



Final Report Date: 04-05-2016 16:06

Specimen Collected: 03-01-2016

Accession ID: 1603020057

Specimen Received: 03-02-2016 11:15

Last Name	First Name	Middle Name	Date of Birth	Gender	Physician ID
[REDACTED]	[REDACTED]		1977-07-29	Male	2096

### Comprehensive Metabolic Panel

Electrolytes	Current	Reference Range	Previous
Sodium (mmol/L)	139	136~145	
Potassium (mmol/L)	4.2	3.5~5.1	
Chloride (mmol/L)	98	98~107	
Carbon Dioxide (mmol/L)	25	22~29	
Calcium (mg/dL)	9.7	8.2~10.2	
Magnesium (mg/dL)	2.2	1.6~2.6	

Liver	Current	Reference Range	Previous
ALT (U/L)	44 H	<=41	
AST (U/L)	27	<=40	
Bilirubin, Total (mg/dL)	0.5	<=1.2	
Bilirubin, Direct (mg/dL)	<0.2	<=0.3	
Albumin (g/dL)	5.2	3.5~5.2	
Alkaline Phosphatase (U/L)	82	40~130	
Total Protein (g/dL)	7.8	6.6~8.7	
GGT (U/L)	60.8 H	<=59.9	
LDH (U/L)	164	135~225	

Renal	Current	Reference Range	Previous
Creatinine (mg/dL)	1.0	0.7~1.2	
BUN (mg/dL)	11	6~20	
BUN/Creatinine Ratio	11	10~20	
Cystatin C (mg/L)	0.95	0.61~0.95	
eGFR	82 L	>=90	
Glucose(Renal) (mg/dL)	101	70~100	
Phosphate, Inorganic (mg/dL)	3.1	2.5~4.5	

### Labnotes

eGFR :- The eGFR is calculated from the Cystatin C result and is not influenced by age, gender, race, muscle mass, or protein intake.



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Others	Current	Reference Range	Previous
Uric Acid (mg/dL)	5.9	3.4~7.0	
ESR (Erythrocyte Sedimentation Rate) (mm/hour)	6	<=15	

Thyroid	Current	Reference Range	Previous
Free T3 (pg/mL)	3.3	2.0~4.4	
Free T4 (ng/dL)	1.1	0.9~1.7	
T4 - Thyroxine (µg/dL)	6.6	4.5~11.7	
T3 - Triiodothyronine (ng/mL)	1.2	0.8~2.0	
TSH (µIU/mL)	2.710	0.270~4.200	
Anti-TPO (IU/mL)	8	<=34	

Hormones	Current	Reference Range	Previous
Estradiol (pg/mL)	14.5 L	25.8~60.7	
DHEA-S (µg/dL)	143.0	88.9~427.0	
SHBG (nmol/L)	19.6	16.5~55.9	
Testosterone, Total (ng/dL)	162.0 L	348.0~1379.0	
Free Testosterone (ng/dL)	3.55 L	9.00~30.00	
Parathyroid Hormone (pg/mL)	44	15~65	
FSH (mIU/mL)	6.0	1.5~12.4	
LH (mIU/mL)	6.7	1.7~8.6	
Cortisol (µg/dL)	9.7	A.M.: 6.2-19.4 P.M.: 2.3-11.9	
Progesterone (ng/mL)	0.31	0.20~1.40	

#### Labnotes

SHBG :- SHBG reference ranges are based on adult populations >18 years of age.  
Testosterone, Total :- The range for this test was determined as the optimal range by Vibrant Wellness. Optimal Ranges\* are those that reflect low to zero risk for disease and denote optimal wellness and healthy aging.



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CBC with differential/platelet	Current	Reference Range	Previous
WBC (x 10 <sup>3</sup> /μL)	5.61	4.23-9.07	
RBC (x 10 <sup>6</sup> /μL)	4.45 L	4.63-6.08	
Hemoglobin (g/dL)	14.0	13.7-17.5	
Hematocrit (%)	41.7	40.1-51.0	
MCV (fL)	93.7 H	79.0-92.2	
MCH (pg)	31.5	25.7-32.2	
MCHC (g/dL)	33.6	32.3-36.5	
RDW - SD (fL)	43.3	35.1-43.9	
RDW - CV (%)	12.6	11.6-14.4	
Platelet Count (x 10 <sup>3</sup> /μL)	194.0	163.0-337.0	
Neutrophil (%)	63.1		
Lymphocytes (%)	23.7		
Monocytes (%)	9.6		
Eosinophils (%)	2.0		
Basophils (%)	0.7		
Immature Granulocyte (%)	0.9		
Neutrophil Count (x 10 <sup>3</sup> /μL)	3.54	1.78-5.38	
Lymphocyte Count (x 10 <sup>3</sup> /μL)	1.33	1.32-3.57	
Monocytes Count (x 10 <sup>3</sup> /μL)	0.54	0.30-0.82	
Eosinophil Count (x 10 <sup>3</sup> /μL)	0.11	<=0.54	
Basophil Count (x 10 <sup>3</sup> /μL)	0.04	<=0.08	
Immature Granulocyte Count (x 10 <sup>3</sup> /μL)	0.050 H	<=0.031	
MPV (Mean Platelet Volume) (fL)	9.6	9.4-12.4	
Nucleated RBC count (x 10 <sup>3</sup> /μL)	<0.010	<=0.012	
Nucleated RBC % (/100WBC)	0.0	<=0.2	

Reticulocytes	Current	Reference Range	Previous
Reticulocyte count (x 10 <sup>6</sup> /μL)	0.105 H	0.026-0.095	
Reticulocyte (%)	2.4 H	<=1.8	
IRF (Immature Reticulocyte Fraction) (%)	16.6 H	2.3-13.4	
Retic-Hemoglobin (pg)	35.2	28.2-35.7	

Tests flagged with \* were developed by and performance characteristics were determined by Vibrant America. Indicated tests are not FDA-cleared or approved. The laboratory is regulated under CLIA as qualified to perform high-complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research. Tests flagged with \* were performed at Vibrant Genomics. Tests flagged with \* were performed at Vibrant Wellness. Results of the following tests obtained with different manufacturers' assay methods may not be used interchangeably. The magnitude of the reported levels cannot be correlated to an endpoint tier. All Cefac section tests, Connective Tissue Disease section tests, and the ENA Profile-5. Laboratory Director: Mervyn Sahut, MD CLIA: DSD2078809 CLP: 00346278 Vibrant America Clinical Laboratory, 1621 Howard Avenue, Suite B, San Carlos, CA 94070. Phone: +1(866)364-0953; FAX: +1(650)504-8260; Email: support@vibrant-america.com



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Tumor Markers	Current	Reference Range	Previous
PSA (Total) (ng/mL)	0.44	<=4.00	
Free PSA (ng/mL)	0.10		
Free PSA% (%)	22.7 L	>=30.0	

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