## HAIR ELEMENTS



PATIENT: Number 74 SEX: Female AGE: 49

		POTENTIA	ALLY TOXIC ELEMENTS			
TOXIC	RESULT	REFERENCE		PERCENTI	LE	
ELEMENTS	μg/g	RANGE	68	th	95 <sup>th</sup>	
Aluminum	4.2	< 7.0				
Antimony	0.027	< 0.050				
Arsenic	0.016	< 0.060	-			
Beryllium	< 0.01	< 0.020				
Bismuth	0.21	< 2.0	-			
Cadmium	0.031	< 0.10				
Lead	0.83	< 1.0				
Mercury	0.59	< 1.1				
Platinum	< 0.003	< 0.005				
Thallium	< 0.001	< 0.010				
Thorium	< 0.001	< 0.005				
Uranium	0.001	< 0.060	•			
Nickel	0.23	< 0.40				
Silver	0.03	< 0.15				
Tin	0.23	< 0.30				
Titanium	0.17	< 1.0				
Total Toxic Represent	tation					
ESSENTIAL AND OTHER ELEMENTS						
	RESULT	REFERENCE		PERCENTI	F	
ELEMENTS	μg/g	RANGE	2.5 <sup>th</sup> 16 <sup>th</sup>	50 <sup>th</sup>		4 <sup>th</sup> 97.5 <sup>th</sup>
Calcium	1770	300- 1200	2.10 10		0-	
Magnesium	160	35- 120				
Sodium	44	12- 90				_
Potassium	24	8- 38				•••••••••••••••••••••••••••••••••••••••
Copper	36	12- 35				
Zinc	200	140- 220				
Manganese	0.35	0.15- 0.65				
Chromium	0.43	0.20- 0.40				
Vanadium	0.025	0.018- 0.065				
Molybdenum	0.014	0.028- 0.056				•••••
Boron	1.1	0.30- 2.0				
Iodine	1.6	0.25- 1.3				•
Lithium	< 0.004	0.007-0.023				
Phosphorus	164	160- 250				
Selenium	1.2	0.95- 1.7		•		
Strontium	11	0.50- 7.6				
Sulfur	47200	44500- 52000				
Barium	3.8	0.26- 3.0				•
Cobalt	0.015	0.013- 0.050		<b></b>		
Iron	8.0	5.4- 14		•		
Germanium	0.041	0.045- 0.065	<b></b>			
Rubidium	0.030	0.007- 0.096		-		
Zirconium	0.088	0.020- 0.42		•		
		PECIMEN DATA			RATIOS	
COMMENTS:					- NATIOS	EXPECTED
	21/2007	Sampla Size	0.202 g	ELEMENTS	RATIOS	RANGE
		Sample Size:				
	17/2007	Sample Type:	Head	Ca/Mg	11.1	4- 30 1- 12
Date Completed: 4/	19/2007	Hair Color:	Brown	Ca/P	10.8	0.5-10
Mathedal		Treatment:	N	Na/K	1.83	4- 20
Methodology: IC	P-MS	Shampoo:	Neutrogena	Zn/Cu Zn/Cd	5.56	> 800
			V06.99	Zn/Cd	> 999	× 000

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### Health history for hair test 74

04 May 2007

### 1) Current symptoms and medical history

**Low hormones**: thyroid, DHEA, cortisol, estrogen, testosterone, progesterone, pregnenalone; aberrant metabolism of supplemental DHEA

**Extremely low energy** with corresponding slowed mental function, poor attention & focus

**Sleep:** Difficulty falling asleep & sleeping sound**Immune system:** Loss of immune function when supplement regimen not maintained**Sluggish digestion**, prone to severe bouts of intestinal inflammation, malabsorption**Jerkiness of movement** & in speech, occasional worsening of coordination

**Eye** strain/focus problems, 'dry eye' **Multiple chemical sensitivity**: petrochemicals, exhaust, chlorine, formaldehyde, paint & stain fumes, perfumes, etc. Exposures result in severe brain & body fog.

