



PATIENT: Number 594

SEX: Male

AGE: 46

## Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum	(Al)	0.8	< 7.0	
Antimony	(Sb)	0.018	< 0.066	
Arsenic	(As)	0.047	< 0.080	
Barium	(Ba)	0.81	< 1.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.075	< 2.0	
Cadmium	(Cd)	0.012	< 0.065	
Lead	(Pb)	0.12	< 0.80	
Mercury	(Hg)	0.68	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	< 0.001	< 0.002	
Uranium	(U)	0.003	< 0.060	
Nickel	(Ni)	0.03	< 0.20	
Silver	(Ag)	0.02	< 0.08	
Tin	(Sn)	0.07	< 0.30	
Titanium	(Ti)	0.24	< 0.60	
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
Calcium	(Ca)	472	200– 750	
Magnesium	(Mg)	66	25– 75	
Sodium	(Na)	28	20– 180	
Potassium	(K)	12	9– 80	
Copper	(Cu)	9.4	11– 30	
Zinc	(Zn)	190	130– 200	
Manganese	(Mn)	0.06	0.08– 0.50	
Chromium	(Cr)	0.37	0.40– 0.70	
Vanadium	(V)	0.015	0.018– 0.065	
Molybdenum	(Mo)	0.037	0.025– 0.060	
Boron	(B)	1.6	0.40– 3.0	
Iodine	(I)	0.49	0.25– 1.8	
Lithium	(Li)	< 0.004	0.007– 0.020	
Phosphorus	(P)	176	150– 220	
Selenium	(Se)	1.0	0.70– 1.2	
Strontium	(Sr)	1.7	0.30– 3.5	
Sulfur	(S)	48600	44000– 50000	
Cobalt	(Co)	0.002	0.004– 0.020	
Iron	(Fe)	6.3	7.0– 16	
Germanium	(Ge)	0.034	0.030– 0.040	
Rubidium	(Rb)	0.008	0.011– 0.12	
Zirconium	(Zr)	0.050	0.020– 0.44	

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 2/20/2012		Ca/Mg	7.15	4– 30
Date Received: 2/27/2012		Ca/P	2.68	0.8– 8
Date Completed: 2/29/2012		Na/K	2.33	0.5– 10
Methodology: ICP/MS		Zn/Cu	20.2	4– 20
Sample Size: 0.197 g		Zn/Cd	> 999	> 800
Sample Type: Head				
Hair Color: Brown				
Treatment:				
Shampoo: Mill Creek				

## **Health history for hair test 591**

### **What are your current symptoms and health history?**

pain +fatigue+ digestive impairment

### **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)**

wisdom teeth removed 1988, no root canals, braces from about 1979 to 1983

### **dental work do you currently have in place? What part of the dental clean-up have you completed?**

7 teeth w/ amalgam fillings which will all be replaced w/in a month

### **What dentistry did your mother have at any time before or during pregnancy?**

unsure

### **What vaccinations have you had and when (including flu and especially travel shots)? Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?**

no vax recently. most recent vax were yellow fever and a few others for a trip to Africa at the end of 1995.

selenium for about a month before hair test. a multi a few times before. occasional calmag multi vit powder in summer

i took a few other supps during this time. none regularly. kelp, vit b12, milk thistle (every day)

### **What is your age, height and weight? 46 5'10" 200lbs**

### **What is your location – city & country (so that we can learn where certain toxins are more prevalent - Santa Rosa, CA 2 years.**