



PATIENT: Number 579
 SEX: Male
 AGE: 22

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.3	< 7.0	
Antimony (Sb)	0.013	< 0.066	
Arsenic (As)	0.024	< 0.080	
Barium (Ba)	0.30	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.30	< 2.0	
Cadmium (Cd)	0.010	< 0.065	
Lead (Pb)	0.06	< 0.80	
Mercury (Hg)	0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.019	< 0.060	
Nickel (Ni)	0.12	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.08	< 0.30	
Titanium (Ti)	0.37	< 0.60	
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)	517	200- 750			
Magnesium (Mg)	50	25- 75			
Sodium (Na)	21	20- 180			
Potassium (K)	5	9- 80			
Copper (Cu)	15	11- 30			
Zinc (Zn)	210	130- 200			
Manganese (Mn)	0.09	0.08- 0.50			
Chromium (Cr)	0.36	0.40- 0.70			
Vanadium (V)	0.019	0.018- 0.065			
Molybdenum (Mo)	0.024	0.025- 0.060			
Boron (B)	1.1	0.40- 3.0			
Iodine (I)	1.1	0.25- 1.8			
Lithium (Li)	0.005	0.007- 0.020			
Phosphorus (P)	170	150- 220			
Selenium (Se)	0.69	0.70- 1.2			
Strontium (Sr)	2.2	0.30- 3.5			
Sulfur (S)	47300	44000- 50000			
Cobalt (Co)	0.005	0.004- 0.020			
Iron (Fe)	5.5	7.0- 16			
Germanium (Ge)	0.029	0.030- 0.040			
Rubidium (Rb)	0.006	0.011- 0.12			
Zirconium (Zr)	0.38	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 1/23/2012		Ca/Mg	10.3
Date Received: 1/27/2012		Ca/P	3.04
Date Completed: 1/29/2012		Na/K	4.2
Methodology: ICP/MS		Zn/Cu	14
Sample Size: 0.197 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Brown	Treatment:		
Shampoo: Suave			
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800



PATIENT: Bi a Vyf) +-
 SEX: Male
 AGE: 23

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.3	< 7.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.043	< 0.080	
Barium (Ba)	0.09	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.17	< 2.0	
Cadmium (Cd)	0.012	< 0.065	
Lead (Pb)	0.29	< 0.80	
Mercury (Hg)	0.05	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.001	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.27	< 0.60	
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)	224	200- 750			
Magnesium (Mg)	25	25- 75			
Sodium (Na)	18	20- 180			
Potassium (K)	3	9- 80			
Copper (Cu)	11	11- 30			
Zinc (Zn)	210	130- 200			
Manganese (Mn)	0.05	0.08- 0.50			
Chromium (Cr)	0.35	0.40- 0.70			
Vanadium (V)	0.020	0.018- 0.065			
Molybdenum (Mo)	0.021	0.025- 0.060			
Boron (B)	1.2	0.40- 3.0			
Iodine (I)	0.57	0.25- 1.8			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	175	150- 220			
Selenium (Se)	0.92	0.70- 1.2			
Strontium (Sr)	0.61	0.30- 3.5			
Sulfur (S)	47000	44000- 50000			
Cobalt (Co)	0.003	0.004- 0.020			
Iron (Fe)	5.3	7.0- 16			
Germanium (Ge)	0.037	0.030- 0.040			
Rubidium (Rb)	0.004	0.011- 0.12			
Zirconium (Zr)	0.36	0.020- 0.44			

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 4/7/2012	Sample Size: 0.202 g	Ca/Mg	8.96	4- 30
Date Received: 4/10/2012	Sample Type: Head	Ca/P	1.28	0.8- 8
Date Completed: 4/16/2012	Hair Color: Brown	Na/K	6	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	19.1	4- 20
	Shampoo: Aveeno	Zn/Cd	> 999	> 800

Health history for hair test 579

What are your current symptoms and health history?

Poor memory, fatigued, bloating, constipation, strange flushing and hot sensation all over my body(feet, hands, face, lower back, arms, stomach), feel spaced out and foggy fairly often. The most notable symptoms are the flushing and heat sensations which began about 1.5 years ago. Full story here - <http://health.groups.yahoo.com/group/frequent-dose-chelation/message/79791>

Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)

I requested my dental records a few weeks ago but was told they are in storage and they seemed annoyed. They did tell me my first amalgam was at age 4, followed by at least 6 but maybe a few more by age 8 or so. These were all baby teeth and I have never had an amalgam since losing them naturally.

What dental work do you currently have in place? What part of the dental clean-up have you completed?

Over 10 cavities filled with white composite.

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

A few amalgams and a few partial amalgams which she still has.

What vaccinations have you had and when (including flu and especially travel shots)?

All as a kid. Born in 1989. The most recent was around 4 years ago when I received 2 hep b shots which was a college requirement.

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

None

What is your age, height and weight?

21, 5' 7", 145

Other information you feel may be relevant?

Work at a chemical plant inside of a maintenance shop that does metal grinding daily. Have been exposed to 50lbs of mercury spilled at work around 3-4 years ago at paper mill. The spill was kicked down storm drains by co-workers. One co-worker filled a 20oz bottle with mercury and took it home.

What is your location – city & country (so that we can learn where certain toxins are more prevalent).

Jesup, GA.