

PATIENT: Number 534

SEX: Female AGE: 7

Toxic & Essential Elements; Hair

TOXIC METALS						
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th		
Aluminum	(AI)	5.7	< 8.0			
Antimony	(Sb)	0.019	< 0.066			
Arsenic	(As)	0.015	< 0.060			
Barium	(Ba)	4.0	< 1.5			
Beryllium	(Be)	< 0.01	< 0.020			
Bismuth	(Bi)	< 0.002	< 2.0			
Cadmium	(Cd)	0.042	< 0.070			
Lead	(Pb)	0.86	< 0.80			
Mercury	(Hg)	0.60	< 0.40			
Platinum	(Pt)	< 0.003	< 0.005			
Thallium	(TI)	< 0.001	< 0.002			
Thorium	(Th)	0.001	< 0.002			
Uranium	(U)	0.008	< 0.060			
Nickel	(Ni)	7.3	< 0.30			
Silver	(Ag)	0.05	< 0.18			
Tin	(Sn)	0.18	< 0.30			
Titanium	(Ti)	0.61	< 0.70			
Total Toxic Represent	ation					

Total Toxio Representati							
ESSENTIAL AND OTHER ELEMENTS							
		RESULT	REFERENCE	PERCENTILE			
		μg/g	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th			
Calcium	(Ca)	1240	250- 800				
Magnesium	(Mg)	350	25- 90				
Sodium	(Na)	23	18- 180				
Potassium	(K)	14	10- 90				
Copper	(Cu)	52	11- 37				
Zinc	(Zn)	170	120- 220	•			
Manganese	(Mn)	0.53	0.08- 0.60				
Chromium	(Cr)	0.42	0.40- 0.65				
Vanadium	(V)	0.16	0.025- 0.10				
Molybdenum	(Mo)	0.060	0.030- 0.090	-			
Boron	(B)	0.80	0.30- 1.7	•			
lodine	(I)	1.2	0.25- 1.3				
Lithium	(Li)	< 0.004	0.007- 0.020				
Phosphorus	(P)	171	150- 220				
Selenium	(Se)	0.79	0.70- 1.1				
Strontium	(Sr)	2.6	0.37- 3.6				
Sulfur	(S)	50500	44000- 51000				
Cobalt	(Co)	0.046	0.005- 0.035				
Iron	(Fe)	8.9	7.0- 16				
Germanium	(Ge)	0.030	0.030- 0.040				
Rubidium	(Rb)	0.018	0.008- 0.080				
Zirconium	(Zr)	0.060	0.030- 0.40				

SPECIMEN DATA			RATIOS		
COMMENTS: results checked			RATIOS	RANGE	
		Ca/Mg	3.54	4- 30	
Date Collected: 8/11/2011	Sample Size: 0.198 g	Ca/P	7.25	1- 12	
Date Received: 8/17/2011	Sample Type: Head	Na/K	1.64	0.5- 10	
Date Completed: 8/20/2011	Hair Color:	Zn/Cu	3.27	4- 20	
Methodology: ICP/MS	Treatment:	Zn/Cd	> 999	> 800	
	Shampoo:				

Health history for hair test 534

Currently age 7

- What are your current symptoms and health history? Hair falling out in clumps, extremely thin nails with peeling nail beds, low blood sugar and severe mood swings/depression. Lack of focus despite ability - she is aware that she can't concentrate and it frustrates her. Very pale skin with dark circles under eyes (currently improving with Difflucan). Experienced two bouts of pneumonia following return to HK.
- 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 (and her sister) had a very severe reaction. Was bedridden with fever and vomitting 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. Homeopathy. Additionally, was treated (hospitalized) for pneumonia in June with multiple antibiotics.
- 7. What is your age, height and weight? 7 years old, about 52 inches, 50 pounds.
- 8. Other information you feel may be relevant? She seemed to be "normal" until 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.