HAIR ELEMENTS



PATIENT: Number 317 SEX: Female AGE: 60 LOCATION: San Francisco Bay, USA

| TOXIC ELEMENTS RESULT $\mu g/g$ REFERENCE RANGE PERCENTILE 68 th 95 th Atminum 2.3 < 7.0 68 th 95 th Antimony 0.019 < 0.050 Antimony 0.011 < 0.050 Assenic 0.028 < 0.060 | POTENTIALLY TOXIC ELEMENTS | | | | | | |
|--|----------------------------|--|--|--|--|--|--|
| ELEMENTS µg/g RANCE 68 ^h 95 ^h Aluminum 2.3 < 7.0 | TOXIO | | | | | | |
| Aluminum 2.3 $<$ 7.0 Antimony 0.019 $<$ 0.050 Arsenic 0.028 $<$ 0.060 Beryllum $<$ 0.013 $<$ 2.0 Cadmium 0.063 $<$ 0.10 Lead 0.12 $<$ 1.0 Mercury 0.86 $<$ 1.1 Plainum $<$ 0.001 $<$ 0.005 Thoitum $<$ 0.001 $<$ 0.005 Thoitum $<$ 0.001 $<$ 0.005 Silver 0.022 $<$ 0.160 Nickel 0.09 $<$ 0.40 Silver 0.022 $<$ 0.105 Tianium 0.43 $<$ 1.0 Total Toxic Representation ESENTIAL AND OTHER ELEMENTS Calcium 572 $300 - 1200$ 25^{th} 16^{th} 50^{th} 84^{th} 91^{th} Calcium 74 $35 - 120$ 25^{th} 16^{th} 50^{th} 50^{th} | | | | | | | |
| Antimony 0.019 < 0.050 | | | | | | | |
| Arsenic 0.028 < 0.060 Beryllium < 0.013 < 2.0 Cadmium 0.063 < 0.10 Lead 0.12 < 1.0 Mercury 0.86 < 1.1 Platinum < 0.001 < 0.005 Thallium < 0.001 < 0.005 Thalium < 0.001 < 0.005 Thalium < 0.001 < 0.005 Viraium < 0.001 < 0.005 Viraium < 0.002 < 0.40 Silver 0.02 < 0.40 Silver 0.02 < 0.30 Total Toxic Representation ESSENTIAL AND OTHER ELEMENTS Calcium 572 $300 - 1200$ Magnesium 74 $35 - 120$ Sodium 12 $12 - 90$ Potassium 9 $8 - 38$ Copper 11 $12 - 35$ Zinc 180 $140 - 220$ \bullet Maganese 0.11 $0.15 - 0.65$ \bullet Molybdenum 0.033 $0.028 - 0.056$ | | | | | | | |
| Beryllium < 0.01 | | | | | | | |
| Bismuth 0.013 < 2.0 Cadmium 0.063 < 0.10 | | | | | | | |
| Cadmium 0.063 < 0.10 Lead 0.12 < 1.0 | • | | | | | | |
| Lead 0.12 < 1.0 Mercury 0.86 < 1.1 Platinum < 0.003 0.005 Thallium < 0.001 < 0.010 Thallium < 0.001 < 0.010 Thallium < 0.001 < 0.010 Thin 0.09 < 0.30 0.30 Titanium 0.43 < 1.0 Total Toxic Representation ESSENTIAL AND OTHER ELEMENTS PERCENTILE 44^{th} 92 Calcium 572 300-1200 90 43^{th} 92 44^{th} 92 Sodium 12 12-90 90 90 43^{th} 92 44^{th} 92 Sodium 12 12-90 90 44^{th} 92 44^{th} 92 Sodium 12 12-90 90 44^{th} 92 44^{th} 92 Sodium 12 12-90 44^{th} 44^{th} 44^{th} 44^{th} $44^{$ | | | | | | | |
| Mercury 0.86 < 1.1 Platinum < 0.003 < 0.005 Thallium < 0.001 < 0.010 Thorium < 0.001 < 0.005 Uranium 0.025 < 0.060 Nickel 0.09 < 0.40 Silver 0.02 < 0.15 Tim 0.09 < 0.30 Titanium 0.43 < 1.0 Total Toxic Representato ESSENTIAL AND OTHER ELEMENTS Telements $µg/g$ RANGE 2.5^{th} 16^{th} 50^{th} 84^{th} 90^{th} Calcium 572 $300 - 1200$ 44^{th} 90^{th} 84^{th} 90^{th} Sodium 12 $12 - 350$ 44^{th} 90^{th} 44^{th} 90^{th} Maganese 0.11 $0.15 - 0.650$ $ $ | | | | | | | |
| Initiality Co.003 < 0.005 Thallium < 0.001 | | | | | | | |
| Thallium < 0.001 | | | | | | | |
| Thorium < 0.001 < 0.005 Uranium 0.025 < 0.060 | | | | | | | |
| Uranium 0.025 < 0.060 Nickel 0.09 < 0.40 Silver 0.02 < 0.15 Tin 0.09 < 0.30 Titanium 0.43 < 1.0 Total Toxic Representation ESSENTIAL AND OTHER ELEMENTS ESSENTIAL AND OTHER ELEMENTS RESULT REFERENCE PERCENTILE LEMENTS RESULT REFERENCE PERCENTILE Sodium 12 12-90 90 Sodium 12 12-90 90 Potassium 9 8-38 91 Copper 11 12-35 90 Zinc 180 140-220 \bullet Magnese 0.11 0.15-0.65 90 Molybdenum 0.033 0.028-0.056 90 Molybdenum 0.033 0.028-0.056 90 Boron 0.34 0.30-2.0 90 90 Itihum < 0.095-1.7 90 90 90 90 <td></td> | | | | | | | |
