

HAIR ELEMENTS



PATIENT: Number 238
SEX: Female
AGE: 55
LOCATION: Altadena, CA (USA).

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	13	< 7.0		
Antimony	0.046	< 0.050		
Arsenic	0.020	< 0.060		
Barium	1.1	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.014	< 2.0		
Cadmium	0.38	< 0.050		
Lead	1.6	< 0.60		
Mercury	0.47	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.072	< 0.060		
Nickel	0.41	< 0.30		
Silver	0.06	< 0.15		
Tin	0.17	< 0.30		
Titanium	0.57	< 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	975	300- 1200					
Magnesium	160	35- 120					
Sodium	23	20- 250					
Potassium	11	8- 75					
Copper	14	11- 37					
Zinc	220	140- 220					
Manganese	1.0	0.08- 0.60					
Chromium	0.41	0.40- 0.65					
Vanadium	0.074	0.018- 0.065					
Molybdenum	0.13	0.020- 0.050					
Boron	0.95	0.25- 1.5					
Iodine	0.64	0.25- 1.8					
Lithium	0.008	0.007- 0.020					
Phosphorus	184	150- 220					
Selenium	0.75	0.55- 1.1					
Strontium	4.1	0.50- 7.6					
Sulfur	52000	44000- 50000					
Cobalt	0.039	0.005- 0.040					
Iron	24	7.0- 16					
Germanium	0.027	0.030- 0.040					
Rubidium	0.021	0.007- 0.096					
Zirconium	0.12	0.020- 0.42					

SPECIMEN DATA

COMMENTS:
 Date Collected: 1/3/2009 Sample Size: 0.205 g
 Date Received: 1/9/2009 Sample Type: Head
 Date Completed: 1/12/2009 Hair Color:
 Client Reference: Treatment:
 Methodology: ICP-MS Shampoo:

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	6.09	4- 30
Ca/P	5.3	1- 12
Na/K	2.09	0.5- 10
Zn/Cu	15.7	4- 20
Zn/Cd	579	> 800

V010.08

Health history for Hair test 238

1) What are your current symptoms and health history? Eczema -- all over. Different from childhood symptoms, more widespread than just in elbows and knees and lip corners, now sometimes on chin, around eyes, always on hands. Worse after having to take about 18 vaccines in January 2007 (the first in my life, for going to Africa to work with lions and elephants) and being treated for suspected MSR blood infection Dec 2006.

Generally chronic dry skin. Thinning hair.

Have had six knee surgeries (three each knee) -- two in 1989 (one each knee), two in 2001 (one each knee), two in 2008 (one each knee). Fragmented and broken (now barely existent) cartilage behind patellas. Injury-related in 1989, but since then just caused by further deterioration. But recent bone-density scan showed things not too bad. Have been on mostly raw milk, raw honey, raw egg yolk diet with some fresh fruit (all organic) for nearly a year, essentially raw 'primal' diet for two years. No supplements except began taking fermented cod liver oil and skate liver oil about two months ago; prior to 2.5 years ago, for about 15 years, took general supplements (Life Extension Foundation products mostly).

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

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

No braces. Amalgam fillings starting before 10 years of age, didn't remove them until five years ago (about five of them). The 5 amalgams were removed without any safety precautions and replaced with gold fillings. Two root canals-- circa 1994 and 2004, two crowns 1996 and 2006, now mostly gold, no mercury amalgams. I am going to check on the older crown to see if there is mercury amalgam underneath it soon.

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

Not sure (I'm 55, she's deceased), but I think she may have had full dentures by then or shortly after.

5) What vaccinations have you had and when (including flu and especially travel shots)?

None until Jan 2007, then a huge number before a trip to Africa: polio (x3), yellow fever, tetanus, Hep-B, rabies (x3), malaria pills, ... (can't remember what else?) Otherwise no shots, no medication except for several surgeries since 1989.

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

No supplements taken for over two years except some fermented cod liver oil for two months prior to hair test; medications: only the required or involuntary antibiotics and anaesthetics coincident with knee surgeries Jun and Dec 2008

7) Other information you feel may be relevant?

Been shampooing and showering in hard stream water for most of the past 23 years. Use Nioxin shampoo and conditioners (but will stop soon, now that I've read that their ingredients are not healthful; will switch to Aubrey organics).

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

Altadena, CA (USA). Been here since 1976, but grew up in Milwaukee, WI, in the city until 10 years old, then out in the country.