

HAIR ELEMENTS



PATIENT: Number 257
SEX: Female
AGE: 2
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	0.031	< 0.066		
Arsenic	0.20	< 0.080		
Barium	0.23	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.018	< 2.0		
Cadmium	0.050	< 0.070		
Lead	0.87	< 1.0		
Mercury	0.11	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.42	< 0.060		
Nickel	0.08	< 0.30		
Silver	0.13	< 0.20		
Tin	0.23	< 0.30		
Titanium	0.51	< 0.90		
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	97.5 th
Calcium	99	140- 500					
Magnesium	9	15- 45					
Sodium	170	18- 180					
Potassium	420	10- 150					
Copper	49	11- 24					
Zinc	50	100- 190					
Manganese	0.09	0.10- 0.50					
Chromium	0.68	0.43- 0.70					
Vanadium	0.10	0.030- 0.10					
Molybdenum	0.061	0.050- 0.13					
Boron	0.95	0.40- 3.5					
Iodine	0.27	0.25- 1.3					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	155	150- 220					
Selenium	0.61	0.70- 1.1					
Strontium	0.08	0.19- 2.0					
Sulfur	50600	45500- 53000					
Cobalt	0.006	0.005- 0.030					
Iron	11	7.0- 16					
Germanium	0.031	0.030- 0.040					
Rubidium	0.30	0.012- 0.16					
Zirconium	0.11	0.030- 1.0					

SPECIMEN DATA

COMMENTS:

Date Collected: 1/13/2009 Sample Size: 0.201 g
 Date Received: 2/12/2009 Sample Type: Head
 Date Completed: 2/14/2009 Hair Color: Blond
 Client Reference: Treatment:
 Methodology: ICP-MS Shampoo: Moomin

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	11	4- 30
Ca/P	0.639	1- 12
Na/K	0.405	0.5- 10
Zn/Cu	1.02	4- 20
Zn/Cd	> 999	> 800

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

Venla, two years, old:

1) What are your current symptoms and health history?

She is neurotypical, lots of food intolerances, very limited diet, no milk, no grains (other than rice), no soy. Very very moody, lots and lots of temperament (is sometimes angry even in her sleep). Reflux also as a symptom of food allergy so has reflux medication, has Zyrtec twice a day but no IgE allergies, no diagnosed asthma but some asthma symptoms so has inhaled asthma medication. Gets colds very often.

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

No dental work done.

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?
Mouth full of amalgam but no dental operations

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

All the childhood vaccinations but no MMR, no flu shots 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.

- Only one multivitamin a day (see Juho so half amount of the mentioned substances)
- elemental calcium 300mg
- Zantac (ranitidin) 32 mg twice a day
- Zyrtec (cetirizin) 2,5 mg twice a day
- Seretide inhalation twice a day (salmeterol 25 microg, fluticason. propion. 125 microg)

7) Other information you feel may be relevant?

- No chelation.

- Has been very sensitive to "everything" there has been many medications she can't tolerate. She gets very hyperactive on lots of things. Wheat made her cry for a week....

- we had our own bore well when I was pregnant with Juho until Juho was two years old, then mold in our 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?