



LAB #: H170824-2328-1

CLIENT #: 39238

DOCTOR: , MD

Neurological Research Institute Llc

279 Walkers Mills Rd

Bethel, ME 04217 U.S.A.

DEFER to
YOUR
DOCTOR

SEX: Female

AGE: 64

what is your
man health
concern?

Suggestions for your consideration.
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) | 1.8 | < 7.0 | ██████████ | MTHFR Liver Caps |
| Antimony | (Sb) | 0.011 | < 0.050 | ██████████ | |
| Arsenic | (As) | 0.068 | < 0.060 | ██████████ | All in One |
| Barium | (Ba) | 0.08 | < 2.0 | ██████████ | + Be, Cd + BioNutris |
| Beryllium | (Be) | < 0.01 | < 0.020 | | minerals |
| Bismuth | (Bi) | 0.033 | < 2.0 | ██████████ | + PS/PEPC + DHA |
| Cadmium | (Cd) | 0.017 | < 0.050 | ██████████ | = Ultimate B |
| Lead | (Pb) | 0.15 | < 0.60 | ██████████ | |
| Mercury | (Hg) | 0.52 | < 0.80 | ██████████ | GSH + NADH and |
| Platinum | (Pt) | < 0.003 | < 0.005 | | Respiratory nuc. blend |
| Thallium | (Tl) | < 0.001 | < 0.002 | | as needed |
| Thorium | (Th) | < 0.001 | < 0.002 | | |
| Uranium | (U) | 0.006 | < 0.060 | ██████████ | ATP + Ribos phos |
| Nickel | (Ni) | 0.05 | < 0.30 | ██████████ | + Mitofore |
| Silver | (Ag) | 0.04 | < 0.15 | ██████████ | + COQ10 Spray |
| Tin | (Sn) | 0.05 | < 0.30 | ██████████ | work on energy |
| Titanium | (Ti) | 0.32 | < 0.70 | ██████████ | |
| Total Toxic Representation | | | | ██████████ | |

Inflammatory Pathway
Cap + General nuc blend



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ESSENTIAL AND OTHER ELEMENTS

| | RESULT µg/g | REFERENCE INTERVAL | PERCENTILE | | | | |
|--|----------------|-----------------------|-------------------|------------------|------------------|------------------|--------------------|
| | | | 2.5 th | 16 th | 50 th | 84 th | 97.5 th |
| Calcium (Ca) <i>Cal/Mag/DR + extra</i> | 128 | 300- 1200 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Magnesium (Mg) <i>Magnesium</i> | 7 | 35- 120 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Sodium (Na) <i>+ Mitochondria</i> | 350 | 20- 250 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Potassium (K) <i>+ ATP</i> | 49 | 8- 75 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Copper (Cu) | 11 | 11- 37 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Zinc (Zn) | 130 | 140- 220 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Manganese (Mn) | 0.07 | 0.08- 0.60 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Chromium (Cr) | 0.53 | 0.40- 0.65 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Vanadium (V) | 0.073 | 0.018- 0.065 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Molybdenum (Mo) <i>Molybdenum +</i> | < 0.01 | 0.020- 0.050 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Boron (B) <i>Black Bear</i> | 0.55 | 0.25- 1.5 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Iodine (I) | 1.3 | 0.25- 1.8 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Lithium (Li) | < 0.004 | 0.007- 0.020 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Phosphorus (P) <i>ATP + Ribosyl phos</i> | 139 | 150- 220 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Selenium (Se) | 0.82 | 0.55- 1.1 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Strontium (Sr) | 0.19 | 0.50- 7.6 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Sulfur (S) <i>Black Bear +</i> | 46900 | 44000- 50000 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Cobalt (Co) <i>Hydroxy</i> | < 0.002 | 0.005- 0.040 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Iron (Fe) <i>Adenosyl B12</i> | 3.6 | 7.0- 16 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Germanium (Ge) <i>+ Dandelion</i> | 0.034 | 0.030- 0.040 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Rubidium (Rb) <i>leaf</i> | 0.045 | 0.007- 0.096 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |
| Zirconium (Zr) | 0.008 | 0.020- 0.42 | ██████████ | ██████████ | ██████████ | ██████████ | ██████████ |

Also work on energy.
 THEN RUN a Hair test in 3-5 months to be sure lithium & molybdenum & iron are in balance & cobalt
 Liver nuc. blend + MTHFR liver caps



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Toxic & Essential Elements; Hair

