

HAIR ELEMENTS



PATIENT: Number 107
SEX: Male
AGE: 33
 Livingston County, MI

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.6	< 7.0		
Antimony	0.032	< 0.066		
Arsenic	0.032	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.023	< 2.0		
Cadmium	< 0.009	< 0.15		
Lead	0.60	< 2.0		
Mercury	< 0.03	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.002	< 0.060		
Nickel	0.18	< 0.40		
Silver	0.01	< 0.12		
Tin	0.80	< 0.30		
Titanium	0.78	< 1.0		
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	514	200- 750					
Magnesium	70	25- 75					
Sodium	610	12- 90					
Potassium	24	9- 40					
Copper	8.6	10- 28					
Zinc	150	130- 200					
Manganese	0.29	0.15- 0.65					
Chromium	0.23	0.20- 0.40					
Vanadium	0.018	0.018- 0.065					
Molybdenum	0.023	0.025- 0.064					
Boron	3.3	0.40- 3.0					
Iodine	0.57	0.25- 1.3					
Lithium	0.020	0.007- 0.023					
Phosphorus	216	160- 250					
Selenium	0.80	0.95- 1.7					
Strontium	3.3	0.30- 3.5					
Sulfur	47000	44500- 52000					
Barium	0.75	0.16- 1.6					
Cobalt	0.030	0.013- 0.035					
Iron	11	5.4- 13					
Germanium	0.025	0.045- 0.065					
Rubidium	0.019	0.011- 0.12					
Zirconium	0.13	0.020- 0.44					

SPECIMEN DATA

COMMENTS:

Date Collected: 8/24/2007
 Date Received: 8/28/2007
 Date Completed: 8/31/2007

Sample Size: 0.203 g
 Sample Type: Head
 Hair Color: Brown
 Treatment:
 Shampoo: Pert Plus

Methodology: ICP-MS

V06.99

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	7.34	4- 30
Ca/P	2.38	0.8- 8
Na/K	25.4	0.5- 10
Zn/Cu	17.4	4- 20
Zn/Cd	> 999	> 800

HAIR ELEMENTS



PATIENT: 107b
SEX: Male
AGE: 36

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	0.7	< 7.0	█	
Antimony	0.033	< 0.066	██████████	
Arsenic	0.023	< 0.080	██████	
Barium	1.1	< 1.0	████████████████████	
Beryllium	< 0.01	< 0.020		
Bismuth	0.002	< 2.0	●	
Cadmium	< 0.009	< 0.065		
Lead	0.04	< 0.80	█	
Mercury	< 0.03	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.001	< 0.060	●	
Nickel	0.09	< 0.20	██████████	
Silver	0.03	< 0.08	██████	
Tin	0.15	< 0.30	██████████	
Titanium	0.25	< 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	469	200- 750			██████████		
Magnesium	39	25- 75			██████████		
Sodium	520	20- 180			████████████████████		
Potassium	190	9- 80			████████████████████		
Copper	8.9	11- 30	██████████		██████████		
Zinc	160	130- 200			██████████		
Manganese	0.45	0.08- 0.50			████████████████████		
Chromium	0.43	0.40- 0.70			████████████████████		
Vanadium	0.008	0.018- 0.065	████████████████████		████████████████████		
Molybdenum	0.035	0.025- 0.060			██████████		
Boron	1.4	0.40- 3.0			██████████		
Iodine	0.26	0.25- 1.8			████████████████████		
Lithium	0.037	0.007- 0.020			████████████████████		
Phosphorus	184	150- 220			██████████		
Selenium	0.74	0.70- 1.2			████████████████████		
Strontium	3.4	0.30- 3.5			████████████████████		
Sulfur	44900	44000- 50000			████████████████████		
Cobalt	0.094	0.004- 0.020			████████████████████		
Iron	50	7.0- 16			████████████████████		
Germanium	0.040	0.030- 0.040			████████████████████		
Rubidium	0.036	0.011- 0.12			●		
Zirconium	0.022	0.020- 0.44			████████████████████		

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 4/3/2011	Sample Size: 0.199 g			Ca/Mg	12	4- 30
Date Received: 4/6/2011	Sample Type: Head			Ca/P	2.55	0.8- 8
Date Completed: 4/8/2011	Hair Color: Brown			Na/K	2.74	0.5- 10
Client Reference: 1273720	Treatment:			Zn/Cu	18	4- 20
Methodology: ICP-MS	Shampoo: Jason Natural			Zn/Cd	> 999	> 800

