



PATIENT: Number 813
 SEX: Male
 AGE: 55

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	9.0	< 7.0	
Antimony (Sb)	0.068	< 0.066	
Arsenic (As)	0.090	< 0.080	
Barium (Ba)	0.64	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.020	< 2.0	
Cadmium (Cd)	0.52	< 0.065	
Lead (Pb)	3.7	< 0.80	
Mercury (Hg)	0.25	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.002	< 0.002	
Uranium (U)	0.019	< 0.060	
Nickel (Ni)	0.15	< 0.20	
Silver (Ag)	0.13	< 0.08	
Tin (Sn)	0.21	< 0.30	
Titanium (Ti)	0.50	< 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)	194	200- 750			
Magnesium (Mg)	34	25- 75			
Sodium (Na)	27	20- 180			
Potassium (K)	20	9- 80			
Copper (Cu)	17	11- 30			
Zinc (Zn)	160	130- 200			
Manganese (Mn)	0.43	0.08- 0.50			
Chromium (Cr)	0.41	0.40- 0.70			
Vanadium (V)	0.043	0.018- 0.065			
Molybdenum (Mo)	0.044	0.025- 0.060			
Boron (B)	0.42	0.40- 3.0			
Iodine (I)	0.66	0.25- 1.8			
Lithium (Li)	0.006	0.007- 0.020			
Phosphorus (P)	154	150- 220			
Selenium (Se)	0.60	0.70- 1.2			
Strontium (Sr)	0.61	0.30- 3.5			
Sulfur (S)	46500	44000- 50000			
Cobalt (Co)	0.012	0.004- 0.020			
Iron (Fe)	19	7.0- 16			
Germanium (Ge)	0.033	0.030- 0.040			
Rubidium (Rb)	0.030	0.011- 0.12			
Zirconium (Zr)	0.12	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 07/09/2013	Sample Size: 0.199 g	Ca/Mg	5.71	4- 30
Date Received: 07/15/2013	Sample Type: Head	Ca/P	1.26	0.8- 8
Date Completed: 07/17/2013	Hair Color: Brown	Na/K	1.35	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	9.41	4- 20
	Shampoo: None	Zn/Cd	308	> 800



SEX: Male
AGE: 56

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	6.8	< 7.0	
Antimony (Sb)	0.026	< 0.066	
Arsenic (As)	0.040	< 0.080	
Barium (Ba)	1.4	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.033	< 2.0	
Cadmium (Cd)	0.059	< 0.065	
Lead (Pb)	0.49	< 0.80	
Mercury (Hg)	0.12	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.012	< 0.060	
Nickel (Ni)	0.19	< 0.20	
Silver (Ag)	0.04	< 0.08	
Tin (Sn)	0.06	< 0.30	
Titanium (Ti)	0.27	< 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)	820	200- 750			
Magnesium (Mg)	130	25- 75			
Sodium (Na)	22	20- 180			
Potassium (K)	6	9- 80			
Copper (Cu)	45	11- 30			
Zinc (Zn)	210	130- 200			
Manganese (Mn)	0.18	0.08- 0.50			
Chromium (Cr)	0.32	0.40- 0.70			
Vanadium (V)	0.018	0.018- 0.065			
Molybdenum (Mo)	0.032	0.025- 0.060			
Boron (B)	0.31	0.40- 3.0			
Iodine (I)	0.18	0.25- 1.8			
Lithium (Li)	0.008	0.007- 0.020			
Phosphorus (P)	164	150- 220			
Selenium (Se)	1.7	0.70- 1.2			
Strontium (Sr)	2.7	0.30- 3.5			
Sulfur (S)	51700	44000- 50000			
Cobalt (Co)	0.019	0.004- 0.020			
Iron (Fe)	12	7.0- 16			
Germanium (Ge)	0.032	0.030- 0.040			
Rubidium (Rb)	0.013	0.011- 0.12			
Zirconium (Zr)	0.099	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 04/16/2014	Sample Size: 0.2 g	Ca/Mg	6.31	4- 30
Date Received: 04/22/2014	Sample Type: Head	Ca/P	5	0.8- 8
Date Completed: 04/26/2014	Hair Color: Brown	Na/K	3.67	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	4.67	4- 20
	Shampoo:	Zn/Cd	> 999	> 800

Health history for hair test 813

1.What are your current symptoms and health history? Fibromyalgia, chronic fatigue, metallic taste, candida, food intolerance,night sweats, muscle twitching,eye floaters,IBS, poor vision, poor hearing, short term memory loss, brain fog, headaches, short attention span. no dreams. CFS and pain seems to be progressing rapidly. I feel much worse than i did 6 months ago

2.Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) First amalgams at age 6, dental program had just started in New Zealand when i started school. I had 23 fillings in a week. I think they practiced on me because i didn't bite them. They gave us the dental drill packets with mercury in them to play with. wisdom teeth all extracted, last two were done 5 years ago. one other tooth removed but cant remember when.

3.What dental work do you currently have in place? What part of the dental clean-up have you completed? I currently have 8 large amalgams and will be getting them out at a bio dentist in 2 weeks. I had dental work to replace some large amalgams about a year ago and my symptoms have started a short time after. I am unsure about root canals but do have 2 crowns.

4.What dentistry did your mother have at any time before or during pregnancy? Had all teeth removed at early age, using dentures

5.What vaccinations have you had and when (including flu and especially travel shots)? All childhood vaccinations. one flu shot but I don't agree that they help and stopped.

6.Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? Vit C 6g E 1200IU Zinc 100mg multi vitamins enzymes probiotics milk thistle

7.What is your age, height and weight? 55 5'11" but i used to be 6' 210lbs, lost 18lbs while on GF diet (2 months) No Alcohol.

8.Other information you feel may be relevant? had my neck fused 3 years ago due to chronic pain in shoulder and numbness in arm. After surgery had pulmonary embolisms, lovenox and cumaden for a year

9.What is your location – city & country (so that we can learn where certain toxins are more prevalent). Born in Tauranga New Zealand and had most dental work done there. Water was flouridized. Now living in Fairbanks AK (15 years)

Health history for hair test 813 - follow-up

- 1) Fatigue, Fibromyalgia, poor memory, pins and needles in hands, gluten intolerance, lower back pain. These are a few of the main ones
- 2) All eight amalgams removed about a year ago. Multiple exposures to mercury especially when young
- 3) All removed by a safe dentist
- 4) dentures
- 5) unknown, regular childhood and travel vaccinations but not sure what they were
- 6) Magnesium, vitamin c, vitamin e, zinc, milk thistle, selenium. DMSA 25mg,ALA 12.5 on 4 day rounds (4 days off)
- 7) Although my hair tests seems to be normal I am still having reactions to the chelators. My exposure was mainly when i was young so I think most of the poison is in my organs. I plan to continue at least another year.
- 8) Fairbanks Alaska USA