PID No.
 : IRA142138
 Register On
 : 27/09/2022 9:09 AM

 SID No.
 : 222016969
 Collection On
 : 27/09/2022 9:15 AM

**Printed On** 

: 30/09/2022 1:47 PM

Type : OP

Ref. Dr : MediWheel



Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination) INTERPRETATION: Reconfirm the Blood group a	'O' 'Positive' and Typing before	blood transfusion	
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	12.9	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	38.8	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	4.50	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	86.2	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	28.7	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	33.3	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	11.7	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	36.2	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	5980	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	60.1	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	31.6	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	2.0	%	01 - 06





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Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	6.0	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.3	%	00 - 02
INTERPRETATION: Tests done on Automated	Five Part cell coun	ter. All abnormal results	are reviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	3.59	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	1.89	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.12	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.36	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.02	10^3 / μl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	216	10^3 / μl	150 - 450
MPV (EDTA Blood/Derived from Impedance)	8.3	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.180	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Blood/Automated - Westergren method)	36	mm/hr	< 20
BUN / Creatinine Ratio	8.6		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	203.7	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125





Diabetic: >= 126

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<u>Investigation</u> <u>Observed</u> <u>Unit</u> <u>Biological</u>
Value Reference Interval

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

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Glucose, Fasting (Urine)
(Urine - F/GOD - POD)

Positive(++)

Negative

Glucose Postprandial (PPBS)

395.0 mg/dL

70 - 140

(Plasma - PP/GOD-PAP)

### 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)	Positive(+++)		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	7.2	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.83	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	3.6	mg/dL	3.5 - 7.2
(Serum/Enzymatic)			

# Liver Function Test

Bilirubin(Total) (Serum/DCA with ATCS)	0.47	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.16	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.31	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	24.9	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	24.3	U/L	5 - 41





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GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	27.7	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	80.5	U/L	56 - 119
Total Protein (Serum/Biuret)	6.68	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	3.68	gm/dl	3.5 - 5.2
Globulin (Serum/ <i>Derived</i> )	3.00	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.23		1.1 - 2.2
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	134.8	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	80.6	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500

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**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 õusualö"circulating level of triglycerides during most part of the day.

46.8 Optimal(Negative Risk Factor): >= **HDL Cholesterol** mg/dL 60 (Serum/Immunoinhibition)

Borderline: 40 - 59

High Risk: < 40





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<u>Investigation</u>	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
LDL Cholesterol (Serum/Calculated)	71.9	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	16.1	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	88.0	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.

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)	1.7		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.5		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/ <i>HPLC</i> )	10.1	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4

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



Dr.E.Saravanan M.D(Path)
Consultant Pathologist
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Diabetic: >= 6.5

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Estimated Average Glucose (Whole Blood)	243.17	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 HbAlC 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.

Prostate specific antigen - Total(PSA)

1.10

Normal: 0.0 - 4.0

Inflammatory & Non Malignant conditions of Prostate &

ng/mL

conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease of

Prostate: > 10.0

INTERPRETATION: REMARK: PSA alone should not be used as an absolute indicator of malignancy.

# THYROID PROFILE / TFT

(Serum/Manometric method)

T3 (Triiodothyronine) - Total 1.10 ng/ml 0.4 - 1.81

(Serum/Chemiluminescent Immunometric Assay (CLIA))

### 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 11.69 µg/dl 4.2 - 12.0

(Serum/Chemiluminescent Immunometric Assay

(CLIA))

## 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) **0.01** µIU/mL 0.35 - 5.50

(Serum/Chemiluminescent Immunometric Assay (CLIA))





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-	Value	Reference Interval

#### 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&amplt 0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.

## Urine Analysis - Routine

COLOUR	Pale yellow		Yellow to Amber
(Urine)			
APPEARANCE	Clear		Clear
(Urine)			
Protein	Negative		Negative
(Urine/Protein error of indicator)	_		_
Glucose	Negative		Negative
(Urine/GOD - POD)	-		_
Pus Cells	1 - 2	/hpf	NIL
(Urine/Automated 6"Flow cytometry )		•	
Epithelial Cells	Occasional	/hpf	NIL
(Urine/Automated 6"Flow cytometry )			
RBCs	NIL	/hpf	NIL
(Urine/Automated 6"Flow cytometry )		•	
Casts	NIL	/hpf	NIL
(Urine/Automated o''Flow cytometry )		•	
Crystals	NIL	/hpf	NIL
(Urine/Automated ó"Flow cytometry )		-	
Others	NIL		
(Urine)			

**INTERPRETATION:** Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.



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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Stool Analysis - ROUTINE			
Colour (Stool)	Brown		Brown
Blood (Stool)	Absent		Absent
Mucus (Stool)	Absent		Absent
Reaction (Stool)	Acidic		Acidic
Consistency (Stool)	Semi Solid		Semi Solid
Ova (Stool)	NIL		NIL
Others (Stool)	NIL		NIL
Cysts (Stool)	NIL		NIL
Trophozoites (Stool)	NIL		NIL
RBCs (Stool)	NIL	/hpf	Nil
Pus Cells (Stool)	1 - 2	/hpf	NIL
Macrophages (Stool)	NIL		NIL
Epithelial Cells (Stool)	NIL	/hpf	NIL





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-- End of Report --