



PATIENT: Number 867
 SEX: Female
 AGE: 49

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.6	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.057	< 0.060	
Barium (Ba)	0.14	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.012	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.04	< 0.60	
Mercury (Hg)	0.60	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.007	< 0.060	
Nickel (Ni)	0.16	< 0.30	
Silver (Ag)	0.01	< 0.15	
Tin (Sn)	0.02	< 0.30	
Titanium (Ti)	0.11	< 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)	346	300- 1200	
Magnesium (Mg)	42	35- 120	
Sodium (Na)	340	20- 250	
Potassium (K)	290	8- 75	
Copper (Cu)	9.8	11- 37	
Zinc (Zn)	150	140- 220	
Manganese (Mn)	0.06	0.08- 0.60	
Chromium (Cr)	0.54	0.40- 0.65	
Vanadium (V)	0.062	0.018- 0.065	
Molybdenum (Mo)	0.041	0.020- 0.050	
Boron (B)	2.1	0.25- 1.5	
Iodine (I)	0.60	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	170	150- 220	
Selenium (Se)	1.2	0.55- 1.1	
Strontium (Sr)	0.41	0.50- 7.6	
Sulfur (S)	42600	44000- 50000	
Cobalt (Co)	0.004	0.005- 0.040	
Iron (Fe)	8.1	7.0- 16	
Germanium (Ge)	0.026	0.030- 0.040	
Rubidium (Rb)	0.43	0.007- 0.096	
Zirconium (Zr)	0.013	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 10/01/2013	Sample Size: 0.2 g	Ca/Mg	8.24
Date Received: 10/04/2013	Sample Type: Head	Ca/P	2.04
Date Completed: 10/08/2013	Hair Color: Black	Na/K	1.17
Methodology: ICP/MS	Treatment:	Zn/Cu	15.3
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 867

Notes: I colored my hair 2 months before I collect the sample. I did not wash my hair 10 days before I collect the sample, hopefully the testing result is very accurate. When I wash my hair, I use natural shampoo all the time.

1. What are your current symptoms and health history?

since year 2009, Fibromyalgia for 5 years (Burning pain on legs for 5 yrs.) burning pain and swelling on my face is 24 hours daily for 5 yrs. a lot food intolerance for 3-5 yrs. chemical sensitivity problem for 3-5 years. Abdominal pain for more than 1 yrs. started liver pain 2013. Candida in GI more than 2 years. Oral thrush for more than 2 yrs. mild fatigue since Feb 2013. sore throat at night daily for 10 months. work on computer, the pain gets worse (allergy to the computer). Low thyroid, had saliva testing, cortisol was very high 4 months ago, now it is normal except the cortisol at bed time is high. progesterone is low.

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

my wisdom teeth may be removed 10 years ago. i had 6 teeth extracted 2 years ago by mistake because of bad gum disease.

first root canal placed 1997. no Braces, I don't have any amalgam in my mouth currently. I may have had no any amalgam in my extracted teeth too (may be only 1 or 2 if I had), I still have 2 crowns.

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

i have 2 metal/porcelain crowns in my mouth, just regular cleaning, 3-4 times yearly. I don't have any amalgam in my mouth currently.

4. What dentistry did your mother have at any time before or during pregnancy? none

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

I might get flu shots 2005 before I travel to china (I don't remember exactly).

But i had tattoo on my Eyebrow as permanent make up at year 1995. can tattoo be the cause of my mercury.

6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? vitamin C, B complex, multiple vitamin, iodine, herb for candida, Magnesium, Calcium, zinc, iron, L-carnitine, HCL, probiotic, milk thistle, TMG, L-Tyrosine, pantethine, molybdenum, vitamin d3, E, B12, L-Lysine, L-glutamine, glycine powder,

7. What is your age, height and weight? 49 years old, 5'4, 104 lbs.

8. Other information you feel may be relevant?

the blood test shows that copper is low. MTHFR C677T: Heterozygous, MTHFR A1298C: wild type.

I colored my hair 2 months before i collected my hair sample.

BTW, my DMSA challenge testing shows that my mercury is high, my lead is high, and high cadmium, high cesium, rubidium, thallium.

9 What is your location – city & country (so that we can learn where certain toxins are more prevalent). Have been living in Michigan for 18 years, was living in asian country for 30 years.