



LAB #: U151029-2152-1
 PATIENT:
 ID:
 SEX: Male
 AGE:

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



LAB #: U151029-2100-1
 PATIENT:
 ID:
 SEX: Male
 AGE: 63

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 DOCTOR: Michael Cheikin, MD
 Wynd Moore Rehab Association
 832 Germantown Pike 3
 Plymouth Meeting, PA 19462 U.S.A.

Toxic Metals; Urine

TOXIC METALS					
		RESULT µg/g creat	REFERENCE INTERVAL	WITHIN REFERENCE	OUTSIDE REFERENCE
Aluminum (Al)		3.1	< 25		
Antimony (Sb)		< dl	< 0.2		
Arsenic (As)		19	< 75		
Barium (Ba)		9.1	< 7		
Beryllium (Be)		< dl	< 1		
Bismuth (Bi)		0.3	< 2		
Cadmium (Cd)		0.3	< 0.8		
Cesium (Cs)		5.8	< 9		
Gadolinium (Gd)		< dl	< 0.5		
Lead (Pb)		0.3	< 2		
Mercury (Hg)		1.5	< 3		
Nickel (Ni)		3.7	< 8		
Palladium (Pd)		< dl	< 0.1		
Platinum (Pt)		< dl	< 0.1		
Tellurium (Te)		< dl	< 0.5		
Thallium (Tl)		0.2	< 0.5		
Thorium (Th)		< dl	< 0.03		
Tin (Sn)		1.1	< 4		
Tungsten (W)		< dl	< 0.4		
Uranium (U)		< dl	< 0.03		

URINE CREATININE							
	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD
Creatinine	114	35- 240					

SPECIMEN DATA			
Comments:			
Date Collected: 10/26/2015	pH upon receipt: Acceptable	Collection Period: Random	
Date Received: 10/29/2015	<dl: less than detection limit	Volume:	
Date Completed: 11/02/2015	Provoking Agent:	Provocation: PRE 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			

Toxic Metals; Urine

TOXIC METALS					
		RESULT µg/g creat	REFERENCE INTERVAL	WITHIN REFERENCE	OUTSIDE REFERENCE
Aluminum (Al)		< dl	< 25		
Antimony (Sb)		< dl	< 0.2		
Arsenic (As)		17	< 75		
Barium (Ba)		8.4	< 7		
Beryllium (Be)		< dl	< 1		
Bismuth (Bi)		2.3	< 2		
Cadmium (Cd)		0.3	< 0.8		
Cesium (Cs)		7.2	< 9		
Gadolinium (Gd)		< dl	< 0.5		
Lead (Pb)		13	< 2		
Mercury (Hg)		11	< 3		
Nickel (Ni)		3.4	< 8		
Palladium (Pd)		< dl	< 0.1		
Platinum (Pt)		< dl	< 0.1		
Tellurium (Te)		< dl	< 0.5		
Thallium (Tl)		0.3	< 0.5		
Thorium (Th)		< dl	< 0.03		
Tin (Sn)		1.4	< 4		
Tungsten (W)		< dl	< 0.4		
Uranium (U)		< dl	< 0.03		

URINE CREATININE							
	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD
Creatinine	37.9	35- 240					

SPECIMEN DATA			
Comments:			
Date Collected: 10/26/2015	pH upon receipt: Acceptable	Collection Period: timed: 6 hours	
Date Received: 10/29/2015	<dl: less than detection limit	Volume:	
Date Completed: 11/02/2015	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.			
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Essential Elements; Urine

