



PATIENT: Number 933  
 SEX: Male  
 AGE: 50\

**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	4.5	< 7.0	
Antimony (Sb)	0.028	< 0.066	
Arsenic (As)	0.037	< 0.080	
Barium (Ba)	5.8	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.038	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.39	< 0.80	
Mercury (Hg)	0.49	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.26	< 0.060	
Nickel (Ni)	0.24	< 0.20	
Silver (Ag)	0.02	< 0.08	
Tin (Sn)	0.05	< 0.30	
Titanium (Ti)	0.33	< 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)	1070	200- 750	
Magnesium (Mg)	68	25- 75	
Sodium (Na)	190	20- 180	
Potassium (K)	32	9- 80	
Copper (Cu)	23	11- 30	
Zinc (Zn)	220	130- 200	
Manganese (Mn)	0.25	0.08- 0.50	
Chromium (Cr)	0.45	0.40- 0.70	
Vanadium (V)	0.080	0.018- 0.065	
Molybdenum (Mo)	0.028	0.025- 0.060	
Boron (B)	0.16	0.40- 3.0	
Iodine (I)	0.16	0.25- 1.8	
Lithium (Li)	0.013	0.007- 0.020	
Phosphorus (P)	165	150- 220	
Selenium (Se)	0.68	0.70- 1.2	
Strontium (Sr)	2.8	0.30- 3.5	
Sulfur (S)	48400	44000- 50000	
Cobalt (Co)	0.080	0.004- 0.020	
Iron (Fe)	9.9	7.0- 16	
Germanium (Ge)	0.031	0.030- 0.040	
Rubidium (Rb)	0.032	0.011- 0.12	
Zirconium (Zr)	0.061	0.020- 0.44	

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		ELEMENTS	RATIOS
Date Collected: 03/10/2014	Sample Size: 0.199 g	Ca/Mg	15.7
Date Received: 03/14/2014	Sample Type: Head	Ca/P	6.48
Date Completed: 03/17/2014	Hair Color: Blond	Na/K	5.94
Methodology: ICP/MS	Treatment:	Zn/Cu	9.57
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4 - 30
			0.8 - 8
			0.5 - 10
			4 - 20
			> 800

## Health history for hair test 933

### 1. What are your current symptoms and health history?

"Scrambled brain syndrome," where spellings of words don't come out as I intend and I have to correct what I type. Gained 15 pounds in the last year and a half for no reason. Afternoon fatigue if I have too much protein at lunch. Psoriasis or other skin rash on my legs and behind my ears. Has gotten better and worse over the years. Cataracts in both eyes but the only effect I notice is mild halos around streetlights at night. I tend towards worrying.

13+ years ago I had severe brain fog, periodic facial tics, and a trembling left hand. I chelated with DMSA and ALA for a year and all three symptoms went away. But, I didn't follow Cutler's protocol carefully and I believe I got metals out of my brain but that much of what was stirred up may have been redistributed to elsewhere in my body.

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

I don't remember dates but I had a lot of problems with my teeth as a young boy and I had a bunch of dental work done in my teens by the local dental teaching college.

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

I have some composite fillings, a root canal and a bridge. I had all of my dental amalgams replaced over 13 years ago by a biological dentist.

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

Don't know.

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

I imagine I had the regularly given vaccinations. I was born and lived in Uruguay for the first 4 years of my life. I remember being red and feeling really sick after some vaccination. I was an English teacher in Korea in the early 80's and I believe I got vaccinations before going there.

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

None.

### 7. What is your age, height and weight?

Age 50, height 5'5", weight 173 pounds. Maybe 25%-28% body fat. Gained 15 pounds in the last year and a half for no obvious reason.

### 8. Other information you feel may be relevant.

There is a lot of neurological stuff in my family: alzheimers, schizophrenia, neurotic behavior, maybe aspergers,

9. What is your location – city & country (so that we can learn where certain toxins are more prevalent).

Santa Fe, NM, Southwestern United States