

Name : Mrs. R RAJESWARI  
PID No. : MED120926046  
SID No. : 522212862  
Age / Sex : 40 Year(s) / Female  
Type : OP  
Ref. Dr : MediWheel

Register On : 28/03/2022 10:45 AM  
Collection On : 28/03/2022 11:46 AM  
Report On : 31/03/2022 12:54 PM  
Printed On : 31/03/2022 5:54 PM



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

### Complete Blood Count With - ESR

Haemoglobin (EDTA Blood/Spectrophotometry)	14.1	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	41.8	%	37 - 47
RBC Count (EDTA Blood/Impedance Variation)	4.77	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	88.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	29.5	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	33.7	g/dL	32 - 36
RDW-CV (Derived from Impedance)	13.5	%	11.5 - 16.0
RDW-SD (Derived from Impedance)	41.58	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	8700	cells/cu.mm	4000 - 11000
Neutrophils (Blood/Impedance Variation & Flow Cytometry)	59.1	%	40 - 75
Lymphocytes (Blood/Impedance Variation & Flow Cytometry)	29.5	%	20 - 45
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	3.3	%	01 - 06

  
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Monocytes (Blood/Impedance Variation & Flow Cytometry)	7.3	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	0.8	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	5.14	10 <sup>3</sup> / $\mu$ l	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.57	10 <sup>3</sup> / $\mu$ l	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.29	10 <sup>3</sup> / $\mu$ l	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.64	10 <sup>3</sup> / $\mu$ l	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.07	10 <sup>3</sup> / $\mu$ l	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	242	10 <sup>3</sup> / $\mu$ l	150 - 450
MPV (Blood/Derived from Impedance)	9.4	fL	8.0 - 13.3
PCT (Automated Blood cell Counter)	0.23	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/Modified Westergren)	9	mm/hr	< 20

  
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## BIOCHEMISTRY

### Liver Function Test

Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.3	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.1	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.2	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.4	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.3	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	3.1	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	1.4		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	14	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	14	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	<b>110</b>	U/L	42 - 98
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	15	U/L	< 38

  
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<b><u>Lipid Profile</u></b>			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	221	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	246	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)	45	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	126.8	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	49.2	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	176.0	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)	4.9		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
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Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	5.5		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
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LDL/HDL Cholesterol Ratio (Serum/Calculated)	2.8		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0
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<b><u>Glycosylated Haemoglobin (HbA1c)</u></b>			
HbA1C (Whole Blood/HPLC)	5.7	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: $\geq$ 6.5

**INTERPRETATION:** If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control  $\geq$  8.1 %

Estimated Average Glucose 116.89 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 glycaemic 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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## IMMUNOASSAY

### THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/CMIA)	1.48	ng/mL	0.7 - 2.04
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#### **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 (Thyroxine) - Total (Serum/CMIA)	7.54	µg/dL	4.2 - 12.0
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#### **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) (Serum/Chemiluminescent Microparticle Immunoassay(CMIA))	1.58	µIU/mL	0.35 - 5.50
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#### **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.

  
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## CLINICAL PATHOLOGY

### PHYSICAL EXAMINATION

Colour (Urine)	Pale Yellow		
Appearance (Urine)	Clear		Clear
Volume (Urine)	20	mL	


### CHEMICAL EXAMINATION(Automated-Urineanalyser)

pH (Urine/AUTOMATED URINANALYSER)	6.0		4.5 - 8.0
Specific Gravity (Urine)	1.025		1.002 - 1.035
Ketones (Urine)	Negative		Negative
Urobilinogen (Urine/AUTOMATED URINANALYSER)	0.2		0.2 - 1.0
Blood (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Nitrite (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Bilirubin (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Protein (Urine)	Negative		Negative



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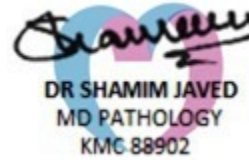
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Glucose (Urine)	Negative		Negative
Leukocytes (Urine)	Negative	leuco/uL	Negative
<b><u>MICROSCOPY(URINE DEPOSITS)</u></b>			
Pus Cells (Urine/Flow cytometry)	2-4	/hpf	3-5
Epithelial Cells (Urine)	1-2	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	NIL
Others (Urine)	Nil		Nil



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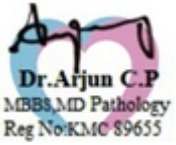
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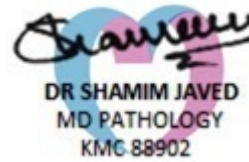
## IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination)	'B' 'Positive'		
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**INTERPRETATION:**Note: Slide method is screening method. Kindly confirm with Tube method for transfusion.



