



PATIENT: Number 719
 SEX: Male
 AGE: 43

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	0.9	< 7.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.038	< 0.080	
Barium (Ba)	1.3	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.047	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.04	< 0.80	
Mercury (Hg)	0.21	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.023	< 0.060	
Nickel (Ni)	0.02	< 0.20	
Silver (Ag)	0.01	< 0.08	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.22	< 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)	322	200- 750			
Magnesium (Mg)	35	25- 75			
Sodium (Na)	140	20- 180			
Potassium (K)	23	9- 80			
Copper (Cu)	11	11- 30			
Zinc (Zn)	200	130- 200			
Manganese (Mn)	0.10	0.08- 0.50			
Chromium (Cr)	0.53	0.40- 0.70			
Vanadium (V)	0.016	0.018- 0.065			
Molybdenum (Mo)	0.015	0.025- 0.060			
Boron (B)	4.0	0.40- 3.0			
Iodine (I)	0.97	0.25- 1.8			
Lithium (Li)	0.009	0.007- 0.020			
Phosphorus (P)	176	150- 220			
Selenium (Se)	0.69	0.70- 1.2			
Strontium (Sr)	2.1	0.30- 3.5			
Sulfur (S)	46300	44000- 50000			
Cobalt (Co)	0.002	0.004- 0.020			
Iron (Fe)	5.1	7.0- 16			
Germanium (Ge)	0.035	0.030- 0.040			
Rubidium (Rb)	0.016	0.011- 0.12			
Zirconium (Zr)	0.011	0.020- 0.44			

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 12/03/2012		Ca/Mg	9.2
Date Received: 12/07/2012		Ca/P	1.83
Date Completed: 12/10/2012		Na/K	6.09
Methodology: ICP/MS		Zn/Cu	18.2
Sample Size: 0.196 g	Sample Type: Head	Zn/Cd	> 999
Hair Color:	Treatment:		
Shampoo: Broener			
		RANGE	
		4- 30	
		0.8- 8	
		0.5- 10	
		4- 20	
		> 800	



SEX: Male
DOB: 10/27/1969

AGE: 50

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	6.4	< 12	
Antimony (Sb)	0.025	< 0.080	
Arsenic (As)	0.066	< 0.12	
Barium (Ba)	0.18	< 1.5	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.081	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.09	< 1.5	
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)	0.070	< 0.060	
Nickel (Ni)	0.05	< 0.40	
Silver (Ag)	< 0.006	< 0.10	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.24	< 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)	215	375- 1100	
Magnesium (Mg)	160	40- 140	
Sodium (Na)	59	60- 400	
Potassium (K)	18	28- 160	
Copper (Cu)	8.6	11- 32	
Zinc (Zn)	130	120- 200	
Manganese (Mn)	0.24	0.15- 0.65	
Chromium (Cr)	0.43	0.40- 0.70	
Vanadium (V)	0.027	0.018- 0.065	
Molybdenum (Mo)	0.045	0.040- 0.080	
Boron (B)	1.5	0.40- 2.5	
Iodine (I)	1.2	0.25- 1.8	
Lithium (Li)	0.011	0.008- 0.030	
Phosphorus (P)	210	200- 300	
Selenium (Se)	1.3	0.80- 1.3	
Strontium (Sr)	0.28	1.0- 6.0	
Sulfur (S)	44600	41000- 47000	
Cobalt (Co)	0.007	0.006- 0.035	
Iron (Fe)	5.3	7.0- 16	
Germanium (Ge)	0.031	0.030- 0.040	
Rubidium (Rb)	0.008	0.030- 0.25	
Zirconium (Zr)	0.018	0.040- 1.0	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 07/05/2020	Sample Size: 0.196 g	Ca/Mg	1.34
Date Received: 07/10/2020	Sample Type: Pubic	Ca/P	1.02
Date Reported: 07/13/2020	Hair Color:	Na/K	3.28
Methodology: ICP/MS	Treatment:	Zn/Cu	15.1
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

Hair Test 719

1. **What are your current symptoms and health history?** fatigue, muscle pains, muscle cramps, muscle twitches, insomnia,
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** - first amalgams when I was 8-9
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** removed all amalgams in 12/2003.
4. **What dentistry did your mother have at any time before or during pregnancy?** not sure about that
5. **What vaccinations have you had and when (including flu and especially travel shots)?** - all flu shoots that were kids receiving back in 1970-80 in former Yugoslavia
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** nothing
7. **What is your age, height and weight?** 43, 181, 71 kg
8. Other information you feel may be relevant?
9. **What is your location – city & country (so that we can learn where certain toxins are more prevalent).**- Houston, TX