DOCTOR'S DATA INC

SEX: Female
AGE: 42

MC1-14

Toxic & Essential Elements; Hair

TOXIC METALS		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68th 95th
Aluminum	(Al)	2.4	< 7.0	
Antimony	(Sb)	0.014	< 0.050	
Arsenic	(As)	0.011	< 0.060	
Barium	(Ba)	2.4	< 2.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.021	< 2.0	
Cadmium	(Cd)	0.013	< 0.050	
Lead	(Pb)	0.24	< 0.60	
Mercury	(Hg)	0.64	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	< 0.001	< 0.002	
Uranium	(U)	0.005	< 0.060	
Nickel	(Ni)	0.17	< 0.30	
Silver	(Ag)	0.08	< 0.15	
Tin	(Sn)	0.35	< 0.30	
Titanium	(Ti)	0.40	< 0.70	
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5th 16th 50th 84th 97.5th
Calcium	(Ca)	772	300- 1200	
Magnesium	(Mg)	900	35- 120	
Sodium	(Na)	260	20- 250	
Potassium	(K)	53	8- 75	
Copper	(Cu)	39	11- 37	
Zinc	(Zn)	210	140- 220	
Manganese	(Mn)	1.8	0.08- 0.60	
Chromium	(Cr)	0.34	0.40- 0.65	
Vanadium	(V)	0.022	0.018- 0.065	
Molybdenum	(Mo)	0.029	0.020- 0.050	
Boron	(B)	0.72	0.25- 1.5	
Iodine	(I)	3.6	0.25- 1.8	
Lithium	(Li)	0.055	0.007- 0.020	
Phosphorus	(P)	181	150- 220	
Selenium	(Se)	0.84	0.55- 1.1	
Strontium	(Sr)	2.2	0.50- 7.6	
Sulfur	(S)	45700	44000- 50000	
Cobalt	(Co)	0.030	0.005- 0.040	
Iron	(Fe)	8.8	7.0- 16	
Germanium	(Ge)	0.029	0.030- 0.040	
Rubidium	(Rb)	0.057	0.007- 0.096	
Zirconium	(Zr)	0.067	0.020- 0.42	

SPECIMEN DATA

COMMENTS:

Date Collected: 12/28/2015
Date Received: 01/09/2016
Date Completed: 01/12/2016
Methodology: ICP/MS

Sample Size: 0.205 g
Sample Type: Head
Hair Color: Brown
Treatment:
Shampoo: Herbal Essence

RATIOS

ELEMENTS	RATIOS	RANGE
Ca/Mg	0.858	4- 30
Ca/P	4.27	1- 12
Na/K	4.91	0.5- 10
Zn/Cu	5.38	4- 20
Zn/Cd	> 999	> 800

SEX: Female
DOB: 10/05/1973 AGE: 42

Toxic & Essential Elements; Whole Blood

ESSENTIAL AND OTHER ELEMENTS		RESULT / UNIT		REFERENCE INTERVAL	PERCENTILE 2.5th 16th 50th 84th 97.5th
Calcium	(Ca)	**5.4**	**mg/dL**	4.8- 7.1	
Magnesium	(Mg)	**3.7**	**mg/dL**	3- 4.2	
Copper	(Cu)	**87**	**µg/dL**	65- 130	
Zinc	(Zn)	**622**	**µg/dL**	480- 780	
Manganese	(Mn)	**11**	**µg/L**	4- 22	
Lithium	(Li)	**33**	**µg/L**	0.4- 20	
Selenium	(Se)	**189**	**µg/L**	140- 350	
Strontium	(Sr)	**31**	**µg/L**	10- 45	
Molybdenum	(Mo)	**3.7**	**µg/L**	0.5- 2.5	

