

# HAIR ELEMENTS



**PATIENT: Number 612**  
**SEX: Male**  
**AGE: 36**

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	2.5	< 7.0		
Antimony	0.016	< 0.066		
Arsenic	0.036	< 0.080		
Barium	1.0	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.007	< 2.0		
Cadmium	0.027	< 0.065		
Lead	0.23	< 0.80		
Mercury	0.37	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.082	< 0.060		
Nickel	0.08	< 0.20		
Silver	0.02	< 0.08		
Tin	0.07	< 0.30		
Titanium	0.66	< 0.60		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	1280	200- 750					
Magnesium	140	25- 75					
Sodium	27	20- 180					
Potassium	23	9- 80					
Copper	13	11- 30					
Zinc	210	130- 200					
Manganese	0.11	0.08- 0.50					
Chromium	0.40	0.40- 0.70					
Vanadium	0.022	0.018- 0.065					
Molybdenum	0.041	0.025- 0.060					
Boron	1.6	0.40- 3.0					
Iodine	1.1	0.25- 1.8					
Lithium	0.014	0.007- 0.020					
Phosphorus	167	150- 220					
Selenium	0.85	0.70- 1.2					
Strontium	7.8	0.30- 3.5					
Sulfur	43600	44000- 50000					
Cobalt	0.008	0.004- 0.020					
Iron	8.8	7.0- 16					
Germanium	0.030	0.030- 0.040					
Rubidium	0.022	0.011- 0.12					
Zirconium	0.32	0.020- 0.44					

SPECIMEN DATA			RATIOS		
<b>COMMENTS:</b>			<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected: 4/26/2011	Sample Size: 0.198 g		Ca/Mg	9.14	4- 30
Date Received: 4/29/2011	Sample Type: Head		Ca/P	7.66	0.8- 8
Date Completed: 5/4/2011	Hair Color: Black		Na/K	1.17	0.5- 10
Client Reference:	Treatment:		Zn/Cu	16.2	4- 20
Methodology: ICP-MS	Shampoo: Tresemmé		Zn/Cd	> 999	> 800

V010.08

## **Hair Test History 612**

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

#### **Symptoms at the time of this hair test:**

tinnitus (ringing in the ears), muscle fatigue, back pain, hot flushed feelings, headaches, and loss of appetite.

#### **Medical history:**

Diagnosed with Hodgkin's Lymphoma, 1988

Months of chemotherapy followed by an autologous bone marrow transplant in 1989

Bronchitis, pneumonia, occupational TB exposure treated with isoniazid 1996

Acute strep A ankle infection treated with LOTS of antibiotics, 2006

Chronic myeloid leukemia diagnosis, December 2009

### **Dental history (Wisdom teeth removed and when? Any other extractions.**

First root canal placed? Braces? First amalgam etc...)

No amalgam fillings since baby teeth fell out

Both lower wisdom teeth and upper first bicuspids extracted circa 1991 in preparation for braces

Upper left molar (#15, I believe) extracted 2010

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

Lots of composite fillings

One composite overlay

No root canals

No implants

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

My mother had 3 amalgam fillings placed before I was born, these fillings were later replaced with gold and porcelain but she is not sure if this was done before or after my birth.

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

Flu vaccine, fall 2010

Numerous pneumococcal vaccines, 2006 (and every 5 years before that starting in 1991)

Numerous vaccines as a kid during the 1970s and 80s

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

Don't have the complete list of supplements I was on at the time, but

I could have been taking any or all of the following:

green tea

curcumin

resveratrol

vitamin D3  
fish oil  
astragalus

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

37 years old,  
5 feet, 9 inches tall,  
147 pounds

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

Worked with elemental mercury in a chemistry laboratory for five years  
starting in 2006

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

1974-1996 Central Illinois (Springfield, Champaign)  
1996-2005 Northern California (Folsom, Sacramento)  
2005-2012 Mesa, Arizona