



PATIENT: Number 513
 SEX: Female
 AGE: 24

Toxic & Essential Elements; Hair

| TOXIC METALS | | | |
|----------------------------|----------------|-----------------------|-------------------------------------------------|
| | RESULT µg/g | REFERENCE INTERVAL | PERCENTILE 68 th 95 th |
| Aluminum (Al) | 11 | < 7.0 | |
| Antimony (Sb) | < 0.01 | < 0.050 | |
| Arsenic (As) | 0.052 | < 0.060 | |
| Barium (Ba) | 0.71 | < 2.0 | |
| Beryllium (Be) | < 0.01 | < 0.020 | |
| Bismuth (Bi) | 0.078 | < 2.0 | |
| Cadmium (Cd) | < 0.009 | < 0.050 | |
| Lead (Pb) | 0.04 | < 0.60 | |
| Mercury (Hg) | 0.94 | < 0.80 | |
| Platinum (Pt) | < 0.003 | < 0.005 | |
| Thallium (Tl) | < 0.001 | < 0.002 | |
| Thorium (Th) | < 0.001 | < 0.002 | |
| Uranium (U) | 0.003 | < 0.060 | |
| Nickel (Ni) | 0.10 | < 0.30 | |
| Silver (Ag) | 0.03 | < 0.15 | |
| Tin (Sn) | 0.06 | < 0.30 | |
| Titanium (Ti) | 0.95 | < 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) | 166 | 300- 1200 | |
| Magnesium (Mg) | 21 | 35- 120 | |
| Sodium (Na) | 14 | 20- 250 | |
| Potassium (K) | 5 | 8- 75 | |
| Copper (Cu) | 15 | 11- 37 | |
| Zinc (Zn) | 180 | 140- 220 | |
| Manganese (Mn) | 0.20 | 0.08- 0.60 | |
| Chromium (Cr) | 0.31 | 0.40- 0.65 | |
| Vanadium (V) | 0.075 | 0.018- 0.065 | |
| Molybdenum (Mo) | 0.031 | 0.020- 0.050 | |
| Boron (B) | 1.0 | 0.25- 1.5 | |
| Iodine (I) | 1.7 | 0.25- 1.8 | |
| Lithium (Li) | < 0.004 | 0.007- 0.020 | |
| Phosphorus (P) | 201 | 150- 220 | |
| Selenium (Se) | 0.85 | 0.55- 1.1 | |
| Strontium (Sr) | 0.59 | 0.50- 7.6 | |
| Sulfur (S) | 51500 | 44000- 50000 | |
| Cobalt (Co) | 0.015 | 0.005- 0.040 | |
| Iron (Fe) | 8.4 | 7.0- 16 | |
| Germanium (Ge) | 0.032 | 0.030- 0.040 | |
| Rubidium (Rb) | < 0.003 | 0.007- 0.096 | |
| Zirconium (Zr) | 0.036 | 0.020- 0.42 | |

| SPECIMEN DATA | | RATIOS | |
|---------------------------|----------------------|----------|---------|
| COMMENTS: results checked | | ELEMENTS | RATIOS |
| Date Collected: | Sample Size: 0.164 g | Ca/Mg | 7.9 |
| Date Received: 8/20/2011 | Sample Type: Head | Ca/P | 0.826 |
| Date Completed: 8/25/2011 | Hair Color: | Na/K | 2.8 |
| Methodology: ICP/MS | Treatment: | Zn/Cu | 12 |
| | Shampoo: | Zn/Cd | > 999 |
| | | RANGE | |
| | | | 4- 30 |
| | | | 1- 12 |
| | | | 0.5- 10 |
| | | | 4- 20 |
| | | | > 800 |

Health history for hair test 513

This is my daughters hair test. We live in south Florida. She experiences problems with her monthly cycle that are so bad that we sometimes consider taking her to the emergency room. This started with her first cycle.

She has suffered from painful constipation for most of her life. She suffers from anxiety depression and problems concentrating. She has no amalgams. She was born in 1987 and was required by her doctor as well as the school board to receive a ridiculous amount of vaccinations. Her mother has a similar health history.

Any help understanding this would be most appreciated.