

HAIR ELEMENTS



PATIENT: Number 270
SEX: Female
AGE: 43
LOCATION: Ann Arbor, Michigan, USA.

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	5.9	< 7.0		
Antimony	0.044	< 0.050		
Arsenic	0.071	< 0.060		
Barium	0.31	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.026	< 2.0		
Cadmium	0.096	< 0.050		
Lead	1.0	< 0.60		
Mercury	0.37	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.051	< 0.060		
Nickel	0.54	< 0.30		
Silver	0.41	< 0.15		
Tin	0.17	< 0.30		
Titanium	0.60	< 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	503	300- 1200					
Magnesium	62	35- 120					
Sodium	14	20- 250					
Potassium	7	8- 75					
Copper	14	11- 37					
Zinc	150	140- 220					
Manganese	0.22	0.08- 0.60					
Chromium	0.39	0.40- 0.65					
Vanadium	0.041	0.018- 0.065					
Molybdenum	0.058	0.020- 0.050					
Boron	0.23	0.25- 1.5					
Iodine	1.2	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	156	150- 220					
Selenium	1.3	0.55- 1.1					
Strontium	1.2	0.50- 7.6					
Sulfur	44900	44000- 50000					
Cobalt	0.014	0.005- 0.040					
Iron	12	7.0- 16					
Germanium	0.029	0.030- 0.040					
Rubidium	0.011	0.007- 0.096					
Zirconium	1.2	0.020- 0.42					

SPECIMEN DATA

COMMENTS:
 Date Collected: 3/14/2009 Sample Size: 0.198 g
 Date Received: 3/16/2009 Sample Type: Head
 Date Completed: 3/17/2009 Hair Color: Red
 Client Reference: Treatment:
 Methodology: ICP-MS Shampoo: Biolage

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	8.11	4- 30
Ca/P	3.22	1- 12
Na/K	2	0.5- 10
Zn/Cu	10.7	4- 20
Zn/Cd	> 999	> 800

V010.08

Health history for hair test 270

1) What are your current symptoms and health history?

Current symptoms: poor memory (have always had a poor long term memory, but recently in last couple years my short term memory is really getting bad), general fatigue and easily overstressed, really poor exercise recovery, chronic yeast infections since amalgam removal started, feel like there is just too much in my head and I can't organize my thoughts, tendency to depression and negative outlook, poor muscle tone, overweight about 25 pounds/overfat at 40% body fat composition, multiple chemical sensitivities, electrical sensitivity, multiple food sensitivities and reactions, nerve pain in right arm that comes and goes, tendency to carpal tunnel or wrist pain, I also get numb hands and feet if I take more than 50 mg vitamin B6 unless it is P5P.

Health history: diagnosed hypothyroid 2008, started on Cortef for adrenal fatigue August 2007, diagnosed celiac 12/07. Also have antibodies to casein and soy in stool (per Enterolab). Prior to these 3 things, I had many years of severe depression, extreme fatigue, lots of digestive issues (constipation, bloating) irritability, anxiety, suicidal thoughts. No other major health problems however.

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

I think I had my first amalgam filling around age 5, then proceeded to fill up my whole mouth with them by the time I was 10 or 12. Had 3 wisdom teeth pulled in late teens/early 20's I think, still have the other one. Had two crowns done in 1990's, both with amalgam underneath. Started amalgam removal in November 08, had two quadrants done in a week, then the next month had one of the crowns done/root canal in that tooth as well, crown was completed in Jan 09. In February I had another quadrant of amalgam fillings replaced (all with resin composite). I'm scheduled to have the last quadrant done in two days. Then I will just have one more crown which most likely has an amalgam filling underneath.

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

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

I don't know about during pregnancy, but I know my mom had a mouth full of amalgam fillings, and perhaps a couple gold as well.

5) What vaccinations have you had and when (including flu and especially travel shots)? I had all the usual childhood vaccinations of kids in the 70s (mmr, polio, small pox, etc.).

I've also had the Hep B vaccinations (about 20 years ago). For travel I've had cholera, typhoid, hep c, and I think a couple more when I went to work in Africa (those were all about 15 years ago). I've never had a flu shot.

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

Medications: 25 mg cortef per day; 1 grain Armour thyroid per day

Supplements: 3000mg vit. C, 2000IU vit D, 400IU vit E, 100mg Thiamine, 50 mg P5P, 250mg Mag, 500mg Pantothenic acid, 200mg selenium

7) Other information you feel may be relevant? I smoked cigarettes from age 16-22 about a pack a day, and my mom and dad both smoked when I was a kid, dad quit but mom smoked till she died. She died of cancer 4 years ago...adenocarcinoma of unknown primary (NOT lung)...probably intestinal b/c she was never diagnosed with celiac but I'm sure now that she had it. She also was exposed to many toxins through bombing in London during WWII when a bomb fell on the church she was in, she inhaled tons of stuff and was very sick for a few weeks. My paternal grandmother had Alzheimer's disease.

8) What is your location - city & country (so that we can learn where certain toxins are more prevalent). I'm in Ann Arbor, Michigan, USA.