

PATIENT: Number 625 SEX: Male AGE: 39

## Toxic & Essential Elements; Hair

| $\begin{tabular}{ c c c c c c } \hline RESULT & REFERENCE & & & & & & & & & & & & & & & & & & &$   | TOXIC METALS               |          |         |             |                                    |                   |                                     |  |
|--|----------------------------|----------|---------|-------------|------------------------------------|-------------------|-------------------------------------|--|
| Aluminum (A) 8.3 < 7.0<br>Artenory (Sb) 0.034 < 0.066<br>Arsenic (A) 0.059 < 0.066<br>Barlum (Ba) 0.013 < 0.066<br>Barlum (Ba) 0.012 < 2.0<br>Escamium (Cd) 0.017 < 0.065<br>Escamium (Cd) 0.017 < 0.066<br>Bismuth (B) 0.012 < 2.0<br>Escamium (Cd) 0.017 < 0.066<br>Platinum (Pt) 0.48 < 0.80<br>Platinum (Pt) 0.003 < 0.002<br>Platinum (Pt) 0.001 < 0.002<br>Platinum (Th) 0.001 < 0.002<br>Thorkum (Th) 0.001 < 0.002<br>Finallum (Th) 0.001 < 0.002<br>Finallum (Th) 0.033 < 0.30<br>Finallum (Th) 0.18 < 0.60<br>Escamium (Ca) 0.33 < 0.30<br>Finallum (Th) 0.18 < 0.60<br>Escamium (Ca) 176 200 - 755<br>Escamium (K) 310 9 - 80<br>Copper (Cu) 11 11 - 30<br>Zinc (Zn) 100 130 - 200<br>Magnasium (K) 310 9 - 80<br>Copper (Cu) 11 11 - 30<br>Zinc (Zn) 100 130 - 200<br>Magnasium (Mo) 0.043 0.025 - 755<br>Escamium (Ca) 1.00 130 - 200<br>Magnasium (Mo) 0.015 0.050<br>Chronium (Cr) 0.52 0.040 - 0.70<br>Magnasium (Mo) 0.043 0.025 - 0.060<br>Escamium (Ca) 1.77 0.25 1.8<br>Urbanium (Ca) 1.8<br>Softwar (Ca) 1.77 0.25 1.8<br>Urbanium (Ca) 0.051 0.002<br>Escamium (Ca) 0.052 0.040 - 0.70<br>Magnasium (Mo) 0.043 0.025 - 0.060<br>Escamium (Ca) 1.77 0.25 1.8<br>Urbanium (Ca) 0.051 0.000<br>Escamium (Ca) 0.052 0.040 - 0.70<br>Magnasium (Mb) 0.043 0.025 - 0.060<br>Escamium (Ca) 0.051 0.007 0.020<br>Magnasium (Mb) 0.043 0.025 0.060<br>Escamium (Ca) 0.051 0.007 0.020<br>Escamium (Ca) 0.051 0.007 0.020<br>Escamium (Ca) 0.041 0.025 0.060<br>Escamium (Ca) 0.041 0.025 0.060<br>Escamium (Ca) 0.043 0.025 0.060<br>Escamium (Ca) 0.045 0.027 0.020<br>Escamium (Ca) 0.045 0.027 0.020<br>Escamium (Ca) 0.048 0.011 0.12<br>Escamium (Ca) 0.048 0.011 0.12<br>Escam                                     |                            |          |         |             | PERCENTILE                         |                   |                                     |  |
| Antimony (Sb) 0.034 < 0.060<br>Arsenic (As) 0.059 < 0.080<br>Barium (Ba) 0.13 < 0.06<br>Beryllium (Ba) 0.012 < 0.080<br>Beryllium (Cd) 0.017 < 0.062<br>Cadmium (Cd) 0.017 < 0.062<br>Cadmium (Cd) 0.017 < 0.063<br>Hercury (Hq) 0.82 < 0.80<br>Mercury (Hq) 0.83 < 0.90<br>Silver (Aq) 0.25 < 0.60<br>Tin (Ca) 176 200 - 750<br>Solum (Na) 140 20 - 180<br>Capper (Cu) 11 11 - 30<br>Mananese (Mn) 0.25 0.66 0.50<br>Chronium (Cr) 0.52 0.60 - 50<br>Chronium (Cr) 0.52 0.60 0.50<br>Chronium (Cr) 0.52 0.60 0.50<br>Chronium (Cr) 0.52 0.60 0.50<br>Chronium (Sh) 0.60 0.77 1.2<br>Strottim (Sh) 0.68 0.50<br>Chronium (Sh) 0.60 0.77 1.2<br>Strottim (Sh) 0.68 0.50<br>Cobat (Co) 0.006 0.004 0.30<br>Cobat (Co) 0.006 0.004 0.30<br>CapP 0.97<br>Date Collected: 3/20/2012<br>Sample Size: 0.2 g<br>Sample Size: 0.2 g<br>Sample Size: 0.2 g<br>Caple Tro. 12<br>Carcium (Rb) 0.48 0.011 - 0.12<br>Carcu 0.99 > 80<br>CapP 0.97<br>Coll 17.6 4.30<br>CaP 0.978<br>Mercury (Hq) 0.7 7.0 - 16<br>Call Marcury (Hq) 0.18 0.020 0.44<br>Mercury (Hq) 0.18 0.021 0.44<br>Mercury (Hq) 0.18 0.021 0.44<br>Mercury (Hq) 0.18 0.021 0.44<br>Mercury (Hq) 0.18 0.021 0.24<br>Marcury (Hq) 0.14 0.012 0.25<br>CapP 0.978<br>Date Collected: 3/20/2012<br>Sample Type: Bead<br>Hair Color: Brown<br>Mark 0.452 0.5 - 10<br>Zn(Cu 9.99 > 80<br>CapP 0.978 0.5 - 10<br>Zn(Cu 9.99 > |                            |          | μg/g    |             | 6                                  | 8 <sup>th</sup> g | 5 <sup>th</sup>                     |  |
| Arsenic (As) 0.059 < 0.080<br>Barium (Ba) 0.13 < 1.0<br>Beryllium (Ba) 0.12 < 0.020<br>Bismuth (Bi) 0.012 < 0.020<br>Cadmium (Cd) 0.017 < 0.065<br>Lead (Pb) 0.48 < 0.800<br>Mercury (Hg) 0.82 < 0.080<br>Platinum (Pf) < 0.003 < 0.005<br>Platinum (Pf) < 0.001 < 0.002<br>Platinum (Th) 0.001 < 0.002<br>Thorium (Th) 0.001 < 0.002<br>Mickel (Nh) 0.23 < 0.020<br>Nickel (Nh) 0.18 < 0.600<br>Teaminm (Ti) 0.18 < 0.602<br>Maganese (Mg) 0.25 < 0.080<br>Manganese (Mg) 0.25 0.080<br>Manganese (Mg) 0.043 0.025<br>Nickel 0.01 11 11-30<br>Manganese (Mg) 0.043 0.025<br>Nickel 0.01 1.7 0.025 0.080<br>Manganese (Mg) 0.043 0.025<br>Nickel 0.01 1.7 0.025 0.080<br>Manganese (Mg) 0.043 0.025 0.080<br>Manganese (Mg) 0.048 0.010 0.020<br>Manganese (Mg) 0.048 0.010 0.020<br>Manganese (Mg) 0.048 0.010 0.020<br>Manganese (Mg) 0.048 0.010 0.020<br>Manganese (Mg   | Aluminum                   |          |         |             |                                    | -                 |                                     |  |
| Barjum         (Ba)         0.13         < 1.0   | Antimony                   | (Sb)     | 0.034   | < 0.066     |                                    |                   |                                     |  |
| Baryllium         (Ba)         < 0.01  | Arsenic                    | (As)     | 0.059   | < 0.080     |                                    |                   |                                     |  |