Food sensitivites & airborn allergies

Stress: All symptoms worsen during periods of stress

#### **Medical History:**

Numerous, assorted benign growths & tumors beginning with early grade school years; skin rashes/sensitivities since infancy; digestive problems since childhood; severe acne (treated age 14-17 with tetracylcine-ended by severe mono/multiple infections & loss of immune function); repeating yeast, fungal, oral, viral, bladder, tonsil, sinus infections; severe menstrual cramping with lengthening during & increased heaviness to 3 weeks long; inability to sustain contractions for childbirth; 3 children/1 miscarriage w/D&C; complete hysterectomy & adesions at 34; severe IBS; migraines; hip bursitis; multiple chemical sensitivity; allergies; rapid, unexplained weight gain (3 yrs)followed by years of serious weight loss; osteoarthritis; severe, debilitating dementia with onset at 35; diagnosed ADD at 38/39; sleep disturbances; fibromyalgia symptoms; chronic fatigue & infections with low WBC & other immune blood counts; many food sensitivities; candida treatment;

#### 2) Current dental work in place and dental history

**Currently have** 1 bridge w/non-amalgam metal attachment; 1 gold crown; multiple fillings, crowns, 2-3 root canals.

**First fillings** age 4, annual thereafter until in 20's with lots of amalgam repairs. First root canals, molar extraction, & crowns during teens. GOLD crown (approx age 18) absessed, was filled with amalgam approx age 24, absessed & was extracted-bridge installed age 39, endodontic surgery again for absess age 47, second gold crown installed year after 1st came out. Struggled with gum bleeding, oral sores, ultimately loosening of teeth. Following years of severe dementia & all-over loss of physical functioning, diagnosed mercury toxic. Amalgams removed at 47: severe dementia left immediately with first quadrant amalgam removal (was due to electrical charge/constant 'firing' in brain), gums have grown very healthy & teeth strong, no metal taste.

#### **3)** Supplements; medications and chelating schedule at the time of hair test Hair test done just prior to starting **frequent dose chelation**, two years after

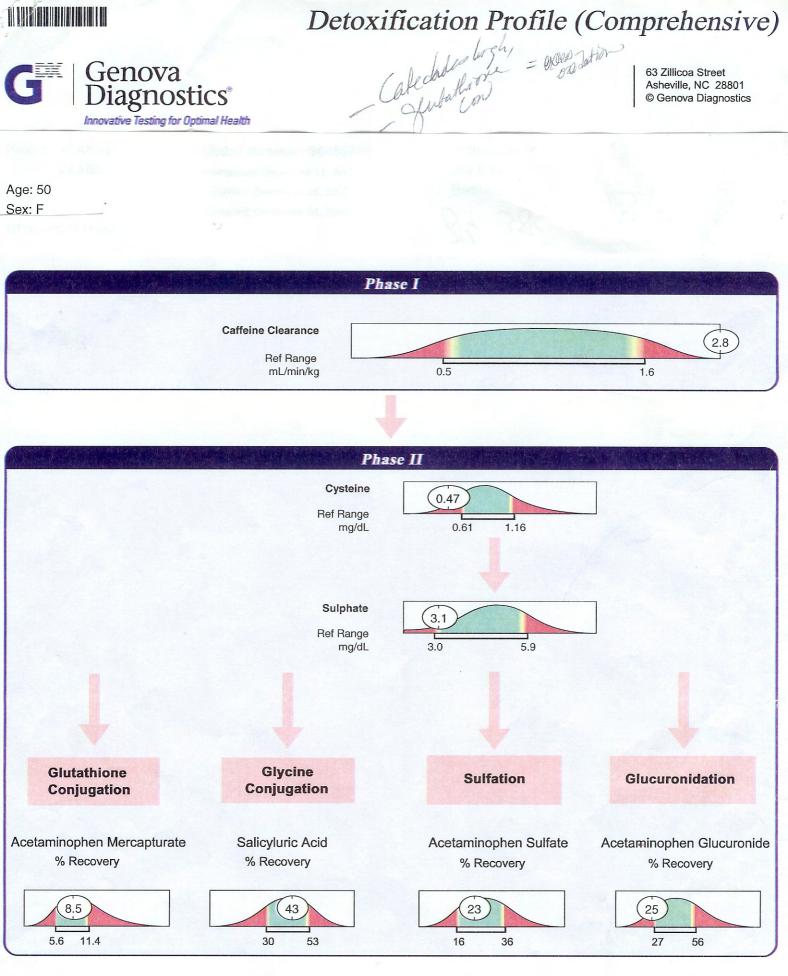
amalgams were removed.Supplements were usually consistent with IAOMT chelation protocols & included chlorella and glutathione on and off. Also took supplements to aid sleep, hormonal support (adrenal & iodoral for thyroid), joint function, omega 3's & 6's, malabsorption, immune support & probiotics, constipation, occasional liver & kidney support. Prescriptions included Cytomel (thyroid), Allora (estrogen), compounded progesterone, low dose Adderall.

