



PATIENT: Number 796
 SEX: Female
 AGE: 55

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	15	< 7.0	
Antimony (Sb)	0.010	< 0.050	
Arsenic (As)	0.032	< 0.060	
Barium (Ba)	1.7	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	2.3	< 2.0	
Cadmium (Cd)	0.026	< 0.050	
Lead (Pb)	0.28	< 0.60	
Mercury (Hg)	0.10	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.010	< 0.002	
Uranium (U)	0.35	< 0.060	
Nickel (Ni)	0.16	< 0.30	
Silver (Ag)	0.12	< 0.15	
Tin (Sn)	0.05	< 0.30	
Titanium (Ti)	0.87	< 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)	762	300- 1200			
Magnesium (Mg)	46	35- 120			
Sodium (Na)	57	20- 250			
Potassium (K)	13	8- 75			
Copper (Cu)	8.9	11- 37			
Zinc (Zn)	240	140- 220			
Manganese (Mn)	0.10	0.08- 0.60			
Chromium (Cr)	0.37	0.40- 0.65			
Vanadium (V)	0.086	0.018- 0.065			
Molybdenum (Mo)	0.036	0.020- 0.050			
Boron (B)	0.76	0.25- 1.5			
Iodine (I)	0.66	0.25- 1.8			
Lithium (Li)	0.009	0.007- 0.020			
Phosphorus (P)	121	150- 220			
Selenium (Se)	0.74	0.55- 1.1			
Strontium (Sr)	4.6	0.50- 7.6			
Sulfur (S)	47300	44000- 50000			
Cobalt (Co)	0.013	0.005- 0.040			
Iron (Fe)	10	7.0- 16			
Germanium (Ge)	0.031	0.030- 0.040			
Rubidium (Rb)	0.020	0.007- 0.096			
Zirconium (Zr)	0.28	0.020- 0.42			

SPECIMEN DATA		RATIOS		
COMMENTS: Results checked.		ELEMENTS	RATIOS	RANGE
Date Collected: 05/18/2013	Sample Size: 0.196 g	Ca/Mg	16.6	4- 30
Date Received: 05/22/2013	Sample Type: Head	Ca/P	6.3	1- 12
Date Completed: 05/29/2013	Hair Color: Brown	Na/K	4.38	0.5- 10
Methodology: ICP/MS	Treatment: Bleach	Zn/Cu	27	4- 20
	Shampoo: Joico	Zn/Cd	> 999	> 800

Health history for hair test 796

1. I have struggled all of my life with ADD, and I now have chronic fatigue, brain fog, and interstitial cystitis. I also have IgG food sensitivities to gluten, eggs, dairy, and soy. As a child I had eczema and chronic sinus problems.

2. I had poor dental hygiene as a child, and my mouth was so full of amalgams that a dentist seeing me for the first time would gasp when I opened my mouth! I had eight teeth removed as a teenager because my mouth was small, and I had braces.

3. I had one filling removed unsafely 8 months ago, and 2 fillings removed safely 3 months ago. I think that is all the amalgam, although I have a couple of crowns that I haven't removed and it's possible they could have amalgam under them. I have 2 root canals that were done 10 years ago.

4. My mother had quite a few amalgams. She had also worked at Honeywell, soldering vacuum tubes. It was before I was born, and I don't know how long she had that job.

5. I had the usual childhood vaccinations that were given in the 1950s. I don't get flu shots.

6. At the time of the test I had been taking selenium, kelp, zinc, acetyl l-carnitine, vitamin C, calcium and magnesium.

7. I am 55 years old, 5'5" tall, 180 lbs.

8. Other relevant information: I broke a thermometer as a child and played with the mercury. Also, I had an unusual knee injury 3 years ago-- pieces of bone formed and broke off inside the joint. (I had a strenuous job climbing up and down out of a delivery truck, and I was working 60-70 hours per week.)

9. I grew up in Denver, Colorado, and I've lived in Pasadena, CA for 30 years.