

HAIR ELEMENTS



PATIENT: Number 496
SEX: Female
AGE: 70

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	2.4	< 7.0		
Antimony	< 0.01	< 0.050		
Arsenic	0.042	< 0.060		
Barium	0.27	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.007	< 2.0		
Cadmium	0.014	< 0.050		
Lead	0.07	< 0.60		
Mercury	0.09	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.004	< 0.060		
Nickel	0.03	< 0.30		
Silver	0.01	< 0.15		
Tin	0.02	< 0.30		
Titanium	0.30	< 0.70		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	277	300- 1200					
Magnesium	23	35- 120					
Sodium	5	20- 250					
Potassium	< 3	8- 75					
Copper	9.3	11- 37					
Zinc	290	140- 220					
Manganese	0.06	0.08- 0.60					
Chromium	0.39	0.40- 0.65					
Vanadium	0.022	0.018- 0.065					
Molybdenum	0.015	0.020- 0.050					
Boron	0.29	0.25- 1.5					
Iodine	0.49	0.25- 1.8					
Lithium	< 0.004	0.007- 0.020					
Phosphorus	158	150- 220					
Selenium	1.3	0.55- 1.1					
Strontium	0.50	0.50- 7.6					
Sulfur	47600	44000- 50000					
Cobalt	0.003	0.005- 0.040					
Iron	4.4	7.0- 16					
Germanium	0.028	0.030- 0.040					
Rubidium	0.004	0.007- 0.096					
Zirconium	< 0.007	0.020- 0.42					

SPECIMEN DATA				RATIOS		
COMMENTS: Results checked.				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 6/4/2011	Sample Size: 0.203 g			Ca/Mg	12	4- 30
Date Received: 6/7/2011	Sample Type: Head			Ca/P	1.75	1- 12
Date Completed: 6/10/2011	Hair Color: Gray			Na/K	1.67	0.5- 10
Client Reference: 1280658	Treatment:			Zn/Cu	31.2	4- 20
Methodology: ICP-MS	Shampoo: Aubrey			Zn/Cd	> 999	> 800

V010.08



PATIENT: Number 496 follow-up
 SEX: Female
 AGE: 71

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	2.7	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.026	< 0.060	
Barium (Ba)	0.12	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.043	< 2.0	
Cadmium (Cd)	< 0.009	< 0.050	
Lead (Pb)	0.07	< 0.60	
Mercury (Hg)	0.07	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.012	< 0.060	
Nickel (Ni)	0.04	< 0.30	
Silver (Ag)	0.01	< 0.15	
Tin (Sn)	< 0.02	< 0.30	
Titanium (Ti)	0.22	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)	248	300- 1200	
Magnesium (Mg)	27	35- 120	
Sodium (Na)	8	20- 250	
Potassium (K)	< 3	8- 75	
Copper (Cu)	8.8	11- 37	
Zinc (Zn)	270	140- 220	
Manganese (Mn)	0.04	0.08- 0.60	
Chromium (Cr)	0.35	0.40- 0.65	
Vanadium (V)	0.028	0.018- 0.065	
Molybdenum (Mo)	0.019	0.020- 0.050	
Boron (B)	0.43	0.25- 1.5	
Iodine (I)	0.33	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	137	150- 220	
Selenium (Se)	1.3	0.55- 1.1	
Strontium (Sr)	0.23	0.50- 7.6	
Sulfur (S)	48600	44000- 50000	
Cobalt (Co)	0.004	0.005- 0.040	
Iron (Fe)	3.2	7.0- 16	
Germanium (Ge)	0.034	0.030- 0.040	
Rubidium (Rb)	< 0.003	0.007- 0.096	
Zirconium (Zr)	0.062	0.020- 0.42	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 11/23/2012		Ca/Mg	9.19
Date Received: 11/26/2012		Ca/P	1.81
Date Completed: 11/30/2012		Na/K	2.67
Methodology: ICP/MS		Zn/Cu	30.7
Sample Size: 0.196 g	Sample Type: Head	Zn/Cd	> 999
Hair Color: Gray	Treatment:		
Shampoo: Aubrey			
		RANGE	
			4- 30
			1- 12
			0.5- 10
			4- 20
			> 800