TOXIC METALS		RESULT / UNIT		REFERENCE INTERVAL	PERCENTILE 95th 99th
Arsenic	(As)	**18**	**µg/L**	< 9.0	
Barium	(Ba)	**3.1**	**µg/L**	< 4.0	
Cadmium	(Cd)	**0.3**	**µg/L**	< 1.0	
Cobalt	(Co)	**0.4**	**µg/L**	< 0.8	
Lead	(Pb)	**1.0**	**µg/dL**	< 3.0	
Mercury	(Hg)	**7.6**	**µg/L**	< 4.5	
Nickel	(Ni)	**< 1**	**µg/L**	< 2	
Platinum	(Pt)	**< 0.05**	**µg/L**	< 0.10	
Thallium	(Tl)	**0.06**	**µg/L**	< 0.50	
Tungsten	(W)	**< 0.03**	**µg/L**	< 0.10	
Uranium	(U)	**< 0.02**	**µg/L**	< 0.10	

SPECIMEN DATA

Comments: **Results checked.**

Date Collected: **02/01/2016** Time Collected: **05:00 PM** Methodology: **ICP-MS**
Date Received: **02/03/2016** Fasting:
Date Completed: **02/08/2016**

Blood lead levels in the range of 5-9 µg/dL have been associated with adverse health effects in children aged 6 years and younger.

DOCTOR'S DATA INC

AGE: 42

Essential Elements; Serum

ESSENTIAL ELEMENTS					
		RESULT/UNIT		REFERENCE INTERVAL	-2SD -1SD MEAN +1SD +2SD
Calcium	(Ca)	**8.9**	mg/dL	8.9- 10.3	
Magnesium	(Mg)	**2.3**	mg/dL	1.7- 2.5	
Sodium	(Na)	**140**	mEq/L	135- 145	
Potassium	(K)	**4.6**	mEq/L	3.5- 5.0	
Phosphorus	(P)	**3.6**	mg/dL	2.5- 4.5	
Iron	(Fe)	**42**	µg/dL	60- 185	

INFORMATION

Sodium and Potassium
Sodium (Na^+) and potassium (K^+) are electrolytes that affect most metabolic functions. They serve to maintain osmotic pressure and hydration of various body fluid compartments, body pH and regulation of heart and muscle functions. Electrolytes are also involved in oxidation-reduction reactions and participate in essential enzymatic reactions. Electrolytes can be affected by state of hydration. Hemolysis can result in falsely elevated K^+.

Magnesium
Magnesium (Mg) is a major intracellular cation that is involved in over three hundred enzymatic reactions in the body. Little is known about the factors affecting serum Mg, but the parathyroid gland appears to be involved. Low serum Mg levels may be associated with poor diet/malabsorption, diabetes, hyperthyroidism, hypoparathyroidism, myocardial infarction, congestive heart failure, liver cirrhosis, alcoholism and diuresis. Increased serum Mg levels may be associated with renal failure, dehydration, severe diabetic acidosis, and Addison's disease.

Calcium
Although 99% of calcium exists in bones and teeth, serum calcium (Ca) is of greatest clinical concern. Ca regulates transmission of nerve impulses, muscle contraction, coagulation, and numerous enzymatic reactions. The uptake and release of Ca from bone is regulated by parathyroid hormone, and serum Ca levels are inversely proportional to phosphorus levels. Low serum Ca results in muscle tetany while high Ca levels result in lowered neuromuscular excitability, muscle weakness, and other more complex symptoms. Marked variations in serum Ca may result from parathyroid gland or bone disease, poor diet/intestinal absorption of calcium (vitamin D), kidney disease, and other abnormalities.

Inorganic Phosphorus
Measurements of serum inorganic phosphorus (phosphate or PO_4) are used in the diagnosis and treatment of disorders including parathyroid gland and kidney diseases, and vitamin D status. Serum PO_4 is regulated by coordinated efforts of vitamin D and parathyroid hormone, and PO_4 levels are inversely proportional to Ca levels. Low PO_4 may be associated with fatigue, paresthesias and muscle weakness, while elevated PO_4 may be associated with hypoparathyroidism, hyperthyroidism, hypocalcemia and tetany.

Iron
Measurements of non-heme, serum iron (Fe) are used in the diagnosis and treatment of diseases such as Fe deficiency anemia, Fe toxicity and acute or chronic hemochromatosis. The most comprehensive assessment of Fe status includes transferrin saturation and ferritin.

