



PATIENT: Number 751
 SEX: Male
 AGE: 55

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	0.7	< 7.0	
Antimony (Sb)	0.010	< 0.066	
Arsenic (As)	0.025	< 0.080	
Barium (Ba)	0.35	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.037	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	2.9	< 0.80	
Mercury (Hg)	0.10	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.009	< 0.060	
Nickel (Ni)	0.03	< 0.20	
Silver (Ag)	0.03	< 0.08	
Tin (Sn)	0.05	< 0.30	
Titanium (Ti)	0.22	< 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)	197	200- 750			
Magnesium (Mg)	15	25- 75			
Sodium (Na)	35	20- 180			
Potassium (K)	19	9- 80			
Copper (Cu)	52	11- 30			
Zinc (Zn)	160	130- 200			
Manganese (Mn)	0.72	0.08- 0.50			
Chromium (Cr)	0.43	0.40- 0.70			
Vanadium (V)	0.022	0.018- 0.065			
Molybdenum (Mo)	0.032	0.025- 0.060			
Boron (B)	0.23	0.40- 3.0			
Iodine (I)	0.19	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	158	150- 220			
Selenium (Se)	0.76	0.70- 1.2			
Strontium (Sr)	0.75	0.30- 3.5			
Sulfur (S)	46500	44000- 50000			
Cobalt (Co)	0.004	0.004- 0.020			
Iron (Fe)	7.1	7.0- 16			
Germanium (Ge)	0.033	0.030- 0.040			
Rubidium (Rb)	0.016	0.011- 0.12			
Zirconium (Zr)	0.022	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 03/28/2013	Sample Size: 0.197 g	Ca/Mg	13.1
Date Received: 04/01/2013	Sample Type: Head	Ca/P	1.25
Date Completed: 04/04/2013	Hair Color: Brown	Na/K	1.84
Methodology: ICP/MS	Treatment:	Zn/Cu	3.08
	Shampoo: Pert Plus	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Health history for hair test 751

1. **What are your current symptoms and health history?** poor memory/concentration, depression, otherwise healthy, a stool test a few years ago showed I was gluten intolerant and slightly allergic to dairy
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** most wisdom teeth out a long time ago, ditto for a root canal and amalgams (~8)
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** 2 crowns, haven't scheduled amalgam removal yet
4. **What dentistry did your mother have at any time before or during pregnancy?** don't know
5. **What vaccinations have you had and when (including flu and especially travel shots)?** no flu shots, a couple tetanus, normal ones growing up
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** fermented CLO 1tsp/day, bupropion XL 300mg/day, Viibryd 40mg/day, use sea salt
7. **What is your age, height and weight?** 49, 6'4", 220
8. **Other information you feel may be relevant?** had a filled molar disintegrate a couple years ago, dropped a fluorescent tube around that time frame too, on well water at home (somewhat acidic, copper pipes slowly being replaced as they spring leaks), eat big spinach salad 4-5 times/week, diet is mostly GAPS, mainly avoid gluten and sugar and dairy (in that order), no hair products (just Pert)
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Rockville, MD USA