



PATIENT: Number 767
 SEX: Male
 AGE: 6

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	7.5	< 8.0	
Antimony (Sb)	0.055	< 0.066	
Arsenic (As)	0.038	< 0.080	
Barium (Ba)	0.59	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.060	< 2.0	
Cadmium (Cd)	0.043	< 0.070	
Lead (Pb)	0.60	< 1.0	
Mercury (Hg)	0.16	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.003	< 0.060	
Nickel (Ni)	0.09	< 0.20	
Silver (Ag)	0.11	< 0.14	
Tin (Sn)	0.55	< 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)	245	160- 500			
Magnesium (Mg)	37	12- 50			
Sodium (Na)	24	20- 200			
Potassium (K)	24	12- 140			
Copper (Cu)	14	11- 32			
Zinc (Zn)	130	110- 190			
Manganese (Mn)	0.18	0.08- 0.50			
Chromium (Cr)	0.46	0.40- 0.70			
Vanadium (V)	0.026	0.025- 0.10			
Molybdenum (Mo)	0.071	0.040- 0.090			
Boron (B)	1.1	0.50- 3.5			
Iodine (I)	0.40	0.25- 1.3			
Lithium (Li)	0.005	0.007- 0.020			
Phosphorus (P)	134	150- 220			
Selenium (Se)	0.76	0.70- 1.1			
Strontium (Sr)	4.5	0.21- 2.1			
Sulfur (S)	48200	44000- 51000			
Cobalt (Co)	0.007	0.004- 0.020			
Iron (Fe)	9.4	7.0- 16			
Germanium (Ge)	0.033	0.030- 0.040			
Rubidium (Rb)	0.022	0.008- 0.080			
Zirconium (Zr)	1.4	0.060- 0.70			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 7/26/2012	Sample Size: 0.199 g	Ca/Mg	6.62	4- 30
Date Received: 8/10/2012	Sample Type: Head	Ca/P	1.83	0.8- 8
Date Completed: 8/12/2012	Hair Color: Brown	Na/K	1	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	9.29	4- 20
	Shampoo: Child	Zn/Cd	> 999	> 800

Health history for hair test 767

- 1) **Significant ADHD – terribly hyper**
- 2) **No dental history**
- 3) **No dental history**
- 4) **Mother has MANY amalgams and is hypothyroid**
- 5) **All standard shots now required for children**
- 6) **Supplemented with cal/mag/zinc, digestive enzymes**
- 7) **6 years old, 54”, 54 lbs**
- 8) **N/A**
- 9) **Chicago, IL USA**