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| Silver 0.02 < | | | | | | | |
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| Titanium 0.43 < 1.0 Total Toxic Representation ESSENTIAL AND OTHER ELEMENTS ELEMENTS RESULT μg/g REFERENCE RANGE 2.5 th 16 th PERCENTILE Calcium 572 300- 1200 | | | | | | | |
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| RESULT ELEMENTS REFULT µg/g REFERENCE RANGE 2.5 th 16 th 50 th 84 th 97 Calcium 572 300-1200 | Total Toxic Representa | | | | | | |
| ELEMENTS μg/g RANGE 2.5 th 16 th 50 th 84 th 97 Calcium 572 300-1200 | | | | | | | |
| Calcium 572 $300-1200$ Magnesium 74 $35-120$ Sodium 12 $12-90$ Potassium 9 $8-38$ Copper 11 $12-35$ Zinc 180 $140-220$ Manganese 0.11 $0.15-0.65$ Chromium 0.46 $0.20-0.40$ Vanadium 0.040 $0.018-0.065$ Molybdenum 0.033 $0.028-0.056$ Boron 0.34 $0.30-2.0$ Iodine 9.5 $0.25-1.3$ Lithium < 0.004 $0.007-0.023$ Phosphorus 159 $160-250$ Selenium 1.0 $0.95-1.7$ Strontium 3.4 $0.50-7.6$ Sulfur 49100 $44500-52000$ Barium 1.1 $0.26-3.0$ Cobalt 0.047 $0.013-0.050$ Iron 12 $5.4-14$ | | | | | | | |
| Magnesium 74 35- 120 Sodium 12 12- 90 Potassium 9 8- 38 Copper 11 12- 35 Zinc 180 140- 220 Manganese 0.11 0.15- 0.65 Chromium 0.46 0.20- 0.40 Vanadium 0.040 0.018- 0.065 Molybdenum 0.033 0.028- 0.056 Boron 0.34 0.30- 2.0 Iodine 9.5 0.25- 1.3 Lithium < 0.004 0.007- 0.23 Phosphorus 159 160- 250 Selenium 1.0 0.95- 1.7 Strontium 3.4 0.50- 7.6 Sulfur 49100 44500- 52000 Barium 1.1 0.26- 3.0 Cobalt 0.047 0.013- 0.050 Iron 12 5 | | | | | | | |
| Sodium 12 12-90 Potassium 9 8-38 Copper 11 12-35 Zinc 180 140-220 Manganese 0.11 0.15-0.65 Chromium 0.46 0.20-0.40 Vanadium 0.040 0.018-0.065 Molybdenum 0.033 0.028-0.056 Boron 0.34 0.30-2.0 Idine 9.5 0.25-1.3 Phosphorus 159 160-250 Selenium 1.0 0.95-1.7 Sulfur 49100 44500-52000 Barium 1.1 0.26-3.0 Cobalt 0.047 0.013-0.050 | | | | | | | |
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| Copper 11 12-35 Zinc 180 140-220 Manganese 0.11 0.15-0.65 Chromium 0.46 0.20-0.40 Vanadium 0.040 0.018-0.065 Molybdenum 0.033 0.028-0.056 Boron 0.34 0.30-2.0 Iodine 9.5 0.25-1.3 Lithium < 0.004 | | | | | | | |
| Zinc 180 140-220 | | | | | | | |
| Manganese 0.11 0.15- 0.65 Chromium 0.46 0.20- 0.40 Vanadium 0.040 0.018- 0.065 Molybdenum 0.033 0.028- 0.056 Boron 0.34 0.30- 2.0 Iodine 9.5 0.25- 1.3 Lithium < 0.004 0.007- 0.023 Phosphorus 159 160- 250 Selenium 1.0 0.95- 1.7 Strontium 3.4 0.50- 7.6 Sulfur 49100 44500- 52000 Barium 1.1 0.26- 3.0 Cobalt 0.047 0.013- 0.050 Iron 12 5.4- 14 | | | | | | | |
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| Iron 12 5.4- 14 - | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Germanium | | | | | | |
| Rubidium 0.006 0.007-0.096 | | | | | | | |
| Zirconium 0.20 0.020- 0.42 | Zirconium | | | | | | |
| SPECIMEN DATA RATIOS | | | | | | | |
| COMMENTS: EXPECT | | | | | | | |
| Date Collected:Sample Size:0.198 gELEMENTSRATIOSRANG | Date Collected: | | | | | | |
| Date Received: 3/7/2008 Sample Type: Head Ca/Mg 7.73 4- | Date Received: 3/7 | | | | | | |
| Date Completed: 3/12/2008 Hair Color: Ca/P 3.6 1- | Date Completed: 3/1 | | | | | | |
| Treatment: Na/K 1.33 0.5- | | | | | | | |
| Methodology: ICP-MS Shampoo: Zn/Cu 16.4 4- | Methodology: ICF | | | | | | |
| V06.99 Zn/Cd > 999 > 8 | | | | | | | |

