

HAIR ELEMENTS



PATIENT: Number 315a
SEX: Male
AGE: 52
LOCATION: Rockleigh, NJ, USA

POTENTIALLY TOXIC ELEMENTS

| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| | | | 68 th | 95 th |
| Aluminum | 4.7 | < 7.0 | | |
| Antimony | 0.030 | < 0.066 | | |
| Arsenic | 0.054 | < 0.080 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.078 | < 0.060 | | |
| Cadmium | 0.046 | < 0.15 | | |
| Lead | 2.0 | < 2.0 | | |
| Mercury | 3.2 | < 1.1 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | < 0.001 | < 0.010 | | |
| Thorium | < 0.001 | < 0.005 | | |
| Uranium | 0.038 | < 0.060 | | |
| Nickel | 0.15 | < 0.40 | | |
| Silver | 0.14 | < 0.12 | | |
| Tin | 0.19 | < 0.30 | | |
| Titanium | 0.41 | < 1.0 | | |
| 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 | 298 | 200- 750 | | | | | |
| Magnesium | 38 | 25- 75 | | | | | |
| Sodium | 31 | 12- 90 | | | | | |
| Potassium | 15 | 9- 40 | | | | | |
| Copper | 17 | 10- 28 | | | | | |
| Zinc | 140 | 130- 200 | | | | | |
| Manganese | 0.20 | 0.15- 0.65 | | | | | |
| Chromium | 0.49 | 0.20- 0.40 | | | | | |
| Vanadium | 0.044 | 0.018- 0.065 | | | | | |
| Molybdenum | 0.041 | 0.025- 0.064 | | | | | |
| Boron | 0.52 | 0.40- 3.0 | | | | | |
| Iodine | 11 | 0.25- 1.3 | | | | | |
| Lithium | 0.004 | 0.007- 0.023 | | | | | |
| Phosphorus | 159 | 160- 250 | | | | | |
| Selenium | 1.0 | 0.95- 1.7 | | | | | |
| Strontium | 0.93 | 0.30- 3.5 | | | | | |
| Sulfur | 52700 | 44500- 52000 | | | | | |
| Barium | 1.1 | 0.16- 1.6 | | | | | |
| Cobalt | 0.016 | 0.013- 0.035 | | | | | |
| Iron | 8.6 | 5.4- 13 | | | | | |
| Germanium | 0.041 | 0.045- 0.065 | | | | | |
| Rubidium | 0.014 | 0.011- 0.12 | | | | | |
| Zirconium | 0.24 | 0.020- 0.44 | | | | | |

SPECIMEN DATA

COMMENTS:
 Date Collected: 10/19/2005 Sample Size: 0.201 g
 Date Received: 10/21/2005 Sample Type: Head
 Date Completed: 10/25/2005 Hair Color:
 Treatment:
 Methodology: ICP-MS Shampoo:

RATIOS

| ELEMENTS | RATIOS | EXPECTED RANGE |
|----------|--------|----------------|
| Ca/Mg | 7.84 | 4- 30 |
| Ca/P | 1.87 | 0.8- 8 |
| Na/K | 2.07 | 0.5- 10 |
| Zn/Cu | 8.24 | 4- 20 |
| Zn/Cd | > 999 | > 800 |

V06.99



Elemental Analysis Hair



41,280th Street
Scranton, PA 18501
© Genova Diagnostics

Client: GREG
BAUMER
pt: 54
ex: 18
NPI: 000024324

Order Number: 86116628
Order Date: June 11, 2007
Received: June 11, 2007
Delivered: June 04, 2007

Marche-Grube DMD
810 Green Ridge St
Scranton, PA 18508

Toxic Elements

| Element | Reference Range | Reference Range in µg/g |
|----------|-----------------|----------------------------|
| Aluminum | 52 | <= 17.0 |
| Antimony | 0.026 | <= 0.078 |
| Arsenic | 0.074 | <= 0.080 |
| Bismuth | 1.07 | <= 1.70 |
| Bismuth | 5.12 | <= 0.78 |
| Cadmium | 0.002 | <= 0.002 |
| Cadmium | 0.0076 | <= 0.0004 |
| Cobalt | 0.021 | <= 0.70 |
| Copper | 0.96 | <= 1.02 |
| Lead | 1.14 | <= 0.00 |
| Mercury | 0.00 | <= 0.000 |
| Mercury | 0.008 | <= 0.00 |
| Nickel | 0.00 | <= 0.000 |
| Niobium | 0.00 | <= 0.000 |
| Vanadium | 0.00 | <= 0.000 |
| Zinc | 0.00 | <= 0.00 |
| Zinc | 0.008 | <= 0.007 |

