

HAIR ELEMENTS



PATIENT: Number 256
SEX: Male
AGE: 4
LOCATION: Lohja, Finland

| POTENTIALLY TOXIC ELEMENTS | | | | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
| | | | 68 th | 95 th |
| Aluminum | 13 | < 8.0 | | |
| Antimony | 0.032 | < 0.066 | | |
| Arsenic | 0.11 | < 0.080 | | |
| Barium | 0.13 | < 0.50 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.20 | < 2.0 | | |
| Cadmium | 0.055 | < 0.070 | | |
| Lead | 0.71 | < 1.0 | | |
| Mercury | 0.31 | < 0.40 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | < 0.001 | < 0.002 | | |
| Thorium | 0.001 | < 0.002 | | |
| Uranium | 0.38 | < 0.060 | | |
| Nickel | 0.10 | < 0.20 | | |
| Silver | 0.05 | < 0.20 | | |
| Tin | 0.15 | < 0.30 | | |
| Titanium | 0.62 | < 1.0 | | |
| Total Toxic Representation | | | | |

| ESSENTIAL AND OTHER ELEMENTS | | | | | | |
|------------------------------|------------------------|-----------------|-------------------|------------------|------------------|------------------|
| ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | | | |
| | | | 2.5 th | 16 th | 50 th | 84 th |
| Calcium | 101 | 125- 370 | | | | |
| Magnesium | 11 | 12- 30 | | | | |
| Sodium | 180 | 20- 200 | | | | |
| Potassium | 260 | 12- 200 | | | | |
| Copper | 23 | 11- 18 | | | | |
| Zinc | 91 | 100- 190 | | | | |
| Manganese | 0.09 | 0.10- 0.50 | | | | |
| Chromium | 0.57 | 0.43- 0.80 | | | | |
| Vanadium | 0.068 | 0.030- 0.10 | | | | |
| Molybdenum | 0.074 | 0.050- 0.13 | | | | |
| Boron | 0.81 | 0.70- 5.0 | | | | |
| Iodine | 0.22 | 0.25- 1.3 | | | | |
| Lithium | 0.006 | 0.007- 0.020 | | | | |
| Phosphorus | 161 | 150- 220 | | | | |
| Selenium | 0.51 | 0.70- 1.1 | | | | |
| Strontium | 0.10 | 0.16- 1.0 | | | | |
| Sulfur | 49000 | 45500- 53000 | | | | |
| Cobalt | 0.006 | 0.004- 0.020 | | | | |
| Iron | 9.7 | 7.0- 16 | | | | |
| Germanium | 0.032 | 0.030- 0.040 | | | | |
| Rubidium | 0.26 | 0.016- 0.18 | | | | |
| Zirconium | 0.040 | 0.040- 1.0 | | | | |

| SPECIMEN DATA | | | | RATIOS | | |
|---------------------------|----------------------|--|--|-----------------|---------------|-----------------------|
| COMMENTS: | | | | ELEMENTS | RATIOS | EXPECTED RANGE |
| Date Collected: 1/13/2009 | Sample Size: 0.204 g | | | Ca/Mg | 9.18 | 4- 30 |
| Date Received: 2/12/2009 | Sample Type: Head | | | Ca/P | 0.627 | 0.8- 8 |
| Date Completed: 2/14/2009 | Hair Color: Blond | | | Na/K | 0.692 | 0.5- 10 |
| Client Reference: | Treatment: | | | Zn/Cu | 3.96 | 4- 20 |
| Methodology: ICP-MS | Shampoo: Moomin | | | Zn/Cd | > 999 | > 800 |

V010.08

Health history for hair test 256 (brother of hair test 257)

Juho, 4 years, old:

1) What are your current symptoms and health history?

He is high functioning autistic or Asperger with some major sensory issues, slow motor development, some obsessive compulsive traits and many food intolerances. Inconsolable from a day old baby, found silent reflux and was on Gaviscon (aluminium!) and other antacids for a year..

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

No dental work done for him.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

None

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

One cavity drilled and filled while in my mouth while about 6-7 months pregnant with Juho (did not know better at that time...) and I have lots of amalgam

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

All his childhood vaccinations including one MMR (don't know about the situation on thimerosal here in Finland) but no flu or travel shots

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

Supplementation for over a year:

- 2 multivitamins a day (incl. Magnesium 180 mg total, zinc 10 mg, manganese 3 mg, selenium 50 microg)
- CLO 5 ml
- zinc 10 mg
- vit c 250 mg
- co Q10 30 mg
- taurine 1000mg
- DMG 90 mg
- Pro-Bio Gold 1 cap
- acetyl l-carnitine 250 mg
- molybdenum stopped two months before
- MB12 shots stopped two months before (two times a week for couple of months used)

on the one chelation round triple amount of vit c, biotin 300 mcg, more selenium and chromium, milk thistle

7) Other information you feel may be relevant?

- is GF/CF

- Supplementation alone has done lot for him, Houston enzymes made him almost "normal" but can't make him cooperate any more and they are too expensive:(

- One round chelation DMSA 6,25 mg done,

our - we had our own bore well when I was pregnant with Juho until Juho was two years old, then mold in next home (stayed there 9 months)

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

Finland, at a town called Lohja 50 kilometers from capital Helsinki

Both of my kids have been very "restless" motorically: while they sit they have been kicking and moving (waivering?) their hands, even as babies. Venla so much that sometimes we have had to keep her body still with our hands to get her to sleep.

I am mostly concerned about Venla because I am sure that with Juho supplementation alone has made him detox better and now chelation is going to also make it better.

I was quite shocked to see Venla's results and now I would really like to know how to make her better. I am mostly concerned about uranium and arsenic in both and also copper, potassium and lithium in Venla. What needs to be supplemented and with what?