HAIR ELEMENTS



PATIENT: Number 455

SEX: Female AGE: 65

LOCATION: Rohnert Park, CA, USA

POTENTIALLY TOXIC ELEMENTS							
TOXIC	RESULT	SULT REFERENCE		PERCENTILE			
ELEMENTS	μg/g	RANGE		68 ^{ti}	h	95 th	
Aluminum	6.0	< 12					
Antimony	0.017	< 0.060			······		
Arsenic	0.054	< 0.090					
Barium	10	< 2.0					
Beryllium	< 0.01	< 0.020					
Bismuth	0.047	< 2.0	•				
Cadmium	0.055	< 0.050					
Lead	0.12	< 1.0			_		
Mercury	0.24	< 0.80					
Platinum	< 0.003	< 0.005	<u> </u>				
Thallium	0.001	< 0.002	•				
Thorium	< 0.001	< 0.002	<u></u>				
Uranium	0.004	< 0.060	•				
Nickel	0.19	< 0.40					
Silver	0.02	< 0.10					
Tin	0.04	< 0.30	-				
Titanium	2.6	< 1.3					
Total Toxic Representa	ation						
		ESSENTIAL	ANE	OTHER ELEMENTS	3		
	RESULT	REFERENCE			PERCENTI	LE	
ELEMENTS	μg/g	RANGE	2.5	th 16 th	50 th	84	4 th 97.5 th
Calcium	2400	475- 1500					
Magnesium	390	45- 180	-				
Sodium	350	80- 450					
Potassium	99	28- 160					
Copper	8.1	11- 30					
Zinc	140	130- 200					
Manganese	0.06	0.15- 0.65					•••••
Chromium	0.39	0.40- 0.65					
Vanadium	0.038	0.018- 0.065				D	
Molybdenum	0.11	0.040- 0.10					•
Boron	12	0.40- 4.0	-				
Iodine	0.23	0.25- 1.8	-				
Lithium	0.013	0.008- 0.030			-		
Phosphorus	1110	250- 500	-				
Selenium	0.72	0.80- 1.3					
Strontium	18	1.0- 8.0					
Sulfur	46500	42000- 48000					
Cobalt	0.008	0.006- 0.035					
Iron	13	7.0- 16					
Germanium	0.029	0.030- 0.040					
Rubidium	0.039	0.030- 0.25					
Zirconium	0.027	0.040- 1.0					
		PECIMEN DATA				RATIOS	
COMMENTS:							EXPECTED
	/23/2010	Sample Size:	Λ.	203 g	ELEMENTS	RATIOS	RANGE
	/28/2010	Sample Type:		bic	Ca/Mg	6.15	4- 30
Date Completed: 12/		Hair Color:		own	Ca/Ng Ca/P	2.16	1- 12
Client Reference: 125		Treatment:	נם	OM11	Na/K	3.54	0.5- 10
	9-MS	Shampoo:	Do	sert Essence	Zn/Cu	17.3	4- 20
wichiodology.	M5	snampou.	ьe	V010.08	Zn/Cd	> 999	> 800
				¥010.00	Zii/Cu	7 333	, 000



HAIR TEST: Number 455 follow-up

SEX: Female AGE: 67

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	3.4	< 12			
Antimony	(Sb)	0.013	< 0.060	-		
Arsenic	(As)	0.046	< 0.090			
Barium	(Ba)	13	< 2.0			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	0.067	< 2.0	•		
Cadmium	(Cd)	0.016	< 0.050			
Lead	(Pb)	0.42	< 1.0			
Mercury	(Hg)	0.21	< 0.80			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	< 0.001	< 0.002			
Uranium	(U)	0.006	< 0.060			
Nickel	(Ni)	0.08	< 0.40			
Silver	(Ag)	0.02	< 0.10			
Tin	(Sn)	0.11	< 0.30			
Titanium	(Ti)	2.1	< 1.3			
Total Toxic Representatio	n					