# 4) Recently added supplements and medications after the hair test and date added

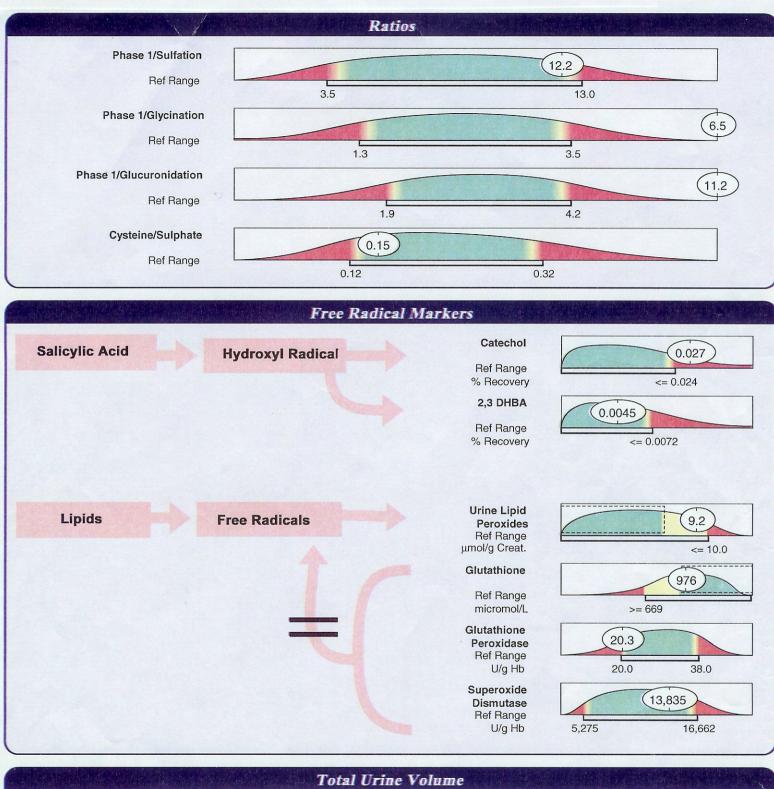
Increased amounts of glutamine, taurine, lecithin, C, B's, zinc,selenium, A, molybdenum.Added inositol, regular milk thistle, Isocort, NAC, Acetyl-I-Cysteine, glycine.Dropped glutathione, chlorella.Switched to 7-Keto DHEA instead of DHEA.Exact info can be attached if requested.

#### 5) Other relevant information

Currently doing frequent dosing to improve neuro-endocrine, immune, liver, & digestive functions; overcome fibromyalgia symptoms; & normalize fatigue/energy levels. Hope to drop all need for prescriptions & supplements



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mL per 10 hours:

500

Commentary

The performance characteristics of all assays have been verified by Genova Diagnostics, Inc. Unless otherwise noted with \* as cleared by the U.S. Food and Drug Administration, assays are For Research Use Only.

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