PATIENT: Number 496 follow-up
 SEX: Female
 AGE: 72

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	1.5	< 7.0	
Antimony (Sb)	< 0.01	< 0.050	
Arsenic (As)	0.015	< 0.060	
Barium (Ba)	0.21	< 2.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.003	< 2.0	
Cadmium (Cd)	0.015	< 0.050	
Lead (Pb)	0.08	< 0.60	
Mercury (Hg)	0.11	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.007	< 0.060	
Nickel (Ni)	0.08	< 0.30	
Silver (Ag)	0.01	< 0.15	
Tin (Sn)	0.05	< 0.30	
Titanium (Ti)	0.28	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Calcium (Ca)	259	300- 1200	
Magnesium (Mg)	26	35- 120	
Sodium (Na)	11	20- 250	
Potassium (K)	3	8- 75	
Copper (Cu)	9.3	11- 37	
Zinc (Zn)	300	140- 220	
Manganese (Mn)	0.04	0.08- 0.60	
Chromium (Cr)	0.31	0.40- 0.65	
Vanadium (V)	0.021	0.018- 0.065	
Molybdenum (Mo)	0.020	0.020- 0.050	
Boron (B)	0.35	0.25- 1.5	
Iodine (I)	0.73	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	170	150- 220	
Selenium (Se)	1.4	0.55- 1.1	
Strontium (Sr)	0.44	0.50- 7.6	
Sulfur (S)	49200	44000- 50000	
Cobalt (Co)	0.002	0.005- 0.040	
Iron (Fe)	5.3	7.0- 16	
Germanium (Ge)	0.036	0.030- 0.040	
Rubidium (Rb)	< 0.003	0.007- 0.096	
Zirconium (Zr)	< 0.007	0.020- 0.42	

SPECIMEN DATA		RATIOS		
COMMENTS:		ELEMENTS	RATIOS	RANGE
Date Collected: 02/11/2014	Sample Size: 0.196 g	Ca/Mg	9.96	4- 30
Date Received: 02/15/2014	Sample Type: Head	Ca/P	1.52	1- 12
Date Completed: 02/18/2014	Hair Color: Gray	Na/K	3.67	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	32.3	4- 20
	Shampoo: Aubrey	Zn/Cd	> 999	> 800

Health history 1. current symptoms & history

a. frequent cyclic viral-type infections

rheumatoid arthritis

peripheral neuropathy

occasion brain fog

b. hx breast ca 7 yrs. ago

2. dental history

first amalgam as child

all four wisdom teeth pulled 35 years ago

first root canal close to 35 years ago

many restorations at close to same time

3. last amalgam removed 1/3/12, one root canal remains (no amalgam)

4. mother's dentistry – many amalgams

5. vaccinations – smallpox & polio

swine flu 1976?

travel vaccines – cholera (?) 1979

DTAP – 2011?

6. supplements & medications

meds: HC 15 mg; Armour thyroid 120 mg

supps.: many as per Cutler protocol

7. have been chelating per Cutler protocol since 1/13/12

8. have lived many places in US

Health history for hair test 496

1. current symptoms & history

- a. chronic fatigue – over 32- years- 1979
frequent cyclic viral-type infections
rheumatoid arthritis
peripheral neuropathy
occasion brain fog
- b. hx breast ca 6 yrs. ago

2. dental history

- first amalgam as child
 - all four wisdom teeth pulled 35 years ago
 - first root canal close to 35 years ago
 - many restorations at close to same time
3. most of dental work still in place – 2 root canals, many crowns, one extraction, some metal removed and replaced w/composite
4. **mother's dentistry** – unknown
5. **vaccinations** – smallpox & polio
swine flu 1976?
travel vaccines – cholera (?) 1979
recent DTAP
6. **supplements & medications**
meds: levothyroxine
supps.: intravenous Vit C (plus O2 sol. vits.) 50 k weekly & approx. 10 g liposomal C daily; 10,000 iu Vit D3; Vit # - 400 mixed tocopherals; ubiquinol 200 mg; mag citrate 150 mg.; Wobenzym – 3 tabs, L-Lysine 1,000 mg; Cell Forte Max3 – 2 caps; 2 tbls ground flaxseed
7. can't think of anything else
8. have lived many places in US