Nutritional Elements

| Element | Reference Range | Reference Range in µg/g |
|-------------|-----------------|----------------------------|
| Calcium | 490 | 100-1000 |
| Chromium | 0.00 | 0.01-1.00 |
| Cobalt | 0.000 | 0.001-0.100 |
| Copper | 1.0 | 0-1.00 |
| Iron | 0.0 | 0.000-0 |
| Magnesium | 40 | 11-100 |
| Manganese | 0.06 | 0.04-1.00 |
| Nickelobium | 0.00 | 0.01-1.00 |
| Phosphorus | 0.00 | 100-200 |
| Selenium | 0.75 | 0.00-1.00 |
| Sodium | 1.0 | 10-400 |
| Strontium | 1.00 | 0.01-4.00 |
| Sulfur | 01.000 | 40,000-60,000 |
| Vanadium | 0.00 | 0.000-0.100 |
| Zinc | 0.0 | 10-100 |

Reference Range

| | | |
|-----------|-------|---------|
| Lithium | 0.110 | <= 0.00 |
| Potassium | 0 | <= 1.0 |

Matrix

Matrix Range Outside Range Reference Range

Ca/P: 11 5-25

Ca/P: 0 1-0

HAIR ELEMENTS



PATIENT: Number 315
SEX: Male
AGE: 55

| POTENTIALLY TOXIC ELEMENTS | | | | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
| | | | 68 th | 95 th |
| Aluminum | 5.0 | < 7.0 | | |
| Antimony | 0.019 | < 0.066 | | |
| Arsenic | 0.034 | < 0.080 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.055 | < 2.0 | | |
| Cadmium | 0.034 | < 0.15 | | |
| Lead | 0.44 | < 2.0 | | |
| Mercury | 3.3 | < 1.1 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | < 0.001 | < 0.010 | | |
| Thorium | < 0.001 | < 0.005 | | |
| Uranium | 0.040 | < 0.060 | | |
| Nickel | 0.11 | < 0.40 | | |
| Silver | 0.05 | < 0.12 | | |
| Tin | 0.08 | < 0.30 | | |
| Titanium | 0.31 | < 1.0 | | |
| 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 | 1110 | 200- 750 | | | | | |
| Magnesium | 45 | 25- 75 | | | | | |
| Sodium | 28 | 12- 90 | | | | | |
| Potassium | 5 | 9- 40 | | | | | |
| Copper | 20 | 10- 28 | | | | | |
| Zinc | 230 | 130- 200 | | | | | |
| Manganese | 0.31 | 0.15- 0.65 | | | | | |
| Chromium | 0.38 | 0.20- 0.40 | | | | | |
| Vanadium | 0.041 | 0.018- 0.065 | | | | | |
| Molybdenum | 0.039 | 0.025- 0.064 | | | | | |
| Boron | 0.44 | 0.40- 3.0 | | | | | |
| Iodine | 0.51 | 0.25- 1.3 | | | | | |
| Lithium | < 0.004 | 0.007- 0.023 | | | | | |
| Phosphorus | 159 | 160- 250 | | | | | |
| Selenium | 1.1 | 0.95- 1.7 | | | | | |
| Strontium | 1.6 | 0.30- 3.5 | | | | | |
| Sulfur | 46400 | 44500- 52000 | | | | | |
| Barium | 2.3 | 0.16- 1.6 | | | | | |
| Cobalt | 0.009 | 0.013- 0.035 | | | | | |
| Iron | 10 | 5.4- 13 | | | | | |
| Germanium | 0.028 | 0.045- 0.065 | | | | | |
| Rubidium | 0.011 | 0.011- 0.12 | | | | | |
| Zirconium | 0.086 | 0.020- 0.44 | | | | | |

