



PATIENT: Number 680
 SEX: Female
 AGE: 4

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	7.8	< 8.0	
Antimony (Sb)	0.025	< 0.066	
Arsenic (As)	0.10	< 0.080	
Barium (Ba)	0.27	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.098	< 2.0	
Cadmium (Cd)	0.042	< 0.070	
Lead (Pb)	0.52	< 1.0	
Mercury (Hg)	0.51	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.002	< 0.002	
Uranium (U)	0.17	< 0.060	
Nickel (Ni)	0.07	< 0.30	
Silver (Ag)	0.13	< 0.20	
Tin (Sn)	0.25	< 0.30	
Titanium (Ti)	0.44	< 0.90	
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)	159	140- 500			
Magnesium (Mg)	37	15- 45			
Sodium (Na)	97	18- 180			
Potassium (K)	79	10- 150			
Copper (Cu)	10	11- 24			
Zinc (Zn)	98	100- 190			
Manganese (Mn)	0.35	0.10- 0.50			
Chromium (Cr)	0.59	0.43- 0.70			
Vanadium (V)	0.10	0.030- 0.10			
Molybdenum (Mo)	0.045	0.050- 0.13			
Boron (B)	4.3	0.40- 3.5			
Iodine (I)	1.9	0.25- 1.3			
Lithium (Li)	0.011	0.007- 0.020			
Phosphorus (P)	129	150- 220			
Selenium (Se)	0.76	0.70- 1.1			
Strontium (Sr)	0.17	0.19- 2.0			
Sulfur (S)	45100	45500- 53000			
Cobalt (Co)	0.009	0.005- 0.030			
Iron (Fe)	15	7.0- 16			
Germanium (Ge)	0.029	0.030- 0.040			
Rubidium (Rb)	0.11	0.012- 0.16			
Zirconium (Zr)	0.083	0.030- 1.0			

SPECIMEN DATA		RATIOS	
COMMENTS: results checked		ELEMENTS	RATIOS
Date Collected: 10/17/2012	Sample Size: 0.197 g	Ca/Mg	4.3
Date Received: 10/22/2012	Sample Type: Head	Ca/P	1.23
Date Completed: 10/27/2012	Hair Color: Brown	Na/K	1.23
Methodology: ICP/MS	Treatment:	Zn/Cu	9.8
	Shampoo: Dr Bronners	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 680

1. What are your current symptoms and health history?

This is my daughter's hair test. Sophie is 4.5y/o, she had failure to thrive due to insufficient lactation on my part and was approximately 75% formula fed, 25% breastmilk fed. She had gut issues (constipation) when she was younger and then grain/dairy allergies as she grew older. Everything was always just under the radar, most of the allergies were based on my intuition and assessing her mood/irritability after she ate. She is currently on the GAPS diet and is doing really well (although sometimes I go back and forth with whether eggs are an issue or not). Chronic issues: hard to fall asleep at night; wakes up at least 1x per night; dark stains under her eyes; hypoglycemia (I think).

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

None - she had a couple dental visits where they used fluoride, but other than that we've steered clear of fluoride and dentists

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

None

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

I had 4 amalgams in prior to pregnancy; 1 dental cleaning during pregnancy (and boy after that appointment I couldn't even drive home. I now wonder if it was the Hg exposure to the office that made me so loopy??). I had one tetnus shot a few months before conception. I also have pretty bad Hg poisoning from allergy shots.

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

None

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

Iodine - 1 drop Lugol's 2%; 1 brazil nut for selenium; 3 baby scoops Custom Probiotics; spoonful fermented cod liver oil; alma powder/acerola powder in fresh juice (1 C juice per day)

7. What is your age, height and weight?

4.5years old; ~34 lbs

8. Other information you feel may be relevant?

It looks to me like her minerals are in order and that her Hg/Al/As/Ur are elevated (I think Al is close enough). Does this mean the Hg is being excreted, or do we need to chelate to get it out? Also, I am a little concerned about her lead results just because lead freaks me out - I am wondering if I should do both DMSA and ALA for her (to get that lead down) or just start with ALA and reassess after several months? Also, any advice on supplementing would be awesome, I will probably ask in a further post too. I tried to explain all this to my husband about how we can look at this graph and KNOW that Hg is elevated because the minerals are not deranged. He seems to be confused - anything anyone can say that will tell him, "Yes, this little girl has Hg poisoning and needs to get it out!!!" would just be so helpful to me.

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

are more prevalent).

We are in Kettle Falls, WA, a very high Uranium area.