



PATIENT: Number 923
 SEX: Male
 AGE: 59

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.7	< 7.0	
Antimony (Sb)	0.010	< 0.066	
Arsenic (As)	0.046	< 0.080	
Barium (Ba)	0.68	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.11	< 0.80	
Mercury (Hg)	0.07	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.034	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	< 0.006	< 0.08	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.37	< 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)	284	200- 750			
Magnesium (Mg)	55	25- 75			
Sodium (Na)	50	20- 180			
Potassium (K)	7	9- 80			
Copper (Cu)	12	11- 30			
Zinc (Zn)	180	130- 200			
Manganese (Mn)	0.07	0.08- 0.50			
Chromium (Cr)	0.41	0.40- 0.70			
Vanadium (V)	0.022	0.018- 0.065			
Molybdenum (Mo)	0.020	0.025- 0.060			
Boron (B)	1.2	0.40- 3.0			
Iodine (I)	0.74	0.25- 1.8			
Lithium (Li)	0.009	0.007- 0.020			
Phosphorus (P)	176	150- 220			
Selenium (Se)	5.5	0.70- 1.2			
Strontium (Sr)	1.6	0.30- 3.5			
Sulfur (S)	48100	44000- 50000			
Cobalt (Co)	0.005	0.004- 0.020			
Iron (Fe)	4.9	7.0- 16			
Germanium (Ge)	0.031	0.030- 0.040			
Rubidium (Rb)	0.010	0.011- 0.12			
Zirconium (Zr)	0.28	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 12/30/2013	Sample Size: 0.166 g	Ca/Mg	5.16	4- 30
Date Received: 01/07/2014	Sample Type: Head	Ca/P	1.61	0.8- 8
Date Completed: 01/08/2014	Hair Color: Gray	Na/K	7.14	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	15	4- 20
	Shampoo: Tea Tree	Zn/Cd	> 999	> 800

Health history for hair test 923

1. What are your current symptoms and health history?

In retrospect - Always sickly, highly allergic and low stamina. Had occasional vicious migraines as a teen. Diagnosed with chronic fatigue at age 34, and energy began declining even more seriously at age 45. Began testosterone supplements at that time but discontinued at age 53 due to prostate cancer scare, which was confirmed at age 58. Now additionally experiencing extreme fatigue, candida, brain fog, emotional exhaustion, depression, and weakness and pains in lower body similar to M.S. For last twenty years have been extremely susceptible to sinus infections, with 1-2 per year.

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

Four teeth removed to relieve overcrowding prior to braces at age 13. Wisdom teeth removed at age 24, root canal a year later.

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

Currently have three amalgams, plus various composite fillings. Have root canal with gold crown. No cleanup yet undertaken.

4. What dentistry did your mother have at any time before or during pregnancy?

Unknown

5. What vaccinations have you had and when (including flu and especially travel shots)?

Numerous over the years for chicken pox, polio, measles/mumps, flue. Allergy shots as a child, and again beginning at age 45 (approx. yr. 2000).

6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?

Vitamins A, B1, B5, B12, C, D, E. Magnesium, Potassium, CoQ10, Zinc, Fish Oil

7. What is your age, height and weight?

59 Years, 5'10, 240 lbs.

8. Other information you feel may be relevant?

Helped strip lead paint off house as a child, and used tin/lead solder for hobby as a teenager. Have lived most of life very close to main vehicular arteries

(expressways/main thoroughfares), and am an auto racing spectator, so definite exposure to lead and cadmium.

9. What is your location –

Houston, Texas - USA