



PATIENT: Number 649
 ID: PATTEN-I-10000
 SEX: Female
 AGE: 38

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	0.9	< 7.0	
Antimony (Sb)	0.011	< 0.050	
Arsenic (As)	0.031	< 0.060	
Barium (Ba)	1.8	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.018	< 2.0	
Cadmium (Cd)	0.063	< 0.050	
Lead (Pb)	0.22	< 0.60	
Mercury (Hg)	1.0	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.002	< 0.060	
Nickel (Ni)	0.06	< 0.30	
Silver (Ag)	0.14	< 0.15	
Tin (Sn)	0.09	< 0.30	
Titanium (Ti)	0.32	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)	381	300- 1200	
Magnesium (Mg)	65	35- 120	
Sodium (Na)	170	20- 250	
Potassium (K)	50	8- 75	
Copper (Cu)	20	11- 37	
Zinc (Zn)	180	140- 220	
Manganese (Mn)	0.30	0.08- 0.60	
Chromium (Cr)	0.40	0.40- 0.65	
Vanadium (V)	0.017	0.018- 0.065	
Molybdenum (Mo)	0.028	0.020- 0.050	
Boron (B)	5.5	0.25- 1.5	
Iodine (I)	0.50	0.25- 1.8	
Lithium (Li)	0.011	0.007- 0.020	
Phosphorus (P)	189	150- 220	
Selenium (Se)	1.1	0.55- 1.1	
Strontium (Sr)	2.6	0.50- 7.6	
Sulfur (S)	49400	44000- 50000	
Cobalt (Co)	0.011	0.005- 0.040	
Iron (Fe)	5.4	7.0- 16	
Germanium (Ge)	0.026	0.030- 0.040	
Rubidium (Rb)	0.11	0.007- 0.096	
Zirconium (Zr)	0.033	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 8/17/2012		Ca/Mg	5.86
Date Received: 8/20/2012		Ca/P	2.02
Date Completed: 8/22/2012		Na/K	3.4
Methodology: ICP/MS		Zn/Cu	9
Sample Size: 0.197 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Wen			
		RANGE	
		4- 30	
		1- 12	
		0.5- 10	
		4- 20	
		> 800	

1. What are your current symptoms and health history?

- Insomnia (hard to both fall asleep and stay asleep)
- Severe fatigue, esp. in the morning; can't get up for 2-3 hrs
- Hypoglycemia – have to eat every 2 hrs
- Chronic Sinus Congestion (allergies??)
- Cold sores on the lip or shingle breakouts/rashes monthly
- Pain on the right side of the body (eye, ear, teeth, neck, nape, shoulder, under the rib in the Liver/GB area, kidney area, leg, knee, ankle, foot)
- soles of feet hurt,
- Weak legs and arms
- Joint pain, esp. ankles, wrists and fingers
- Flu-like symptoms (muscle aches, nausea, tiredness)
- Cold hands and feet, esp. the right side
- Depression
- Anxiety
- Panic attacks
- Heart racing at night
- Basal body temperature – around 97.5
- Blood pressure – 90/60
- Severe PMS although cycles are on time
 - Cannot sleep a week before (often several days without a single hour of sleep)
 - Swollen and painful breasts, back aches, and heaviness and bloating.

In October 2011, I tested positive for Lyme.

In May, 2012 I did the DMSA urine provocation test under the doctor I was seeing at that time. I had a horrible reaction and sfx. I have been working on rebuilding my gut, liver and kidneys in preparation for AC chelation, and I have already done one round of 5 mg ALA.

2. Dental history (Wisdom teeth removed and when? Yes, at the age of 28. Any other extractions? Yes, 3 more teeth removed (former bridge with two root canals). First root canal placed? I can't remember, but it was before 1999 when I was still living in Ukraine. First amalgam – I have NEVER had any amalgams etc...)
3. What dental work do you currently have in place? 4 root canals and several composite fillings. What part of the dental clean-up have you completed? In 2003, all my root canals have been re-done in the US and crowns have been put on by a biological dentist. He also removed a bridge with two adjacent root canals. Crowns are made of some kind of metal alloy. Unfortunately, I don't know what is in them.
4. What dentistry did your mother have at any time before or during pregnancy? I am not sure but she has NEVER had any amalgams.
5. What vaccinations have you had and when (including flu and especially travel shots)? I had all the vaccinations that were done in Ukraine when I was growing up.

Mumps
Measles
Polio
Rubella
Tetanus
Diphtheria
Pertussis
Hepatitis B

In May 2011, I was planning to go to India and did Hep A, Typhoid and one more (I can't remember the third one). Those shots made me really sick.

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

Liposomal Vitamin C – 4 g

Vitamin D – 2,000 DIU

Fish Oil – 1 tbs

Magnesium – 800 mg

B12 – 2 mg

B-Complex

Drenamin (whole food supplement by Standard Process)

Bentonite Clay

Probiotic – Ther-Biotic by Klaire Labs

Multi-vitamin – Nutrient 950 without Iron and Copper <http://www.vitamin-warehouse.com/Pure-Encapsulations-Nutrient-950A-No-Cu-And-Fe-W-A-180-Vcaps.html>

7. What is your age, height and weight? 38 yrs, 5'0", 110 lbs
8. Other information you feel may be relevant?

I grew up in a very industrially polluted city in Ukraine. When I was 14, there was an epidemic of Alopecia (children started to go bald) due to the chemical spill of Tallium. As a result, schools were closed and all kids were evacuated for about 6 months. Another time our school was closed for a week because a student brought some Hg and spilled it in the hallways. As kids, we played with Hg thermometers and broke them at least a couple of times, so I have been exposed to high amounts of Mercury more than once.

9. What is your location – city & country (so that we can learn where certain toxins are more prevalent). I've been in Houston for 7 yrs. I also lived in Orlando, FL for 5 years and Chernovtsy, Ukraine for 26 yrs.