| Bismuth (B) 0.012 < 2.0<br>Cadmium (Cd) 0.017 < 0.065<br>Lead (Pb) 0.48 < 0.86<br>Mercury (Hg) 0.82 < 0.86<br>Platinum (Pt) < 0.003 < 0.002<br>Thallium (Th) 0.001 < 0.002<br>Uranium (U) 0.009 < 0.060<br>Uranium (U) 0.009 < 0.060<br>Transition (R) 0.33 < 0.30<br>Silver (Aa) 0.25 < 0.08<br>Tin (Sn) 0.30 < 0.30<br>Total Toxic Representation<br>ESSENTAL AND OTHER ELEMENTS<br>ESSENTAL AND OTHER ELEMENTS<br>ESSENTAL AND OTHER ELEMENTS<br>ESSENTAL AND OTHER ELEMENTS<br>Calcium (Ca) 176 200- 750<br>Calcium (K) 310 9- 80<br>Copper (Cu) 11 11 1.3 30<br>Copper (Cu) 11 11.1 30<br>Potassium (K) 310 9- 80<br>Copper (Cu) 11 11.1 30<br>Potassium (K) 310 9- 80<br>Copper (Cu) 11 11.1 30<br>Copper (Cu) 11 0.11 - 30<br>Manganese (Mn) 0.25 0.082 - 0.08<br>Formium (Cr) 0.52 0.40- 0.70<br>Manganese (Mn) 0.25 0.022 - 0.08<br>Boron (B) 1.8 0.40- 3.0<br>Boron (B) 1.8 0.002- 0.44<br>Calcium (Ca) 0.006 0.004- 0.002<br>Boron (Ca) 0.006 0.004- 0.002<br>Boron (Ca) 0.006 0.004- 0.002<br>Calcium (Ca) 0.006 0.004- 0.002<br>Boron (Ca) 0.006 0.004- 0.002<br>Boron (Ca) 0.006 0.004- 0.002<br>Calcium (Ca)  | Barium                     | (Ba)     | 0.13    | < 1.0       |                                    |                   |                                     |  |
| Cadmium       (Co)       0.017       < 0.065         Lead       (Pb)       0.48       < 0.80         Mercury       (Hg)       0.622       < 0.80         Platinum       (Pt)       < 0.003       < 0.005         Thorium       (Th)       0.001       < 0.002         Uranium       (U)       0.009       < 0.060         Nickel       (Ni)       0.23       < 0.20         Nickel       (Ni)       0.23       < 0.060         Nickel       (Ni)       0.23       < 0.060         Silver       (Ag)       0.25       < 0.06         Tata Toxic Representation       ESSENTIAL AND OTHER ELEMENTS       PERCENTLE         RESULT       REFERENCE       25 <sup>th</sup> 10 <sup>th</sup> Magnesium       (Mg)       10       25-       750         Sodium       (Na)       140       20-       180         Calcium       (Ca)       176       200-       750         Sodium       (Na)       140       20-       180         Capper       (Cu)       11       11-       30         Calcium       (Ko)       310       9-       80         Calgo (Magnesium  | Beryllium                  | (Be)     | < 0.01  | < 0.020     |                                    |                   |                                     |  |
| Lead         (Pb)         0.48         < 0.80           Mercury         (Hg)         0.82         < 0.80           Mercury         (Hg)         0.82         < 0.80           Plainum         (Pt)         < 0.001         < 0.002           Thailum         (Th)         0.001         < 0.002           Thorium         (U)         0.009         < 0.000           Uranium         (U)         0.009         < 0.000           Silver         (Aq)         0.25         < 0.00           Tin         (Sn)         0.30         < 0.30         < 0.30           Totic Representation         ESSENTIA AND OTHER ELEMENTS         PERCENTLE           RESULT         REFERENCE<br>Magnesium         PERCENTLE         25 <sup>th</sup> 18 <sup>th</sup> 97.5 <sup>th</sup> Magnesium         (Mg)         10         25 - 7.5         18 <sup>th</sup> 97.5 <sup>th</sup> Magnesium         (Mg)         10         25 - 0.48         97.5 <sup>th</sup> Magnese         (Mn)         0.25         0.48 - 0.55         90.055           Chorenium         (Cr)         0.52         0.48 - 0.55         90.055           Chorenium         (D)         0.11         0.025 - 0.665   | Bismuth                    | (Bi)     | 0.012   | < 2.0       | •                                  |                   |                                     |  |
| Mercury       (Hq)       0.82       < 0.80         Platinum       (Pt)       < 0.003       < 0.005         Platinum       (Th)       < 0.001       < 0.002         Thorium       (Th)       < 0.001       < 0.002         Uranium       (U)       0.009       < 0.060         Silver       (Aq)       0.25       < 0.02         Tin       (Sn)       0.30       < 0.20         Titanium       (Ti)       0.18       < 0.00         Titanium       (Ca)       176       200-750         Magnesium       (Ca)       176       200-750         Magnesium       (Magnesium)       140       20-180         Cobustion       111       11-30       9-88         Obtassium       (Na)       140       20-180       9-88         Optassium       (Na)       140       20-180       9-88         Optassium       (Na)       140       20-180       9-88         Optassium       (Na)       140       20-180       9-88         Obtassium       (Na)       140       20-180       9-88         Obtassium       (No)       0.042       0.025       0.060  | Cadmium                    | (Cd)     | 0.017   | < 0.065     | -                                  |                   |                                     |  |
| Platinum       (Pt)       < 0.003       < 0.005         Thallium       (Ti)       0.001       < 0.002  | Lead                       | (Pb)     | 0.48    | < 0.80      |                                    |                   |                                     |  |
| Thailium       (Th)       0.001       < 0.002         Thorium       (Th)       < 0.001   | Mercury                    | (Hg)     | 0.82    | < 0.80      |                                    |                   |                                     |  |
| Thorium         (Th)         < 0.001         < 0.002           Uranium         (U)         0.009         < 0.000   | Platinum                   | (Pt)     | < 0.003 | < 0.005     |                                    |                   |                                     |  |