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<b><u>BIOCHEMISTRY</u></b>			
BUN / Creatinine Ratio	13		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	86	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)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD - POD)	70	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.


Glucose Postprandial - Urine (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease-GLDH)	13	mg/dL	7.0 - 21
Creatinine (Serum/Jaffe Kinetic)	1.0	mg/dL	0.6 - 1.1

**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-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/Uricase/Peroxidase)	4.3	mg/dL	2.6 - 6.0
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-- End of Report --

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### ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size (14.2 cms) and shows mild diffusely increased echopattern. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

**GALL BLADDER** show normal shape and has clear contents. Wall is of normal thickness. CBD is of normal calibre.

**PANCREAS** has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

**SPLEEN** is enlarged in size, measures 14 cms. Normal in shape and echopattern. No focal lesion.

No demonstrable Para-aortic lymphadenopathy.

#### **KIDNEYS**

**Right kidney:** Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

**Left kidney:** Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

	Bipolar length (cm)	Parenchymal thickness (cm)
Right Kidney	9.6	1.0
Left Kidney	9.8	1.3

**URINARY BLADDER** show normal shape and wall thickness. It has clear contents. No evidence of diverticula.

**UTERUS** is anteverted and has normal shape and size. It has uniform myometrial echopattern. Endometrial echo is of normal thickness - 7 mm.

Uterus measures LS: 8.0 cm      AP: 3.8 cm      TS: 5.9 cm.

**OVARIES** are normal in size, shape and echotexture

Right ovary measures 3.0 x 2.1 cms.      Left ovary measures 3.0 x 1.7 cms.

POD & adnexa are free.

No evidence of ascites.

#### **IMPRESSION:**

- **Grade I fatty infiltration of liver.**
- **Splenomegaly.**

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*Suggested clinical correlation.*

**DR. H.K. ANAND   DR. C.R RAMACHANDRA   DR. LOHITH H.P   DR. VARSHA KALE**  
**CONSULTANT RADIOLOGISTS**

Vk/Ss

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## 2D ECHOCARDIOGRAPHIC STUDY

### M-mode measurement:

AORTA	:	2.43	cms.
LEFT ATRIUM	:	2.62	cms.
AVS	:	1.48	cms.
<b>LEFT VENTRICLE</b>			
(DIASTOLE)	:	4.13	cms.
(SYSTOLE)	:	2.51	cms.
<b>VENTRICULAR SEPTUM</b>	:		
(DIASTOLE)	:	0.93	cms.
(SYSTOLE)	:	1.20	cms.
<b>POSTERIOR WALL</b>	:		
(DIASTOLE)	:	0.85	cms.
(SYSTOLE)	:	1.12	cms.
EDV	:	75	ml.
ESV	:	22	ml.
FRACTIONAL SHORTENING	:	30	%
EJECTION FRACTION	:	60	%
EPSS	:	--	cms.
RVID	:	1.80	cms.

### DOPPLER MEASUREMENTS:

MITRAL VALVE:	E - 0.6 m/s	A - 0.9 m/s	MILD MR.
AORTIC VALVE:	1.1 m/s		NO AR.
TRICUSPID VALVE:	E - 0.3 m/s	A - 0.5 m/s,	MILD TR, PASP 10mmHg.
PULMONARY VALVE:	0.8 m/s		NO PR.

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**2D ECHOCARDIOGRAPHY FINDINGS:**

Left Ventricle : Normal size, Normal systolic function.  
: No regional wall motion abnormalities.

Left Atrium : Normal.

Right Ventricle : Normal.

Right Atrium : Normal.

Mitral Valve : Normal. No mitral valve prolapsed.

Aortic Valve : Normal. Trileaflet.

Tricuspid Valve : Normal.

Pulmonary Valve : Normal.

IAS : Intact.

IVS : Intact.

Pericardium : No pericardial effusion.

**IMPRESSION:**

- **NORMAL SIZED CARDIAC CHAMBERS.**
- **NORMAL LV SYSTOLIC FUNCTION. EF: 60 %.**
- **NO REGIONAL WALL MOTION ABNORMALITIES.**
- **NORMAL VALVES.**
- **NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.**

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**DR. YASHODA RAVI**

**CONSULTANT CARDIOLOGIST**