



PATIENT: Number 822
 SEX: Male
 AGE: 32

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	7.9	< 12	
Antimony (Sb)	0.031	< 0.080	
Arsenic (As)	0.076	< 0.12	
Barium (Ba)	0.43	< 1.5	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.062	< 2.0	
Cadmium (Cd)	0.017	< 0.065	
Lead (Pb)	1.4	< 1.5	
Mercury (Hg)	0.36	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.019	< 0.060	
Nickel (Ni)	6.8	< 0.40	
Silver (Ag)	0.05	< 0.10	
Tin (Sn)	0.24	< 0.30	
Titanium (Ti)	0.49	< 0.70	
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)	345	375- 1100			
Magnesium (Mg)	38	40- 140			
Sodium (Na)	120	60- 400			
Potassium (K)	140	28- 160			
Copper (Cu)	46	11- 32			
Zinc (Zn)	170	120- 200			
Manganese (Mn)	0.14	0.15- 0.65			
Chromium (Cr)	0.38	0.40- 0.70			
Vanadium (V)	0.029	0.018- 0.065			
Molybdenum (Mo)	0.042	0.040- 0.080			
Boron (B)	4.6	0.40- 2.5			
Iodine (I)	1.5	0.25- 1.8			
Lithium (Li)	< 0.004	0.008- 0.030			
Phosphorus (P)	205	200- 300			
Selenium (Se)	0.85	0.80- 1.3			
Strontium (Sr)	1.2	1.0- 6.0			
Sulfur (S)	45800	41000- 47000			
Cobalt (Co)	0.018	0.006- 0.035			
Iron (Fe)	6.5	7.0- 16			
Germanium (Ge)	0.023	0.030- 0.040			
Rubidium (Rb)	0.17	0.030- 0.25			
Zirconium (Zr)	3.2	0.040- 1.0			

SPECIMEN DATA		RATIOS	
COMMENTS: insufficient sample to recheck results		ELEMENTS	RATIOS
Date Collected: 07/27/2013		Ca/Mg	9.08
Date Received: 08/02/2013		Ca/P	1.68
Date Completed: 08/04/2013		Na/K	0.857
Methodology: ICP/MS		Zn/Cu	3.7
Sample Size: 0.151 g		Zn/Cd	> 999
Sample Type: Pubic			
Hair Color: Brown			
Treatment:			
Shampoo:			
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

Health history for hair test 822

1. **What are your current symptoms and health history?** chronic fatigue (especially from exercise), difficulty getting restful sleep, brain fog, a little depression, chemical allergies (aspartame, high fructose corn syrup, maltodextrin, etc.), low testosterone
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** I was doing well chelating with ALA (18.5mg/dos) until I had silver tips removed from a root canal a couple of months ago. Now I can only tolerate 3mg ALA/dose. I had braces 16 years ago. I had multiple amalgam filling, but had the last one removed 18 months ago. I've had 3 root canals - one of them I had to have redone multiple times and had an abscess tooth as a result. Two of the root canals have crowns. First root canal was probably 16 years ago. First amalgam was when I was a child (20+ years ago).
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** I only have crowns in place now. No amalgam fillings
4. **What dentistry did your mother have at any time before or during pregnancy?** I'm not sure. She could have had multiple amalgam fillings
5. **What vaccinations have you had and when (including flu and especially travel shots)?** I have not had any vaccinations in 10+ years. I've had all of the recommended vaccinations before that. I haven't had a flu shot in 5 years.
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** I did ALA up to 18.5mg according to Cutler protocol for a few months before test. I can only tolerate 3mg ALA/dose now (after getting silver tips in root canal removed). I take many different supplements, including: Vitamin C, Taurine, NAC (sometimes), adrenal cortex, niacinamide, Probiotic, Super Oxide Dismutase, Melatonin, digestive enzymes, Vitamin E, P5P (sometimes), Milk Thistle (sometimes). I cannot tolerate zinc, B12, or anything else that speeds up phase I liver.
7. **What is your age, height and weight?** Age 31, 6'2", 200 pounds.
8. **Other information you feel may be relevant?**
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** New York, USA