| Uranium       (U)       0.009       < 0.060         Nickel       (Ni)       0.23       < 0.20         Nickel       (Ni)       0.23       < 0.20         Tin       (Sn)       0.30       < 0.30         Tini       (Sn)       0.30       < 0.30         Total Toxic Representation       ESSENTIAL AND OTHER ELEMENTS       PERCENTUL         Result T       usig       REFCRENCE       2.5°       16°       97.5°         Calcium       (Ca)       176       200-       750       900         Sodium       (Na)       140       20-       180         Potassium       (K)       310       9-       80         Copper       (Cu)       11       11-       30         Zine       (Zn       100       130-       200         Manganese       (Mn)       0.25       0.40-       0.70         Vanadium       (V)       0.11       0.018-       0.065         Boron       (B)       1.8       0.40-       3.0       0.025-       0.20         Stornium       (Sr)       0.28       0.30-       3.5       0.50       0.60       0.70-       1.2         Belen   | Thallium                   | (TI)     | 0.001   | < 0.002     | •                                  |                   |                                     |  |
| Nickel         (N)         0.23         <         0.20           Silver         (Ag)         0.25         <  | Thorium                    | (Th)     | < 0.001 | < 0.002     |                                    |                   |                                     |  |
| Silver         (Aq)         0.25         <         0.00           Tin         (Sn)         0.30         <  | Uranium                    | (U)      | 0.009   | < 0.060     |                                    |                   |                                     |  |
| Tin         (Sn)         0.30         <         0.30           Titanium         (Ti)         0.18         <  | Nickel                     | (Ni)     | 0.23    | < 0.20      |                                    | -                 |                                     |  |
| Titanium       (Ti)       0.18       < 0.60         Total Toxic Representation         ESSENTIAL AND OTHER ELEMENTS         RESULT       REFUL REFERENCE         ug/g       INTERVAL       2.5°       16°       97.5°         Calcium       (Ca)       176       200 -       750         Magnesium       (Mg)       10       25 -       75         Sodium       (Na)       140       20 -       180         Copper       (Cu)       11       11 -       30         Copper       (Cu)       11       11 -       30         Manganese       (Mn)       0.25       0.08 -       0.50         Chromium       (Cr)       0.52       0.40 -       0.70         Wanadium       (V)       0.11       0.018 -       0.060         Boron       (B)       1.8       0.40 -       3.0         Odine       (I)       0.015       0.020       -         Boron       (B)       1.8       0.40 -       3.0         Stortium       (Sr)       0.28       0.30       3.5       -         Boron       (B)       1.8       0.40 -  | Silver                     | (Ag)     | 0.25    | < 0.08      |                                    |                   |                                     |  |
| Titanium       (Ti)       0.18       < 0.60  | Tin                        |          |         | < 0.30      |                                    |                   |                                     |  |
| ESSENTIAL AND OTHER ELEMENTS           RESULT<br>µd/g         REFERENCE<br>NTERVAL         PERCENTILE<br>2.5 <sup>th</sup> 16 <sup>th</sup> 60 <sup>th</sup> Percentile<br>84 <sup>th</sup> 97.5 <sup>th</sup> Calcium         (Ca)         176         200 - 750  | Titanium                   | (Ti)     | 0.18    | < 0.60      | —                                  |                   |                                     |  |
| ESSENTIAL AND OTHER ELEMENTS           RESULT<br>µd/g         REFERENCE<br>NTERVAL         PERCENTILE<br>2.5 <sup>th</sup> 16 <sup>th</sup> 60 <sup>th</sup> Percentile<br>84 <sup>th</sup> 97.5 <sup>th</sup> Calcium         (Ca)         176         200 - 750  | Total Toxic Representation |          |         |             |                                    |                   |                                     |  |
| RESULT<br>Jug/g         REFERENCE<br>INTERVAL<br>INTERVAL         PERCENTLE<br>2.5 <sup>th</sup> PERCENTLE<br>50 <sup>th</sup> PERCENTLE<br>2.5 <sup>th</sup> PERCENTLE<br>50 <sup>th</sup> Calcium         (Ca)         176         200 - 750         20 <sup>th</sup> 5 <sup>th</sup>  |                            |          |         |             |                                    |                   |                                     |  |
| jug/g         INTERVAL         2.6 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup> Calcium         (Ma)         10         25-75   |                            |          |         |             |                                    | PERCENTILE        |                                     |  |
| Calcium       (Ca)       176       200 - 750         Magnesium       (Mg)       10       25 - 75         Magnesium       (Na)       140       20 - 180         Potassium       (K)       310       9 - 80         Copper       (Cu)       11       11 - 30         Zinc       (Zn)       100       130 - 200         Magnese       (Mn)       0.25       0.08 - 0.50         Chromium       (Cr)       0.52       0.40 - 0.70         Wangalum       (V)       0.11       0.018 - 0.065         Boron       (B)       1.8       0.40 - 3.0         Iodine       (I)       1.7       0.25 - 1.8         Lithium       (Li)       0.015       0.007 - 0.020         Phosphorus       (P)       180       150 - 220         Stelenium       (Se)       0.60       0.70 - 1.2         Stuffur       (S)       48400       4400 - 50000         Cobalt       (Co)       0.006       0.004 - 0.020         Iron       (Fe)       37       7.0 - 16       ELEMENTS         Rubidium       (Rb)       0.48       0.011 - 0.12       ELEMENTS         Rubidium       (Rb)   |                            |          |         |             | 2.5 <sup>th</sup> 16 <sup>th</sup> | 50 <sup>th</sup>  | 84 <sup>th</sup> 97.5 <sup>th</sup> |  |
