



PATIENT: Number 854
 SEX: Male
 AGE: 3

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	20	< 8.0	
Antimony (Sb)	0.40	< 0.066	
Arsenic (As)	0.26	< 0.080	
Barium (Ba)	0.73	< 0.50	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.092	< 2.0	
Cadmium (Cd)	0.048	< 0.070	
Lead (Pb)	2.7	< 1.0	
Mercury (Hg)	0.39	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.002	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.033	< 0.060	
Nickel (Ni)	0.17	< 0.20	
Silver (Ag)	0.18	< 0.20	
Tin (Sn)	2.9	< 0.30	
Titanium (Ti)	0.97	< 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)	373	125- 370					
Magnesium (Mg)	20	12- 30					
Sodium (Na)	39	20- 200					
Potassium (K)	74	12- 200					
Copper (Cu)	11	11- 18					
Zinc (Zn)	110	100- 190					
Manganese (Mn)	0.33	0.10- 0.50					
Chromium (Cr)	1.0	0.43- 0.80					
Vanadium (V)	0.089	0.030- 0.10					
Molybdenum (Mo)	0.31	0.050- 0.13					
Boron (B)	6.0	0.70- 5.0					
Iodine (I)	0.70	0.25- 1.3					
Lithium (Li)	0.015	0.007- 0.020					
Phosphorus (P)	221	150- 220					
Selenium (Se)	0.70	0.70- 1.1					
Strontium (Sr)	0.89	0.16- 1.0					
Sulfur (S)	42000	45500- 53000					
Cobalt (Co)	0.017	0.004- 0.020					
Iron (Fe)	19	7.0- 16					
Germanium (Ge)	0.022	0.030- 0.040					
Rubidium (Rb)	0.10	0.016- 0.18					
Zirconium (Zr)	0.035	0.040- 1.0					

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 09/16/2013	Sample Size: 0.201 g	Ca/Mg	18.7	4- 30
Date Received: 09/20/2013	Sample Type: Head	Ca/P	1.69	0.8- 8
Date Completed: 09/22/2013	Hair Color:	Na/K	0.527	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	10	4- 20
	Shampoo:	Zn/Cd	> 999	> 800

Health history for hair test 854

Zion is a 3 yr old boy with autistic symptoms

He has never had any dental work done

Mother has never had any dental work but dad has a mouth full of fillings

Zion has all childhood vaccines such as Dpth,MMR,BCG,Hepatitis etc

Mum also had flu vaccine whilst pregnant with Zion

Zion has done 6 rounds of ALA(5mg) as at the time of the test,Magnesium,Vit C and E, Fish oil,Zinc,multivitamin,Taurine,Adrenal cortex extract,GABA,Inositol,Milk Thistle,Neutrophil plus,Acetyl carnitine,TMG and Molybdenum.

Zion is 3yr old and weighs 20kg.

Zion lives in London.