

SEX: Male AGE: 11

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	1.6	< 8.0			
Antimony	(Sb)	< 0.01	< 0.066			
Arsenic	(As)	0.030	< 0.080			
Barium	(Ba)	0.10	< 0.75			
Beryllium	(Be)	0.47	< 0.020			
Bismuth	(Bi)	0.005	< 2.0	•		
Cadmium	(Cd)	< 0.009	< 0.070			
Lead	(Pb)	0.45	< 1.0			
Mercury	(Hg)	< 0.03	< 0.40			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	0.001	< 0.002			
Uranium	(U)	0.15	< 0.060			
Nickel	(Ni)	0.04	< 0.20			
Silver	(Ag)	0.22	< 0.14			
Tin	(Sn)	0.04	< 0.30			
Titanium	(Ti)	0.11	< 0.70			
Total Toxic Representation	n	_	·			

Total Toxio Representa						
ESSENTIAL AND OTHER ELEMENTS						
		RESULT	REFERENCE	PERCENTILE		
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th		
Calcium	(Ca)	110	160- 500			
Magnesium	(Mg)	32	12- 50			
Sodium	(Na)	60	20- 200	•		
Potassium	(K)	3	12- 140			
Copper	(Cu)	43	11- 32			
Zinc	(Zn)	200	110- 190			
Manganese	(Mn)	0.30	0.08- 0.50			
Chromium	(Cr)	0.38	0.40- 0.70			
Vanadium	(V)	0.012	0.025- 0.10			
Molybdenum	(Mo)	0.038	0.040- 0.090			
Boron	(B)	0.24	0.50- 3.5			
lodine	(I)	0.40	0.25- 1.3			
Lithium	(Li)	0.008	0.007- 0.020			
Phosphorus	(P)	123	150- 220			
Selenium	(Se)	0.80	0.70- 1.1			
Strontium	(Sr)	0.09	0.21- 2.1			
Sulfur	(S)	48200	44000- 51000	-		
Cobalt	(Co)	0.008	0.004- 0.020			
Iron	(Fe)	5.7	7.0- 16			
Germanium	(Ge)	0.037	0.030- 0.040			
Rubidium	(Rb)	0.007	0.008- 0.080			
Zirconium	(Zr)	0.20	0.060- 0.70			

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	3.44	4- 30	
Date Collected: 01/02/2017	Sample Size: 0.2 g	Ca/P	0.894	0.8- 8	
Date Received: 01/09/2017	Sample Type: Head	Na/K	20	0.5- 10	
Date Completed: 01/11/2017	Hair Color: Blond	Zn/Cu	4.65	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo Avalon Organics				

What are your current symptoms and health history?

Skeletal spasticity, stiffness, weakness, easily fatigues, does not complain of pain per se but extreme muscle stiffness that causes his legs and arms to just give out. He crumples to the floor. During bowling his arm and hand has behave the same way, he just drops the ball. Symptoms started after DTAP injection in 2011.

Poor recovery after exercise, extremely slow. Energy failure both physically and mentally with coordination type exercises.

Suffered from frequent respiratory infections when younger. Lived off of antibiotics until tonsils removed in 2008 at age 3. Since supplementing with vitamins/minerals and Mannatech Ambrotose infections have reduced.

Eczema- started developing eczema type rash on elbows and behind knees after being injected several times with candida for a wart on the bottom of his foot. His foot bled after the injections. Could the candida be in his blood? Have not been able to link outbreaks to any foods as of yet, but I suspect milk chocolate in too large of quantities.

Insomnia- stays up until 2:00 am and sleeps until 11:00 am or noon- we homeschool thankfully Nose bleeds- just recently and occasional 2 past concussions age 4-6 Dental plague

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

No cavities. Had braces on for 9 months to fix front teeth. Most likely will need braces in the future for under bite and crowding.

What dental work do you currently have in place? What part of the dental cleanup have you completed? None

What dentistry did your mother have at any time before or during pregnancy? Mother had 8 or 10 amalgams removed 3 years prior to getting pregnant. No chelation. Improper removal. Mother has numerous root canals and many composites during pregnancy. No dental work during pregnancy, possibly a cleaning.