| Magnesium       (Mg)       10       25-       75         Sodium       (Na)       140       20-       180         Potassium       (K)       310       9-       80         Copper       (Cu)       11       11-       30         Zinc       (Zn)       100       130-       200         Magnese       (Mn)       0.25       0.08-       0.50         Chromium       (Cr)       0.52       0.40-       0.70         Vanadium       (V)       0.11       0.018-       0.065         Molybdenum       (Mo)       0.043       0.025-       0.60         Boron       (B)       1.8       0.40-       3.0         Ithium       (Li)       0.015       0.007-       0.20         Phosphorus       (P)       180       150-       220         Strontium       (Sr)       0.28       0.30-       3.5         Sulfur       (S)       48400       44000-       5000         Cobalt       (Co)       0.034       0.030-       0.40         Ratioum       (Rb)       0.48       0.011-       0.12         Codered       0.034       0.030-       0.   | Calcium                    | (Ca)     |         |             |                                    |                   |                                     |  |
| Sodium         (Na)         140         20-         180           Potassium         (K)         310         9-         80           Copper         (Cu)         11         11-         30           Zinc         (Zn)         100         130-         200           Manganese         (Mn)         0.255         0.08-         0.50           Chromium         (Cr)         0.52         0.40-         0.70           Wanadium         (V)         0.11         0.018-         0.665           Molybdenum         (Mo)         0.043         0.025-         0.60           Boron         (B)         1.8         0.40-         3.0           Iodine         (I)         1.7         0.25-         1.8           Lithium         (Li)         0.015         0.007-         0.20           Phosphorus         (P)         180         150-         220           Strontium         (Sr)         0.28         0.30-         3.5           Sulfur         (S)         48400         44000-         5000           Cobalt         (Co)         0.034         0.030-         0.40           Remaium         (Rb) <td< td=""><td></td><td></td><th>-</th><td></td><td></td><td></td><td></td></td<>  |                            |          | -       |             |                                    |                   |                                     |  |
| Potassium         (K)         310         9-         80           Copper         (Cu)         11         11-         30           Zinc         (Zn)         100         130-         200           Manganese         (Mn)         0.25         0.08-         0.50           Chromium         (Cr)         0.52         0.40-         0.70           Vanadium         (V)         0.11         0.018-         0.065           Molybdenum         (Mo)         0.043         0.025-         0.80           Boron         (B)         1.8         0.40-         3.0           Iodine         (I)         1.7         0.25-         1.8           Lithium         (Li)         0.015         0.007-         0.20           Phosphorus         (P)         180         150-         220           Strontium         (Se)         0.60         0.70-         1.2           Strontium         (Sr)         0.28         0.30-         3.5           Sulfur         (S)         48400         44000-         5000           Cobalt         (Co)         0.034         0.030-         0.40           Rubidium         (Rb)  | M                          | , ,      |         |             |                                    |                   |                                     |  |
| Copper         (Cu)         11         11-         30           Zinc         (Zn)         100         130-         200           Manganese         (Mn)         0.25         0.08-         0.50           Chromium         (Cr)         0.52         0.40-         0.70           Vanadium         (V)         0.11         0.018-         0.065           Molybdenum         (Mo)         0.043         0.025-         0.060           Boron         (B)         1.8         0.40-         3.0           Iodine         (I)         1.7         0.25-         1.8           Vanadium         (Y)         0.015         0.007-         0.20           Phosphorus         (P)         180         150-         220           Stontium         (Sr)         0.28         0.30-         3.5           Sulfur         (S)         48400         44000-         5000           Cobalt         (Co)         0.006         0.03-         0.20           Iron         (Fe)         37         7.0-         16           Germanium         (Ge)         0.48         0.01-         0.12           Zirconium         (Zr)  |                            | · · ·    |         |             |                                    |                   |                                     |  |