SPECIMEN DATA

Comments:

Date Collected: **02/01/2016**
Date Received: **02/03/2016**
Date Completed: **02/05/2016**

Time Collected: **05:00 PM**
Fasting:

Methodology: **Na, K ISE**
Ca, Mg, P, Fe Spectrophotometry

v08.10

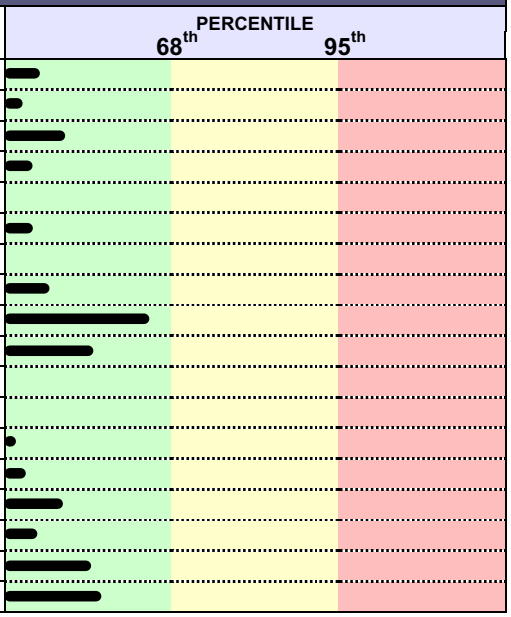
DOCTOR'S DATA INC

SEX: Female
AGE: 43

Toxic & Essential Elements; Hair

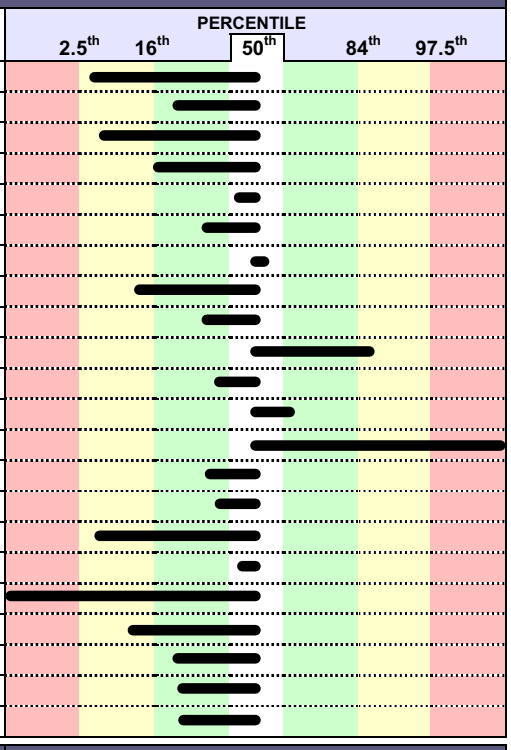
TOXIC METALS

		RESULT µg/g	REFERENCE INTERVAL
Aluminum	**(Al)**	**1.2**	< 7.0
Antimony	**(Sb)**	**0.012**	< 0.050
Arsenic	**(As)**	**0.026**	< 0.060
Barium	**(Ba)**	**0.26**	< 2.0
Beryllium	**(Be)**	**< 0.01**	< 0.020
Bismuth	**(Bi)**	**0.23**	< 2.0
Cadmium	**(Cd)**	**< 0.009**	< 0.050
Lead	**(Pb)**	**0.14**	< 0.60
Mercury	**(Hg)**	**0.69**	< 0.80
Platinum	**(Pt)**	**0.004**	< 0.005
Thallium	**(Tl)**	**< 0.001**	< 0.002
Thorium	**(Th)**	**< 0.001**	< 0.002
Uranium	**(U)**	**0.001**	< 0.060
Nickel	**(Ni)**	**0.03**	< 0.30
Silver	**(Ag)**	**0.05**	< 0.15
Tin	**(Sn)**	**0.06**	< 0.30
Titanium	**(Ti)**	**0.36**	< 0.70
Total Toxic Representation			