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FECAL METALS



PATIENT: Number 317 SEX: Female

AGE: 61

| POTENTIALLY TOXIC METALS | | | | | |
|--------------------------|--------|--------------------|------------------|------------------|--|
| | RESULT | REFERENCE | PERCENTILE | | |
| METALS | mg/kg | RANGE | 68 th | 95 th | |
| Mercury | 0.379 | <.05 w/o amalgams* | | | |
| Mercury | 0.379 | <.5 with amalgams* | | | |
| | | • | | | |
| Antimony | 0.035 | < 0.080 | | | |
| Arsenic | 0.28 | < 0.30 | | | |
| Beryllium | 0.011 | < 0.009 | | | |
| Bismuth | 0.030 | < 0.050 | | | |
| Cadmium | 0.67 | < 0.50 | | | |
| Copper | 40 | < 60 | | | |
| Lead | 2.15 | < 0.50 | | | |
| Nickel | 10.2 | < 8.0 | | | |
| | | | | | |
| Platinum | 0.023 | < 0.003 | | | |
| Thallium | 0.016 | < 0.020 | | | |
| Tungsten | 0.063 | < 0.090 | | | |
| Uranium | 0.237 | < 0.120 | | | |

| % WATER CONTENT | | | | | |
|-----------------|--------|----------|-----------------|-------|-------------------|
| | RESULT | EXPECTED | | MEAN | |
| | % H₂O | RANGE | 2SD LOW 1SD LOW | 72.5% | 1SD HIGH 2SD HIGH |
| % WATER CONTENT | 78.3 | 60-85% | | | |

DISCUSSION

Analysis of elements in feces provides a comprehensive evaluation of environmental exposure, accumulation and endogenous detoxification of potentially toxic metals. For several toxic elements such as mercury, cadmium, lead, antimony and uranium, biliary excretion of metals into feces is the primary natural route of elimination from the body. Studies performed at DDI demonstrate that the fecal mercury content and number of amalgam surfaces are highly correlated, as is the case for post-DMPS urine mercury levels and amalgam surface area.

