

HAIR ELEMENTS



PATIENT: Number 218
SEX: Female
AGE: 42
LOCATION: Atlanta, Georgie, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	10	< 7.0		
Antimony	0.011	< 0.050		
Arsenic	0.042	< 0.060		
Beryllium	< 0.01	< 0.020		
Bismuth	2.9	< 2.0		
Cadmium	0.009	< 0.10		
Lead	0.24	< 1.0		
Mercury	1.2	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	0.001	< 0.005		
Uranium	0.007	< 0.060		
Nickel	0.22	< 0.40		
Silver	0.41	< 0.15		
Tin	0.59	< 0.30		
Titanium	0.55	< 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	507	300- 1200					
Magnesium	22	35- 120					
Sodium	17	12- 90					
Potassium	14	8- 38					
Copper	12	12- 35					
Zinc	150	140- 220					
Manganese	0.09	0.15- 0.65					
Chromium	0.37	0.20- 0.40					
Vanadium	0.031	0.018- 0.065					
Molybdenum	0.034	0.028- 0.056					
Boron	0.26	0.30- 2.0					
Iodine	1.1	0.25- 1.3					
Lithium	< 0.004	0.007- 0.023					
Phosphorus	198	160- 250					
Selenium	1.1	0.95- 1.7					
Strontium	0.82	0.50- 7.6					
Sulfur	48100	44500- 52000					
Barium	0.72	0.26- 3.0					
Cobalt	0.005	0.013- 0.050					
Iron	8.8	5.4- 14					
Germanium	0.032	0.045- 0.065					
Rubidium	0.016	0.007- 0.096					
Zirconium	0.033	0.020- 0.42					

SPECIMEN DATA

COMMENTS:
 Date Collected: 10/22/2008 Sample Size: 0.204 g
 Date Received: 10/31/2008 Sample Type: Head
 Date Completed: 11/3/2008 Hair Color: Black
 Treatment:
 Methodology: ICP-MS Shampoo: Pantene

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	23	4- 30
Ca/P	2.56	1- 12
Na/K	1.21	0.5- 10
Zn/Cu	12.5	4- 20
Zn/Cd	> 999	> 800

V06.99

Health History 218

I see that I have deranged mineral transport given that I meet counting rule #1. I was already very certain that I am mercury poisoned given my severe reaction to 2 100mg doses of ALA recommended in a dental detox book given to me by my IAOMT dentist. I am still numb up to my waist from taking those doses 2 months ago (it has eased up but only somewhat).

I am supplementing with the majority of the things that Andy recommends. Please point out anything that you see to help make sure I am doing all that I can to help get through this.

Here are answers to the supplied questions:

- 1) current symptoms and health history: 42 year old female diagnosed with MS 12 years ago, very manageable symptoms for 10 years, worsening of symptoms over the last 2 years with the worst being fatigue, depression, lack of motivation (very abnormal for me), bladder frequency/urgency, numbness in feet/hands and now from waist down as well, extreme heaviness in right leg, ringing in ears, sleep apnea, muscle twitches, lower back pain, brain fog
- 2) 4 wisdom teeth removed as a teenager, braces for 2 years as a teen, 6 amalgams (8 surfaces), no root canals
- 3) dental clean-up completed one month ago (possible cavitations but don't think so)
- 4) mother had many amalgams when became pregnant, she can't remember any dental work while pregnant, she is healthy although she did have periodontal disease and does have high blood pressure
- 5) I had all childhood vaccinations required at the time, many flu shots over the years (neurologist insisted they were important for me), had travel vaccinations while in grad school (16 years ago), did suffer from extreme fatigue around that time but did not make a connection
- 6) not on many supplements 3-6 months before hair test
- 7) have done 3 rounds of chelation with 4 mg DMSA every 4 hours, have not handled chelation well at all, low grade fever, diarrhea, skin broken out, additional fatigue and depression, 2 different alternative docs said to ease up on chelation as my organs are not handling it well (spleen, liver, kidneys), have ordered 3 mg DMSA but will hold off until I am feeling better
- 8) Atlanta, Georgia--USA