



PATIENT: Number 552

SEX: Male

AGE: 7

Toxic & Essential Elements; Hair

TOXIC METALS				
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum	(Al)	12	< 8.0	
Antimony	(Sb)	0.092	< 0.066	
Arsenic	(As)	0.069	< 0.080	
Barium	(Ba)	0.23	< 0.75	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.023	< 2.0	
Cadmium	(Cd)	0.032	< 0.070	
Lead	(Pb)	1.6	< 1.0	
Mercury	(Hg)	0.60	< 0.40	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	< 0.001	< 0.002	
Uranium	(U)	0.027	< 0.060	
Nickel	(Ni)	0.19	< 0.20	
Silver	(Ag)	0.20	< 0.14	
Tin	(Sn)	0.15	< 0.30	
Titanium	(Ti)	0.34	< 0.70	
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)	193	160- 500	
Magnesium	(Mg)	17	12- 50	
Sodium	(Na)	100	20- 200	
Potassium	(K)	200	12- 140	
Copper	(Cu)	9.6	11- 32	
Zinc	(Zn)	100	110- 190	
Manganese	(Mn)	0.09	0.08- 0.50	
Chromium	(Cr)	0.42	0.40- 0.70	
Vanadium	(V)	0.030	0.025- 0.10	
Molybdenum	(Mo)	0.063	0.040- 0.090	
Boron	(B)	0.99	0.50- 3.5	
Iodine	(I)	0.55	0.25- 1.3	
Lithium	(Li)	< 0.004	0.007- 0.020	
Phosphorus	(P)	171	150- 220	
Selenium	(Se)	1.2	0.70- 1.1	
Strontium	(Sr)	0.51	0.21- 2.1	
Sulfur	(S)	48600	44000- 51000	
Cobalt	(Co)	0.005	0.004- 0.020	
Iron	(Fe)	7.6	7.0- 16	
Germanium	(Ge)	0.026	0.030- 0.040	
Rubidium	(Rb)	0.23	0.008- 0.080	
Zirconium	(Zr)	0.59	0.060- 0.70	

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 10/10/2011		Ca/Mg	11.4	4- 30
Date Received: 10/26/2011		Ca/P	1.13	0.8- 8
Date Completed: 10/27/2011		Na/K	0.5	0.5- 10
Methodology: ICP/MS		Zn/Cu	10.4	4- 20
Sample Size: 0.2 g		Zn/Cd	> 999	> 800
Sample Type: Head				
Hair Color: Brown				
Treatment:				
Shampoo: Suave Kids				

Health history for hair test 552

1. Regressive autism starting at 1yr 3mo old, around the time of childhood vaccinations. Currently 7yrs old, still autistic, does have some verbal skills, social skills are not too good.
2. No dental work at all.
3. None needed.
4. No dental work at time of pregnancy.
5. Fully vaccinated through 2yrs old. No further vaccines in the last 5 years.
6. Childrens multi-vitamin only.
7. 7, 4ft or so, 50lbs.
8. -
9. Kin Town, Okinawa, Japan