Results are reported as mg/kg dry weight of feces to eliminate the influence of variability in water content of fecal specimens. The

reference values that appear in this report have been derived from both published data and in-house studies at DDI. *Due to exposure to mercury in the oral cavity, people with dental amalgams typically have a considerably higher level of mercury in the feces than individuals without dental amalgams; therefore, two reference ranges have been established for mercury.

To provide guidance in interpretation of results, patient values are plotted graphically with respect to percentile distribution of the population base. Since this test reflects both biliary excretion and exposure (metals to which the patient is exposed may not be absorbed), it may not correlate with overt clinical effects. Further testing can assist in determining whether the metals are from endogenous (biliary excretion) or exogenous (oral exposure) sources.

- 1. Bjorkman, L, Sandborgh-Englund, G, and Ekstand, J,. Mercury in Saliva and Feces after Removal of Amalgam Fillings. Toxicology & Applied Pharmacology 144: 156-162 (1997)
- 2. Zalups, R, Progressive Losses of Renal Mass and the Renal and Hepatic Disposition of Administered Inorganic Mercury. Toxicology & Applied Pharmacology 130: 121-131 (1995)
- 3. Adamsson, E., Piscator, M., and Nogawa, K., Pulmonary and Gastrointestinal Exposure to Cadmium Oxide Dust in a Battery Factory. Environmental Health Perspectives, 28: 219-222 (1979)
- 4. Smith, J., et al., The Kinetics of Intravenously Administered Methyl Mercury in Man. Toxicology & Applied Pharmacology 128:251-256 (1994)
- 5. Bass, D., et al., "Measurement of Mercury in Feces", Poster presentation 1999 AACC

| | SPECIMEN DATA | |
|----------------------------|-----------------------|----------------------------|
| Comments: | | |
| Date Collected: 10/6/2008 | Provocation: | Dental Amalgams: Yes |
| Date Received: 10/7/2008 | Detoxification Agent: | Quantity: |
| Date Completed: 10/11/2008 | Dosage: | Methodology: ICP-MS v02.00 |

24 HOUR URINE TOXIC METALS



PATIENT: Number 317 SEX: Female AGE:

| | | POTEN | | CMETALS | | | |
|-----------|----------------------|--------------------|----------------------|--------------------|----------------------|----------|------------------|
| | | | | | | | |
| METALS | RESULT μg/g CREAT | REFERENCE RANGE | RESULT μg/24 HOUR | REFERENCE RANGE | WITHIN REF. RANGE | ELEVATED | VERY ELEVATED |
| Aluminum | 68 | < 35 | 74 | < 30 | | | |
| Antimony | 0.1 | < 1 | 0.1 | < 1 | - | | |
| Arsenic | 58 | < 130 | 63 | < 140 | | | |
| Beryllium | < dl | < 0.5 | < dl | < 0.6 | | | |
| Bismuth | < dl | < 15 | < dl | < 15 | | | |
| Cadmium | 0.9 | < 2 | 1 | < 2 | | | |
| Lead | 1.1 | < 5 | 1.2 | < 5 | _ | | |
| Mercury | 2 | < 4 | 2.2 | < 5 | | | |
| Nickel | 5.5 | < 12 | 6 | < 15 | | | |
| Platinum | < dl | < 1 | < dl | < 1 | | | |
| Thallium | 0.3 | < 0.8 | 0.4 | < 0.7 | | | |
| Thorium | < dl | < 0.3 | < dl | < 0.3 | | | |
| Tin | 0.9 | < 10 | 1 | < 9 | - | | |
| Tungsten | 0.6 | < 1 | 0.6 | < 0.9 | | | |
| Uranium | 0.3 | < 0.2 | 0.4 | < 0.2 | | | |
| | | | CREATININ | E | | | |
| | RESULT | REFERENCE | 2SD I OW | | MEAN | 1SD HIGH | 2SD HIGH |

| | RESULT mg/24 hr | REFERENCE RANGE | 2SD LOW 1SD LOW | MEAN | 1SD HIGH 2SD HIGH |
|------------|--------------------|--------------------|-----------------|------|-------------------|
| Creatinine | 1090 | 600- 1900 | | | |

SPECIMEN DATA

| Comments: | |
|-----------------|------------|
| Date Collected: | 10/16/2008 |
| Date Received: | 10/20/2008 |
| Date Completed: | 11/4/2008 |

