



PATIENT: Number 641
 SEX: Female
 AGE: 34

Toxic & Essential Elements; Hair

| TOXIC METALS | | | |
|----------------------------|----------------|-----------------------|---|
| | RESULT µg/g | REFERENCE INTERVAL | PERCENTILE 68 th 95 th |
| Aluminum (Al) | 2.9 | < 7.0 | |
| Antimony (Sb) | < 0.01 | < 0.050 | |
| Arsenic (As) | 0.041 | < 0.060 | |
| Barium (Ba) | 0.15 | < 2.0 | |
| Beryllium (Be) | < 0.01 | < 0.020 | |
| Bismuth (Bi) | 0.003 | < 2.0 | |
| Cadmium (Cd) | < 0.009 | < 0.050 | |
| Lead (Pb) | 0.29 | < 0.60 | |
| Mercury (Hg) | 0.24 | < 0.80 | |
| Platinum (Pt) | < 0.003 | < 0.005 | |
| Thallium (Tl) | < 0.001 | < 0.002 | |
| Thorium (Th) | < 0.001 | < 0.002 | |
| Uranium (U) | 0.002 | < 0.060 | |
| Nickel (Ni) | 0.03 | < 0.30 | |
| Silver (Ag) | 0.13 | < 0.15 | |
| Tin (Sn) | 0.05 | < 0.30 | |
| Titanium (Ti) | 0.23 | < 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) | 227 | 300- 1200 | | | |
| Magnesium (Mg) | 31 | 35- 120 | | | |
| Sodium (Na) | 15 | 20- 250 | | | |
| Potassium (K) | < 3 | 8- 75 | | | |
| Copper (Cu) | 39 | 11- 37 | | | |
| Zinc (Zn) | 190 | 140- 220 | | | |
| Manganese (Mn) | 0.10 | 0.08- 0.60 | | | |
| Chromium (Cr) | 0.33 | 0.40- 0.65 | | | |
| Vanadium (V) | 0.019 | 0.018- 0.065 | | | |
| Molybdenum (Mo) | 0.024 | 0.020- 0.050 | | | |
| Boron (B) | 0.13 | 0.25- 1.5 | | | |
| Iodine (I) | 0.23 | 0.25- 1.8 | | | |
| Lithium (Li) | < 0.004 | 0.007- 0.020 | | | |
| Phosphorus (P) | 145 | 150- 220 | | | |
| Selenium (Se) | 0.79 | 0.55- 1.1 | | | |
| Strontium (Sr) | 0.26 | 0.50- 7.6 | | | |
| Sulfur (S) | 45100 | 44000- 50000 | | | |
| Cobalt (Co) | 0.007 | 0.005- 0.040 | | | |
| Iron (Fe) | 5.5 | 7.0- 16 | | | |
| Germanium (Ge) | 0.032 | 0.030- 0.040 | | | |
| Rubidium (Rb) | < 0.003 | 0.007- 0.096 | | | |
| Zirconium (Zr) | 0.026 | 0.020- 0.42 | | | |

| SPECIMEN DATA | | RATIOS | | |
|---------------------------|-----------------------|----------|--------|---------|
| COMMENTS: | | ELEMENTS | RATIOS | RANGE |
| Date Collected: 4/26/2012 | Sample Size: 0.203 g | Ca/Mg | 7.32 | 4- 30 |
| Date Received: 5/1/2012 | Sample Type: Head | Ca/P | 1.57 | 1- 12 |
| Date Completed: 5/5/2012 | Hair Color: Brown | Na/K | 5 | 0.5- 10 |
| Methodology: ICP/MS | Treatment: | Zn/Cu | 4.87 | 4- 20 |
| | Shampoo: Neem Organix | Zn/Cd | > 999 | > 800 |

Health history for hair test 641

- **What are your current symptoms and health history?** current (better after approx 10 rounds of chelation over 14 months time. I have been going really SLOW with it): fatigue (especially 2-5 pm), low energy, achy bones, joints and muscles (like getting the flu but don't), previous: intense food cravings (chocolate, carbs), bloating, obsessive thoughts/worry, history of depression, low motivation. Lyme disease in 2007. Currently doing parasite cleanse (Humaworm)
- **Dental history** (Wisdom teeth removed and when yes in teens. Any other extractions yes one: first root canal placed at 22 years of age -now extracted. Braces-yes at 18 years of age and bite alignment corrective jaw surgery (I still have small titanium screws on each side of jaw no need for them to be there but expensive to remove and may not be possible because they blend into the bone) First amalgam 5-6 years of age, lots as a child). 12 amalgams removed in 2007 by a good, biological dentist, with **homeopathic support afterwards.**
- **What dental work do you currently have in place? What part of the dental clean-up have you completed?** I have 12 composite fillings, one extracted tooth, no root canals. I wear a night guard to protect my teeth because I clench at night.
-Extraction of root canaled tooth was at age 32
- **What dentistry did your mother have at any time before or during pregnancy?** A mouth full of amalgams, root canals and crowns. She broke her jaw as a child and her jaw was wired shut so she couldn't brush properly. My great grandma had all her teeth sawed off (roots left in) and got VERY sick when she was pregnant with my grandma.
- **What vaccinations have you had and when (including flu and especially travel shots)?** All normal vaccines on time except no flu shots. I don't remember or know the schedule except hep b in my 20's at university.
- **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Biopure (zinc ect.) 2 pills 3-4 times per week. Probiotics. I was craving minerals/salt, very thirsty all the time and needed salt in the water. Filtered water did not quench thirst. This has subsided mostly.

-2 Biopure capsules has all this in it:

vitamin B-6 34 mg
biotin 4000 mcg
zinc (from opti-zinc) 20 mg
manganese 3.5 mg
chromium 250 mcg

molybdenum 200 mcg
boron 1.5 mg
L-taurine 45 mg
magnesium Glycinate 5 mg

At time of hair test I was also taking once per a week fermented cod liver oil and high vitamin butter oil (Green Pastures for Vit. A, D and K)
I was using topical magnesium approx once every other day (Ancient Minerals)
1-2 times per week liquid Vit E 100 IU (aqua-e)
some Camu Camu for vit c (less than teaspoon a few times per week)

- **What is your age, height and weight?** I am now 35 (was 34 at time of hair test), 5' 6", 120lbs
- **Other information you feel may be relevant?** My Mom grew up in a mining town and swam in a river with heavy metals in it. I am the last of 4 children. The others don't complain of health problems.
- **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** I was born in Owen Sound, Ontario. I moved to Vancouver when I was 1 and lived there until age 25 and since then I have moved several times. I am currently in Calgary, Alberta, Canada.