



**FUNCTIONAL BLOOD CHEMISTRY ANALYSIS**

Name: SARALYNN R. Date of test: 1/24/2011 Medications taken: Oral BIRTH CONTROL

| FUNCTIONAL RANGE      |                                | RESULTS    | COMMENTS                   |
|-----------------------|--------------------------------|------------|----------------------------|
| <b>Glucose</b>        | <b>85-100mg/dL</b>             | 76 Low     | Low Blood Sugar Swings     |
| <b>Cholesterol</b>    | <b>150-200 mg/dL</b>           | 159        |                            |
| <b>Triglycerides</b>  | <b>75-100 mg/dL</b>            | 253 High   | Eating too many carbs      |
| <b>LDL</b>            | <b>&lt; 120 mg/dL</b>          | 56         |                            |
| <b>HDL</b>            | <b>&gt; 55 mg/dL</b>           | 52 Low     | Need more good fats        |
| <b>Chol/HDL Ratio</b> | <b>&lt; 3.1</b>                | 3.1 Border |                            |
| <b>Iron</b>           | <b>85-130 ug/dL</b>            | 130 Border |                            |
| <b>TIBC</b>           | <b>250-350 ug/dL</b>           | N/A        |                            |
| <b>Ferritin</b>       | <b>(F premenopause)</b>        | N/A        |                            |
| <b>10-122</b>         | <b>(F postmenopause)</b>       |            |                            |
| <b>10-263</b>         | <b>(M) 33-263 ng/ml</b>        |            |                            |
| <b>Transferrin</b>    | <b>20-35%</b>                  | N/A        |                            |
| <b>Hgb</b>            | <b>(F) 13.5-14.5 (M) 14-15</b> | 13.4 Low   | Circulation issues/O2 need |
| <b>Hct</b>            | <b>(F) 37-44 (M) 40-48</b>     | 40         |                            |
| <b>RBC</b>            | <b>(F) 3.9-4.5 (M) 4.2-4.9</b> | 4.33       |                            |
| <b>MCV</b>            | <b>85-92 microns</b>           | 92 Border  |                            |
| <b>MCH</b>            | <b>27-32 microns</b>           | 30.9       |                            |
| <b>MCHC</b>           | <b>32-35%</b>                  | 33.5       |                            |
| <b>RDW</b>            | <b>&lt; 13</b>                 | 13.4 High  |                            |
| <b>Platelets</b>      | <b>150,000-450,000</b>         | 321,000    |                            |

| <b>FUNCTIONAL RANGE</b> |                         | <b>RESULTS</b>  | <b>COMMENTS</b>               |
|-------------------------|-------------------------|-----------------|-------------------------------|
| <b>WBC</b>              | <b>5.0-8.0</b>          | 7.8             |                               |
| <b>Neutrophils</b>      | <b>40-60%</b>           | 38% Low         | Immune challenge?             |
| <b>Lymphocytes</b>      | <b>25-40%</b>           | 47% High        |                               |
| <b>Monocytes</b>        | <b>&lt; 7%</b>          | 7 Border        |                               |
| <b>Eosinophils</b>      | <b>&lt; 3%</b>          | 7% High         |                               |
| <b>Basophils</b>        | <b>0-1%</b>             | 1% Border       |                               |
| <b>TSH</b>              | <b>1.8-3.0 mIU/L</b>    | 4.830 High      | Underactive/Sluggish function |
| <b>T4</b>               | <b>6-12 mg/d</b>        | 8.9             |                               |
| <b>T3 Uptake</b>        | <b>28-38 mg/dL</b>      | 22 Low          | Conversion issue              |
| <b>FTI</b>              | <b>6-11 index units</b> | 2.0? (not I.U.) |                               |
| <b>SGOT (AST)</b>       | <b>10-26 U/L</b>        | 26 Border       | Stagnation in liver           |
| <b>SGPT (ALT)</b>       | <b>10-26 U/L</b>        | 26 Border       |                               |
| <b>GGTP</b>             | <b>10-26 U/L</b>        | 42 High         | Toxic burden to liver         |
| <b>LDH</b>              | <b>140-180 U/L</b>      | 135 Low         | Blood sugar issues            |
| <b>Alk. Phos.</b>       | <b>70-90 U/L</b>        | 46 Low          |                               |
| <b>Total Bilirubin</b>  | <b>0.2-1.2 mg/dL</b>    | 0.2 Border      |                               |
| <b>Total Protein</b>    | <b>6.8-7.4 G/dL</b>     | 6.8 Border      | Digestion needs improving     |
| <b>Albumin</b>          | <b>4.0-5.0 G/dL</b>     | 4.1             |                               |
| <b>Globulin</b>         | <b>2.4-2.8 G/100mL</b>  | 2.7             |                               |
| <b>A/G Ratio</b>        | <b>1.5-2.0 units</b>    | 1.5 Border      |                               |
| <b>Sodium</b>           | <b>135-140 mmol/L</b>   | 137             | Electrolyte Balance           |
| <b>Potassium</b>        | <b>4.0-4.5 mmol/L</b>   | 4.4             |                               |
| <b>Chloride</b>         | <b>100-106 mmol/L</b>   | 100 Border      |                               |
| <b>Carbon Dioxide</b>   | <b>25-30 mmol/L</b>     | 25 Border       |                               |
| <b>Anion Gap</b>        | <b>7-12 mmol/L</b>      | 16.4 High       |                               |
| <b>BUN</b>              | <b>13-18 mg/dL</b>      | 14              |                               |
| <b>Creatinine</b>       | <b>0.7-1.1 mg/dL</b>    | 0.88            |                               |
| <b>Calcium</b>          | <b>9.2-10.1 mg/dL</b>   | 9.2 Border      | Skeletal Health               |

| <b>FUNCTIONAL RANGE</b> |  | <b>RESULTS</b> | <b>COMMENTS</b> |
|-------------------------|--|----------------|-----------------|
| <b>Magnesium</b>        | <b>2.0-2.5 mg/dL</b>                                 | N/A            |                 |
| <b>Phosphorus</b>       | <b>3.5-4.0 mg/dL</b>                                 | 3.8            |                 |
| <b>Uric Acid</b>        | <b>(M) 3.7-6.0 mg/dL</b><br><b>(F) 3.2-5.5 mg/dL</b> | 3.9            |                 |