Method: ICP-MS <dl: less than detection limit Provoking Agent:

Collection Period: 24 Hr/Coll Volume: Provocation:

800 ml PRE PROVOCATIVE

Toxic metals are reported as µg/g creatinine and µg/24 hour to account for urine dilution variations. Reference ranges are representative of a healthy population under non-challenge or non-provoked conditions. No safe reference levels for toxic metals have been established. V10.00

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Health history for hair test 317

1. My current symptoms: short term memory issues (life-long), depression, fatigue, joint pains, food cravings. Also very poor balance life-long. I have been fairly healthy until about two years ago.(except for slow weight gain from 40 to 62, my current age), and intermittent depression and memory issues which I compensated for. I do fit the personality profile of being somewhat detached, apathetic and other characteristics Andy describes. When I was in my late teens I had fairly severe mood swings. My diet has been mediocre until about two years ago.

My health history includes one C-section and gall bladder removal, and mild hypertension now.

About 2-3 years ago I developed more fatigue and joint pain. I am a conventional MD but at this point became much more interested in integrative medicine and saw a several integrative practitioners. At this point I discovered gluten sensitivity, improved diet, and began lots of supplements with some improvement.

I had lots of amalgams (see below).

I did the hair analysis in early 2008 and was told that it looked OK, so had the basic plan of removing amalgams and ordinary supplements. I received conflicting advice, and started taking chlorella during the amalgam removal, as well as MSM. I also used Karack's oil supplements and homeopathic remedies. I did not have many symptoms during the removal. I also have been on hormonal support (thyroid, adrenal). I also heavily supplemented amino acids, maybe the wrong ones. However, now it is about eight months after the amalgam removal and I am feeling more depressed, lethargic, and the initial mild memory improvement I had is gone. I started alpha-lipoic acid 300 mg daily, and discovered it was making me worse. I am concerned that I did not follow a good enough protocol initially, and needl help now and to do it right!

I was not sure how to assess my level of mercury toxicity, since my hair analysis wasn;t too bad. However, out of 24 physical and lab markers (in Andy's book) I had 10 abnormal. Some of these improved (temporarily) with supplements, but now I have regressed. I have mildly elevated AST/ALT since age 40, although it diminishes and sometimes goes away with better diet and liver herbs. My HDL was low initially; my white blood count has been low since age 25.

I need some guidance as to whether I am mercury poisoned and how much. I am sending off the porphyrin test to France in the next couple days. I also am going to do a blood spot amino acid test shortly.

2.. I basically had massive amalgam placement in childhood - age 5-8. I had many cavities and was taking to an inexpensive dentist in a rural midwestern town in the 1950's. I remember feeling awful after these trips. I was VERY spacy, could not concentrate, not really sociable as a child. My mother called it daydreaming. Yet somehow academically and intellectually I was OK despite this.

Memory was TERRIBLE. I remember being in Sunday School and not being able to grasp what was going on. Somehow, this improved by the time I got to first grade. Later in childhood I had a few more amalgams, and had wisdom teeth out in my 20's. No root canals. Some of the old amalgams broke down in the next couple decades and were replaced with various materials that I did not pay much attention to. One large amalgam was removed in late 2007 and replaced with a crown of a "high noble metal." At this point I had 11 amalgams in all four quadrants of my mouth, some large and replacing the whole tooth almost.

3. When I became aware and was really convinced that the amalgams might be a problem, I had the amalgams removed by a good IAOMT from August, 2008-February 2009. I also had the 2007 crown replaced. I believe I still have an amalgam tattoo surrounding one of the old amalgam sites. Mostly gold was used in the replacements.

4. I don't know much about my mother's dentistry, but suspect she had at least a few of the awful amalgams from the same dentist she took me to.

5.. I had a few childhood vaccinations in the 1950's, and travel vaccinations over 20 years ago. I had a Hep B series 5 years ago. I have never had a flu shot or other vaccine other than those mentioned. I am resisting the tremendous pressure to get the flu shots as a health care provider.

6. Supplements at the time of hair test 3/08: multivitamin, fish oil, "Travacor:" - 5HT, zinc, , B12, selenium, taurine, L-Theanine, "Adrecor" - Rhodiola, EGCG, ALph-GPC, Gluitamine, Mg, Panthothenic acid.

7. -

8. I am in the San Francisco Bay area.