

# HAIR ELEMENTS



PATIENT: Number 426  
SEX: Male  
AGE: 60  
LOCATION: Arlington Va., USA

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	7.6	< 7.0		
Antimony	0.22	< 0.066		
Arsenic	0.077	< 0.080		
Barium	0.88	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.028	< 2.0		
Cadmium	0.62	< 0.065		
Lead	9.7	< 0.80		
Mercury	3.1	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.009	< 0.060		
Nickel	0.67	< 0.20		
Silver	0.23	< 0.08		
Tin	1.2	< 0.30		
Titanium	0.45	< 0.60		
Total Toxic Representation				

## ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/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	923	200– 750					
Magnesium	38	25– 75					
Sodium	4	20– 180					
Potassium	< 3	9– 80					
Copper	45	11– 30					
Zinc	160	130– 200					
Manganese	0.30	0.08– 0.50					
Chromium	0.50	0.40– 0.70					
Vanadium	0.042	0.018– 0.065					
Molybdenum	0.077	0.025– 0.060					
Boron	0.78	0.40– 3.0					
Iodine	3.3	0.25– 1.8					
Lithium	< 0.004	0.007– 0.020					
Phosphorus	177	150– 220					
Selenium	1.0	0.70– 1.2					
Strontium	2.0	0.30– 3.5					
Sulfur	52800	44000– 50000					
Cobalt	0.021	0.004– 0.020					
Iron	22	7.0– 16					
Germanium	0.029	0.030– 0.040					
Rubidium	0.007	0.011– 0.12					
Zirconium	0.046	0.020– 0.44					

## SPECIMEN DATA

### COMMENTS:

Date Collected:  
Date Received: 11/9/2010  
Date Completed: 11/14/2010  
Client Reference:  
Methodology: ICP-MS

Sample Size: 0.198 g  
Sample Type: Head  
Hair Color:  
Treatment:  
Shampoo:

V010.08

## RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	24.3	4– 30
Ca/P	5.21	0.8– 8
Na/K	1.33	0.5– 10
Zn/Cu	3.56	4– 20
Zn/Cd	258	> 800

## **Health history for hair test 426**

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

I have developed problems with vocabulary. Certain words I have repeated difficulty finding (Mercury being one) A decreased ability at solving complex problems such as wiring work (I am an electrician) Some experience with saying words or even full sentences I don't intend

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

I had dental work in Belgium at age 8, believe these were amalgam installation. Wisdom teeth in my teens. Not sure when I had root canal, about 8 years ago

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

Lots. 4 crowns, my current dentist does not use amalgam and has "cleaned them out when needed" I still have 6 in place.

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

Not sure but she was very concerned with regular dental care after living in Australia (where she had her pregnancies) which she believed had very bad dentistry

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

Have taken regular flu shots yearly since my experience with the Hong Kong flu in my teens.

### **6 Supplements and medications (including dosages) taken at time of hair test**

Brain Vitale (Acetyl L-Carnitine etc) Probiotic, Green tea Extract, Ginseng Complex, aspirin.

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

Age: 60 Weight: 192 lb.

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

I have a history of back problems. I see a chiropractor and exercise with weights every other day since I was in my 20s. Over all I am very fit.

### **9.What is your location –**

Arlington Va.