| SPECIMEN DATA | | | RATIOS | | |
|---------------------------|--------------|---------|-----------------|---------------|-----------------------|
| COMMENTS: | | | ELEMENTS | RATIOS | EXPECTED RANGE |
| Date Collected: | Sample Size: | 0.196 g | Ca/Mg | 24.7 | 4- 30 |
| Date Received: 7/28/2008 | Sample Type: | Head | Ca/P | 6.98 | 0.8- 8 |
| Date Completed: 7/30/2008 | Hair Color: | | Na/K | 5.6 | 0.5- 10 |
| | Treatment: | | Zn/Cu | 11.5 | 4- 20 |
| Methodology: ICP-MS | Shampoo: | | Zn/Cd | > 999 | > 800 |

V06.99

HAIR ELEMENTS



PATIENT: Number 315
SEX: Male
AGE: 55

| POTENTIALLY TOXIC ELEMENTS | | | | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
| | | | 68 th | 95 th |
| Aluminum | 2.8 | < 7.0 | | |
| Antimony | 0.013 | < 0.066 | | |
| Arsenic | 0.022 | < 0.080 | | |
| Barium | 7.1 | < 1.0 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.018 | < 2.0 | | |
| Cadmium | 0.033 | < 0.065 | | |
| Lead | 2.3 | < 0.80 | | |
| Mercury | 2.7 | < 0.80 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | < 0.001 | < 0.002 | | |
| Thorium | < 0.001 | < 0.002 | | |
| Uranium | 1.1 | < 0.060 | | |
| Nickel | 0.26 | < 0.20 | | |
| Silver | 0.02 | < 0.08 | | |
| Tin | 0.68 | < 0.30 | | |
| Titanium | 0.57 | < 0.60 | | |
| 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 | 2610 | 200- 750 | | | | | |
| Magnesium | 100 | 25- 75 | | | | | |
| Sodium | 23 | 20- 180 | | | | | |
| Potassium | 5 | 9- 80 | | | | | |
| Copper | 22 | 11- 30 | | | | | |
| Zinc | 210 | 130- 200 | | | | | |
| Manganese | 0.19 | 0.08- 0.50 | | | | | |
| Chromium | 0.42 | 0.40- 0.70 | | | | | |
| Vanadium | 0.038 | 0.018- 0.065 | | | | | |
| Molybdenum | 0.034 | 0.025- 0.060 | | | | | |
| Boron | 0.45 | 0.40- 3.0 | | | | | |
| Iodine | 0.31 | 0.25- 1.8 | | | | | |
| Lithium | 0.008 | 0.007- 0.020 | | | | | |
| Phosphorus | 162 | 150- 220 | | | | | |
| Selenium | 0.96 | 0.70- 1.2 | | | | | |
| Strontium | 8.1 | 0.30- 3.5 | | | | | |
| Sulfur | 50000 | 44000- 50000 | | | | | |
| Cobalt | 0.033 | 0.004- 0.020 | | | | | |
| Iron | 5.1 | 7.0- 16 | | | | | |
| Germanium | 0.037 | 0.030- 0.040 | | | | | |
| Rubidium | 0.008 | 0.011- 0.12 | | | | | |
| Zirconium | 0.11 | 0.020- 0.44 | | | | | |

| SPECIMEN DATA | | RATIOS | | |
|---------------------------|----------------------|----------|--------|----------------|
| COMMENTS: | | ELEMENTS | RATIOS | EXPECTED RANGE |
| Date Collected: | Sample Size: 0.204 g | | | |
| Date Received: 3/24/2009 | Sample Type: Head | Ca/Mg | 26.1 | 4- 30 |
| Date Completed: 3/26/2009 | Hair Color: | Ca/P | 16.1 | 0.8- 8 |
| Client Reference: | Treatment: | Na/K | 4.6 | 0.5- 10 |
| Methodology: ICP-MS | Shampoo: | Zn/Cu | 9.55 | 4- 20 |
| | | Zn/Cd | > 999 | > 800 |

