

HAIR ELEMENTS



PATIENT: Number 376
SEX: Male
AGE: 56
LOCATION: Fremont (near San Francisco), CA, USA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.0	< 7.0		
Antimony	0.021	< 0.066		
Arsenic	0.045	< 0.080		
Barium	0.56	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.009	< 2.0		
Cadmium	0.013	< 0.065		
Lead	0.25	< 0.80		
Mercury	0.10	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.002	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.034	< 0.060		
Nickel	0.12	< 0.20		
Silver	0.10	< 0.08		
Tin	0.11	< 0.30		
Titanium	0.67	< 0.60		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	499	200- 750					
Magnesium	58	25- 75					
Sodium	110	20- 180					
Potassium	23	9- 80					
Copper	13	11- 30					
Zinc	210	130- 200					
Manganese	0.32	0.08- 0.50					
Chromium	0.24	0.40- 0.70					
Vanadium	0.012	0.018- 0.065					
Molybdenum	0.032	0.025- 0.060					
Boron	1.6	0.40- 3.0					
Iodine	0.58	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	272	150- 220					
Selenium	0.85	0.70- 1.2					
Strontium	2.7	0.30- 3.5					
Sulfur	47000	44000- 50000					
Cobalt	0.019	0.004- 0.020					
Iron	5.2	7.0- 16					
Germanium	0.036	0.030- 0.040					
Rubidium	0.029	0.011- 0.12					
Zirconium	0.097	0.020- 0.44					

SPECIMEN DATA

COMMENTS:

Date Collected: Sample Size: **0.197 g**
 Date Received: 5/20/2010 Sample Type: **Head**
 Date Completed: 5/27/2010 Hair Color:
 Client Reference: **1232199** Treatment:
 Methodology: **ICP-MS** Shampoo:

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	8.6	4- 30
Ca/P	1.83	0.8- 8
Na/K	4.78	0.5- 10
Zn/Cu	16.2	4- 20
Zn/Cd	> 999	> 800

HAIR ELEMENTS



PATIENT: Number 376, second test.
SEX: Male
AGE: 57

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	1.9	< 7.0		
Antimony	0.037	< 0.066		
Arsenic	0.038	< 0.080		
Barium	0.78	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.026	< 2.0		
Cadmium	< 0.009	< 0.065		
Lead	0.15	< 0.80		
Mercury	0.09	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.019	< 0.060		
Nickel	0.22	< 0.20		
Silver	0.09	< 0.08		
Tin	0.05	< 0.30		
Titanium	0.35	< 0.60		
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	580	200- 750					
Magnesium	61	25- 75					
Sodium	17	20- 180					
Potassium	8	9- 80					
Copper	23	11- 30					
Zinc	210	130- 200					
Manganese	0.34	0.08- 0.50					
Chromium	0.41	0.40- 0.70					
Vanadium	0.016	0.018- 0.065					
Molybdenum	0.036	0.025- 0.060					
Boron	0.94	0.40- 3.0					
Iodine	1.4	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	172	150- 220					
Selenium	0.81	0.70- 1.2					
Strontium	2.8	0.30- 3.5					
Sulfur	46200	44000- 50000					
Cobalt	0.032	0.004- 0.020					
Iron	10	7.0- 16					
Germanium	0.034	0.030- 0.040					
Rubidium	0.012	0.011- 0.12					
Zirconium	0.23	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	4/5/2011	Sample Size:	0.196 g	Ca/Mg	9.51	4- 30
Date Received:	4/13/2011	Sample Type:	Head	Ca/P	3.37	0.8- 8
Date Completed:	4/20/2011	Hair Color:	Black	Na/K	2.13	0.5- 10
Client Reference:		Treatment:		Zn/Cu	9.13	4- 20
Methodology:	ICP-MS	Shampoo:		Zn/Cd	> 999	> 800

V010.08

Health history for hair test 376

1) What are your current symptoms and health history? I have had polymyositis, an auto-immune disease, since Sep 1997. However, I was only diagnosed in June 2005, and the last 2.5 years have been pretty bad: wheelchair bound, except I can walk gingerly inside the house with a walker/rollator. Currently (last three weeks), I have 101F fever, frequent coughs, and mental fog (fungal or parasitic infections?)

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...) 7 large fillings placed July 1979, all have been replaced with white-composites during Mar-June 2007. No root canals, crowns, braces, implants etc.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed? Have white-composite fillings since June 2007. Dental amalgam cleanup is complete.

4) What dentistry did your mother have at any time before or during pregnancy? Nothing significant, zero amalgam fillings or other major dental work.

5) What vaccinations have you had and when (including flu and especially travel shots)? Tetanus shots with thimerosal (at least 3 in last 20 years), flu shots with typically 25mg thimerosal 1998-2005

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken. All have been taken for at least 6 months, unless month-ranges are indicated.

Prednisone 20mg tapered to 7.5mg Apr-ongoing 2010, Nystatin 1Million units for two weeks in Apr 2010

BComplex B100 liquid form, Vitamin C 4000mg in two doses, Vitamin D 5000IU (winter months only), 400IU Vitamin E, CoQ10 100mg ubiquinol liquid, Magnesium (Jigsaw SRT) 125mg, planning to increase to 500mg daily, Zinc 50mg since May 10 2010, Carlson liquid fish oil 2-3 teaspoons roughly 1600EPA, 1000DHA, 20-30g ground flaxseed, 24g whey protein; Occasional (2 times a week): Milk Thistle 500mg, 5B units probiotics, Turmeric Force turmeric capsule

7) Other information you feel may be relevant? My CPK, which indicates muscle damage and extent of polymyositis, which used to be in the thousands, and around a thousand last two years has recently normalized to 200 (normal range 30-230). This could be good news, where my polymyositis is getting better.

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

I am in Fremont (near San Francisco), CA, USA.