## HAIR ELEMENTS



**PATIENT: Number 163** 

SEX: Female AGE: 58

Location: Seattle, USA

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TOXIC	RESULT	REFERENCE			PERCENT	ILE	
ELEMENTS	μg/g	RANGE			68 <sup>th</sup>	95 <sup>th</sup>	
Aluminum	1.6	< 7.0					
Antimony	0.050	< 0.050					
Arsenic	0.056	< 0.060			···-		
Beryllium	< 0.01	< 0.020					
Bismuth	0.024	< 2.0	•				
Cadmium	< 0.009	< 0.10	•••••				
Lead	0.09	< 1.0					•••••
Mercury	0.71	< 1.1					
Platinum	< 0.003	< 0.005		••••••			
Thallium	0.002	< 0.010		••••••			
Thorium	< 0.001	< 0.005		•••••			****
Uranium	0.008	< 0.060		•••••			****
Nickel	0.03	< 0.40	•	•••••			
Silver	0.04	< 0.15		_			
Tin	0.05	< 0.30					
Titanium	0.40	< 1.0					
	Total Toxic Representation						
ESSENTIAL AND OTHER ELEMENTS							
	RESULT	REFERENCE		PERCENT	II F		
ELEMENTS		RANGE	2.5	th 16 <sup>th</sup>	50 <sup>th</sup>		4 <sup>th</sup> 97.5 <sup>th</sup>
Calcium	μg/g 526	300- 1200	2.5	10	30	0.	+ 91.5
Magnesium	33	35- 120					
Sodium	24	12- 90					
Potassium	16	8- 38					
Copper	9.7	12- 35					······································
Zinc	190	140- 220					······································
Manganese	0.12	0.15- 0.65	•			<del></del>	
Chromium	0.12	0.20- 0.40					······
Vanadium	0.019	0.018- 0.065					······
Molybdenum	0.013	0.028- 0.056					······
Boron	0.38	0.30- 2.0	•••••				• • • • • • • • • • • • • • • • • • • •
Iodine	0.53	0.25- 1.3					• • • • • • • • • • • • • • • • • • • •
Lithium	< 0.004	0.007- 0.023					• • • • • • • • • • • • • • • • • • • •
Phosphorus	143	160- 250					
Selenium	1.2	0.95- 1.7	······		•		
Strontium	0.62	0.50- 7.6					
Sulfur	40200	44500- 52000					
Barium	0.10	0.26- 3.0					
Cobalt	0.005	0.013- 0.050					
Iron	9.1	5.4- 14				)	
Germanium	0.021	0.045- 0.065					•••••••••••••••••••••••••••••••••••••••
Rubidium	0.014	0.007- 0.096	1				
Zirconium	0.065	0.020- 0.42					
SPECIMEN DATA						RATIOS	
COMMENTS:		LOIMEN DATA				NATIO5	EXPECTED
	15/2008	Sampla Sizar	Λ	195 g	ELEMENTS	RATIOS	RANGE
		Sample Size:					4- 30
Date Received: 1/18/2008  Date Completed: 1/21/2008		Sample Type: Hair Color:		ad	Ca/Mg Ca/P	15.9	1- 12
Date Completed: 1/	ZI/ZUU8	Hair Color: Treatment:	BI	rown		3.68	0.5- 10
Mathadalassu Ta	Methodology: ICP-MS		3 -	agio Vece	Na/K Zn/Cu	1.5 19.6	4- 20
Methodology: IC	P-MS	Shampoo:	ΑÜ	ussie Mega V06.99			> 800
				VU0.99	Zn/Cd	> 999	/ 000

**Health history:** Diagnosed with MS a year ago. Current symptoms: mostly numbness and other paresthesias involving my hands and feet, plus "rubbery legs." I also have low temperature, tinnitus, thinning hair, various aches and pains, frequent "brain fog" and short term memory issues, various digestive problems for about 15 years.

Test meets 2 counting rules, even though I was already taking many supplements by then (B's, C, D, E, omega-3's, multi as well).

I live in Seattle, so have been to Julie Anderson for additional supplement recommendations. I've also read both of Andy's books, and am in the middle of getting all my remaining 8 amalgams removed by a dentist Julie highly recommends. I have lots of crowns as well, most placed in the past 12 years by a non-mercury free dentist. I have never had a root canal. I'm 58, so I probably got my first amalgam about 50 years ago. I wore braces at age 18 (for which I had 4 teeth extracted) and had one wisdom tooth extracted more than 15 years ago.

I have other exposures besides amalgams----contact lens solutions for 14 years (mostly in the 1980s), several flu shots (but none in past 3 years), various paints and solvents (including paint with some fungicide additive), etc.