ESSENTIAL AND OTHER ELEMENTS							
		RESULT	REFERENCE				
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th			
Calcium	(Ca)	2680	475- 1500				
Magnesium	(Mg)	280	45- 180				
Sodium	(Na)	52	80- 450				
Potassium	(K)	11	28- 160				
Copper	(Cu)	9.4	11- 30				
Zinc	(Zn)	170	130- 200				
Manganese	(Mn)	0.32	0.15- 0.65	•			
Chromium	(Cr)	0.35	0.40- 0.65				
Vanadium	(V)	0.022	0.018- 0.065				
Molybdenum	(Mo)	0.51	0.040- 0.10				
Boron	(B)	1.3	0.40- 4.0	•			
lodine	(I)	0.17	0.25- 1.8				
Lithium	(Li)	0.013	0.008- 0.030				
Phosphorus	(P)	1360	250- 500				
Selenium	(Se)	1.1	0.80- 1.3	-			
Strontium	(Sr)	17	1.0- 8.0				
Sulfur	(S)	48300	42000- 48000				
Cobalt	(Co)	0.013	0.006- 0.035	•			
Iron	(Fe)	11	7.0- 16				
Germanium	(Ge)	0.036	0.030- 0.040				
Rubidium	(Rb)	0.007	0.030- 0.25				
Zirconium	(Zr)	0.052	0.040- 1.0				

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	9.57	4- 30	
Date Collected: 5/24/2012	Sample Size: 0.196 g	Ca/P	1.97	1- 12	
Date Received: 5/29/2012	Sample Type: Pubic	Na/K	4.73	0.5- 10	
Date Completed: 6/1/2012	Hair Color: Brown	Zn/Cu	18.1	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo: Desert Essence				



HAIR TEST: Number 455 - follow-up

SEX: Female AGE: 71

Toxic & Essential Elements; Hair

TOXIC METALS					
		RESULT μg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th	
Aluminum	(AI)	7.4	< 7.0		
Antimony	(Sb)	0.021	< 0.050		
Arsenic	(As)	0.14	< 0.060		
Barium	(Ba)	2.3	< 2.0		
Beryllium	(Be)	< 0.01	< 0.020		
Bismuth	(Bi)	0.069	< 2.0	•	
Cadmium	(Cd)	0.025	< 0.050		
Lead	(Pb)	0.37	< 0.60		
Mercury	(Hg)	0.13	< 0.80		
Platinum	(Pt)	< 0.003	< 0.005		
Thallium	(TI)	< 0.001	< 0.002		
Thorium	(Th)	< 0.001	< 0.002		
Uranium	(U)	0.003	< 0.060		
Nickel	(Ni)	0.06	< 0.30		
Silver	(Ag)	0.01	< 0.15	•	
Tin	(Sn)	0.44	< 0.30		
Titanium	(Ti)	0.32	< 0.70		
Total Toxic Representa	tion				

ESSENTIAL AND OTHER ELEMENTS							
		RESULT	REFERENCE	PERCENTILE			
		μg/g	INTERVAL	2.5 th 16 th	50 th 84 th 97.5 th		
Calcium	(Ca)	448	300- 1200				
Magnesium	(Mg)	380	35- 120				
Sodium	(Na)	100	20- 250				
Potassium	(K)	36	8- 75				
Copper	(Cu)	10	11- 37				
Zinc	(Zn)	170	140- 220				
Manganese	(Mn)	0.32	0.08- 0.60				
Chromium	(Cr)	0.39	0.40- 0.65				
Vanadium	(V)	0.041	0.018- 0.065				
Molybdenum	(Mo)	0.035	0.020- 0.050				
Boron	(B)	5.2	0.25- 1.5				
Iodine	(1)	1.6	0.25- 1.8				
Lithium	(Li)	< 0.004	0.007- 0.020				
Phosphorus	(P)	155	150- 220				
Selenium	(Se)	1.6	0.55- 1.1				
Strontium	(Sr)	2.6	0.50- 7.6				
Sulfur	(S)	45300	44000- 50000				
Cobalt	(Co)	0.015	0.005- 0.040				
Iron	(Fe)	9.1	7.0- 16				
Germanium	(Ge)	0.029	0.030- 0.040	_			
Rubidium	(Rb)	0.031	0.007- 0.096		•		
Zirconium	(Zr)	0.012	0.020- 0.42				

SPECIMEN DATA			RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE	
		Ca/Mg	1.18	4- 30	
Date Collected: 01/31/2016	Sample Size: 0.203 g	Ca/P	2.89	1- 12	
Date Received: 02/04/2016	Sample Type: Head	Na/K	2.78	0.5- 10	
Date Completed: 02/08/2016	Hair Color: Brown	Zn/Cu	17	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo: Dr Bronners Soap				

Health history for hair test 455 - Feb 2016

1) The last test shows high arsenic, 95th percentile, and that's my concern. Andy seems to say that arsenic levels on hair test are fairly accurate and not affected by deranged mineral transport. I don't currently meet any counting rules, not even close, so that shouldn't be an issue with the high arsenic, anyway. Since I'm not entirely sure what Andy's saying about how arsenic is affected in hair, I'm wondering whether my arsenic level has always been high or if it's from a new exposure.