ESSENTIAL AND OTHER ELEMENTS

		RESULT µg/g	REFERENCE INTERVAL
Calcium	**(Ca)**	**140**	300- 1200
Magnesium	**(Mg)**	**39**	35- 120
Sodium	**(Na)**	**10**	20- 250
Potassium	**(K)**	**8**	8- 75
Copper	**(Cu)**	**16**	11- 37
Zinc	**(Zn)**	**160**	140- 220
Manganese	**(Mn)**	**0.19**	0.08- 0.60
Chromium	**(Cr)**	**0.38**	0.40- 0.65
Vanadium	**(V)**	**0.024**	0.018- 0.065
Molybdenum	**(Mo)**	**0.061**	0.020- 0.050
Boron	**(B)**	**0.47**	0.25- 1.5
Iodine	**(I)**	**0.99**	0.25- 1.8
Lithium	**(Li)**	**0.17**	0.007- 0.020
Phosphorus	**(P)**	**166**	150- 220
Selenium	**(Se)**	**0.74**	0.55- 1.1
Strontium	**(Sr)**	**0.19**	0.50- 7.6
Sulfur	**(S)**	**46600**	44000- 50000
Cobalt	**(Co)**	**0.002**	0.005- 0.040
Iron	**(Fe)**	**6.0**	7.0- 16
Germanium	**(Ge)**	**0.031**	0.030- 0.040
Rubidium	**(Rb)**	**0.011**	0.007- 0.096
Zirconium	**(Zr)**	**0.033**	0.020- 0.42



SPECIMEN DATA

COMMENTS:

Date Collected: **10/05/2016**
Date Received: **11/05/2016**
Date Completed: **11/09/2016**
Methodology: **ICP/MS**

Sample Size: **0.205 g**
Sample Type: **Head**
Hair Color: **Brown**
Treatment:
Shampoo: **Garnier Fructis**

RATIOS

ELEMENTS	RATIOS	RANGE
Ca/Mg	**3.59**	4- 30
Ca/P	**0.843**	1- 12
Na/K	**1.25**	0.5- 10
Zn/Cu	**10**	4- 20
Zn/Cd	**> 999**	> 800

DOCTOR'S DATA INC

SEX: Female
AGE: 45

279 Walkers Mills Rd
Bethel, ME 04217 U.S.A.

Toxic & Essential Elements; Hair

TOXIC METALS		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68th 95th
Aluminum	(Al)	1.6	< 7.0	
Antimony	(Sb)	0.016	< 0.050	
Arsenic	(As)	0.018	< 0.060	
Barium	(Ba)	1.1	< 2.0	
Beryllium	(Be)	< 0.01	< 0.020	
Bismuth	(Bi)	0.011	< 2.0	
Cadmium	(Cd)	< 0.009	< 0.050	
Lead	(Pb)	0.53	< 0.60	
Mercury	(Hg)	0.21	< 0.80	
Platinum	(Pt)	< 0.003	< 0.005	
Thallium	(Tl)	< 0.001	< 0.002	
Thorium	(Th)	< 0.001	< 0.002	
Uranium	(U)	0.009	< 0.060	
Nickel	(Ni)	0.07	< 0.30	
Silver	(Ag)	0.88	< 0.15	
Tin	(Sn)	0.11	< 0.30	
Titanium	(Ti)	0.18	< 0.70	
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5th 16th 50th 84th 97.5th
Calcium	(Ca)	364	300- 1200	
Magnesium	(Mg)	48	35- 120	
Sodium	(Na)	60	20- 250	
Potassium	(K)	18	8- 75	
Copper	(Cu)	56	11- 37	
Zinc	(Zn)	160	140- 220	
Manganese	(Mn)	0.62	0.08- 0.60	
Chromium	(Cr)	0.33	0.40- 0.65	
Vanadium	(V)	0.012	0.018- 0.065	
Molybdenum	(Mo)	0.047	0.020- 0.050	
Boron	(B)	0.63	0.25- 1.5	
Iodine	(I)	1.2	0.25- 1.8	
Lithium	(Li)	< 0.004	0.007- 0.020	
Phosphorus	(P)	171	150- 220	
Selenium	(Se)	1.1	0.55- 1.1	
Strontium	(Sr)	0.68	0.50- 7.6	
Sulfur	(S)	46900	44000- 50000	
Cobalt	(Co)	0.003	0.005- 0.040	
Iron	(Fe)	5.5	7.0- 16	
Germanium	(Ge)	0.033	0.030- 0.040	
Rubidium	(Rb)	0.025	0.007- 0.096	
Zirconium	(Zr)	0.025	0.020- 0.42	

