



PATIENT: Number 564  
 SEX: Male  
 AGE: 4

## Toxic & Essential Elements; Hair

| TOXIC METALS               |                |                       |   |
|----------------------------|----------------|-----------------------|---|
|                            | RESULT<br>µg/g | REFERENCE<br>INTERVAL | PERCENTILE<br>68 <sup>th</sup> 95 <sup>th</sup> |
| Aluminum (Al)              | 14             | < 8.0                 |   |
| Antimony (Sb)              | 0.24           | < 0.066               |   |
| Arsenic (As)               | 0.10           | < 0.080               |   |
| Barium (Ba)                | 0.12           | < 0.50                |   |
| Beryllium (Be)             | < 0.01         | < 0.020               |   |
| Bismuth (Bi)               | 0.033          | < 2.0                 |   |
| Cadmium (Cd)               | < 0.009        | < 0.070               |   |
| Lead (Pb)                  | 0.65           | < 1.0                 |   |
| Mercury (Hg)               | 0.08           | < 0.40                |   |
| 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)                | 0.05           | < 0.20                |   |
| Silver (Ag)                | 0.04           | < 0.20                |   |
| Tin (Sn)                   | 0.48           | < 0.30                |   |
| Titanium (Ti)              | 0.41           | < 1.0                 |   |
| Total Toxic Representation |                |                       |   |

| ESSENTIAL AND OTHER ELEMENTS |                |                       |   |
|------------------------------|----------------|-----------------------|---|
|                              | RESULT<br>µg/g | REFERENCE<br>INTERVAL | PERCENTILE<br>2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup> |
| Calcium (Ca)                 | 120            | 125- 370              |   |
| Magnesium (Mg)               | 11             | 12- 30                |   |
| Sodium (Na)                  | 45             | 20- 200               |   |
| Potassium (K)                | 28             | 12- 200               |   |
| Copper (Cu)                  | 8.8            | 11- 18                |   |
| Zinc (Zn)                    | 110            | 100- 190              |   |
| Manganese (Mn)               | 0.09           | 0.10- 0.50            |   |
| Chromium (Cr)                | 0.44           | 0.43- 0.80            |   |
| Vanadium (V)                 | 0.043          | 0.030- 0.10           |   |
| Molybdenum (Mo)              | 0.051          | 0.050- 0.13           |   |
| Boron (B)                    | 3.3            | 0.70- 5.0             |   |
| Iodine (I)                   | 0.33           | 0.25- 1.3             |   |
| Lithium (Li)                 | < 0.004        | 0.007- 0.020          |   |
| Phosphorus (P)               | 147            | 150- 220              |   |
| Selenium (Se)                | 0.66           | 0.70- 1.1             |   |
| Strontium (Sr)               | 0.05           | 0.16- 1.0             |   |
| Sulfur (S)                   | 47600          | 45500- 53000          |   |
| Cobalt (Co)                  | 0.006          | 0.004- 0.020          |   |
| Iron (Fe)                    | 7.2            | 7.0- 16               |   |
| Germanium (Ge)               | 0.027          | 0.030- 0.040          |   |
| Rubidium (Rb)                | 0.033          | 0.016- 0.18           |   |
| Zirconium (Zr)               | 0.037          | 0.040- 1.0            |   |

| SPECIMEN DATA              |                      | RATIOS   |        |         |
|----------------------------|----------------------|----------|--------|---------|
| <b>COMMENTS:</b>           |                      | ELEMENTS | RATIOS | RANGE   |
| Date Collected: 10/17/2011 | Sample Size: 0.196 g | Ca/Mg    | 10.9   | 4- 30   |
| Date Received: 10/24/2011  | Sample Type: Head    | Ca/P     | 0.816  | 0.8- 8  |
| Date Completed: 10/27/2011 | Hair Color: Brown    | Na/K     | 1.61   | 0.5- 10 |
| Methodology: ICP/MS        | Treatment:           | Zn/Cu    | 12.5   | 4- 20   |
|                            | Shampoo: Jj          | Zn/Cd    | > 999  | > 800   |

## **Hair Test 564**

### Current symptoms & history

Seems to have a weak immune system, a new cold every few weeks.  
Has glue ear and had lots of ear infections his first couple of years, resulting in very many courses of antibiotics.  
Candida has been a problem since age 4 mths  
Quite hyperactive with a very short attention span  
Spooning toe nails  
Peeling toes and fingers  
above average verbal skills but often can't remember things

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

None

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

None

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

13 existing amalgam fillings  
some refilled with more amalgam during pregnancy.

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

DTaP, IPV, Hib, Pneumo, MENC, MMR

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

None prior to test  
He is now taking Everything spectrum & Essential 4

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

4 years, 104cm, 2 st 1 lb.

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

Edinburgh UK