



PATIENT: Number 775
 SEX: Male
 AGE: 41

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	0.7	< 7.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.019	< 0.080	
Barium (Ba)	0.05	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.003	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.34	< 0.80	
Mercury (Hg)	0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.12	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.02	< 0.30	
Titanium (Ti)	0.23	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th		
Calcium (Ca)	229	200- 750			
Magnesium (Mg)	62	25- 75			
Sodium (Na)	190	20- 180			
Potassium (K)	5	9- 80			
Copper (Cu)	20	11- 30			
Zinc (Zn)	190	130- 200			
Manganese (Mn)	0.09	0.08- 0.50			
Chromium (Cr)	0.28	0.40- 0.70			
Vanadium (V)	0.014	0.018- 0.065			
Molybdenum (Mo)	0.018	0.025- 0.060			
Boron (B)	0.18	0.40- 3.0			
Iodine (I)	0.14	0.25- 1.8			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	159	150- 220			
Selenium (Se)	0.84	0.70- 1.2			
Strontium (Sr)	0.31	0.30- 3.5			
Sulfur (S)	46400	44000- 50000			
Cobalt (Co)	0.004	0.004- 0.020			
Iron (Fe)	4.7	7.0- 16			
Germanium (Ge)	0.028	0.030- 0.040			
Rubidium (Rb)	0.009	0.011- 0.12			
Zirconium (Zr)	0.016	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 04/14/2013	Sample Size: 0.197 g	Ca/Mg	3.69
Date Received: 04/17/2013	Sample Type: Head	Ca/P	1.44
Date Completed: 04/19/2013	Hair Color: Brown	Na/K	38
Methodology: ICP/MS	Treatment:	Zn/Cu	9.5
	Shampoo: Aveda Shampure	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Health history for hair test 775

- 1) High cholesterol, mild insomnia (wakes up in middle of night and can't fall back asleep semi-regularly), plantar fasciitis
- 2) First root canal 1993
- 3) 5 root canals/crowns (white ones) Does not have any silver fillings (we are trying to find out if the root canals are filled with amalgam).
- 4) not sure
- 5) Childhood vaccines and one flu shot in Oct 2010
- 6) Niacin 300 mg/day, Vit D 6000 IU/day, Vit C 500 mg/day
- 7) 41, 6', 172 lbs
- 8) used contact lens solution for 10 years or so prior to the ban on thimerosal
- 9) Madison, WI