

Name : Ms. MAMATHA R
PID No. : MED111568639
SID No. : 423020478
Age / Sex : 28 Year(s) / Female
Type : OP
Ref. Dr : MediWheel

Register On : 31/03/2023 8:11 AM
Collection On : 31/03/2023 8:25 AM
Report On : 31/03/2023 5:19 PM
Printed On : 01/04/2023 12:18 PM



<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Basophils (Blood)	0.7	%	00 - 02
INTERPRETATION: Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.			
Absolute Neutrophil count (EDTA Blood)	4.9	$10^3 / \mu\text{l}$	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	1.5	$10^3 / \mu\text{l}$	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.1	$10^3 / \mu\text{l}$	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.5	$10^3 / \mu\text{l}$	< 1.0
Absolute Basophil count (EDTA Blood)	0.1	$10^3 / \mu\text{l}$	< 0.2
Platelet Count (EDTA Blood)	225	$10^3 / \mu\text{l}$	150 - 450
MPV (EDTA Blood)	8.1	fL	8.0 - 13.3
PCT (EDTA Blood/Automated Blood cell Counter)	0.182	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrate Blood)	2	mm/hr	< 20




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MD PATHOLOGY
KMC 88902

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<u>BIOCHEMISTRY</u>			
<u>Liver Function Test</u>			
Bilirubin(Total) (Serum/DCA with ATCS)	0.95	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.35	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.60	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	17.47	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	9.53	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	8.33	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	52.4	U/L	42 - 98
Total Protein (Serum/Biuret)	7.21	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.97	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.24	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	2.22		1.1 - 2.2




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<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	119.32	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	57.44	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/Immunoinhibition)	40.62	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	67.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	11.5	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	78.7	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220

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.




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Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	2.9		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)	1.4		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.7		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0



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<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/HPLC)	4.7	%	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 88.19 mg/dL
(Whole Blood)

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 glyceimic 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.




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Investigation Observed Value Unit Biological Reference Interval

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.03 ng/ml 0.7 - 2.04
(Serum/ECLIA)

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 7.86 µg/dl 4.2 - 12.0
(Serum/ECLIA)

INTERPRETATION:

Comment :

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone) 2.33 µIU/mL 0.35 - 5.50
(Serum/ECLIA)

INTERPRETATION:

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5

2 nd trimester 0.2-3.0

3 rd trimester : 0.3-3.0

(Indian Thyroid Society Guidelines)

Comment :

1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.

2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations.

3.Values&lt;0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



Anusha
Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

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IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING
(EDTA Blood/Agglutination)

'B' 'Positive'



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BIOCHEMISTRY

BUN / Creatinine Ratio	16.7		6.0 - 22.0
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Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	79.83	mg/dL	70 - 140
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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.

Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	10.9	mg/dL	7.0 - 21
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Creatinine (Serum/Modified Jaffe)	0.65	mg/dL	0.6 - 1.1
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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)	2.49	mg/dL	2.6 - 6.0
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-- End of Report --