

URINE TOXIC METALS



LAB#: U080513-0214-1
 PATIENT: Michael Cheikin
 SEX: Male
 AGE: 52

CLIENT#: 32029
 DOCTOR: Michael Cheikin, MD
 Wynd Moore Rehab Association
 832 Germantown Pike #3
 Plymouth Meeting, PA 19462

POTENTIALLY TOXIC METALS

METALS	RESULT µg/g CREAT	REFERENCE RANGE	WITHIN REFERENCE RANGE	ELEVATED	VERY ELEVATED
Aluminum	7.8	< 25			
Antimony	< dl	< 0.6			
Arsenic	34	< 120			
Beryllium	< dl	< 0.5			
Bismuth	< dl	< 10			
Cadmium	0.4	< 2			
Lead	15	< 5			
Mercury	6.4	< 3			
Nickel	4	< 10			
Platinum	< dl	< 1			
Thallium	0.3	< 0.7			
Thorium	< dl	< 0.3			
Tin	0.7	< 9			
Tungsten	0.06	< 0.7			
Uranium	< dl	< 0.1			

CREATININE

	RESULT mg/dL	REFERENCE RANGE	2SD LOW	1SD LOW	MEAN	1SD HIGH	2SD HIGH
Creatinine	64	45 - 225					

SPECIMEN DATA

Comments:
 Date Collected: 5/11/2008 Method: ICP-MS Collection Period: **timed: 6 hours**
 Date Received: 5/13/2008 <dl: less than detection limit Volume:
 Date Completed: 5/14/2008 Provoking Agent: DMSA Provocation: **POST PROVOCATIVE**

Toxic metals are reported as µg/g creatinine to account for urine dilution variations. **Reference ranges are representative of a healthy population under non-challenge or non-provoked conditions.** No safe reference levels for toxic metals have been established. V10.00



LAB #: U140227-2039-1
 PATIENT: Michael Cheikin
 ID: CHEIKIN-M-00001
 SEX: Male
 AGE: 58

CLIENT #: 32029
 DOCTOR: Michael Cheikin, MD
 Wynd Moore Rehab Association
 832 Germantown Pike 3
 Plymouth Meeting, PA 19462 USA

Toxic Metals; Urine

TOXIC METALS

	RESULT µg/g creat	REFERENCE INTERVAL	WITHIN REFERENCE	OUTSIDE REFERENCE
Aluminum (Al)	3.2	< 25		
Antimony (Sb)	0.2	< 0.2		
Arsenic (As)	14	< 75		
Barium (Ba)	8.2	< 7		
Beryllium (Be)	< dl	< 1		
Bismuth (Bi)	25	< 2		
Cadmium (Cd)	0.6	< 0.8		
Cesium (Cs)	11	< 9		
Gadolinium (Gd)	< dl	< 0.5		
Lead (Pb)	32	< 2		
Mercury (Hg)	23	< 3		
Nickel (Ni)	4.9	< 8		
Palladium (Pd)	< dl	< 0.1		
Platinum (Pt)	< dl	< 0.1		
Tellurium (Te)	< dl	< 0.5		
Thallium (Tl)	1.2	< 0.5		
Thorium (Th)	< dl	< 0.03		
Tin (Sn)	2.5	< 4		
Tungsten (W)	0.09	< 0.4		
Uranium (U)	< dl	< 0.03		

URINE CREATININE

	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD
Creatinine	33.2	45 - 230					

SPECIMEN DATA

Comments:
 Date Collected: 02/25/2014 pH upon receipt: **Acceptable** Collection Period: **timed: 6 hours**
 Date Received: 02/27/2014 <dl: less than detection limit Volume:
 Date Completed: 02/28/2014 Provoking Agent: DMSA Provocation: **POST PROVOCATIVE**
 Method: ICP-MS **Creatinine by Jaffe Method**

Results are creatinine corrected to account for urine dilution variations. **Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions.** Chelation (provocation) agents can increase urinary excretion of metals/elements. V13