HAIR ELEMENTS



PATIENT: 107c
SEX: Male
AGE: 35

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	5.3	< 12		
Antimony	0.043	< 0.080		
Arsenic	0.054	< 0.12		
Barium	1.4	< 1.5		
Beryllium	< 0.01	< 0.020		
Bismuth	0.011	< 2.0		
Cadmium	0.019	< 0.065		
Lead	0.94	< 1.5		
Mercury	0.03	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.002	< 0.060		
Nickel	0.18	< 0.40		
Silver	< 0.006	< 0.10		
Tin	0.10	< 0.30		
Titanium	0.53	< 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	406	375- 1100					
Magnesium	82	40- 140					
Sodium	590	60- 400					
Potassium	42	28- 160					
Copper	18	11- 32					
Zinc	170	120- 200					
Manganese	0.90	0.15- 0.65					
Chromium	0.44	0.40- 0.70					
Vanadium	0.010	0.018- 0.065					
Molybdenum	0.031	0.040- 0.080					
Boron	2.9	0.40- 2.5					
Iodine	0.72	0.25- 1.8					
Lithium	0.086	0.008- 0.030					
Phosphorus	257	200- 300					
Selenium	1.3	0.80- 1.3					
Strontium	5.1	1.0- 6.0					
Sulfur	44100	41000- 47000					
Cobalt	0.14	0.006- 0.035					
Iron	25	7.0- 16					
Germanium	0.035	0.030- 0.040					
Rubidium	0.034	0.030- 0.25					
Zirconium	0.10	0.040- 1.0					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	11/5/2009	Sample Size:	0.198 g	Ca/Mg	4.95	4- 30
Date Received:	11/9/2009	Sample Type:	Pubic	Ca/P	1.58	0.8- 8
Date Completed:	11/16/2009	Hair Color:	Brown	Na/K	14	0.5- 10
Client Reference:		Treatment:		Zn/Cu	9.44	4- 20
Methodology:	ICP-MS	Shampoo:	Jason	Zn/Cd	> 999	> 800

V010.08

Hair Test 107

Notes

Updated April 2010

<http://www.livingnetwork.co.za/healingnetwork/hairtest.html>

Current symptoms and medical history at first hair test

33yr old, Livingston County, MI

Diagnosed with Ankylosing spondylitis in 2005 after 2 years of progressing joint pain. Immediately found relief from pain and fatigue by starting low carb diet. 2006- removed 6 fillings in 3 visits to a dentist who used cautious techniques. Between 2nd and 3rd visit, I mistakenly started taking DMSA 12.5 mg every 4 hours. The consequences were severe antisocial feelings, brain fog, fatigue, and irritability. I was dysfunctional for 3 days, but quickly improved by stopping DMSA, finishing the removals, and starting properly again. I quickly made it up to 25 mg DMSA and started ALA after 3 months. I could only tolerate 8 mg at first but quickly moved up to 25 mg. I haven't been able to increase from 25 mg for the past year. (to 37.5mg). I am extremely dependent on the candida diet. There is very little I can eat- eggs, green veggies, and coconut oil, not much else. Tomatoes recently started to bother me. I have been a big coffee drinker for 7 years and was able to be symptom-free while drinking it, but recently it seems to aggravate Candida.

I had allergy injections as a child and again the last few years. Recent shots did not contain thimerosal, but I cannot confirm the earlier ones. I have gotten several flu shots and a full set of vaccines as a child. Most of my life I have worked in buildings that had broken thermometers which may not have been cleaned up properly.

I had braces 20 years ago, which contacted amalgams.

I've always been thin, but after starting the diet, I lost 25 pounds and now I'm 6'1" and 155 lb. I remember my ALT and bilirubin being high about 12 years ago. They were still high in 2005. Recent supplements and chelation have brought them to within normal ranges.

2) Supplements and medications at the time of hair test

2g omega 3 daily,

oil of oregano (lots),

8-12g vit c daily,

833 mg magnesium bid,

1,000mg gaba occasionally,

600mg milk thistle daily,

10,000 IU vit A daily,

50mg pregnenolone daily,

B50 once or twice daily,

2500 mg B12 sublingual daily,

600 mg N-AC daily,

prednisolone tapers occasionally,

but I usually have to take 2.5 mg in am to function;

200mcg selenium daily,

1,000 mg vit E daily,

30 mg zinc once or twice daily,

1,000 IU vit D daily (was on 4,000 IU for 2 years, up to 1 mo ago),

3mg melatonin at bedtime.

Other things I use in streaks: Vinpocetine, phosphatidylserine, phosphatidylcholine, Glutamine, Arginine, DHEA. Either expense or lack of efficacy prevents using them.

Additional hair test information 2011:

Since the first test in 2007, I have chelated mostly with 50mg ALA alone. About the time of the 2009 hairtest, I became unbearably painful (joints), and a low carb diet no longer would control it.

Immune suppressing meds for rheumatoid arthritis made me worse overall. Starting antibiotics to treat for infectious things (Lyme, mycoplasma, etc.) brought some relief and has stabilized the disease for the past 6 months. Tests for all infectious things have been negative except 4 bands on a Lyme western blot.

I've done everything to control yeast and I still cannot tolerate carbs beyond meat and green vegetables. My weight has dropped extremely. Most endocrine processes are not functioning well: exocrine pancreas, thyroid, adrenals, and recently testosterone.

I am currently on Nystatin, Armour, 15mg hydrocortisone, Doxycycline, plaquenil, Vicodin, Magnesium, Vit C, Vit A, Calcium, Hyaluronic acid, Glucosamine, and digestive enzymes.

Thanks