



SEX: Female  
AGE: 62

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	14	< 7.0	
Antimony (Sb)	0.092	< 0.050	
Arsenic (As)	0.058	< 0.060	
Barium (Ba)	0.25	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.38	< 2.0	
Cadmium (Cd)	0.047	< 0.050	
Lead (Pb)	7.9	< 0.60	
Mercury (Hg)	0.04	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.010	< 0.060	
Nickel (Ni)	0.13	< 0.30	
Silver (Ag)	0.03	< 0.15	
Tin (Sn)	0.16	< 0.30	
Titanium (Ti)	0.17	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	366	300- 1200			
Magnesium (Mg)	14	35- 120			
Sodium (Na)	480	20- 250			
Potassium (K)	320	8- 75			
Copper (Cu)	11	11- 37			
Zinc (Zn)	32	140- 220			
Manganese (Mn)	0.14	0.08- 0.60			
Chromium (Cr)	0.41	0.40- 0.65			
Vanadium (V)	0.033	0.018- 0.065			
Molybdenum (Mo)	0.032	0.020- 0.050			
Boron (B)	0.87	0.25- 1.5			
Iodine (I)	0.20	0.25- 1.8			
Lithium (Li)	0.004	0.007- 0.020			
Phosphorus (P)	124	150- 220			
Selenium (Se)	0.61	0.55- 1.1			
Strontium (Sr)	0.20	0.50- 7.6			
Sulfur (S)	48800	44000- 50000			
Cobalt (Co)	0.009	0.005- 0.040			
Iron (Fe)	5.6	7.0- 16			
Germanium (Ge)	0.030	0.030- 0.040			
Rubidium (Rb)	0.21	0.007- 0.096			
Zirconium (Zr)	0.015	0.020- 0.42			

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 04/06/2015	Sample Size: 0.2 g	Ca/Mg	26.1	4- 30
Date Received: 04/27/2015	Sample Type: Head	Ca/P	2.95	1- 12
Date Completed: 04/30/2015	Hair Color: Brown	Na/K	1.5	0.5- 10
Methodology: ICP/MS	Treatment: Dye	Zn/Cu	2.91	4- 20
	Shampoo: Various	Zn/Cd	681	> 800

**1. What are your current symptoms and health history?**

Feet tingling (before also hands, improved through B complex supplementation), migraines, poor vision, depressions and mood instability – easily irritable, excessive fear etc. Difficulties with concentration. Most symptoms arose after amalgam placement.

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

Eight amalgams placed soon after 1980 (first pregnancy caused teeth deterioration). No root canals nor braces.

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

Most of the fillings were removed in 2014-2015 only 2 are being left. Three wisdom teeth removed between 1980-1990. Dental bridges on upper and lower jaw.

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

Not sure anymore.

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

All common childhood vaccines. No flu and travel shots.

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

Mild multivitamine tab 1/day. Long time using antidepressiva (from 1985 on), mostly Rudotel (medazepam). From 2012 2tbs/day of Asentra (sertralin). Currently lowering the doses.

**7. What is your age, height and weight?**

62 years old, 163cm, 60kg

**8. Other information you feel may be relevant?**

20 years work in lead recycling factory is probably the main cause of high hair lead. Living in a city with high levels of uranium (mining in the past).

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

Pribram, Czech republic