



PATIENT: Number 536
 SEX: Male
 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)	0.056	< 0.066	
Arsenic (As)	0.11	< 0.080	
Barium (Ba)	0.21	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.027	< 2.0	
Cadmium (Cd)	0.017	< 0.070	
Lead (Pb)	1.7	< 1.0	
Mercury (Hg)	< 0.03	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.030	< 0.060	
Nickel (Ni)	0.14	< 0.20	
Silver (Ag)	0.26	< 0.20	
Tin (Sn)	0.26	< 0.30	
Titanium (Ti)	0.77	< 1.0	
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)	249	125- 370			
Magnesium (Mg)	23	12- 30			
Sodium (Na)	250	20- 200			
Potassium (K)	190	12- 200			
Copper (Cu)	10	11- 18			
Zinc (Zn)	49	100- 190			
Manganese (Mn)	0.17	0.10- 0.50			
Chromium (Cr)	0.82	0.43- 0.80			
Vanadium (V)	0.16	0.030- 0.10			
Molybdenum (Mo)	0.059	0.050- 0.13			
Boron (B)	2.5	0.70- 5.0			
Iodine (I)	0.77	0.25- 1.3			
Lithium (Li)	0.008	0.007- 0.020			
Phosphorus (P)	132	150- 220			
Selenium (Se)	0.68	0.70- 1.1			
Strontium (Sr)	0.56	0.16- 1.0			
Sulfur (S)	44900	45500- 53000			
Cobalt (Co)	0.010	0.004- 0.020			
Iron (Fe)	10	7.0- 16			
Germanium (Ge)	0.027	0.030- 0.040			
Rubidium (Rb)	0.19	0.016- 0.18			
Zirconium (Zr)	0.070	0.040- 1.0			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 9/28/2011	Sample Size: 0.2 g	Ca/Mg	10.8	4- 30
Date Received: 10/6/2011	Sample Type: Head	Ca/P	1.89	0.8- 8
Date Completed: 10/8/2011	Hair Color: Brown	Na/K	1.32	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	4.9	4- 20
	Shampoo: Jj	Zn/Cd	> 999	> 800

Health History for hair test 536

1. **What are your current symptoms and health history?** 4.5 year old boy. Completely non verbal. Diagnosed with ASD. He also has many sensory issues snf he is hyper active. He has digestion problems, he is not regular.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** No dental history. Never been to a dentist.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** As above. Never been to a dentist.
4. **What dentistry did your mother have at any time before or during pregnancy?** Lots of fillings but no amalgam.
5. **What vaccinations have you had and when (including flu and especially travel shots)?**
6. MMR, Hepatitis A and B, Rotavirus, BCG, Measles, prevenar (all vaccines are done as a package here)
7. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** Risperdal 0.375 mg/day, Cod Liver Oil
8. **What is your age, height and weight?** 4.5 years old, 104 cm tall and 17 kg in weight.
9. **Other information you feel may be relevant?** N/A
10. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).** Istanbul/Turkey