



PATIENT: Number 779
 SEX: Male
 AGE: 7

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	19	< 8.0	
Antimony (Sb)	0.034	< 0.066	
Arsenic (As)	0.036	< 0.080	
Barium (Ba)	1.0	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.030	< 2.0	
Cadmium (Cd)	0.047	< 0.070	
Lead (Pb)	1.6	< 1.0	
Mercury (Hg)	0.84	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.009	< 0.060	
Nickel (Ni)	0.43	< 0.20	
Silver (Ag)	1.4	< 0.14	
Tin (Sn)	0.29	< 0.30	
Titanium (Ti)	0.41	< 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)	637	160- 500			
Magnesium (Mg)	140	12- 50			
Sodium (Na)	62	20- 200			
Potassium (K)	76	12- 140			
Copper (Cu)	63	11- 32			
Zinc (Zn)	500	110- 190			
Manganese (Mn)	0.35	0.08- 0.50			
Chromium (Cr)	0.43	0.40- 0.70			
Vanadium (V)	0.083	0.025- 0.10			
Molybdenum (Mo)	0.070	0.040- 0.090			
Boron (B)	5.1	0.50- 3.5			
Iodine (I)	27	0.25- 1.3			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	136	150- 220			
Selenium (Se)	0.73	0.70- 1.1			
Strontium (Sr)	2.9	0.21- 2.1			
Sulfur (S)	46200	44000- 51000			
Cobalt (Co)	0.022	0.004- 0.020			
Iron (Fe)	12	7.0- 16			
Germanium (Ge)	0.027	0.030- 0.040			
Rubidium (Rb)	0.099	0.008- 0.080			
Zirconium (Zr)	0.054	0.060- 0.70			

SPECIMEN DATA		RATIOS	
COMMENTS: results checked		ELEMENTS	RATIOS
Date Collected: 04/30/2013	Sample Size: 0.201 g	Ca/Mg	4.55
Date Received: 05/07/2013	Sample Type: Head	Ca/P	4.68
Date Completed: 05/12/2013	Hair Color: Brown	Na/K	0.816
Methodology: ICP/MS	Treatment:	Zn/Cu	7.94
	Shampoo: Organic Natural	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Health history for hair test 779

1. What are your current symptoms and health history?

My son has ADHD and is borderline on aspergers. He has serious attention issues and is very impulsive.

-sensory seeking, crashing into walls & people, swatting with his hands
-other "stimming" behaviors include arm flapping, toe walking, teeth clenching and grinding

-multiple food intolerances/allergies, including casein (dx when 4mo and nursing only), gluten, soy, beef, sulfites, oats, peas

-allergy symptoms such as dark circles, always tired, post nasal drip seemingly constant

-eczema of varying severity on torso, legs

-itchy legs, feet, torso. Constantly scratching.

-some gut issues (constipation), but largely controlled through restrictive diet and probiotics. had blood in stool at 4mo, which cleared with removal of dairy from mother's diet while nursing.

-social issues - difficulty relating to other children, can't stand any kind of large group setting and will do best to escape, check out, etc.

-poor motor coordination, both fine and gross motor. Has great difficulties writing & drawing. Way behind peers in terms of physical coordination.

-makes loud noises (screeching, sirens) seemingly to cope with stressful situation

-late talker (first words at 24 months)

-difficult sleeper - can't get to sleep, can't stay asleep (frequent night waking)

-defiant, challenging personality - very intense and emotional

-depressive behavior & moods- talks about death and dying way too much for a 7yo

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

-one small cavity, filled with composite about 2 years ago.

-no other dental work

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

-just the single composite filling. No cleanup required

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

-single amalgam filling

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

-full vaccination schedule up to age 6, including:
DTAP (through pediatrix)
MMR (though didn't get booster because titres were enough)
Hep B (through pediatrix)
Hep A
IPV (through pediatrix)
Pevnar
chicken pox
Hib
PPD (not sure what this is, but it's on the vaccination record)
flu shot (2 only)

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

-fish oils (1 capsule)
-CLO (1 capsule)
-probiotics, biokult 4 capsules/day
-magnesium 150mg
-vitamin C 200mg

7. What is your age, height and weight?

My son is 7yo, about 4'2" and 50 lbs

8. Other information you feel may be relevant?

I had a flu shot while my son was in utero on the advice of my OB and I nursed my son for a very long time. (3+ years) I am mercury toxic.

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

Born and lives in Washington, DC.