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| Cadmium (Cd) | 0.017 | < 0.050 | |
| Lead (Pb) | 0.15 | < 0.60 | |
| Mercury (Hg) | 0.52 | < 0.80 | |
| Platinum (Pt) | < 0.003 | < 0.005 | |
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| Nickel (Ni) | 0.05 | < 0.30 | |
| Silver (Ag) | 0.04 | < 0.15 | |
| Tin (Sn) | 0.05 | < 0.30 | |
| Titanium (Ti) | 0.32 | < 0.70 | |
| Total Toxic Representation | | | |

| ESSENTIAL AND OTHER ELEMENTS | | | |
|------------------------------|----------------|-----------------------|---|
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| Sodium (Na) | 350 | 20- 250 | |
| Potassium (K) | 49 | 8- 75 | |
| Copper (Cu) | 11 | 11- 37 | |
| Zinc (Zn) | 130 | 140- 220 | |
| Manganese (Mn) | 0.07 | 0.08- 0.60 | |
| Chromium (Cr) | 0.53 | 0.40- 0.65 | |
| Vanadium (V) | 0.073 | 0.018- 0.065 | |
| Molybdenum (Mo) | < 0.01 | 0.020- 0.050 | |
| Boron (B) | 0.55 | 0.25- 1.5 | |
| Iodine (I) | 1.3 | 0.25- 1.8 | |
| Lithium (Li) | < 0.004 | 0.007- 0.020 | |
| Phosphorus (P) | 139 | 150- 220 | |
| Selenium (Se) | 0.82 | 0.55- 1.1 | |
| Strontium (Sr) | 0.19 | 0.50- 7.6 | |
| Sulfur (S) | 46900 | 44000- 50000 | |
| Cobalt (Co) | < 0.002 | 0.005- 0.040 | |
| Iron (Fe) | 3.6 | 7.0- 16 | |
| Germanium (Ge) | 0.034 | 0.030- 0.040 | |
| Rubidium (Rb) | 0.045 | 0.007- 0.096 | |
| Zirconium (Zr) | 0.008 | 0.020- 0.42 | |

| SPECIMEN DATA | | RATIOS | |
|----------------------------|-------------------|----------|---------|
| COMMENTS: | | ELEMENTS | RATIOS |
| Date Collected: 08/19/2017 | | Ca/Mg | 18.3 |
| Date Received: 08/24/2017 | | Ca/P | 0.921 |
| Date Completed: 08/28/2017 | | Na/K | 7.14 |
| Methodology: ICP/MS | | Zn/Cu | 11.8 |
| Sample Size: 0.2 g | Sample Type: Head | Zn/Cd | > 999 |
| Hair Color: | Treatment: | RANGE | |
| Shampoo: | | Ca/Mg | 4- 30 |
| | | Ca/P | 1- 12 |
| | | Na/K | 0.5- 10 |
| | | Zn/Cu | 4- 20 |
| | | Zn/Cd | > 800 |

1. **What are your current symptoms and health history?** Good until I got sick around 1992. Lyme symptoms after that. 1st time: fatigue, early menopause, ovary pain, blood in urine, IC diagnosis, headaches, visual symptoms, muscle and joint pain, vibration in the head, depression, slow thinking, heart hurting, dizzy and lost balance, rash. Long visual after-images. 2nd time: mostly Alzheimer symptoms, no short term memory, very slow thinking 3rd time, fatigue, depression, numbness around rt eye, left side of face a little droopy, right side of face and back of head numb, numbness spread to rt side of body. Rt eye- afferent pupillary defect. Rt eye – bigger pupil size than left eye. Numbness invading lower right leg.
Three extensive antibiotic treatments for Lyme between 1994 and 2016, about 3 yrs each with 5 yr gaps in between. All resulted in much improvement, but symptoms return within about 5-7 yrs (reoccurring). The second treatment was IV antibiotics for about 1.5 yrs.
2. **Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)** I have had two wisdom teeth removed as an adult (about 20 yrs ago) they were causing infections at the gum because they didn't come in all the way. I have one root canal. I had 4 amalgams removed about 12 yrs ago by a an amalgam safe dentist.
3. **What dental work do you currently have in place? What part of the dental clean-up have you completed?** Completely clean and free of amalgams for over 12 yrs. Did cutler protocol after they were removed.
4. **What dentistry did your mother have at any time before or during pregnancy?** Unknown. She had a lot of amalgam fillings when I was older.
5. **What vaccinations have you had and when (including flu and especially travel shots)?** No flu shots, but polio and yellow fever shots for travel 35 or so years ago. And polio again about 25 yrs ago. Tetanus, but not recently. I had a bad reaction to rabies vaccine (4 vaccines and immunoglobulins) around 10 yrs ago. (the reaction was permanent numbness around the bone in the lower right leg.)
6. **Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?** I was on 50 to 100 mg minocycline for two mos before hair test. Supplements: on and off: vit c, pinella, zn, selenium, silica, Mg, lemon water, activated charcoal, omega supplement, salt stick ½ tab, stephania root. (but not for 6 mos before testing) also occasionally: green tea, natto, digestive bitters, aspirin, vit D, vit E,
7. **What is your age, height and weight?** 64, 5'4", 150 lbs
8. **Other information you feel may be relevant?** OHT, high eye pressure, so on Alphagan, and travatan eye drops; ++ in COMT gene V158M, ++ in SOD2 A16V, ++ COMT H62H, ++ VDR Taq, ++ MTRR A66F, hetero, MTHFR c677t/ a1298c + Antibodies for Babesia, WA1 type; heart stopped during a tilt test, but started back on own after 1-2 minutes. HLA-DR type DR 1, 15, 51, and DQ 6.
9. **Location:** Fairfax, Virginia, Fairfax county, USA