

# HAIR ELEMENTS



**PATIENT: Number 420**

**SEX: Male**

**AGE: 29 LOCATION: Germany, Munich**

## POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	0.8	< 7.0	█	
Antimony	0.010	< 0.066	●	
Arsenic	0.051	< 0.080	██████████	
Barium	0.06	< 1.0	●	
Beryllium	< 0.01	< 0.020		
Bismuth	0.018	< 2.0	●	
Cadmium	0.044	< 0.065	██████████	
Lead	0.11	< 0.80	██	
Mercury	0.14	< 0.80	██	
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.023	< 0.060	██████████	
Nickel	0.03	< 0.20	██	
Silver	0.01	< 0.08	██	
Tin	0.03	< 0.30	●	
Titanium	0.46	< 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	323	200- 750			██████████		
Magnesium	45	25- 75			●		
Sodium	15	20- 180		██████████			
Potassium	3	9- 80	██████████				
Copper	8.0	11- 30	██████████				
Zinc	200	130- 200			██████████		
Manganese	0.03	0.08- 0.50	██████████				
Chromium	0.28	0.40- 0.70	██████████				
Vanadium	0.010	0.018- 0.065	██████████				
Molybdenum	0.027	0.025- 0.060		██████████			
Boron	0.10	0.40- 3.0	██████████				
Iodine	0.08	0.25- 1.8	██████████				
Lithium	< 0.004	0.007- 0.020	██████████				
Phosphorus	210	150- 220			██████████		
Selenium	0.62	0.70- 1.2		██████████			
Strontium	0.18	0.30- 3.5		██████████			
Sulfur	49000	44000- 50000			██████████		
Cobalt	0.030	0.004- 0.020			██████████		
Iron	10	7.0- 16			●		
Germanium	0.037	0.030- 0.040			██████████		
Rubidium	< 0.003	0.011- 0.12	██████████				
Zirconium	0.021	0.020- 0.44		██████████			

### SPECIMEN DATA

**COMMENTS:** Results checked.

Date Collected: 5/3/2009	Sample Size: 0.203 g
Date Received: 5/13/2009	Sample Type: Head
Date Completed: 5/15/2009	Hair Color: Brown
Client Reference:	Treatment:
Methodology: ICP-MS	Shampoo: Anti Dandruff

V010.08

### RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	7.18	4- 30
Ca/P	1.54	0.8- 8
Na/K	5	0.5- 10
Zn/Cu	25	4- 20
Zn/Cd	> 999	> 800

# HAIR ELEMENTS



**PATIENT: Number 420**  
**SEX: Male**  
**AGE: 30**

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	0.9	< 7.0	█	
Antimony	< 0.01	< 0.066		
Arsenic	0.047	< 0.080	██████████	
Barium	0.23	< 1.0	█	
Beryllium	< 0.01	< 0.020		
Bismuth	0.023	< 2.0	●	
Cadmium	0.027	< 0.065	██████████	
Lead	0.16	< 0.80	████	
Mercury	0.04	< 0.80	●	
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.014	< 0.060	██████████	
Nickel	0.08	< 0.20	██████████	
Silver	< 0.006	< 0.08		
Tin	0.03	< 0.30	█	
Titanium	0.41	< 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	528	200- 750			██████████		
Magnesium	52	25- 75			████		
Sodium	48	20- 180			████		
Potassium	< 3	9- 80	██████████				
Copper	8.0	11- 30	██████████				
Zinc	210	130- 200			██████████		
Manganese	0.07	0.08- 0.50		██████████			
Chromium	0.34	0.40- 0.70		██████████			
Vanadium	0.013	0.018- 0.065		██████████			
Molybdenum	0.023	0.025- 0.060		██████████			
Boron	0.42	0.40- 3.0		██████████			
Iodine	0.17	0.25- 1.8		██████████			
Lithium	< 0.004	0.007- 0.020	██████████				
Phosphorus	195	150- 220			████		
Selenium	0.60	0.70- 1.2		██████████			
Strontium	0.47	0.30- 3.5		██████████			
Sulfur	50100	44000- 50000			██████████		
Cobalt	0.035	0.004- 0.020			██████████		
Iron	5.3	7.0- 16		██████████			
Germanium	0.031	0.030- 0.040		██████████			
Rubidium	0.006	0.011- 0.12		██████████			
Zirconium	0.025	0.020- 0.44		██████████			

SPECIMEN DATA				RATIOS		
<b>COMMENTS:</b>				<b>ELEMENTS</b>	<b>RATIOS</b>	<b>EXPECTED RANGE</b>
Date Collected: 10/11/2010	Sample Size: 0.201 g			Ca/Mg	10.2	4- 30
Date Received: 10/18/2010	Sample Type: Head			Ca/P	2.71	0.8- 8
Date Completed: 10/19/2010	Hair Color: Brown			Na/K	16	0.5- 10
Client Reference: 1246480	Treatment:			Zn/Cu	26.3	4- 20
Methodology: ICP-MS	Shampoo:			Zn/Cd	> 999	> 800

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## **Health history 420**

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

Hairtest 1:

Symptoms before amalgam removal and chelation: Fatigue, cognitive issues, irritability, depression, panic attacks, derealisation, not able to gain weight, low self esteem. Since EBV in 2005 I get EBV like symptoms from time to time, scalp dandruff, prone to infection, food allergies, furry tongue, tunnel vision, popping and flashing in my head, day after I drank alcohol, brain feels tensed and like I might get a brain stroke

Hairtest 2:

I got sick after amalgam removal and chelating with DMSA for some rounds. This was 14 months ago. No serious chelation since then. The hairtest is from last month.

The new symptoms are.

Want-out-of-my-skin-Agitation, restlessness, increased perception of smells (though no immediate allergic reaction noticeable), auditory hallucinations (can't get noises, music or voices out of my which I heard recently – and they sound quite real – leads to fear of losing control of my mind), insomnia, dizzy, feeling cold all the time, constipation.

I react to all supplements I tolerated before. They all lead psychological symptoms (trip sensation, dilated pupils, cold burning airways and veins, nightmarish experience, inner restlessness), lost weight

These symptoms are still present but not so bad like last year. I haven't figured out yet what I am reacting to. I don't know if it is just food related or if environmental chemicals are involved too.

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

Wisdoms removed in my teens. Two root canal placed in my teens also. Braces in my teens. First amalgam probably since as a child. No crowns so far.

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

I only had 2 amalgams left which came out safely (although, the dentist drilled them out with high speed). He also drilled out my other composite fillings and now I have five phosphoric-acid-cement fillings.

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

Don't know. She has had amalgams though.

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

Typical vaccinations as a child. Not sure about flu but in 1999 I got Twinrix shots for Hep A + B which contains mercury.

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

Hairtest 1:

- Manganes 50mg
- Molybdenum 150 mcg
- Mg 600 mg
- Copper 1.5 mg
- Zinc 100mg
- Lithium 5mg...but stopped some weeks prior hairtest
- B-Vitamins, Q-10

Hairtest 2:

- Trisalt (calcium, potassium, magnesium)
- Vit E, ubiquinol, vitamin C

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

30 years old, 173cm, 59kg

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

Germany, Munich