

HAIR ELEMENTS



PATIENT: Number 229

SEX: Male

AGE: 4

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.6	< 8.0		
Antimony	0.057	< 0.066		
Arsenic	0.14	< 0.080		
Barium	0.12	< 0.50		
Beryllium	< 0.01	< 0.020		
Bismuth	0.029	< 2.0		
Cadmium	< 0.009	< 0.070		
Lead	0.32	< 1.0		
Mercury	0.43	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.010	< 0.060		
Nickel	0.15	< 0.20		
Silver	0.01	< 0.20		
Tin	0.23	< 0.30		
Titanium	0.53	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS						
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE			97.5 th
			2.5 th	16 th	50 th	
Calcium	263	125- 370				
Magnesium	22	12- 30				
Sodium	45	20- 200				
Potassium	81	12- 200				
Copper	8.9	11- 18				
Zinc	180	100- 190				
Manganese	0.07	0.10- 0.50				
Chromium	0.40	0.43- 0.80				
Vanadium	0.042	0.030- 0.10				
Molybdenum	0.047	0.050- 0.13				
Boron	4.2	0.70- 5.0				
Iodine	0.86	0.25- 1.3				
Lithium	0.004	0.007- 0.020				
Phosphorus	156	150- 220				
Selenium	0.97	0.70- 1.1				
Strontium	0.27	0.16- 1.0				
Sulfur	43100	45500- 53000				
Cobalt	0.004	0.004- 0.020				
Iron	8.6	7.0- 16				
Germanium	0.027	0.030- 0.040				
Rubidium	0.11	0.016- 0.18				
Zirconium	0.34	0.040- 1.0				

SPECIMEN DATA			RATIOS		
COMMENTS: 0166593					
Date Collected: 12/5/2008	Sample Size: 0.197 g		ELEMENTS	RATIOS	EXPECTED RANGE
Date Received: 12/11/2008	Sample Type: Head		Ca/Mg	12	4- 30
Date Completed: 12/13/2008	Hair Color:		Ca/P	1.69	0.8- 8
	Treatment:		Na/K	0.556	0.5- 10
Methodology: ICP-MS	Shampoo:		Zn/Cu	20.2	4- 20
			Zn/Cd	> 999	> 800

V10.08

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Health history for hair test 229

This is for my 4.5yo son. He was diagnosed with a mild Sensory Processing Disorder (previously known as Sensory Integration Disorder). He's always seemed healthy except for a few "quirks" due to his sensory issues. Recently his behavioral problems became uncontrollable (rage, violence, etc), and anti-fungal protocol took care of that problem very nicely. He's always had sleep problems since birth. He had food allergies as an infant but outgrew them after 2 years. He has some environmental/seasonal/animal allergies now (not tested), but not severe. He gets nosebleeds, and I attributed to his low copper levels (which I was right), so he doesn't receive any extra zinc supplements.

He has no dental fillings.

He's had one dental checkup so far. They just polished his teeth.

I (mother) had 8 amalgam fillings during pregnancy. I don't think I had any dental work done during pregnancy (just routine cleanings), but I might've had one amalgam filling replaced with a composite while I was nursing him. I avoided most fish and shellfish. I nursed him for 1 year.

He is currently up-to-date on all his shots. Before I knew any better I let them do 4-5 vaccinations at once. He's always received thimerosal-free vaccines that I know of. After he turned 1 year, and I learned about dangers, I started to space them out. He didn't receive his MMR until 3 years. No flu shots ever.

His supplements were:

Yummi Bears Multi-Vitamin, 3 daily (I will be changing this to something else without zinc)

Yummi Bears Whole Foods Supplement, 0-3 daily

Calcium (he's not a big dairy eater), around 500mg

Magnesium (usually a cal/mag supplement, around 100-200mg)

Vitamin C, about 100-150mg

Probiotics (not sure on the dosage)

Transfer Factor

Nutrition Now Omega 3, 2 daily

Grapefruit Seed Extract, 30mg (for about 3 weeks)

He currently started on biotin 300mg/day (after hair test).

I just switched from non-stick cookware to nickel-free stainless steel and cast iron. A few weeks ago I wrapped his mattress which has a memory foam topper with food-grade polyethylene. We avoid unsafe plastic. We're going to use organic products for lawn care (I was always careful to not let him out after fertilization, etc, but I can't always see when the neighbors fertilize).

He eats fish (no predatory fish) and shellfish once every 1-2 weeks. He doesn't have a perfect diet (doesn't like veggies), but he does eat plenty of meats, eggs, and fruits as well as carby junk foods... I'm trying to go all organic. He likes to play with coins a lot... We had our house painted gradually over the last 2 years. Last one was in the summer. I hardly use shampoo on his hair, and he hardly uses soap.

We moved from Chicago suburbs to suburbs of Toledo 2 years ago. From what I heard there's a coal-burning power plant up north that we get exposed to slightly.

I co-sleep with him with my amalgams in my teeth, and I grind my teeth at night (I wear a nightguard). Could he be inhaling mercury vapors from me? I'm in the process of getting my amalgams replaced, and I think we will be chelating together.