		ESSENTIAL AND OTHER ELEMENTS		PERCENTILE				
		RESULT/UNIT per creatinine	REFERENCE INTERVAL	2.5 th	16 th	50 th	84 th	97.5 th
Sodium (Na)	110	mEq/g	40 - 200					
Potassium (K)	43	mEq/g	20 - 90					
Phosphorus (P)	760	µg/mg	150 - 1000					
Calcium (Ca)	80	µg/mg	20 - 250					
Magnesium (Mg)	67	µg/mg	20 - 200					
Zinc (Zn)	1.8	µg/mg	0.09 - 1.3					
Copper (Cu)	0.016	µg/mg	0.006 - 0.06					
Sulfur (S)	720	µg/mg	275 - 1000					
Manganese (Mn)	0.0007	µg/mg	0.0003 - 0.005					
Molybdenum (Mo)	0.008	µg/mg	0.01 - 0.13					
Boron (B)	2.2	µg/mg	0.4 - 3.5					
Chromium (Cr)	0.001	µg/mg	0.0002 - 0.002					
Lithium (Li)	0.019	µg/mg	0.008 - 0.18					
Selenium (Se)	0.051	µg/mg	0.03 - 0.2					
Strontium (Sr)	0.18	µg/mg	0.035 - 0.32					
Vanadium (V)	< dl	µg/mg	0.0001 - 0.0015					
				68 th			95 th	
Cobalt (Co)	0.003	µg/mg	< 0.007					
Iron (Fe)	0.2	µg/mg	< 1					

		URINE CREATININE		PERCENTILE				
	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD	
Creatinine	114	35 - 240						

SPECIMEN DATA			
Comments:			
Date Collected: 10/26/2015	pH Upon Receipt: Acceptable	Collection Period: Random	
Date Received: 10/29/2015	<dl: less than detection limit	Volume:	
Date Completed: 11/02/2015	Provoking Agent:	Provocation: PRE PROVOCATIVE	
Method: ISE;Na, K Spectrophotometry; P ICP-MS; B, Ca, Cr, Co, Cu, Fe, Mg, Mn, Mo, Se, Sr, S, V, Zn 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			

Essential Elements; Urine

		ESSENTIAL AND OTHER ELEMENTS		PERCENTILE				
		RESULT/UNIT per creatinine	REFERENCE INTERVAL	2.5 th	16 th	50 th	84 th	97.5 th
Sodium (Na)	89	mEq/g	40 - 200					
Potassium (K)	63	mEq/g	20 - 90					
Phosphorus (P)	460	µg/mg	150 - 1000					
Calcium (Ca)	80	µg/mg	20 - 250					
Magnesium (Mg)	48	µg/mg	20 - 200					
Zinc (Zn)	3	µg/mg	0.09 - 1.3					
Copper (Cu)	0.058	µg/mg	0.006 - 0.06					
Sulfur (S)	620	µg/mg	275 - 1000					
Manganese (Mn)	0.002	µg/mg	0.0003 - 0.005					
Molybdenum (Mo)	0.008	µg/mg	0.01 - 0.13					
Boron (B)	2	µg/mg	0.4 - 3.5					
Chromium (Cr)	0.001	µg/mg	0.0002 - 0.002					
Lithium (Li)	0.015	µg/mg	0.008 - 0.18					
Selenium (Se)	0.057	µg/mg	0.03 - 0.2					
Strontium (Sr)	0.16	µg/mg	0.035 - 0.32					
Vanadium (V)	< dl	µg/mg	0.0001 - 0.0015					
				68 th			95 th	
Cobalt (Co)	0.003	µg/mg	< 0.007					
Iron (Fe)	0.25	µg/mg	< 1					

		URINE CREATININE		PERCENTILE				
	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD	
Creatinine	37.9	35 - 240						

SPECIMEN DATA			
Comments:			
Date Collected: 10/26/2015	pH Upon Receipt: Acceptable	Collection Period: timed: 6 hours	
Date Received: 10/29/2015	<dl: less than detection limit	Volume:	
Date Completed: 11/02/2015	Provoking Agent: DMSA	Provocation: POST PROVOCATIVE	
Method: ISE;Na, K Spectrophotometry; P ICP-MS; B, Ca, Cr, Co, Cu, Fe, Mg, Mn, Mo, Se, Sr, S, V, Zn 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.			
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