

HAIR ELEMENTS



PATIENT: Number 156
SEX: Female
AGE: 9
Location: Fernandina Beach, FL

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	0.9	< 8.0	█	
Antimony	0.011	< 0.066	●	
Arsenic	0.046	< 0.060	██████████	
Beryllium	< 0.01	< 0.020		
Bismuth	0.027	< 2.0	●	
Cadmium	0.024	< 0.10	████	
Lead	0.08	< 1.0	██	
Mercury	0.14	< 0.40	██████	
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.014	< 0.060	██████	
Nickel	0.07	< 0.40	████	
Silver	0.01	< 0.16	●	
Tin	0.09	< 0.30	██████	
Titanium	0.34	< 1.0	██████	
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	1020	250- 800			██████████		
Magnesium	92	25- 90			██████████		
Sodium	9	12- 90					
Potassium	7	7- 40			██████████		
Copper	15	12- 35			██████████		
Zinc	390	120- 220			██████████		
Manganese	0.04	0.18- 0.60	██████████				
Chromium	0.38	0.23- 0.45			██████████		
Vanadium	0.030	0.025- 0.10			██████████		
Molybdenum	0.031	0.037- 0.083			██████████		
Boron	0.10	0.30- 1.7	██████████				
Iodine	0.26	0.25- 1.3			██████████		
Lithium	< 0.004	0.007- 0.023	██████████				
Phosphorus	169	160- 250			██████████		
Selenium	1.1	0.95- 1.7			██████████		
Strontium	3.4	0.37- 3.6			██████████		
Sulfur	49300	45500- 53000			██████████		
Barium	0.30	0.21- 1.9			██████████		
Cobalt	0.005	0.013- 0.050	██████████				
Iron	14	6.0- 17			██████████		
Germanium	0.036	0.045- 0.065			██████████		
Rubidium	0.003	0.008- 0.080	██████████				
Zirconium	0.053	0.030- 0.40			██████████		

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 3/14/2008	Sample Size: 0.197 g			Ca/Mg	11.1	4- 30
Date Received: 3/17/2008	Sample Type: Head			Ca/P	6.04	1- 12
Date Completed: 3/19/2008	Hair Color:			Na/K	1.29	0.5- 10
	Treatment:			Zn/Cu	26	4- 20
Methodology: ICP-MS	Shampoo:			Zn/Cd	> 999	> 800
				V06.99		

Current Symptoms: Extreme anxiety, nervousness, OCD, sensory issues with certain types of clothing materials and their texture, mood swings, very emotional, cries easily, gets hurt/angry easily, nail biting.

Dental History: At 17 months, received 4 caps (stainless steel), and 4 fillings, 3 were amalgam. Has had chronic problems with dental caries. Has also had more stainless steel caps through the years. She now has just 1 cap remaining, soon to be extracted, and all the amalgams have fallen out (baby teeth). Mother (myself) has had no silver fillings, ever. Did have 1 root canal when I was pregnant with her. It's been extracted now though.

Vaccinations: Current recommended shots up to age five. None since.

Supplements: Only supplements prior to hair test was a product called A,C,E +S. It's a combo of Vit. A, C, E and selenium. RDA amounts only.

Other: Used anti-dandruff shampoo for a few months prior to test.