

PATIENT: Number 871

SEX: Male AGE: 44

Toxic & Essential Elements; Hair

| TOXIC METALS | | | | | | | |
|----------------------------|------|----------------|-----------------------|--|--|--|--|
| | | RESULT μg/g | REFERENCE INTERVAL | PERCENTILE 68 th 95 th | | | |
| Aluminum | (AI) | 4.4 | < 7.0 | | | | |
| Antimony | (Sb) | 0.013 | < 0.066 | | | | |
| Arsenic | (As) | 0.097 | < 0.080 | | | | |
| Barium | (Ba) | 0.10 | < 1.0 | | | | |
| Beryllium | (Be) | < 0.01 | < 0.020 | | | | |
| Bismuth | (Bi) | 0.063 | < 2.0 | • | | | |
| Cadmium | (Cd) | 0.025 | < 0.065 | | | | |
| Lead | (Pb) | 0.46 | < 0.80 | | | | |
| Mercury | (Hg) | 1.5 | < 0.80 | | | | |
| Platinum | (Pt) | < 0.003 | < 0.005 | | | | |
| Thallium | (TI) | < 0.001 | < 0.002 | | | | |
| Thorium | (Th) | < 0.001 | < 0.002 | | | | |
| Uranium | (U) | 0.025 | < 0.060 | | | | |
| Nickel | (Ni) | 0.09 | < 0.20 | | | | |
| Silver | (Ag) | 0.05 | < 0.08 | | | | |
| Tin | (Sn) | 0.06 | < 0.30 | | | | |
| Titanium | (Ti) | 0.44 | < 0.60 | | | | |
| Total Toxic Representation | n | | <u>-</u> | | | | |

| Total Toxio Representa | | | | | | | | |
|------------------------------|------|---------|--------------|------------------------------------|--|--|--|--|
| ESSENTIAL AND OTHER ELEMENTS | | | | | | | | |
| | | RESULT | REFERENCE | PERCENTILE | | | | |
| | | μg/g | INTERVAL | 2.5 th 16 th | 50 th 84 th 97.5 th | | | |
| Calcium | (Ca) | 492 | 200- 750 | | | | | |
| Magnesium | (Mg) | 150 | 25- 75 | | | | | |
| Sodium | (Na) | 47 | 20- 180 | (| — | | | |
| Potassium | (K) | 16 | 9- 80 | | | | | |
| Copper | (Cu) | 10 | 11- 30 | | | | | |
| Zinc | (Zn) | 210 | 130- 200 | | | | | |
| Manganese | (Mn) | 0.08 | 0.08- 0.50 | | | | | |
| Chromium | (Cr) | 0.43 | 0.40- 0.70 | | | | | |
| Vanadium | (V) | 0.30 | 0.018- 0.065 | | | | | |
| Molybdenum | (Mo) | 0.034 | 0.025- 0.060 | | | | | |
| Boron | (B) | 2.8 | 0.40- 3.0 | | | | | |
| lodine | (I) | 1.4 | 0.25- 1.8 | | | | | |
| Lithium | (Li) | < 0.004 | 0.007- 0.020 | | | | | |
| Phosphorus | (P) | 185 | 150- 220 | | - | | | |
| Selenium | (Se) | 3.3 | 0.70- 1.2 | | | | | |
| Strontium | (Sr) | 2.7 | 0.30- 3.5 | | | | | |
| Sulfur | (S) | 47700 | 44000- 50000 | | | | | |
| Cobalt | (Co) | 0.009 | 0.004- 0.020 | | | | | |
| Iron | (Fe) | 8.2 | 7.0- 16 | | | | | |
| Germanium | (Ge) | 0.032 | 0.030- 0.040 | | | | | |
| Rubidium | (Rb) | 0.022 | 0.011- 0.12 | | | | | |
| Zirconium | (Zr) | 0.048 | 0.020- 0.44 | | | | | |

| SPECIMEN DATA | | | RATIOS | | |
|----------------------------|----------------------|----------|--------|---------|--|
| COMMENTS: | | ELEMENTS | RATIOS | RANGE | |
| | | Ca/Mg | 3.28 | 4- 30 | |
| Date Collected: 10/18/2013 | Sample Size: 0.205 g | Ca/P | 2.66 | 0.8- 8 | |
| Date Received: 10/22/2013 | Sample Type: Head | Na/K | 2.94 | 0.5- 10 | |
| Date Completed: 10/25/2013 | Hair Color: Brown | Zn/Cu | 21 | 4- 20 | |
| Methodology: ICP/MS | Treatment: | Zn/Cd | > 999 | > 800 | |
| | Shamnoo Clairol | | | | |

Health history for hair test 871

- 1. What are your current symptoms and health history? Fatigue, chest pains, digestive difficulties (eg diarrhea) increasing over past 5+ years; hair loss; underweight; hypothyroid, possibly adrenal insufficiency.
- 2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) 11 amalgam fillings in 1970s, 80s; extractions for braces in early 1980s; wisdom teeth removed in 90s; two root canals in early 2000s.
- 3. What dental work do you currently have in place? What part of the dental clean-up have you completed? Still have all the amalgams, root canals, and two crowns; no replacements yet.
- 4. What dentistry did your mother have at any time before or during pregnancy? Unknown
- 5. What vaccinations have you had and when (including flu and especially travel shots)? Hepatitis, vellow fever, various others for travel in rural Central and S America; dtap
- 6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? Mg, vit c, d, a, b, probiotics last few months
- 7. What is your age, height and weight? 44; 6'2"; 140 lbs
- 8. Other information you feel may be relevant? Been eating lots of sushi during the past year; broke a Hg thermometer and played with the Hg in my hands when I was a kid. Used dandruff shampoo 1-2 times during past 6 mos. May explain high Selenium
- 9. What is your location city & country (so that we can learn where certain toxins are more prevalent). Grew up in upstate NY