I do have a new symptom, apparent neuropathy (the backs of my hands and my legs sometimes have burning, stinging sensations.) Otherwise my symptoms are consistent with Lyme disease, which I've had for 28 years.

- 2) My amalgams were all removed about 25 years ago.
- 3) My only current dental work is composite fillings.
- 4) My mother had lots of dental work in her mouth, probably most of it was present during her pregnancy with me.
- 5) I haven't had any vaccinations in the past 25 years.
- 6) Supplements:

15 mg HC

6-8 g vitamin C

2 g L-glutamine

1.5 g DMG

2 g mastic gum

2 g acetyl L- carnitine

1 tbsp cod liver oil

1 tbsp fish oil

5,000 IU D3

3000 mg black currant seed oil

2000 mg Conjugated linoleic acid

200 mcg Selenium

50 mg Zinc

K2: 200mcg as menaquinone-7, 1300 as mcg menaquinone-4

1000 mcg lodine

200 mg Ubiquinol

650 mg Gamma E w/mixed tocopherols & tocotrienols

1/2 tsp Epsom salt

150 mcg Molybdenum

1600 mg Slippery elm bark

600 mg Milk thistle extract

1 g calcium D-glucarate

400 mcg huperzine A

Digestive enzymes w/ meals

20,000 diamineoxidase (histamine blocker)

1.5 g estriol cream 2 nights/week

50 mg doxylamine succinate (Unisom)

.25 mg Klonopin approximately alternate nights

1/8 tsp progesterone cream

- 7) I stopped chelating 10/18/2015 because the Lyme treatment I was doing was rough then, and interrupting sleep was just a little too much. The last round was my 149th.
- 8) I'm in Santa Rosa, California

9 Uf ']Yf \ ealth history for hair test 455

Here's my hair test. This was done after I'd chelated for close to six months.

Answers to the questions:

- 1. Became ill ~ 24 years ago while working in a chemical lab. Diagnosed then with chronic Epstein Barr virus, later with Chronic Fatigue Syndrome and ~ 6 years ago with chronic Lyme disease. Symptoms: short-term memory problems, cognitive problems, low energy, post-exertional fatigue, MCS, food sensitivities that worsen my symptoms, double vision and floaters esp. in left eye, tinnitus, sore joints in response to food & other sensitivities, depression & anxiety also in response to food sensitivities. History of depression since adolescence.
- 2. Only one wisdom tooth; had it removed ~ 20 years ago. One root canal placed ~ 35 years ago, removed ~ 5 years ago. First amalgam placed around age 10, only 4 total, these removed ~ 20 years ago.
- 3. No dental work currently in place.
- 4. I don't know my mother's dental history.
- 5. Usual chilhood vaccinations for someone my age (66), no flu shots since about 1988, I don't remember any other shots, though I may have had some.
- 6. Supplements, etc.
 - 1. Vitamin C, 1 gram
 - 2. Vitamin E, 400 IU
 - 3. Molybdenum, 1mg
 - 4. Borage oil, 960 mg
 - 5. Fish oil (salmon), 1 tsp.
 - 6. Cod liver oil, 1/2 tsp.
 - 7. Unisom, 1 tablet on chelation nights
 - 8. Cortisol, 5 mg. on chelation days
 - 9. Exhilarin (ashwaganda, & other herbs), an occasional tablet
 - 10. B-50, 1/2 capsule occasionally
- 7. I'm 66, 5' 1 1/2", 135 lb.
- 8. Can't think of anything
- 9. Rohnert Park, CA, USA. I got sick in Southern California (San Bernardino County)

While I don't know my mother's dental history, I do know she had fillings, bridges and crowns. She told me she played with mercury as a child.

The lab where I worked had a lot of mercury from broken instruments lying around, and very poor ventilation.

I didn't chelate right after amalgam removal because I didn't know it was necessary. The removal did make me feel a lot better for several months, then I got sicker, just the way Andy describes in AI. I did attempt chelation about six years ago. I was using 200 mg of DMSA twice a day and after about three months of that, I got a rash from the DMSA and had to quit. I followed that with 200 mg. of ALA once or twice a day for a couple of years at least, and my health declined during that time - all my symptoms

got worse, including the sensitivities to food and other substances. I've always thought 90% of my symptoms are actually caused by my sensitivities to foods, supplements, and environmental contaminants.