



PATIENT: Number 818  
 SEX: Male  
 AGE: 13

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	3.8	< 7.0	
Antimony (Sb)	0.012	< 0.066	
Arsenic (As)	0.017	< 0.080	
Barium (Ba)	0.31	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.025	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.40	< 0.80	
Mercury (Hg)	0.05	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.020	< 0.060	
Nickel (Ni)	0.08	< 0.20	
Silver (Ag)	0.02	< 0.08	
Tin (Sn)	0.08	< 0.30	
Titanium (Ti)	0.20	< 0.60	
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)	175	200- 750			
Magnesium (Mg)	23	25- 75			
Sodium (Na)	69	20- 180			
Potassium (K)	19	9- 80			
Copper (Cu)	12	11- 30			
Zinc (Zn)	240	130- 200			
Manganese (Mn)	0.06	0.08- 0.50			
Chromium (Cr)	0.34	0.40- 0.70			
Vanadium (V)	0.011	0.018- 0.065			
Molybdenum (Mo)	0.029	0.025- 0.060			
Boron (B)	0.79	0.40- 3.0			
Iodine (I)	1.4	0.25- 1.8			
Lithium (Li)	< 0.004	0.007- 0.020			
Phosphorus (P)	143	150- 220			
Selenium (Se)	0.70	0.70- 1.2			
Strontium (Sr)	0.71	0.30- 3.5			
Sulfur (S)	46300	44000- 50000			
Cobalt (Co)	0.004	0.004- 0.020			
Iron (Fe)	4.6	7.0- 16			
Germanium (Ge)	0.027	0.030- 0.040			
Rubidium (Rb)	0.020	0.011- 0.12			
Zirconium (Zr)	0.081	0.020- 0.44			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		ELEMENTS	RATIOS
Date Collected: 06/19/2013	Sample Size: 0.197 g	Ca/Mg	7.61
Date Received: 07/18/2013	Sample Type: Head	Ca/P	1.22
Date Completed: 07/20/2013	Hair Color: Brown	Na/K	3.63
Methodology: ICP/MS	Treatment:	Zn/Cu	20
	Shampoo: Tea Tree	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

## Health history for hair test 818

### 1) What are your current symptoms and health history?

Has suffered ADHD symptoms from early childhood, including lack of focus and substandard short-term memory. Parents met regularly with teachers/counselors/psychologist on how to condition him to be reasonably successful in the classroom. Teachers noticed his inability to focus on anything that did not capture his imagination (such as most school work). Not disruptive as are many similarly afflicted. Rather moody at times, VERY prone to defeatist attitude, depression, negative overreaction/dramatizing, general pessimism. Generally happy/pleasant, but prone to 'going dark' without notice, depending upon conditions.

Several rather dark moles across the crown of his head and just above one ear, most of which have been removed.

Problematic acne; face, forehead, shoulders.

Cannot focus thoughts when in an argument - mind goes completely blank.

Dry, coarse hair.

Irrational anxiety; often unnecessarily nervous.

Very light perspiration.

Nervous picking/biting of fingernails and fingertip skin, lips.

Irrational anger at inanimate objects.

Extremely intolerant of younger children...couldn't tolerate a crying baby in a restaurant when he was a toddler.

Cannot 'let go' of any emotional situation. Example: when scolded, remains angry and depressed sometimes for hours.

Holds grudges very tightly.

### 2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

Currently on second round of braces, well along the way to being completed. No amalgams.

### 3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

N/A.

### 4) What dentistry did your mother have at any time before or during pregnancy?

Mother had several amalgams already in place during pregnancy.

### 5) What vaccinations have you had and when (including flu and especially travel shots)?

All standard US childhood vaccines, no flu nor travel injections.

### 6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Occasional childrens' multivitamin, very inconsistent.

7) Other information you feel may be relevant?

N/A.

8) What is your location - city & country (so that we can learn where certain toxins are more prevalent).

Pittsburgh, Pennsylvania, United States.