



SEX: Male
AGE: 40

CLIENT #: 39238
DOCTOR: , MD
Neurological Research Institute Llc
279 Walkers Mills Rd *Suggestions for your consideration.*
Bethel, ME 04217 U.S.A. *As always, work with your Doctor.*
With love & hope, Dr. Amy

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.2	< 7.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.044	< 0.080	
Barium (Ba)	0.18	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.011	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.48	< 0.80	
Mercury (Hg)	0.34	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.003	< 0.060	
Nickel (Ni)	0.05	< 0.20	
Silver (Ag)	0.44	< 0.08	
Tin (Sn)	0.02	< 0.30	
Titanium (Ti)	0.22	< 0.60	
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)	224	200- 750	
Magnesium (Mg)	37	25- 75	
Sodium (Na)	16	20- 180	
Potassium (K)	9	9- 80	
Copper (Cu)	130	11- 30	
Zinc (Zn)	180	130- 200	
Manganese (Mn)	0.09	0.08- 0.50	
Chromium (Cr)	0.45	0.40- 0.70	
Vanadium (V)	0.045	0.018- 0.065	
Molybdenum (Mo)	0.027	0.025- 0.060	
Boron (B)	0.42	0.40- 3.0	
Iodine (I)	0.44	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	141	150- 220	
Selenium (Se)	0.91	0.70- 1.2	
Strontium (Sr)	0.28	0.30- 3.5	
Sulfur (S)	45700	44000- 50000	
Cobalt (Co)	0.003	0.004- 0.020	
Iron (Fe)	6.9	7.0- 16	
Germanium (Ge)	0.032	0.030- 0.040	
Rubidium (Rb)	0.012	0.011- 0.12	
Zirconium (Zr)	< 0.007	0.020- 0.44	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 07/24/2017	Sample Size: 0.202 g	Ca/Mg	6.05
Date Received: 07/29/2017	Sample Type: Head	Ca/P	1.59
Date Completed: 08/01/2017	Hair Color:	Na/K	1.78
Methodology: ICP/MS	Treatment:	Zn/Cu	1.38
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800



LAB #: H181001-2122-1
 PATIENT: Emil Ceder
 ID: CEDER-E-00003
 SEX: Male
 AGE: 41

CLIENT #: 39238
 DOCTOR: , MD
 Neurological Research Institute Llc
 279 Walkers Mills Rd
 Bethel, ME 04217 U.S.A.

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 th 95 th
Aluminum (Al)	3.0	< 7.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.028	< 0.080	
Barium (Ba)	0.28	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.003	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.43	< 0.80	
Mercury (Hg)	0.42	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.002	< 0.060	
Nickel (Ni)	0.06	< 0.20	
Silver (Ag)	0.59	< 0.08	
Tin (Sn)	0.02	< 0.30	
Titanium (Ti)	0.25	< 0.60	
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)	345	200- 750	
Magnesium (Mg)	39	25- 75	
Sodium (Na)	11	20- 180	
Potassium (K)	5	9- 80	
Copper (Cu)	110	11- 30	
Zinc (Zn)	190	130- 200	
Manganese (Mn)	0.13	0.08- 0.50	
Chromium (Cr)	0.35	0.40- 0.70	
Vanadium (V)	0.022	0.018- 0.065	
Molybdenum (Mo)	0.059	0.025- 0.060	
Boron (B)	0.29	0.40- 3.0	
Iodine (I)	0.47	0.25- 1.8	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	150	150- 220	
Selenium (Se)	1.3	0.70- 1.2	
Strontium (Sr)	0.38	0.30- 3.5	
Sulfur (S)	48100	44000- 50000	
Cobalt (Co)	0.003	0.004- 0.020	
Iron (Fe)	7.5	7.0- 16	
Germanium (Ge)	0.034	0.030- 0.040	
Rubidium (Rb)	0.008	0.011- 0.12	
Zirconium (Zr)	0.011	0.020- 0.44	

SPECIMEN DATA		RATIOS	
COMMENTS:		ELEMENTS	RATIOS
Date Collected: 08/30/2018	Sample Size: 0.198 g	Ca/Mg	8.85
Date Received: 10/01/2018	Sample Type: Head	Ca/P	2.3
Date Completed: 10/04/2018	Hair Color: Blond	Na/K	2.2
Methodology: ICP/MS	Treatment:	Zn/Cu	1.73
	Shampoo:	Zn/Cd	> 999
		RANGE	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

1) Migraines, Brain fog, Physical and mental fatigue, "Can't think" (very hard to analyze, plan, structure, make conclusions), Depression, Attacks of melancholy/sadness, Avoids social interaction, Low mood, Irritation, Low motivation, Nothing is fun, Process impressions are very tiring (avoids watching TV and driving), Tachycardia, Pacemaker dependent

2) 9 amalgam fillings placed before 7 years of age, 3 of them was also redone after only 1 year. 5 out of 9 was in baby teeth and was dropped at age 10, but the remaining 4 was in place for almost 35 years.

3) The 4 remaining amalgam fillings was safely replaced with ceramic onlays 1 year ago (age 40), also have a couple of older plastic fillings.

4) Amalgam fillings

5) All the regular child vaccinations in Sweden between 1977-1990 (11 shots), also some other vaccinations between then and now.

6) Multivitamin (changed to one without copper and iron after the hair test)

Selenium 200mcg/day

Iron (due to low blood iron test)

Vitamin C 3g/day

Vitamin E 1000 IU/day

Magnesium taurate/glycinate 700mg/day

Zinc 30 mg/day

Thorne ACE 2x50mg/day

Q10 100mg/day

Omega 3 700mg/day

B-complex

Thorne S.A.T (Silybin, Artichoke, Curcurium)

7) The hair test was taken during Cutler chelation, after approx. 5 months of weekly rounds (first DMSA only and later DSMA/ALA rounds)

8) Countryside in Sweden