V010.08

HAIR ELEMENTS



PATIENT: Number 315
SEX: Male
AGE: 56

| POTENTIALLY TOXIC ELEMENTS | | | | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
| | | | 68 th | 95 th |
| Aluminum | 1.7 | < 7.0 | | |
| Antimony | 0.014 | < 0.066 | | |
| Arsenic | 0.033 | < 0.080 | | |
| Barium | 7.4 | < 1.0 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.017 | < 2.0 | | |
| Cadmium | 0.063 | < 0.065 | | |
| Lead | 1.9 | < 0.80 | | |
| Mercury | 1.5 | < 0.80 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | < 0.001 | < 0.002 | | |
| Thorium | < 0.001 | < 0.002 | | |
| Uranium | 2.7 | < 0.060 | | |
| Nickel | 0.24 | < 0.20 | | |
| Silver | 0.02 | < 0.08 | | |
| Tin | 0.32 | < 0.30 | | |
| Titanium | 0.59 | < 0.60 | | |
| 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 | 2280 | 200- 750 | | | | | |
| Magnesium | 100 | 25- 75 | | | | | |
| Sodium | 30 | 20- 180 | | | | | |
| Potassium | 19 | 9- 80 | | | | | |
| Copper | 34 | 11- 30 | | | | | |
| Zinc | 190 | 130- 200 | | | | | |
| Manganese | 0.15 | 0.08- 0.50 | | | | | |
| Chromium | 0.35 | 0.40- 0.70 | | | | | |
| Vanadium | 0.056 | 0.018- 0.065 | | | | | |
| Molybdenum | 0.032 | 0.025- 0.060 | | | | | |
| Boron | 1.0 | 0.40- 3.0 | | | | | |
| Iodine | 0.54 | 0.25- 1.8 | | | | | |
| Lithium | 0.006 | 0.007- 0.020 | | | | | |
| Phosphorus | 181 | 150- 220 | | | | | |
| Selenium | 0.80 | 0.70- 1.2 | | | | | |
| Strontium | 7.5 | 0.30- 3.5 | | | | | |
| Sulfur | 48900 | 44000- 50000 | | | | | |
| Cobalt | 0.042 | 0.004- 0.020 | | | | | |
| Iron | 8.2 | 7.0- 16 | | | | | |
| Germanium | 0.035 | 0.030- 0.040 | | | | | |
| Rubidium | 0.016 | 0.011- 0.12 | | | | | |
| Zirconium | 0.13 | 0.020- 0.44 | | | | | |

| SPECIMEN DATA | | | RATIOS | | |
|---------------------------|-------------------------|--|-----------------|---------------|-----------------------|
| COMMENTS: | | | ELEMENTS | RATIOS | EXPECTED RANGE |
| Date Collected: 8/7/2009 | Sample Size: 0.197 g | | Ca/Mg | 22.8 | 4- 30 |
| Date Received: 9/11/2009 | Sample Type: Head | | Ca/P | 12.6 | 0.8- 8 |
| Date Completed: 9/12/2009 | Hair Color: | | Na/K | 1.58 | 0.5- 10 |
| Client Reference: | Treatment: | | Zn/Cu | 5.59 | 4- 20 |
| Methodology: ICP-MS | Shampoo: Phytoprogenium | | Zn/Cd | > 999 | > 800 |

Health history for hair test 315

1. current symptoms, Extreme fatigue, sore joints, depression, anxiety, lack of focus and concentration.

2. Amalgams first put in when i was 15 these were never changed or modified. Numerous amalgams installed up to the age of 35. Then gold was installed after that.

Root canal installed in Oct 06 and removed 07,

3, I currently have 5 caps installed by Dr Grube who is very aware of Mercury fillings and follows strict extraction rules .

4 mother had Amalgams

5.Polo, tetanus, Malaria, Small pox. i don't take flu shots

6.none

7. My uranium started to rise a few months after i moved into new home that gets all water from well water. However the water taste horrible so we never drink it. we only drink distilled water. but we brush our teeth and wash our food with the well water.

8. I live in a very small town called Rockleigh, NJ 07647. It is close to large town call Northvale. Rockleigh is never on any maps.