



PATIENT: Number 611  
 SEX: Male  
 AGE: 2

### Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)		36	< 8.0	
Antimony (Sb)		0.055	< 0.066	
Arsenic (As)		0.020	< 0.080	
Barium (Ba)		0.57	< 0.50	
Beryllium (Be)		< 0.01	< 0.020	
Bismuth (Bi)		0.91	< 2.0	
Cadmium (Cd)		0.038	< 0.070	
Lead (Pb)		1.7	< 1.0	
Mercury (Hg)		0.12	< 0.40	
Platinum (Pt)		< 0.003	< 0.005	
Thallium (Tl)		< 0.001	< 0.002	
Thorium (Th)		< 0.001	< 0.002	
Uranium (U)		0.043	< 0.060	
Nickel (Ni)		0.23	< 0.20	
Silver (Ag)		0.09	< 0.20	
Tin (Sn)		0.55	< 0.30	
Titanium (Ti)		0.68	< 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)		181	125- 370		
Magnesium (Mg)		21	12- 30		
Sodium (Na)		13	20- 200		
Potassium (K)		5	12- 200		
Copper (Cu)		49	11- 18		
Zinc (Zn)		160	100- 190		
Manganese (Mn)		0.26	0.10- 0.50		
Chromium (Cr)		0.46	0.43- 0.80		
Vanadium (V)		0.037	0.030- 0.10		
Molybdenum (Mo)		0.077	0.050- 0.13		
Boron (B)		0.28	0.70- 5.0		
Iodine (I)		1.7	0.25- 1.3		
Lithium (Li)		0.010	0.007- 0.020		
Phosphorus (P)		143	150- 220		
Selenium (Se)		0.93	0.70- 1.1		
Strontium (Sr)		0.25	0.16- 1.0		
Sulfur (S)		46900	45500- 53000		
Cobalt (Co)		0.038	0.004- 0.020		
Iron (Fe)		13	7.0- 16		
Germanium (Ge)		0.030	0.030- 0.040		
Rubidium (Rb)		0.003	0.016- 0.18		
Zirconium (Zr)		0.96	0.040- 1.0		

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 12/14/2011		Ca/Mg	8.62
Date Received: 12/19/2011		Ca/P	1.27
Date Completed: 12/22/2011		Na/K	2.6
Methodology: ICP/MS		Zn/Cu	3.27
Sample Size: 0.203 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Blond	Treatment:		
Shampoo:			
		<b>RANGE</b>	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	

## **Hair Test History 611**

**What are your current symptoms and health history?** Non-verbal, main stim is flapping of right arm, occasionally spins in circles, lack of eye contact and sensitive skin, but generally happy. Born at home at 41 week and 3 days, no major health issues except for a boil on the back of his neck at a month. Regression after 1 year shots, which took place at approximately 13 months (had a few words, now has none). Suffers inconsistent bowels that have been helped by going GF/CF, but still a work in progress doesn't have a huge issue with sound, light, etc.

**Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** No dental work done as of yet.

**What dental work do you currently have in place? What part of the dental clean-up have you completed?** Same as above.

**What dentistry did your mother have at any time before or during pregnancy?** Mother has two bridges in her mouth (front 6 teeth, she was born without both her Maxillary lateral incisors). No silver fillings that she is aware of, but she did have braces for 4 years.

**What vaccinations have you had and when (including flu and especially travel shots)?** No flu or travel shots, received all vaccines from birth to 12 months, approximately 1 month behind. Mother had H1N1 shot at approximately 36 weeks gestation.

**Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** 1 tbs. of fish oil, 2 tbs. of HMF probiotic, and Unda #8

**What is your age, height and weight?** at the time of the test he was just under 25 months, 36 inches, and 30 lbs.

**Other information you feel may be relevant?** In the process of being diagnosed with an ASD.

**What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Maple Ridge, BC Canada.