| Zinc       (Zn)       100       130-200         Manganese       (Mn)       0.25       0.08-0.50         Chromium       (Cr)       0.52       0.40-0.70         Wanadium       (V)       0.11       0.018-0.065         Molybdenum       (Mo)       0.043       0.025-0.060         Boron       (B)       1.8       0.40-3.0         Iodine       (I)       1.7       0.25-1.8         Lithium       (Li)       0.015       0.007-0.020         Phosphorus       (P)       180       150-220         Selenium       (Se)       0.60       0.70-1.2         Strontium       (Sr)       0.28       0.30-3.5         Sulfur       (S)       48400       44000-50000         Cobalt       (Co)       0.006       0.040-0.020         Iron       (Fe)       37       7.0-16         Germanium       (Ge)       0.034       0.030-0.040         Rubidium       (Rb)       0.48       0.011-0.12         Zirconium       (Zr)       0.18       0.020-0.44         SPECIMEN DATA       RATIOS       Ca/Mg         CoMMENTS:       Sample Size: 0.2 g       Na/K       0.452   |                            |          |         |             |                                    |                   |                                     |  |
| Manganese         (Mn)         0.25         0.08-0.50           Chromium         (Cr)         0.52         0.40-0.70           Vanadium         (V)         0.11         0.018-0.065           Molybdenum         (Mo)         0.043         0.025-0.060           Boron         (B)         1.8         0.40-3.0           Iodine         (I)         1.7         0.25-1.8           Lithium         (Li)         0.015         0.007-0.020           Phosphorus         (P)         180         150-220         •           Stentium         (Se)         0.60         0.70-1.2         •           Strontium         (Sr)         0.28         0.30-3.5         •         •           Sulfur         (S)         48400         44000-50000         •         •           Cobalt         (Co)         0.034         0.004-0.020         •         •           Rubidium         (Rb)         0.48         0.011-0.12         •         •           Zirconium         (Zr)         0.18         0.020-0.44         •         •           Date Received:         3/20/2012         Sample Type: Head         Na/K         0.452         0.5-10  |                            |          |         |             | <b></b>                            |                   |                                     |  |
| Chromium         (Cr)         0.52         0.40-0.70           Vanadium         (V)         0.11         0.018-0.065           Molybdenum         (Mo)         0.043         0.025-0.060           Boron         (B)         1.8         0.40-3.0           Iodine         (I)         1.7         0.25-1.8           Lithium         (Li)         0.015         0.007-0.020           Phosphorus         (P)         180         150-220           Strontium         (Sr)         0.28         0.30-3.5           Sulfur         (S)         48400         4400-5000           Cobalt         (Co)         0.034         0.030-0.040           Rubidium         (Rb)         0.48         0.011-0.12           Zirconium         (Zr)         0.18         0.020-0.44           SpeciMen DATA         RATIOS         RATIOS           COMMENTS:         Sample Size: 0.2 g         Na/K         0.452         0.5-10           Date Collected:         3/20/2012         Sample Type: Head         Na/K         0.452         0.5-10           Date Received:         4/13/2012         Hair Color: Brown         Treatment:         Zn/Cu         999         800  |                            |          |         |             |                                    |                   |                                     |  |
| Vanadium         (V)         0.11         0.018-0.065           Molybdenum         (Mo)         0.043         0.025-0.060           Boron         (B)         1.8         0.40-3.0           Iodine         (I)         1.7         0.25-1.8           Lithium         (Li)         0.015         0.007-0.020           Phosphorus         (P)         180         150-220           Selenium         (Se)         0.60         0.70-1.2           Strontium         (Sr)         0.28         0.30-3.5           Sulfur         (S)         48400         44000-50000           Cobalt         (Co)         0.006         0.004-0.020           Iron         (Fe)         37         7.0-16         Column           Germanium         (Ge)         0.034         0.030-0.040         Column           Rubidium         (Rb)         0.48         0.011-0.12         Column         Ratios           Date Received:         3/20/2012         Sample Size: 0.2 g         Ca/P         0.978         0.8-8           Date Collected:         3/20/2012         Sample Type: Head         Na/K         0.452         0.5-10           Date Completed:         4/13/2012         Hai   |                            |          |         |             |                                    | -                 |                                     |  |
| Molybdenum         (Mo)         0.043         0.025-0.060           Boron         (B)         1.8         0.40-3.0           Iodine         (I)         1.7         0.25-1.8           Lithium         (Li)         0.015         0.007-0.020           Phosphorus         (P)         180         150-220           Stontium         (Se)         0.60         0.70-1.2           Strontium         (Sr)         0.28         0.30-3.5           Sulfur         (S)         48400         4400-5000           Cobalt         (Co)         0.006         0.04-0.020           Iron         (Fe)         37         7.0-16           Germanium         (Ge)         0.034         0.030-0.040         Column           Rubidium         (Rb)         0.48         0.011-0.12         Column         Column         Ratios         RAnce           Date Collected:         3/20/2012         Sample Size: 0.2 g         Na/K         0.452         0.5-10           Date Completed:         4/13/2012         Hair Color: Brown         Na/K         0.452         0.5-10           Zn/Cu         9.09         3800  |                            |          |         |             |                                    |                   |                                     |  |
