

HAIR ELEMENTS



PATIENT: Number 250
SEX: Male
AGE: 11
LOCATION: Arizona, USA

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.6	< 8.0		
Antimony	0.051	< 0.066		
Arsenic	0.10	< 0.080		
Barium	0.48	< 0.75		
Beryllium	< 0.01	< 0.020		
Bismuth	0.038	< 2.0		
Cadmium	0.034	< 0.070		
Lead	0.11	< 1.0		
Mercury	0.12	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.030	< 0.060		
Nickel	0.05	< 0.20		
Silver	0.33	< 0.14		
Tin	0.06	< 0.30		
Titanium	0.52	< 0.70		
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	379	160- 500					
Magnesium	37	12- 50					
Sodium	63	20- 200					
Potassium	25	12- 140					
Copper	17	11- 32					
Zinc	220	110- 190					
Manganese	0.08	0.08- 0.50					
Chromium	0.25	0.40- 0.70					
Vanadium	0.053	0.025- 0.10					
Molybdenum	0.046	0.040- 0.090					
Boron	0.73	0.50- 3.5					
Iodine	0.26	0.25- 1.3					
Lithium	0.004	0.007- 0.020					
Phosphorus	221	150- 220					
Selenium	1.3	0.70- 1.1					
Strontium	0.33	0.21- 2.1					
Sulfur	47800	44000- 51000					
Cobalt	0.004	0.004- 0.020					
Iron	5.8	7.0- 16					
Germanium	0.023	0.030- 0.040					
Rubidium	0.028	0.008- 0.080					
Zirconium	0.12	0.060- 0.70					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 1/12/2009	Sample Size: 0.198 g			Ca/Mg	10.2	4- 30
Date Received: 1/22/2009	Sample Type: Head			Ca/P	1.71	0.8- 8
Date Completed: 1/23/2009	Hair Color: Brown			Na/K	2.52	0.5- 10
Client Reference:	Treatment:			Zn/Cu	12.9	4- 20
Methodology: ICP-MS	Shampoo: Avalon Organic			Zn/Cd	> 999	> 800

Health history for hair test 250

1) Lyme Disease, Bartonella dx 9-17-08. Slowly improving severe gastrointestinal dysfunction. Severe malabsorption/underweight. 4'10/63 lbs. Has struggled with being underweight all his life. Hypoglycemia. Severe Multiple Chemical Sensitivity began 8 months ago. Neurally Mediated Hypotension. Small Hiatal Hernia dx in July 08. Tick, mosquito, mold exposure.

*HLA DRB DBQ results: 4-3-53 (multisusceptible to biotoxins) 7-2/3-53 (susceptible to mold toxins). Body does not recognize these toxins and recirculates them repeatedly instead of sending them "out" via bile, fecal elimination.

2) Chronic Intractable Nausea: daily misery. Gallbladder/Liver congestion/sludging. Pancreatic Enzyme Amylase creeping out of the high end of normal.

3) No dental amalgams.

4) Mother had one very small amalgam. Removed properly but son was four months old, still breastfeeding. Son breast fed for two years.

5) Mother's hair analysis twenty years ago: very high mercury/copper. Mother was a professional photographer. Major exposure to developer chemicals: silver....from print developing baths. Did not always wear gloves during college years. Mother asymptomatic.

6) No autism. NO vaccinations. No antibiotics. No Rx except the anaesthesia used in hospital for upper endoscopy/lower sigmoidoscopy in July 08. Mother was globetrotter. Has been vaccinated for everything under the blazing sun. Nearly died from Typhoid vaccine.

7) Son lived 5 years in Florida on our farm. No agriculture. No industry. Farm has horse fencing: uses arsenic/pressure treated wood. Son has eaten red snapper, grouper in Florida. No other known mercury containing fish.

8) Have always lived in remote rural horse country. Never in large cities. Wells always tested, shown to be safe.

9) Drank Crystal Geyser water for three months in end of 07...reputed to have higher levels of arsenic.

10) Supplements: Tanalbit, magnesium, calcium, CoQ10, B complex, Licorice, Boluoke, E, Ester C, Lyme Transfer Factor, stopped supplementing zinc....need to recommence? Need chromium polynicotinate?????

11) Currently in Arizona in remote area with no agriculture or industry. Having spring water tested. Arrowhead and natural spring where many residents here get their water in a remote canyon. Reputed to be tested monthly and deemed safe.