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

3 Hep B 2006

5 DTAP - 3 in 2005, 1 in 2006, 1 in 2011

3 HIB - 2 in 2005, 1 in 2006

3 IPV - 2 in 2005, 1 in 2006

1 MMR - 2006

1 Varicella in 2006

4 Pneumococcal

1 Flu 2007

Other information you feel may be relevant?

Toxic Urine test – challenged showed very high copper and antimony in July 2016 (I will never do this test again)

Mother took many prescription medications through pregnancy including Oxycontin, muscle relaxers, ibuprofen, and anxiety medication. Mother has been in chronic pain for 21 years. Home water tests are clean

MTHFR- Homozygous C677T, VDR, MAO and Heterozygous A1298C and numerous other SNP's

Copper serum 106 normal

RBC Copper .71 normal

RBC Zinc 8.9 LOW just outside of range

RBC Mag normal

Calcium normal

Vitamin D 28

Potassium serum 4.2 normal

CRP, SED, and CPK normal

Glutathione serum 564 normal but lower end of the range

TSH 1.56 normal, Free T3 4.0 normal, Free T4 .9 normal, Thyroid antibodies 1 normal- tested in July 2016

Iodine showed low in serum

Iron, Ferritin, TIBC Normal

Negative for H-pylori serum test

Food Allergy test showed low IGE allergies to beef and lamb but IGG on almost every other food, Gluten free, 90% dairy free, very limited eater.

Have 2 Organic Acid Tests if anything is helpful on those tests

What is your location - Manitou Springs, Colorado

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

6 Months before:

- 1. Mannatech Advanced Ambrotose: 2-4 grams daily current
- 2. Mannatech Plus **Current** -Wild Yam Extract 200 mg Standardized to 12.5% Diosgenin 25 mg, L-Glutamic Acid 200 mg, Glycine 200 mg, L-Lysine (as L-Lysine HCl) 200 mg, L-Arginine (as L-Arginine HCl) 95 mg, Beta-Sitosterol (from plant sterols) 25 mg, Ambrotose® complex (patent pending) 2.5 mg, Arabinogalactan (from Larix spp. wood), Aloe Vera (inner leaf gel powder), Ghatti Gum, Gum Tragacanth, Boron 1 mg
- Vital Nutrients- Vital Brain Powder Acetyl L-Carnitine HCI 850mg, GlyceroPhosphoCholine GPC 600mg, PhosphatidylSerine PS 150mg Current
- 4. ProArgi twice daily- Vit C 60mg, Vit D3 2500, Vit K 20mcg, Vit B6 2mg, Vit B12 6mcg, Folate 200mcg, Proprietary Blend 6.5 mg: L-Arginine, Pomegranite Fruit, L-Citrulline, D-Ribose, Grape Skin Extract, Red Vine Extract Occasionally in the last 3 months
- 5. Vit. C 500mg daily current
- 6. Vit. B Complex SRT current
- 7. Magnesium 150-300mg daily SRT and ionic in water SRT current
- 8. Fish Oil DHA 550mg EPA 800mg other 250mg current
- 9. Cod Liver Oil- Rosita 1 tsp daily current
- 10. Ubiquinol 100mg current
- 11. Vit E D-Alpha 45iu, Gamma E Mixed Tocopherols 360mg & Tocotrienols 145mg current
- 12. Intramax Mulit Vitamin- discontinued 3 month ago Taking All In One by Amy Yasko Holistic Health
- 13. Vit D 5000 iu with K2 400mcg stopped 3 months ago
- 14. Calcium 500mg stopped 3 months ago
- 15. Maxi High by Food Science- L-Glutamine 6g, L-Arginine 1g, L-Ornithine 1g, L-Lysine 1,250mg, Glycine 1g- stopped 3 months ago
- 16. Taurine 500mg just started
- 17. Boron 1.5 mg just started
- 18. Potassium 500 mg over the day just started

19. Adrenal Complex by	Thorne just started		