



PATIENT: Number 806
 SEX: Male
 AGE: 4

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	5.1	< 8.0	
Antimony (Sb)	0.057	< 0.066	
Arsenic (As)	0.093	< 0.080	
Barium (Ba)	0.26	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.030	< 2.0	
Cadmium (Cd)	0.023	< 0.070	
Lead (Pb)	2.1	< 1.0	
Mercury (Hg)	0.31	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.020	< 0.060	
Nickel (Ni)	0.08	< 0.20	
Silver (Ag)	0.10	< 0.20	
Tin (Sn)	0.12	< 0.30	
Titanium (Ti)	0.68	< 1.0	
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)	144	125- 370			
Magnesium (Mg)	14	12- 30			
Sodium (Na)	22	20- 200			
Potassium (K)	69	12- 200			
Copper (Cu)	22	11- 18			
Zinc (Zn)	110	100- 190			
Manganese (Mn)	0.15	0.10- 0.50			
Chromium (Cr)	0.43	0.43- 0.80			
Vanadium (V)	0.045	0.030- 0.10			
Molybdenum (Mo)	0.093	0.050- 0.13			
Boron (B)	0.78	0.70- 5.0			
Iodine (I)	0.59	0.25- 1.3			
Lithium (Li)	0.005	0.007- 0.020			
Phosphorus (P)	164	150- 220			
Selenium (Se)	0.73	0.70- 1.1			
Strontium (Sr)	0.15	0.16- 1.0			
Sulfur (S)	48200	45500- 53000			
Cobalt (Co)	0.007	0.004- 0.020			
Iron (Fe)	11	7.0- 16			
Germanium (Ge)	0.035	0.030- 0.040			
Rubidium (Rb)	0.090	0.016- 0.18			
Zirconium (Zr)	1.0	0.040- 1.0			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 06/27/2013		Ca/Mg	10.3	4- 30
Date Received: 07/01/2013		Ca/P	0.878	0.8- 8
Date Completed: 07/03/2013		Na/K	0.319	0.5- 10
Methodology: ICP/MS		Zn/Cu	5	4- 20
Sample Size: 0.198 g		Zn/Cd	> 999	> 800
Sample Type: Head				
Hair Color: Brown				
Treatment:				
Shampoo:				

Health history for hair test 806

What are your current symptoms and health history?

My son, 4yo, has been "labeled" with sensory integration issues. He also has delayed speech and is in therapy. The stressor on the family is his jekyll/hyde mood behavior shift. One moment he's a loving child, the next he gets this look in his eye, his jaw sets and he's a terror. From ramming into his 7 month sister, to slamming into the dog. Lately he's taken to kicking, spitting and hitting us for disciplinary actions (like taking away a plane because it's making too much noise). We recently faded biting behavior though he still asks for a "teether" at stressful moments to bit (At least it's not human skin!). We have aggression, a beautiful memory coupled with absent mindedness and forgetfulness. We have daily tantrums/meltdowns for no logical reasons. Our logical son has disappeared. He has an inability to moderate himself. When he has too much love (towards sister) or has been patient for 2+ hours waiting for sister to wake up (he wakes at 5-6am) and then he lets loose, he goes crazy and self-control/impulse control/restraint vanishes. Spacy, no eye contact, doesn't listen, in his own world. At night due to anxiety or inability to calm self, he has a lot of self-destructive behavior from picking skin/scabs/fingers/cuticles.

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

None. Virgin mouth :)

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

None. He's been to the dentist once for an intro cleaning

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

None

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

None. Mom was overvaccinated 4-5 years prior to birth due to international travels.

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

DMG 1/2-1 t daily (3-4 weeks) (behavior balance which includes folic acid & B6)
Adrenal Cortex support 2 drops/day
Melatonin (for past 2 weeks)
Helichrysum essential oil (for CNS support)
Probiotic
CLO

Other information you feel may be relevant?

We eat local, sustainable, organic foods. We do not do processed foods (excluding snack at school 3x week). We do eat rice (Arsenic source?). The garden (pesticide free, etc) is also a former "playground" setback into a hill with pressure treated wood (25 years old – still an arsenic source?). He loves mussels – eats them monthly when we're at restaurants to avoid the kiddie menu (copper?), No idea where to start on the lead... house is 30 years old!? No paint, chemical, environmental issues as far as I know..... Toys for most part are not from china, 60% wood or other european brand. He has never been a mouther in any case so it's getting in via food or skin. Have a water filter (multi-pure), thinking maybe we need to do a house filter, but not yet in.

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

Twin Cities, MN USA