



PATIENT: Number 533  
 SEX: Female  
 AGE: 7

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	13	< 8.0	
Antimony (Sb)	0.018	< 0.066	
Arsenic (As)	0.011	< 0.060	
Barium (Ba)	3.9	< 1.5	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.003	< 2.0	
Cadmium (Cd)	0.042	< 0.070	
Lead (Pb)	0.61	< 0.80	
Mercury (Hg)	0.21	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.011	< 0.002	
Uranium (U)	0.014	< 0.060	
Nickel (Ni)	4.8	< 0.30	
Silver (Ag)	0.14	< 0.18	
Tin (Sn)	1.3	< 0.30	
Titanium (Ti)	0.80	< 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)	1320	250- 800			
Magnesium (Mg)	420	25- 90			
Sodium (Na)	19	18- 180			
Potassium (K)	9	10- 90			
Copper (Cu)	48	11- 37			
Zinc (Zn)	180	120- 220			
Manganese (Mn)	0.60	0.08- 0.60			
Chromium (Cr)	0.47	0.40- 0.65			
Vanadium (V)	0.16	0.025- 0.10			
Molybdenum (Mo)	0.027	0.030- 0.090			
Boron (B)	0.73	0.30- 1.7			
Iodine (I)	0.79	0.25- 1.3			
Lithium (Li)	0.005	0.007- 0.020			
Phosphorus (P)	258	150- 220			
Selenium (Se)	0.68	0.70- 1.1			
Strontium (Sr)	2.3	0.37- 3.6			
Sulfur (S)	47500	44000- 51000			
Cobalt (Co)	0.061	0.005- 0.035			
Iron (Fe)	11	7.0- 16			
Germanium (Ge)	0.032	0.030- 0.040			
Rubidium (Rb)	0.010	0.008- 0.080			
Zirconium (Zr)	0.080	0.030- 0.40			

SPECIMEN DATA		RATIOS	
COMMENTS: results checked		ELEMENTS	RATIOS
Date Collected: 8/11/2011	Sample Size: 0.202 g	Ca/Mg	3.14
Date Received: 8/17/2011	Sample Type: Head	Ca/P	5.12
Date Completed: 8/20/2011	Hair Color:	Na/K	2.11
Methodology: ICP/MS	Treatment:	Zn/Cu	3.75
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800

## **Hair Test 533**

Currently age 7

1. What are your current symptoms and health history? **No apparent issues other than pilar keratosis and occasional white spots on fingernails.**
2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...) **None.**
3. What dental work do you currently have in place? What part of the dental clean-up have you completed? **None.**
4. What dentistry did your mother have at any time before or during pregnancy? **No work prior to pregnancy, however have at least 6 amalgams.**
5. What vaccinations have you had and when (including flu and especially travel shots)? **Minimally vaccinated. Oral Polio x 2, DTap x 2, and school mandated MMR at age 5 to which she had a very severe reaction. Was bedridden with fever and vomiting for nearly 2 weeks.**
6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken? **Multi-vitamin, Vitamin C (500 mg x 3), Cod Liver Oil and EFA supplement, Probiotics, "Green Foods" supplement. Homeopathy.**
7. What is your age, height and weight? **7 years old, about 52 inches, 50 pounds.**
8. Other information you feel may be relevant? **Her brother's and sister's symptoms came to a head following our return to HK in August 2010. Mother is Rh- and was administered Rhogam 2x during pregnancy. Like their brother, both girls are very bright, working significantly above grade level.**
9. What is your location – city & country (so that we can learn where certain toxins are more prevalent). **Born in NYC, lived in India for 3 years, Bahrain for 1 1/2 years, Hong Kong for 2 years, NYC for 7 months and returned to HK in August 2010.**