONS_IAS
SAS label: SHS3 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S3SGRAVITY
SAS label: SHS3 Specific Gravity

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: CENTER
SAS label: SHS Site

Code or Value	Value description	Skip to item
1	AZ	
2	OK	
3	SD	

Phase IV Urinary Metals

Variable name: IDNO
SAS label: SHS I.D.

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4AS
SAS label: SHS4 Arsenic ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4CD
SAS label: SHS4 Cadmium ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4MO
SAS label: SHS4 Molybdenum ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase IV Urinary Metals

Variable name: S4PB
SAS label: SHS4 Lead (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4SB
SAS label: SHS4 Antimony (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4SE
SAS label: SHS4 Selenium (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4W
SAS label: SHS4 Tungsten (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4ZN
SAS label: SHS4 Zinc (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase IV Urinary Metals

Variable name: S4AB_KATIONS
SAS label: SHS4 Arsenobetaine (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4DMA_OX
SAS label: SHS4 Dimethylarsinate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4MA_OX
SAS label: SHS4 Methylarsonate (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4ASVASIII_OX
SAS label: SHS4 Inorganic Arsenic (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4SUM_IAS
SAS label: SHS4 Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase IV Urinary Metals

Variable name: S4AS_CR
SAS label: SHS4 Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4CD_CR
SAS label: SHS4 Cadmium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4MO_CR
SAS label: SHS4 Molybdenum ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4PB_CR
SAS label: SHS4 Lead ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4SB_CR
SAS label: SHS4 Antimony ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase IV Urinary Metals

Variable name: S4SE_CR
SAS label: SHS4 Selenium ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4W_CR
SAS label: SHS4 Tungsten ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4ZN_CR
SAS label: SHS4 Zinc ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4AB_KATIONS_CR
SAS label: SHS4 Arsenobetaine ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4DMA_OX_CR
SAS label: SHS4 Dimethylarsinate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase IV Urinary Metals

Variable name: S4MA_OX_CR
SAS label: SHS4 Methylarsonate ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4ASVASIII_OX_CR
SAS label: SHS4 Inorganic Arsenic ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4SUM_IAS_CR
SAS label: SHS4 Inorganic & Metholated AS ($\mu\text{g/g}$ Creatinine)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4PCT_ASVASIII_OX_IAS
SAS label: SHS4 Percent Inorganic Arsenic of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4PCT_DMA_OX_IAS
SAS label: SHS4 Percent Dimethylarsinate of Sum Inorganic & Metholated AS ($\mu\text{g/L}$)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Phase IV Urinary Metals

Variable name: S4PCT_MA_OX_IAS
SAS label: SHS4 Percent Methylarsonate of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4PCT_AB_KATIONS_IAS
SAS label: SHS4 Percent Arsenobetaine of Sum Inorganic & Metholated AS (µg/L)

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: S4SGRAVITY
SAS label: SHS4 Specific Gravity

Code or Value	Value Description	Skip to item
Continuous value	Range of values	

Variable name: CENTER
SAS label: SHS Site

Code or Value	Value description	Skip to item
1	AZ	
2	OK	
3	SD	