



PATIENT: Number 589
 SEX: Male
 AGE: 53

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	4.7	< 7.0	
Antimony (Sb)	0.44	< 0.066	
Arsenic (As)	0.083	< 0.080	
Barium (Ba)	0.47	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.027	< 2.0	
Cadmium (Cd)	0.27	< 0.065	
Lead (Pb)	11	< 0.80	
Mercury (Hg)	0.21	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.032	< 0.060	
Nickel (Ni)	0.12	< 0.20	
Silver (Ag)	0.25	< 0.08	
Tin (Sn)	0.20	< 0.30	
Titanium (Ti)	0.33	< 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)	243	200- 750			
Magnesium (Mg)	17	25- 75			
Sodium (Na)	44	20- 180			
Potassium (K)	50	9- 80			
Copper (Cu)	14	11- 30			
Zinc (Zn)	98	130- 200			
Manganese (Mn)	0.31	0.08- 0.50			
Chromium (Cr)	0.52	0.40- 0.70			
Vanadium (V)	0.035	0.018- 0.065			
Molybdenum (Mo)	0.078	0.025- 0.060			
Boron (B)	11	0.40- 3.0			
Iodine (I)	2.5	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	156	150- 220			
Selenium (Se)	0.97	0.70- 1.2			
Strontium (Sr)	0.16	0.30- 3.5			
Sulfur (S)	47000	44000- 50000			
Cobalt (Co)	0.011	0.004- 0.020			
Iron (Fe)	12	7.0- 16			
Germanium (Ge)	0.025	0.030- 0.040			
Rubidium (Rb)	0.069	0.011- 0.12			
Zirconium (Zr)	0.082	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected:	Sample Size: 0.196 g	Ca/Mg	14.3	4- 30
Date Received: 2/17/2012	Sample Type: Head	Ca/P	1.56	0.8- 8
Date Completed: 2/19/2012	Hair Color:	Na/K	0.88	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	7	4- 20
	Shampoo:	Zn/Cd	363	> 800

Health history for hair test 589

- 1.) I have been on a disability for 10 years for being ADD to the extent that I have not done well at holding a job. Symptoms include fuzzy thinking and tendency towards being depressed, urinary problems - stopping stream, and also male dysfunction. Was on the full spectrum of drugs given to those that are ADD for about 10 years and have been off of them for 10 year now.
- 2.) Lots of amalgams (all replaced with white fillings) a 3 or 4 crowns and wisdom teeth removed for braces at 16 years old.
- 3.) Still have 3 or 4 crowns which I must keep for financial reasons.
- 4.) What dentistry did your mother have at any time before or during pregnancy? I have no idea.
- 5.) The normal for someone born in 1957 plus travel shots for going to live in Europe when I was 8 years old and the hepatitis series at age 42.
- 6.) Most vitamins and minerals A,B,C,D,E selenium, iodine, zinc, copper, magnesium, glutathione, flax seed oil, small dose of ALA (100 mg) for a time. **For a few weeks I was taking EDTA sublingually for arterial plaque.**
- 7.) 53 year old 5'6" and 210 lbs - blood pressure has always been in normal range.
- 8.) Other information you feel may be relevant? Not that I can think of.
- 9.) I have moved around so often I do not think where I have lived would be of use. Currently in Joplin MO with a fluoride free water supply.