| Boron         (B)         1.8         0.40-3.0           Iodine         (I)         1.7         0.25-1.8           Lithium         (Li)         0.015         0.007-0.020           Phosphorus         (P)         180         150-220           Selenium         (Se)         0.60         0.70-1.2           Strontium         (Sr)         0.28         0.30-3.5           Sulfur         (S)         48400         44000-50000           Cobalt         (Co)         0.006         0.004-0.020           Iron         (Fe)         37         7.0-16           Germanium         (Ge)         0.034         0.030-0.040           Rubidium         (Rb)         0.48         0.011-0.12           Zirconium         (Zr)         0.18         0.020-0.44           SPECIMEN DATA         RATIOS         RANGE           COMMENTS:         Sample Size: 0.2 g         Aartios         RANGE           Date Collected: 3/20/2012         Sample Size: 0.2 g         Ma/K         0.452         0.5-10           Date Completed: 4/13/2012         Hair Color: Brown         Ma/K         0.452         0.5-10           Zn/Cu         9.09         3.80  |                            |          |         |             |                                    | -                 |                                     |  |
| Indiana       Image: Constraint of the second  |                            |          |         |             |                                    |                   |                                     |  |
| Lithium         (Li)         0.015         0.007-0.020           Phosphorus         (P)         180         150-220           Selenium         (Se)         0.60         0.70-1.2           Strontium         (Sr)         0.28         0.30-3.5           Sulfur         (S)         48400         44000-50000           Cobalt         (Co)         0.006         0.004-0.020           Iron         (Fe)         37         7.0-16           Germanium         (Ge)         0.034         0.030-0.040           Rubidium         (Rb)         0.48         0.011-0.12           Zirconium         (Zr)         0.18         0.020-0.44           SPECIMEN DATA         RATIOS         RANGE           COMMENTS:         RATIOS         RANGE           Date Collected:         3/20/2012         Sample Size: 0.2 g         Na/K         0.452         0.5-10           Date Collected:         4/13/2012         Hair Color: Brown         Treatment:         Zn/Cu         9.09         4-20           Methodology: ICP/MS         Treatment:         Zn/Cd         999         > 800   |                            |          | _       |             |                                    |                   |                                     |  |
| Phosphorus         (P)         180         150-220           Selenium         (Se)         0.60         0.70-1.2           Strontium         (Sr)         0.28         0.30-3.5           Sulfur         (S)         48400         44000-50000           Cobalt         (Co)         0.006         0.004-0.020           Iron         (Fe)         37         7.0-16           Germanium         (Ge)         0.034         0.030-0.040           Rubidium         (Rb)         0.48         0.011-0.12           Zirconium         Zr)         0.18         0.020-0.44           SPECIMEN DATA         RATIOS         RAMGE           COMMENTS:         Sample Size: 0.2 g         Arrols         RATIOS         RANGE           Date Collected:         3/20/2012         Sample Size: 0.2 g         Arrols         RATIOS         RANGE           Date Collected:         3/20/2012         Sample Size: 0.2 g         Arrols         RATIOS         RANGE           Date Conjected:         4/7/2012         Sample Type: Head         Na/K         0.452         0.5- 10           Date Completed:         4/13/2012         Hair Color: Brown         Zn/Cu         999         > 800  |                            |          |         |             |                                    |                   |                                     |  |
| Selenium         (Se)         0.60         0.70-         1.2           Strontium         (Sr)         0.28         0.30-         3.5           Sulfur         (S)         48400         44000-         50000           Cobalt         (Co)         0.006         0.004-         0.020           Iron         (Fe)         37         7.0-         16           Germanium         (Ge)         0.034         0.030-         0.040           Rubidium         (Rb)         0.48         0.011-         0.12           Zirconium         (Zr)         0.18         0.020-         0.44           SPECIMEN DATA         ELEMENTS         RATIOS         RANGE           Comment:         Sample Size:         0.2 g         Ca/Mg         17.6         4-         30           Date Collected:         3/20/2012         Sample Size:         0.2 g         Ca/Mg         17.6         4-         30           Date Completed:         4/13/2012         Hair Color:         Brown         Zn/Cu         9.09         4-         20           Methodology:         ICP/Ms         Treatment:         Zn/Cd         999         800   |                            |          |         |             |                                    | •                 |                                     |  |
