

HAIR ELEMENTS



PATIENT: No 13
SEX: Female
AGE: 5
Location: Diamond, Ohio

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	8.1	< 8.0		
Antimony	0.017	< 0.066		
Arsenic	0.061	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.090	< 0.13		
Cadmium	0.049	< 0.10		
Lead	0.22	< 1.0		
Mercury	0.07	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	0.001	< 0.005		
Uranium	0.004	< 0.060		
Nickel	0.30	< 0.40		
Silver	0.26	< 0.20		
Tin	0.14	< 0.30		
Titanium	0.46	< 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	650	140- 500					
Magnesium	42	15- 45					
Sodium	66	12- 90					
Potassium	8	9- 60					
Copper	16	10- 22					
Zinc	160	100- 190					
Manganese	0.19	0.20- 0.55					
Chromium	0.30	0.26- 0.50					
Vanadium	0.077	0.030- 0.10					
Molybdenum	0.064	0.048- 0.13					
Boron	0.70	0.35- 3.0					
Iodine	0.62	0.25- 1.3					
Lithium	0.006	0.007- 0.023					
Phosphorus	164	160- 250					
Selenium	0.95	0.95- 1.7					
Strontium	1.5	0.19- 2.0					
Sulfur	47000	45500- 53000					
Barium	0.45	0.16- 1.2					
Cobalt	0.015	0.013- 0.035					
Iron	10	8.0- 19					
Germanium	0.038	0.045- 0.065					
Rubidium	0.010	0.012- 0.16					
Zirconium	0.26	0.030- 1.0					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	9/9/2006	Sample Size:	0.205 g	Ca/Mg	15.5	4- 30
Date Received:	9/13/2006	Sample Type:	Head	Ca/P	3.96	1- 12
Date Completed:	9/16/2006	Hair Color:		Na/K	8.25	0.5- 10
		Treatment:		Zn/Cu	10	4- 20
Methodology:	ICP-MS	Shampoo:	Baby	Zn/Cd	> 999	> 800

V06.99

Hair Test 13

Notes

Updated May 2007

History: 6.4 year old female. Fully vaccinated except for 5 year old boosters. Met developmental milestones until 2.4 years, then emergence of hyperactive, ADHD behavior. Hyperlexic, began reading full sentences at 2.11 years.

Stagnation of developmental skills beginning at 2.6 years. Gross/fine motor skills delay, balance problems, social skills difficulty, extreme shyness, reciprocal conversation delay, learning disabilities/auditory processing delay, sensory integration problems, reversed pronouns, flat affect, mood lability.

Health issues prior to chelation: Allergies, hyper/hypothyroidism, immune system dysfunction.

Chelation with Dmsa/Ala, low/frequent dosing begun at 3.11 years, 90 + rounds. Lost dx at 5.4 years, resolution of all cognitive. social and motor delays.

Allergies gone, takes 3/4 grain Armour, still suspect immune system dysregulation.

HAIR ELEMENTS



PATIENT: Number 13a
SEX: Female
AGE: 6

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	9.2	< 8.0		
Antimony	0.016	< 0.066		
Arsenic	0.051	< 0.060		
Beryllium	< 0.01	< 0.020		
Bismuth	0.59	< 2.0		
Cadmium	0.022	< 0.10		
Lead	0.06	< 1.0		
Mercury	< 0.03	< 0.40		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.002	< 0.060		
Nickel	0.05	< 0.40		
Silver	< 0.006	< 0.16		
Tin	0.15	< 0.30		
Titanium	0.57	< 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
Calcium	148	250- 800				
Magnesium	69	25- 90				
Sodium	190	12- 90				
Potassium	8	7- 40				
Copper	13	12- 35				
Zinc	180	120- 220				
Manganese	0.53	0.18- 0.60				
Chromium	0.26	0.23- 0.45				
Vanadium	0.012	0.025- 0.10				
Molybdenum	0.053	0.037- 0.083				
Boron	0.50	0.30- 1.7				
Iodine	0.79	0.25- 1.3				
Lithium	0.024	0.007- 0.023				
Phosphorus	231	160- 250				
Selenium	1.1	0.95- 1.7				
Strontium	0.16	0.37- 3.6				
Sulfur	48600	45500- 53000				
Barium	0.15	0.21- 1.9				
Cobalt	0.009	0.013- 0.050				
Iron	17	6.0- 17				
Germanium	0.033	0.045- 0.065				
Rubidium	0.014	0.008- 0.080				
Zirconium	0.14	0.030- 0.40				

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 5/18/2007	Sample Size: 0.205 g		Ca/Mg	2.14	4- 30	
Date Received: 5/23/2007	Sample Type: Head		Ca/P	0.641	1- 12	
Date Completed: 5/29/2007	Hair Color: Blond		Na/K	23.8	0.5- 10	
	Treatment:		Zn/Cu	13.8	4- 20	
Methodology: ICP-MS	Shampoo: Johnsons		Zn/Cd	> 999	> 800	

V06.99