

| Patient Information  | Specimen Information   | Client Information  |
|--|--|---|
| <b>LEFKOWITZ, CINDY</b><br><br><b>DOB: 04/03/1955    AGE: 55</b><br>Gender: F<br>Phone: 610.446.7186<br>Patient ID: 04031955CF | Specimen: NE435269Q<br>Requisition: 0001318<br><br>Collected: 10/27/2010 / 08:01 EDT<br>Received: 10/28/2010 / 00:42 EDT<br>Reported: 11/08/2010 / 07:44 EST | Client #: 19462060    HO18<br>CHEIKIN, MICHAEL<br>OPTIMAL HEALTH<br>Attn: WYNDMOOR REHAB<br>832 GERMANTOWN PIKE<br>PLYMOUTH MEETING, PA<br>19462-2442 |

| Test Name   | In Range | Out Of Range | Reference Range              | Lab |
|---|----------|--------------|------------------------------|-----|
| VITAMIN D, 25-HYDROXY, LC/MS/MS   |          |              |                              | QTE |
| VITAMIN D, 25 OH, TOTAL   | 81       |              | 30-100 ng/mL                 |     |
| VITAMIN D, 25 OH, D3  | 81       |              | ng/mL                        |     |
| VITAMIN D, 25 OH, D2  | <4       |              | ng/mL                        |     |
| 25-OHD3 indicates both endogenous production and supplementation. 25-OHD2 is an indicator of exogenous sources such as diet or supplementation. Therapy is based on measurement of Total 25-OHD, with levels <20 ng/mL indicative of Vitamin D deficiency, while levels between 20 ng/mL and 30 ng/mL suggest insufficiency. Optimal levels are > or = 30 ng/mL.      |          |              |                              |     |
| MAGNESIUM, RBC  | 4.1      |              | 4.0-6.4 mg/dL                | AMD |
| VITAMIN A   | 54       |              | 38-98 mcg/dL                 | AMD |
| * VITAMIN B5 PANTOTHENIC ACID   | 422      |              | ng/mL                        | CBR |
| Adult<br>Normal: 200-1800<br>Low: <200<br>High: >1800   |          |              |                              |     |
| The performance characteristics of the listed assay were validated by Cambridge Biomedical Inc. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval. Cambridge Biomedical Inc. is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one. |          |              |                              |     |
| SELENIUM, RBC   |          |              |                              | EY  |
| <b>Endnote 1</b>  |          |              |                              |     |
| <b>VITAMIN B6</b>   |          | <b>72 H</b>  | ng/mL                        | EZ  |
|   |          |              | Reference Range:<br>2.1-21.7 |     |
| Conversion Factor: Nanograms/mL x 4.046 = nanomoles/L   |          |              |                              |     |
| ZINC, RBC   | 11.3     |              | mg/L                         | EZ  |
|   |          |              | Reference Range:<br>9.0-14.7 |     |
| Sample was received in inappropriate tube. Result may be falsely elevated. Please submit future specimens in trace element collection tubes (e.g. BD6528 or BD36-9736 Royal Blue Top Tube with EDTA).   |          |              |                              |     |
| CORTISOL, FREE AND TOTAL, LC/MS/MS  |          |              |                              | EZ  |
| CORTISOL, TOTAL, LC/MS/MS   | 13.0     |              | mcg/dL                       |     |
| Adult Reference Ranges for Cortisol, Total, LC/MS/MS:   |          |              |                              |     |



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| Test Name         | In Range | Out Of Range    | Reference Range | Lab |
|-------------------|----------|-----------------|-----------------|-----|
| Males and Females | 8-10 AM  | 4.6-20.6 mcg/dL |                 |     |
|                   | 4-6 PM   | 1.8-13.6 mcg/dL |                 |     |

Cortisol Response to ACTH

Adult Males and Females

Peak >20.0 mcg/dL

Peak >16.0 mcg/dL after IM injection

Please note reference range change effective 08/18/08.

|                          |      |        |
|--------------------------|------|--------|
| CORTISOL, FREE, LC/MS/MS | 0.30 | mcg/dL |
|--------------------------|------|--------|

Adult Reference Ranges for Cortisol, Free, LC/MS/MS:

8:00 - 10:00 AM      0.07-0.93 mcg/dL

4:00 - 6:00 PM      0.04-0.45 mcg/dL

10:00 - 11:00 PM    0.04-0.35 mcg/dL

CBC (INCLUDES DIFF/PLT)

QHO

|                        |      |                      |
|------------------------|------|----------------------|
| WHITE BLOOD CELL COUNT | 4.2  | 3.8-10.8 Thousand/uL |
| RED BLOOD CELL COUNT   | 3.98 | 3.80-5.10 Million/uL |
| HEMOGLOBIN             | 12.5 | 11.7-15.5 g/dL       |
| HEMATOCRIT             | 37.1 | 35.0-45.0 %          |
| MCV                    | 93.2 | 80.0-100.0 fL        |
| MCH                    | 31.4 | 27.0-33.0 pg         |
| MCHC                   | 33.7 | 32.0-36.0 g/dL       |
| RDW                    | 13.4 | 11.0-15.0 %          |
| PLATELET COUNT         | 184  | 140-400 Thousand/uL  |
| ABSOLUTE NEUTROPHILS   | 2226 | 1500-7800 cells/uL   |
| ABSOLUTE LYMPHOCYTES   | 1520 | 850-3900 cells/uL    |
| ABSOLUTE MONOCYTES     | 244  | 200-950 cells/uL     |
| ABSOLUTE EOSINOPHILS   | 189  | 15-500 cells/uL      |
| ABSOLUTE BASOPHILS     | 21   | 0-200 cells/uL       |
| NEUTROPHILS            | 53.0 | %                    |
| LYMPHOCYTES            | 36.2 | %                    |
| MONOCYTES              | 5.8  | %                    |
| EOSINOPHILS            | 4.5  | %                    |
| BASOPHILS              | 0.5  | %                    |

**Endnote 1** \*\*\*\*\*  
 \* Test not performed. \*  
 \* No suitable specimen received. \*  
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**PERFORMING SITE:**

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