



PATIENT: Number 654
 SEX: Male
 AGE: 27

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.4	< 7.0	
Antimony (Sb)	0.011	< 0.066	
Arsenic (As)	0.037	< 0.080	
Barium (Ba)	0.25	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.020	< 2.0	
Cadmium (Cd)	0.054	< 0.065	
Lead (Pb)	0.45	< 0.80	
Mercury (Hg)	0.31	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.014	< 0.060	
Nickel (Ni)	0.08	< 0.20	
Silver (Ag)	0.02	< 0.08	
Tin (Sn)	0.10	< 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)	235	200- 750			
Magnesium (Mg)	24	25- 75			
Sodium (Na)	37	20- 180			
Potassium (K)	16	9- 80			
Copper (Cu)	16	11- 30			
Zinc (Zn)	190	130- 200			
Manganese (Mn)	0.16	0.08- 0.50			
Chromium (Cr)	0.41	0.40- 0.70			
Vanadium (V)	0.035	0.018- 0.065			
Molybdenum (Mo)	0.024	0.025- 0.060			
Boron (B)	0.94	0.40- 3.0			
Iodine (I)	1.6	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	163	150- 220			
Selenium (Se)	0.77	0.70- 1.2			
Strontium (Sr)	0.53	0.30- 3.5			
Sulfur (S)	47600	44000- 50000			
Cobalt (Co)	0.007	0.004- 0.020			
Iron (Fe)	5.0	7.0- 16			
Germanium (Ge)	0.030	0.030- 0.040			
Rubidium (Rb)	0.024	0.011- 0.12			
Zirconium (Zr)	0.047	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 8/25/2012		Ca/Mg	9.79
Date Received: 8/31/2012		Ca/P	1.44
Date Completed: 9/4/2012		Na/K	2.31
Methodology: ICP/MS		Zn/Cu	11.9
Sample Size: 0.199 g		Zn/Cd	> 999
Sample Type: Head			
Hair Color: Blond			
Treatment:			
Shampoo: Shea			
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Health history for hair test 654

1. **What are your current symptoms and health history?** I have depression and struggle with weight
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** I have had my wisdom teeth removed. My amalgams were removed 5 years ago. I had a root canal on my second farthest molar on the bottom right side (the same side where my right hand is located)
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** I had all amalgams removed and replaced with the white stuff. I have two crowns.
4. **What dentistry did your mother have at any time before or during pregnancy?** I believe she had a number of amalgams
5. **What vaccinations have you had and when (including flu and especially travel shots)?** I have never had a vaccine
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** I took generic multivitamins
7. **What is your age, height and weight?** I am 27, 5'8" and 170 lbs
8. **Other information you feel may be relevant?** I have been vegetarian for most all my life, but have eaten salmon 1-2 times a week for the prior six months before taking the hair analysis.
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Albany, NY