| Strontium         (Sr)         0.28         0.30-3.5         Image: Constraint of the stress of t  |                            | (2.)     |         |             |                                    |                   |                                     |  |
| Sulfur         (S)         48400         44000-50000           Cobalt         (Co)         0.006         0.004-0.020         Image: Component of the system  |                            |          |         |             | _                                  |                   | •••••                               |  |
| Cobalt         (Co)         0.006         0.004-0.020           Iron         (Fe)         37         7.0-16           Germanium         (Ge)         0.034         0.030-0.040           Rubidium         (Rb)         0.48         0.011-0.12           Zirconium         (Zr)         0.18         0.020-0.44           SPECIMEN DATA         RATIOS         RANGE           COMMENTS:         ELEMENTS         RATIOS         RANGE           Date Collected: 3/20/2012         Sample Size: 0.2 g         Ca/P         0.978         0.8-8           Date Collected: 4/13/2012         Hair Color: Brown         Xa/K         0.452         0.5-10           Date Completed: 4/13/2012         Hair Color: Brown         Zn/Cd< > 999         > 800  |                            |          |         |             |                                    |                   |                                     |  |
| Iron         (Fe)         37         7.0-         16           Germanium         (Ge)         0.034         0.030-         0.040           Rubidium         (Rb)         0.48         0.011-         0.12           Zirconium         (Zr)         0.18         0.020-         0.44           SPECIMEN DATA         RATIOS         RANGE           COMMENTS:         ELEMENTS         RATIOS         RANGE           Date Collected:         3/20/2012         Sample Size:         0.2 g         Ca/Mg         17.6         4-30           Date Collected:         3/20/2012         Sample Size:         0.2 g         Ca/Mg         17.6         4-30           Date Collected:         3/20/2012         Sample Type:         Head         Na/K         0.452         0.5-10           Date Completed:         4/13/2012         Hair Color:         Brown         Zn/Cu         9.09         4-20           Methodology:         ICP/Ms         Treatment:         Zn/Cd         > 999         > 800  |                            |          |         |             |                                    |                   | •••••                               |  |
| Germanium         (Ge)         0.034         0.030-0.040           Rubidium         (Rb)         0.48         0.011-0.12           Zirconium         (Zr)         0.18         0.020-0.44           SPECIMEN DATA         RATIOS         RANGE           COMMENTS:         ELEMENTS         RATIOS         RANGE           Date Collected:         3/20/2012         Sample Size: 0.2 g         Ca/Mg         17.6         4-30           Date Collected:         4/7/2012         Sample Type: Head         Na/K         0.452         0.5-10           Date Completed:         4/13/2012         Hair Color: Brown         Zn/Cd         999         > 800   |                            |          |         |             |                                    |                   |                                     |  |
| Rubidium         (Rb)         0.48         0.011-         0.12           Zirconium         (Zr)         0.18         0.020-         0.44           SPECIMEN DATA         RATIOS         RANGE           COMMENTS:         ELEMENTS         RATIOS         RANGE           Date Collected:         3/20/2012         Sample Size:         0.2 g         Ca/Mg         17.6         4-30           Date Collected:         4/7/2012         Sample Type:         Head         Na/K         0.452         0.5-10           Date Completed:         4/13/2012         Hair Color:         Brown         Zn/Cu         9.09         4-20           Methodology:         ICP/MS         Treatment:         Zn/Cd         > 999         > 800   |                            | <i>i</i> |         |             |                                    | -                 |                                     |  |
| Zirconium         (Zr)         0.18         0.020-0.44         RATIOS           SPECIMEN DATA           COMMENTS:           Date Collected: 3/20/2012         Sample Size: 0.2 g         Ca/Mg         17.6         4-30           Date Received: 4/7/2012         Sample Type: Head         Na/K         0.452         0.5-10           Date Completed: 4/13/2012         Hair Color: Brown         Zn/Cu         9.09         4-20           Methodology: ICP/MS         Treatment:         Zn/Cd         > 999         > 800  |                            |          |         |             |                                    |                   |                                     |  |
| SPECIMEN DATARATIOSCOMMENTS:ELEMENTSRANGEDate Collected: 3/20/2012Sample Size: 0.2 gCa/Mg17.6Date Collected: 4/7/2012Sample Type: HeadNa/K0.4520.5-10Date Completed: 4/13/2012Hair Color: BrownZn/Cu9.094-20Methodology: ICP/MsTreatment:Zn/Cd> 999> 800   |                            |          |         |             |                                    |                   |                                     |  |
