

Name : Mr. KURUVA NARASIMHULU
 PID No. : MED121911357
 SID No. : 602306196
 Age / Sex : 34 Year(s) / Male
 Ref. Dr : MediWheel

Register On : 03/06/2023 9:35 AM
 Collection On : 03/06/2023 10:33 AM
 Report On : 03/06/2023 9:33 PM
 Printed On : 05/06/2023 12:30 PM
 Type : OP



| <u>Investigation</u> | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|---|-----------------------|----------------------|--------------------------------------|
| Absolute Monocyte Count (Blood/ Impedance Variation & Flow Cytometry) | 0.73 | 10 ³ / µl | < 1.0 |
| Absolute Basophil count (Blood/Impedance Variation & Flow Cytometry) | 0.08 | 10 ³ / µl | < 0.2 |
| Platelet Count (Blood/Impedance Variation) | 232 | 10 ³ / µl | 150 - 450 |
| MPV (Blood/Derived from Impedance) | 9.7 | fL | 7.9 - 13.7 |
| PCT (Blood/Automated Blood cell Counter) | 0.23 | % | 0.18 - 0.28 |
| ESR (Erythrocyte Sedimentation Rate) (Blood/Automated - Westergren method) | 21 | mm/hr | < 15 |

BIOCHEMISTRY

| | | | |
|---|-------|-------|--|
| BUN / Creatinine Ratio | 11.56 | | 6.0 - 22.0 |
| Glucose Fasting (FBS) (Plasma - F/GOD-PAP) | 86.3 | mg/dL | Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126 |

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

| | | | |
|---|----------|-------|----------|
| Glucose, Fasting (Urine) (Urine - F/GOD - POD) | Negative | | Negative |
| Glucose Postprandial (PPBS) (Plasma - PP/ GOD-PAP) | 115.9 | mg/dL | 70 - 140 |

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

| | | | |
|--|----------|-------|-----------|
| Urine Glucose(PP-2 hours) (Urine - PP) | Negative | | Negative |
| Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived) | 11.4 | mg/dL | 7.0 - 21 |
| Creatinine (Serum/Modified Jaffe) | 0.96 | mg/dL | 0.9 - 1.3 |

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin, cefazolin, ACE inhibitors, angiotensin II receptor antagonists, N-acetylcysteine, chemotherapeutic agent such as flucytosine etc.

| | | | |
|------------------------------------|-----|-------|-----------|
| Uric Acid (Serum/Enzymatic) | 7.8 | mg/dL | 3.5 - 7.2 |
|------------------------------------|-----|-------|-----------|

Liver Function Test

| | | | |
|---|------|-------|-----------|
| Bilirubin(Total) (Serum/DCA with ATCS) | 1.22 | mg/dL | 0.1 - 1.2 |
| Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid) | 0.32 | mg/dL | 0.0 - 0.3 |
| Bilirubin(Indirect) (Serum/Derived) | 0.90 | mg/dL | 0.1 - 1.0 |



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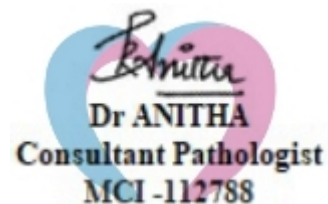
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|---|-----------------------|-------------|---|
| SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC) | 25.5 | U/L | 5 - 40 |
| SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC) | 31.6 | U/L | 5 - 41 |
| GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic) | 26.3 | U/L | < 55 |
| Alkaline Phosphatase (SAP) (Serum/ Modified IFCC) | 40.4 | U/L | 53 - 128 |
| Total Protein (Serum/Biuret) | 7.97 | gm/dl | 6.0 - 8.0 |
| Albumin (Serum/Bromocresol green) | 4.45 | gm/dl | 3.5 - 5.2 |
| Globulin (Serum/Derived) | 3.52 | gm/dL | 2.3 - 3.6 |
| A : G RATIO (Serum/Derived) | 1.26 | | 1.1 - 2.2 |
| <u>Lipid Profile</u> | | | |
| Cholesterol Total (Serum/CHOD-PAP with ATCS) | 153.8 | mg/dL | Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240 |
| Triglycerides (Serum/GPO-PAP with ATCS) | 97.4 | mg/dL | Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500 |

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the usual circulating level of triglycerides during most part of the day.

| | | | |
|--|-------------|-------|--|
| HDL Cholesterol (Serum/Immuno-inhibition) | 39.7 | mg/dL | Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40 |
| LDL Cholesterol (Serum/Calculated) | 94.6 | mg/dL | Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190 |
| VLDL Cholesterol (Serum/Calculated) | 19.5 | mg/dL | < 30 |
| Non HDL Cholesterol (Serum/Calculated) | 114.1 | mg/dL | Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220 |



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| INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol. 2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy. | | | |
| Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated) | 3.9 | | Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0 |
| Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated) | 2.5 | | Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0 |
| LDL/HDL Cholesterol Ratio (Serum/Calculated) | 2.4 | | Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0 |
| <u>Glycosylated Haemoglobin (HbA1c)</u> | | | |
| HbA1C (Whole Blood/HPLC) | 5.4 | % | Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5 |

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control >= 8.1 %

Estimated Average Glucose (Whole Blood) 108.28 mg/dL

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency, hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values. Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/ Chemiluminescent Immunometric Assay (CLIA)) 0.87 ng/ml 0.7 - 2.04

INTERPRETATION:

Comment :

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total (Serum/ Chemiluminescent Immunometric Assay (CLIA)) 7.76 µg/dl 4.2 - 12.0



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