



PATIENT: Number 831
 SEX: Female
 AGE: 33

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	2.7	< 7.0	
Antimony (Sb)	0.015	< 0.050	
Arsenic (As)	0.027	< 0.060	
Barium (Ba)	1.9	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.018	< 2.0	
Cadmium (Cd)	0.019	< 0.050	
Lead (Pb)	1.5	< 0.60	
Mercury (Hg)	0.47	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.007	< 0.060	
Nickel (Ni)	0.21	< 0.30	
Silver (Ag)	0.20	< 0.15	
Tin (Sn)	0.12	< 0.30	
Titanium (Ti)	0.38	< 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)	342	300- 1200	
Magnesium (Mg)	34	35- 120	
Sodium (Na)	11	20- 250	
Potassium (K)	9	8- 75	
Copper (Cu)	92	11- 37	
Zinc (Zn)	160	140- 220	
Manganese (Mn)	0.12	0.08- 0.60	
Chromium (Cr)	0.32	0.40- 0.65	
Vanadium (V)	0.028	0.018- 0.065	
Molybdenum (Mo)	0.027	0.020- 0.050	
Boron (B)	0.55	0.25- 1.5	
Iodine (I)	16	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	196	150- 220	
Selenium (Se)	0.68	0.55- 1.1	
Strontium (Sr)	1.3	0.50- 7.6	
Sulfur (S)	50000	44000- 50000	
Cobalt (Co)	0.021	0.005- 0.040	
Iron (Fe)	7.5	7.0- 16	
Germanium (Ge)	0.031	0.030- 0.040	
Rubidium (Rb)	0.007	0.007- 0.096	
Zirconium (Zr)	0.40	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 08/01/2013	Sample Size: 0.199 g	Ca/Mg	10.1
Date Received: 08/05/2013	Sample Type: Head	Ca/P	1.74
Date Completed: 08/07/2013	Hair Color: Brown	Na/K	1.22
Methodology: ICP/MS	Treatment:	Zn/Cu	1.74
	Shampoo: Deva Curl	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

Health history for hair test 831

1. Crohn's disease (dx just over 1 year ago, no symptoms prior), brain fog
2. Tooth removal and frenectomy, age 9. Braces, age 10-14. Permanent retainer, age 14-present. Wisdom teeth removed, age 22. Resin fillings, age 31.
3. Permanent retainer and two resin fillings.
4. 2-3 silver fillings, one wisdom tooth removed.
5. All childhood shots, maybe one or two flu shots
6. 50 mg Mercaptopurine, 2000 mg sulfasalazine, 4.5 mg low dose naltrexone. Ended one year of prednisone 3 months ago (high of 60 mg, several tapers to 0). Occasional supplements: vit D (10,000 mg) and C (1,000 mg), zinc (30mg) , epsom salt foot baths (1x week)
7. Age 33, 5'4", 105 lbs
8. Other information you feel may be relevant?
9. Indianapolis - birth to 23, Dallas 23-30, Westchester County, NY 30-present