

PATIENT: Number 635

SEX: Female AGE: 32

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	2.3	< 7.0			
Antimony	(Sb)	< 0.01	< 0.050			
Arsenic	(As)	0.073	< 0.060			
Barium	(Ba)	0.32	< 2.0			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	0.010	< 2.0	•		
Cadmium	(Cd)	0.063	< 0.050			
Lead	(Pb)	0.09	< 0.60			
Mercury	(Hg)	0.37	< 0.80			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	< 0.001	< 0.002			
Uranium	(U)	0.001	< 0.060	•		
Nickel	(Ni)	0.06	< 0.30			
Silver	(Ag)	0.06	< 0.15			
Tin	(Sn)	0.41	< 0.30			
Titanium	(Ti)	0.18	< 0.70			
Total Toxic Represent	ation					

ESSENTIAL AND OTHER ELEMENTS								
		RESULT	REFERENCE	PERCENTILE				
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th				
Calcium	(Ca)	290	300- 1200					
Magnesium	(Mg)	28	35- 120					
Sodium	(Na)	12	20- 250					
Potassium	(K)	5	8- 75					
Copper	(Cu)	12	11- 37					
Zinc	(Zn)	190	140- 220					
Manganese	(Mn)	0.09	0.08- 0.60					
Chromium	(Cr)	0.47	0.40- 0.65					
Vanadium	(V)	0.020	0.018- 0.065					
Molybdenum	(Mo)	0.022	0.020- 0.050					
Boron	(B)	0.80	0.25- 1.5					
lodine	(I)	0.49	0.25- 1.8	-				
Lithium	(Li)	0.005	0.007- 0.020					
Phosphorus	(P)	146	150- 220					
Selenium	(Se)	0.66	0.55- 1.1					
Strontium	(Sr)	0.73	0.50- 7.6					
Sulfur	(S)	47400	44000- 50000					
Cobalt	(Co)	0.020	0.005- 0.040					
Iron	(Fe)	5.6	7.0- 16					
Germanium	(Ge)	0.032	0.030- 0.040					
Rubidium	(Rb)	0.003	0.007- 0.096					
Zirconium	(Zr)	0.22	0.020- 0.42					

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
		Ca/Mg	10.4	4- 30
Date Collected: 3/27/2012	Sample Size: 0.199 g	Ca/P	1.99	1- 12
Date Received: 3/31/2012	Sample Type: Head	Na/K	2.4	0.5- 10
Date Completed: 4/3/2012	Hair Color: Blond	Zn/Cu	15.8	4- 20
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800
	Shampoo: Trader Joes Tea Tree			

Health history for hair test 635

- 1) Current symptoms and health history
 - a) Occasional tinnitus
 - b) Dry skin and scalp scalp has been continuously dry for over a year despite efforts to rectify it. I have tried many natural remedies. My scalp previously only got dry during the winter months.
 - c) Occasional white spots in my finger nails
 - d) Lifelong tendency of mild to moderate constipation. I have been able to relieve this through some cleansing and fasting previously, altering my diet to include many more fresh fruits and vegetables and making efforts to avoid wheat/gluten. Magnesium and Vitamin C used as well.
 - e) Difficulty in re-establishing menstrual cycle upon coming off the birth control pill in the four years after coming off the birth control pill. I am now fairly regular but have noticed worsening PMS symptoms despite efforts to alleviate them naturally via the same herbal supplements used initially.
 - f) Occasional heart palpitations. Does not occur with any sort of regularity. I have not been able to identify any triggers. I feel like I have to take a deep breath or multiple deep breaths to get back on track.
 - g) The hair on my scalp has gotten darker and much thinner over the last ten years, less hair on legs and armpits.
 - h) Low blood pressure lowest measured was 80/57
 - i) Hands and feet get cold easily.
 - j) Energy levels seem to be waning
 - k) Lower back muscle soreness; used to correlate this to flexibility. May be an overuse injury as well do to repetitive work that requires me to bend over a lot.

2) Dental History

- a. Wisdom teeth have been removed,
- b. No root canals
- c. Had braces for about 16 months, including a jaw widener for my upper jaw that was in place for three months.
- 3) I currently have two composite fillings that I received in Nov 2011.
- 4) Mother –had amalgams but is not sure when they were put into place. Didn't have any put it while pregnant but may have had some in place between the birth of my sister and myself.
- 5) Vaccinations DTP (Diptheria Tetanus –Pertussis) five shots by age 5, Tetanus booster at 15, MMR (measles, mumps, rubella) age 1 and age 12, Oral Polio vaccine four doses by age 5, Hep B vaccine three shots between Oct 2001 and May 2002, Hep A May 2002, Japanese Encaphalitis three shots between 2003-2004.
- 6) Supplements I was taking a multi vitamin from Garden of Life a Raw women's multi, vitex, licorice root and Progyne. Am now following the AC chelation protocol and taking recommended supplements, plus a few additional such as krill oil, taurine, B2 on top of b-complex, D3

- 7) Age: 32 Height: 5'4" Weight: 114lbs
- 8) A set of tests ordered through the Canary Club and processed by ZRT labs revealed low progesterone levels 38 pg/ml with a range of 75-270 pg/ml for premenopausal women at the Luteal phase. High levels of cortisol at noon 4.8ng/ml range 1.2-3.0 ng/ml. Other levels were within range. High TPO levels 290 IU/ml range 0-150 IU/ml. Need to get another antibody tested (TgAB) to further see if Hasimoto's thyroditis is a possibility. Low vitamin D3 27 ng/ml range 32-100ng/ml. I had 4.5 ng/ml in a range of 2-23 but as per the graph for my age that level is a bit on the low end. T3 levels were also low 2.1 pg/ml with a range of 2.5-6.5 pg/ml.

A blood and urine test ordered through True Health Labs.com and completed by Lab Corp revealed slightly elevated cholesterol 202mg/dL (to be expected with low progesterone, conversion not taking place??) with the elevated level found in the LDL at 114 mg/dL with a range of 0-99 mg/dL. This test also revealed a high RDW (red blood cell width) at 15.8% in a range of 12.3-15.4%. The percentage of neutrophils in the blood was 47% in a range of 40-74%.

I ate a fair amount of freshwater fish (perch, sunfish, bass) growing up as a kid and into adulthood. I did go for a number of years (late childhood into my teens?, not entirely sure of timing) without as I went through a phase where I didn't like fish but then started consuming again.

9)I currently live in Gaithersburg, MD and have lived here for about 7 months. The previous year was spent in Accokeek, MD and the previous 5 years were spent in MN and WI, I have also lived in Eugene and Portland, OR, and New Zealand. I spent my childhood and early adult years in MN and WI.