

HAIR ELEMENTS



PATIENT: Number 183
SEX: Male
AGE: 40
Location: Los Angeles, CA

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.7	< 7.0		
Antimony	0.018	< 0.066		
Arsenic	0.051	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.053	< 2.0		
Cadmium	0.10	< 0.15		
Lead	0.06	< 2.0		
Mercury	0.40	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.11	< 0.060		
Nickel	0.03	< 0.40		
Silver	0.57	< 0.12		
Tin	0.10	< 0.30		
Titanium	0.37	< 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	656	200- 750					
Magnesium	47	25- 75					
Sodium	25	12- 90					
Potassium	12	9- 40					
Copper	14	10- 28					
Zinc	230	130- 200					
Manganese	0.04	0.15- 0.65					
Chromium	0.29	0.20- 0.40					
Vanadium	0.092	0.018- 0.065					
Molybdenum	0.057	0.025- 0.064					
Boron	1.5	0.40- 3.0					
Iodine	0.40	0.25- 1.3					
Lithium	0.005	0.007- 0.023					
Phosphorus	196	160- 250					
Selenium	1.1	0.95- 1.7					
Strontium	2.1	0.30- 3.5					
Sulfur	48300	44500- 52000					
Barium	0.21	0.16- 1.6					
Cobalt	0.005	0.013- 0.035					
Iron	13	5.4- 13					
Germanium	0.029	0.045- 0.065					
Rubidium	0.009	0.011- 0.12					
Zirconium	0.085	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 5/12/2008	Sample Size: 0.198 g			Ca/Mg	14	4- 30
Date Received: 5/17/2008	Sample Type: Head			Ca/P	3.35	0.8- 8
Date Completed: 5/20/2008	Hair Color: Brown			Na/K	2.08	0.5- 10
	Treatment:			Zn/Cu	16.4	4- 20
Methodology: ICP-MS	Shampoo:			Zn/Cd	> 999	> 800

V06.99

1) What are your current symptoms and health history?

current and recent (past few years) symptoms:
hypothyroid, chest tightness, shortness of breath, dull headaches and brain fogginess, hairloss, digestive issues, pain at lower right ribs which seems to move to ride side above ribs, infrequent palpitations, warm burning-type feeling just below chest plate (sternum) which travels down to abdomen (this feeling seems to be fleeting and sometimes feels like it moves), high liver enzymes for no explained reason a few years ago, slight nausea and sometimes indigestion, misc aches and pains and inflammation of old knee injury, which is intermittent, and other symptoms, I can't think of at the moment. All seem fairly minimal to moderate, not major.

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

Wisdom teeth were removed over 25 years ago, along with a couple of permanent teeth, I had 9 cavities filled with amalgams, over 25 years ago, I do not have any root canals. I have had braces on and off 3 times between the ages of 9 and 16, for a period of over 3 years, including headgear in 4th grade.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

Just had all my amalgams replaced over the past year. All were done with rubber dam, oxygen, high speed vacuum, 1 quadrant at a time. the final replacements were completed in Jan 2008. 7 were replaced with composites, and 2 were porcelain crowns. Also, I did not use anesthetic (novacaine, etc.). My Oriental MD (Matt Van Benschoten) did muscle testing for material compatibility. I did get more symptoms after fillings began to be removed.

4) What dentistry did your mother have at any time before or during pregnancy?

I don't know.

5) What vaccinations have you had and when (including flu and especially travel shots)? None in over 10-20 years

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Armour Thyroid 90mg daily
Emergen-c packets
digestive enzymes and probiotics

7) Other information you feel may be relevant?

In general, I'd say, my exposure has been moderate and my symptoms have ranged from minimal to moderate, although, there had been a few days were I felt out of commission.

8) What is your location - city & country (so that we can learn where certain toxins are more prevalent).

Los Angeles, CA