| ELEMENTS:         ELEMENTS         RATIOS         RANGE           Date Collected: 3/20/2012         Sample Size: 0.2 g         Ca/Mg         17.6         4-30           Date Collected: 4/7/2012         Sample Type: Head         Ca/P         0.978         0.8-8           Date Completed: 4/13/2012         Hair Color: Brown         Zn/Cu         9.09         4-20           Methodology: ICP/MS         Treatment:         Zn/Cd         > 999         > 800  |                            | * *      |         | 0.020- 0.44 |                                    |                   |                                     |  |
| Ca/Mg         17.6         4-30           Date Collected: 3/20/2012         Sample Size: 0.2 g         Ca/P         0.978         0.8-8           Date Received: 4/7/2012         Sample Type: Head         Na/K         0.452         0.5-10           Date Completed: 4/13/2012         Hair Color: Brown         Zn/Cu         9.09         4-20           Methodology: ICP/MS         Treatment:         Zn/Cd         > 999         > 800   |                            |          |         |             |                                    | -                 | 1                                   |  |
| Date Collected: 3/20/2012         Sample Size: 0.2 g         Ca/P         0.978         0.8-8           Date Received: 4/7/2012         Sample Type: Head         Na/K         0.452         0.5-10           Date Completed: 4/13/2012         Hair Color: Brown         Zn/Cu         9.09         4-20           Methodology: ICP/MS         Treatment:         Zn/Cd         > 999         > 800   | COMMENTS:                  |          |         |             |                                    |                   |                                     |  |
| Date Received: 4/7/2012Sample Type: HeadNa/K0.4520.5-10Date Completed: 4/13/2012Hair Color: BrownZn/Cu9.094-20Methodology: ICP/MsTreatment:Zn/Cd> 999> 800   |                            |          |         |             | 0                                  |                   |                                     |  |
| Date Completed:4/13/2012Hair Color:BrownZn/Cu9.094-20Methodology:ICP/MsTreatment:Zn/Cd> 999> 800   |                            |          | •       |             |                                    |                   |                                     |  |
| Methodology: ICP/MsTreatment:Zn/Cd> 999> 800   |                            |          |         |             |                                    |                   |                                     |  |
|  |                            |          |         |             |                                    |                   |                                     |  |
|  | Methodology: ICP/MS        |          |         |             | Zn/Cd                              | > 999             | > 800                               |  |

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Shampoo: Natures Gate

## Health history for hair test 625

- 1. What are your current symptoms and health history?
  - Overall health was good until 15 years ago. From that time, steady degradation in neurological / cognitive / emotional / memory (forgot to write that). This year energy is declining.
- 2. Dental history (Wisdom teeth removed and when? Any other extractions. First root canal placed? Braces? First amalgam etc...)
  - Many cavities as a child. At least 4 "big" amalgam fillings on molars. All done before age 10.
     Braces as a teenager (metal type). All wisdom teeth out around age 20. One impacted, infected with abscess (twice).
- 3. What dental work do you currently have in place? What part of the dental clean-up have you completed?
  - All completed. Cavities filled with composite, amalgams removed and replaced with zirconium onlays. No other dental work in place.
- 4. What dentistry did your mother have at any time before or during pregnancy?
  - Unknown. Likely had amalgam fillings before.
- 5. What vaccinations have you had and when (including flu and especially travel shots)?
  - Have had many flu shots, anthrax, typhoid. US military vaccinations (don't remember them all) plus "standard" vaccinations for kids in the 1970s / 1980s. My parents would have given me what the world said was ok. They were very mainstream.
- 6. Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken?
  - $\circ \quad \text{No medicines.}$
  - Supplements multivitamins like Centrum 1x per day, Lecithin 1g per day, Co12 liquid, probiotics. Did not start serious supplementation until after the hair test.
- 7. What is your age, height and weight?
  - $\circ$   $\,$  39 yo, 6', 190 lbs  $\,$

## 8. Other information you feel may be relevant?

- Was in the US military overseas exposed to who knows what (1991-1996)
- Worked as a government contractor and crawled through the ceilings of many buildings, exposed to who knows what. (1997-1998)
- o In the month prior to hair test did bowel, liver and kidney cleanses. Lost 25 lbs.
- At the same time eliminated most toxins from diet. Switched to whole, natural foods. Reduced / eliminated meats and switched to fish. Changed soap, toothpaste, shampoo.
- Do not smoke. Drink moderately.
- Used to exercise, but now exercise results in being wiped out the rest of the day.
- Own both Andy's books AI and HTI.
- Have a supply of DMSA
- Currently on day 3 of first round of chelation (DMSA only 25 mg)
- 9. What is your location city & country (so that we can learn where certain toxins are more prevalent).
  - Quezon City, Philippines since 2005. Before that lived in South Korea from 1993-2005.