



PATIENT: Hair Test 610  
 SEX: Female  
 AGE: 58

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	2.6	< 7.0	
Antimony (Sb)	0.013	< 0.050	
Arsenic (As)	0.044	< 0.060	
Barium (Ba)	0.14	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.018	< 2.0	
Cadmium (Cd)	0.015	< 0.050	
Lead (Pb)	0.18	< 0.60	
Mercury (Hg)	2.9	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.034	< 0.060	
Nickel (Ni)	0.05	< 0.30	
Silver (Ag)	0.03	< 0.15	
Tin (Sn)	0.04	< 0.30	
Titanium (Ti)	0.40	< 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)	555	300- 1200	
Magnesium (Mg)	49	35- 120	
Sodium (Na)	16	20- 250	
Potassium (K)	8	8- 75	
Copper (Cu)	9.5	11- 37	
Zinc (Zn)	210	140- 220	
Manganese (Mn)	0.06	0.08- 0.60	
Chromium (Cr)	0.42	0.40- 0.65	
Vanadium (V)	0.037	0.018- 0.065	
Molybdenum (Mo)	0.027	0.020- 0.050	
Boron (B)	0.37	0.25- 1.5	
Iodine (I)	0.39	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	231	150- 220	
Selenium (Se)	0.75	0.55- 1.1	
Strontium (Sr)	1.5	0.50- 7.6	
Sulfur (S)	48200	44000- 50000	
Cobalt (Co)	0.005	0.005- 0.040	
Iron (Fe)	7.5	7.0- 16	
Germanium (Ge)	0.029	0.030- 0.040	
Rubidium (Rb)	0.003	0.007- 0.096	
Zirconium (Zr)	0.008	0.020- 0.42	

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 2/25/2012	Sample Size: 0.192 g	Ca/Mg	11.3
Date Received: 3/5/2012	Sample Type: Head	Ca/P	2.4
Date Completed: 3/7/2012	Hair Color:	Na/K	2
Methodology: ICP/MS	Treatment:	Zn/Cu	22.1
	Shampoo: Ph5	Zn/Cd	> 999
		<b>RANGE</b>	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

## **Health history for hair test 610**

### **What are your current symptoms and health history?**

Since April 2011 diagnosed with Amyotrophic lateral sclerosis (ALS) and currently in threatment with Dexpramipexole. Recent symptoms are weakness in the left leg. It's geting worst very fast and I had recently 4 falls, some of them so serous that I got bolts (stainles steel) in my bones.

I had one operation for varicose veins and 2 other ovary operations (Endometriosis and Epidermoid cyst) . After the second of the Ovary operations the period stopped (43 years old at that time).

I have a collapse in the Mitral Valve, and I had many headache until menopause started ... 4 or 5 years ago I got a magnetic resonance because of vertigo and they found out some demyelinating situation. Doctors were surprised because it looked like the brain of a 80 years old person ... now I can see the relation with my current problems.

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

first fillings as I was 13 years old. Between 20 and 30, all mouth was filled with amalgam including replacement of fillings and implants. Since 40 years old Dental work not changed, just normal maintenance.

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

Lately I've started removing amalgams following secure extraction procedures. I have all mouth filled with different materials. Just two fillings are still amalgam. I'm waiting as well for another two implants

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

my mother dyed as she was 65 years old. No answer possible.

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

Typical childhood shots.

10 Years ago, Tetanus and antimalaria pills before traveling to India and Africa.

This year the Flu

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

Daily

2 pills Dexpramipexole

1 pill Riluzol

1 pill Omeprazol

½ pill fluoxitina

1 ½ pill orfidal

### **What is your age, height and weight?**

58 years old, 75 Kg and 1.75 m

### **Other information you feel may be relevant?**

My father is suffering Parkinson since 15 years ago (now 88) and one of my systers suffers Schizophrenia

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

Barcelona, Spain