SPECIMEN DATA

COMMENTS:

Date Collected: 04/17/2019
Date Received: 04/26/2019
Date Completed: 04/30/2019
Methodology: ICP/MS

Sample Size: 0.198 g
Sample Type: Head
Hair Color: Red
Treatment:
Shampoo: Shea Moisture

RATIOS

ELEMENTS	RATIOS	RANGE
Ca/Mg	7.58	4- 30
Ca/P	2.13	1- 12
Na/K	3.33	0.5- 10
Zn/Cu	2.86	4- 20
Zn/Cd	> 999	> 800

What are your current symptoms and health history?

Parkinson's disease diagnosed one year ago.

Stiffness and difficulty moving, tremors in all joints with action, loss of sense of smell, difficulty with balance and walking, extreme constipation, electrical sensitivity and weakness when around computers (developed after DMPS Challenge), rage and sobbing, general grumpiness, muscle weakness and cramps, menstrual irregularities, problems with memory and word finding, confusion, suicidal thoughts, pain and discomfort in shoulders, back and neck, blepharospasms (uncontrollable blinking and eye squeezing), dizziness, fatigue and malaise, indecision, loss of neck curvature.

History of anxiety and OCD. Epstein-Barr / chronic fatigue syndrome in high school.

Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc…)

Two small white fillings. I've never had Mercury amalgams, root canals, braces or any other dental work.

What dental work do you currently have in place? What part of the dental clean-up have you completed?

Two small white fillings. No cleanup required that I know of. Lots of general detox.

What dentistry did your mother have at any time before or during pregnancy?

Definitely some Mercury amalgams, But not sure many. Eight maybe?

What vaccinations have you had and when (including flu and especially travel shots)?

TDAP, MMR, Polio as a child. Rabies in 1995. Hep A/B, Tetanus, Typhoid, Yellow Fever approximately 15 years ago

Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?

Naturethroid, Klonopin, Adrenal/Thymus extracts, DIM Liposome, Electrolyte mix, Intramin multi-mineral, Calm Magnesium, Vitamin D, Vitamin B12, liposomal Glutathione.

Probably others too. This is not an exact list, but it's the best I can re-create for that point in time. No idea about dosages, but safe to say the test was definitely affected by supplementation.

What is your age, height and weight?

42, 5'2", 115 pounds

Other information you feel may be relevant?

I was in New York for 9/11 and lived and worked within a few blocks of the site and cleanup.

My ex-husband has advanced MS. We lived in a probably moldy house when he first got sick. My first symptoms appeared when I got pregnant 10 years ago. This was our first unprotected sex. Our daughter has OCD and extreme anxiety.

I had a terrible bout of bronchitis two years ago, after which I started feeling like my brain was on fire. I can't remember whether I took an antibiotic, but I believe I did. I had also been dying my hair red for a year at that point.

At the time of my current diagnosis, I had been working in an old, and possibly toxic, building for a year. I was under extreme stress at work.

I am including whole blood work as well, which shows elevated levels of metals. I had my water tested (negative), and could come up with no other sources of current exposure.

Since manganese is considered a Parkinson's imitator, I'm especially concerned as to whether the reading in this hair test for manganese is reliable, and if so what to do about it. Will the regular protocol chelate manganese?

What is your location – city & country (so that we can learn where certain toxins are more prevalent).

Brooklyn, New York, USA

Symptoms update Jan 2017

After 15, five-day rounds chelation

Improved symptoms: Blepharospasms, electrical sensitivity, dizziness, mental impairment, anxiety, brain fog, visual disturbances

Worse symptoms: Muscle weakness and tremor, difficulty walking, constipation, weak voice

New symptoms: flaky rash on face, extreme back pain and joint pain, frozen shoulder, tennis elbow, inflamed rotator cuff, itching

Update 2019
After 93 round equivalents

Improved: Cognition, executive function, multitasking, stress tolerance, speed, balance, strength, flexibility. Typing and writing.

Worse: Gait disturbance, anxiety, Blepharospasms, joint pain and tendinitis, weak voice

New: scoliosis, swelling ankles, exercise-induced vasculitis, insomnia, daytime sleepiness, urinary urgency and incontinance.