



PATIENT: Number 685  
 SEX: Male  
 AGE: 3

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	6.0	< 8.0	
Antimony (Sb)	0.084	< 0.066	
Arsenic (As)	0.32	< 0.080	
Barium (Ba)	0.40	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.058	< 2.0	
Cadmium (Cd)	0.11	< 0.070	
Lead (Pb)	1.6	< 1.0	
Mercury (Hg)	0.61	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.029	< 0.060	
Nickel (Ni)	0.15	< 0.20	
Silver (Ag)	0.41	< 0.20	
Tin (Sn)	0.53	< 0.30	
Titanium (Ti)	0.44	< 1.0	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	236	125- 370			
Magnesium (Mg)	20	12- 30			
Sodium (Na)	200	20- 200			
Potassium (K)	240	12- 200			
Copper (Cu)	12	11- 18			
Zinc (Zn)	56	100- 190			
Manganese (Mn)	0.70	0.10- 0.50			
Chromium (Cr)	0.65	0.43- 0.80			
Vanadium (V)	0.099	0.030- 0.10			
Molybdenum (Mo)	0.060	0.050- 0.13			
Boron (B)	42	0.70- 5.0			
Iodine (I)	8.0	0.25- 1.3			
Lithium (Li)	0.032	0.007- 0.020			
Phosphorus (P)	158	150- 220			
Selenium (Se)	0.77	0.70- 1.1			
Strontium (Sr)	0.23	0.16- 1.0			
Sulfur (S)	47200	45500- 53000			
Cobalt (Co)	0.013	0.004- 0.020			
Iron (Fe)	13	7.0- 16			
Germanium (Ge)	0.033	0.030- 0.040			
Rubidium (Rb)	0.37	0.016- 0.18			
Zirconium (Zr)	0.11	0.040- 1.0			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 11/01/2012		Ca/Mg	11.8
Date Received: 11/06/2012		Ca/P	1.49
Date Completed: 11/08/2012		Na/K	0.833
Methodology: ICP/MS		Zn/Cu	4.67
Sample Size: 0.203 g	Sample Type: Head	Zn/Cd	509
Hair Color: Brown	Treatment:		
Shampoo: Dr Bronners			
		<b>RANGE</b>	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

## **Health history for hair test 685**

### **What are your current symptoms and health history?**

He is 3 years old. He has eczema and food allergies that are being controlled through diet (we are on GAPS).

He vomits when he has eggs and in Apr developed a stutter that worsens when he has whey.

He seems to have some IBS issues (we all have some sort of gut issue). He isn't potty trained, so it's a little bit harder to tell.

Allergies "seasonal" and not sure about allergy to the dog yet.

Intermittent heart palpitations (usually can be heard when he's sick)

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

Pushed baby tooth back up when he was a year and a half (dentist lasered the site), but no other history

### **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 have Hg poisoning (through allergy shots). I had 4 amalgams in prior to conception and visited the dentist 1x while pregnant

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

No vaccinations

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

Iodine (which we will be discontinuing)

Probiotics (3 baby scoops Custom Probiotics)

Fermented Cod Liver Oil

Vit D3

### **7. What is your age, height and weight?**

3y/o; ~34lbs;

### **8. Other information you feel may be relevant?**

It doesn't look to me like he meets the counting rules, and also I think he's high in iodine b/c of the supplement. But then his Hg is over 65%, along with elevated antimony, arsenic, lead, cadmium, silver & tin. So some of these roll together, does that suggest Hg poisoning? If it's coming out of his hair is he toxic? And if not, I still need to do something for the lead, and ARSENIC too for crying out loud? That would be DMSA for lead and ALA for arsenic, so it almost doesn't matter he's either Hg poisoned or just lead and arsenic, or all 3 because the treatment is the same. Now I think I should put my daughter on the DMSA/ALA combo too (I was just going to do the ALA for her). Oh, another thing is that we live in a high uranium area - both my daughter and my test showed very elevated uranium whereas Spencer's isn't. So I'm wondering what that means - is Hg involved messing it up?

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

Kettle Falls, WA, USA (high Uranium area)