: Mr. MURALI KRISHNA K Name

PID No. : MED111033183 Register On : 25/03/2022 8:40 AM : 922018112 SID No. Collection On : 25/03/2022 9:31 AM Age / Sex : 34 Year(s) / Male Report On : 26/03/2022 10:49 AM

**Printed On** 



: OP Ref. Dr : MediWheel

Type

Investigation  III A FINA TO LOCAL	Observed Value	<u>Unit</u>	Biological Reference Interval
<b>HAEMATOLOGY</b>			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	13.3	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	41.8	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	5.63	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	74.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	23.6	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	31.8	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	14.0	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	36.26	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	6900	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	58.4	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	31.7	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	1.5	%	01 - 06

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Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	7.9	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.5	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	4.03	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.19	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.10	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.55	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.03	10^3 / μl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	314	10^3 / μl	150 - 450
MPV (EDTA Blood/Derived from Impedance)	7.6	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.24	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (EDTA Blood/Modified Westergren)	22	mm/hr	< 15

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Investigation BIOCHEMISTRY	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.4	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.1	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.3	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.9	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	5.0	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	2.9	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	1.7		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	25	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	43	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	69	U/L	53 - 128
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	42	U/L	< 55





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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Lipid Profile</u>			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	214	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	192	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)	46	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	129.6	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	38.4	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	168.0	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.





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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	4.7		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)	4.2		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
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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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/ <i>HPLC</i> )	6.1	%	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 128.37 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 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 HbAlc.





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

# **IMMUNOASSAY**

## THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.34 ng/mL 0.7 - 2.04

(Serum/CMIA)

## 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 8.65 μg/dL 4.2 - 12.0

(Serum/CMIA)

## 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) 1.65 µIU/mL 0.35 - 5.50

(Serum/Chemiluminescent Microparticle

Immunoassay(CMIA))

### 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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-	Value		Reference Interval

# **CLINICAL PATHOLOGY**

## PHYSICAL EXAMINATION

FHISICAL EXAMINATION		
Colour (Urine)	Pale Yellow	
Appearance (Urine)	Clear	Clear
Volume (Urine)	10 m	ıL
<u>CHEMICAL EXAMINATION(Automated-Urineanalyser)</u>		
pH (Urine/AUTOMATED URINANALYSER)	5.0	4.5 - 8.0
Specific Gravity (Urine)	1.015	1.002 - 1.035
Ketones (Urine)	Negative	Negative
Urobilinogen (Urine/AUTOMATED URINANALYSER)	0.2	0.2 - 1.0

Blood Negative (Urine/AUTOMATED URINANALYSER)

Nitrite Negative Negative

(Urine/AUTOMATED URINANALYSER)

Bilirubin Negative Negative

 $(Urine/A\,UTOMATED\,\,URINANALYSER)$ 

Protein Negative Negative

Glucose Negative Negative

DR .VANITHA.R.SWAMY MD Consultant Pathologist Reg No : 99049

(Urine)

(Urine)

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Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Leukocytes (Urine)  MICROSCOPY(URINE DEPOSITS)	Negative	leuco/uL	Negative
Pus Cells (Urine/Flow cytometry)	2-4	/hpf	3-5
Epithelial Cells (Urine)	0-1	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	NIL
Others (Urine)	Nil		Nil
Casts (Urine/Flow cytometry)	Nil	/hpf	0 - 1
Crystals (Urine)	Nil		NIL

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<b>BIOCHEMISTRY</b>			
BUN / Creatinine Ratio	13.3		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	80	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

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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.

Glucose Fasting - Urine (Urine - F)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD - POD)	127	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)	12	mg/dL	7.0 - 21
Creatinine (Serum/Jaffe Kinetic)	0.9	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-acetylcyteine, chemotherapeutic agent such as flucytosine etc.

Uric Acid 6.9 mg/dL 3.5 - 7.2 (Serum/*Uricase/Peroxidase*)



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: Mr. MURALI KRISHNA K Name

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# **IMMUNOHAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING 'B' 'Positive'

 $({\rm EDTA~Blood} Agglutination)$ 



**VERIFIED BY** 



**APPROVED BY** 

-- End of Report --





Name	MR.MURALI KRISHNA K	ID	MED111033183
Age & Gender	34Y/MALE	Visit Date	25/03/2022
Ref Doctor	MediWheel		

# **ABDOMINO-PELVIC ULTRASONOGRAPHY**

**LIVER** is normal in shape, upper limit in size (15.3cms) and has 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. Gall bladder wall is of normal thickness.

CBD is of normal calibre.

**PANCREAS** visualized portion of head and body appear normal. Tail is obscured by bowel gas.

SPLEEN show normal shape, size and echopattern.

No demonstrable Para -aortic lymphadenopathy.

**KIDNEYS** move well with respiration and have normal shape, size and echopattern. Cortico- medullary differentiations are well madeout.

No evidence of calculus or hydronephrosis.

The kidney measures as follows

	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	9.3	1.3
Left Kidney	10.2	1.5

URINARY BLADDER show normal shape and wall thickness.

It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size and echopattern.

No evidence of ascites.

Impression: Increased hepatic echopattern suggestive of fatty infiltration.

CONSULTANT RADIOLOGISTS:

DR. H. K. ANAND

DR. PRAJNA SHENOY

DR. MAHESH. M. S

DR. RADHA KRISHNA. A.

DR. HIMA BINDU.P

Hbp/so



Customer Name

MR. Muzali Kzishna. U

Age & Gender

3448 male. Visit Date

25-63/2022.

Eye Screening

With spectacles / without spectacles (strike out whichever is not applicable)

Right Eye

Near Vision

Normal

Right Eye

Left Eye

Normal

Observation / Comments: Normal.

CLUMAX DIAGNOSTICS &
RESEARCH C ET OTRE PVT.LTD
# 68/150/3, "Sri Lekshn, Towers'
9th Main, 3rd 65ck, Jevans gar
BANGALORE, 60,011



Name	MR.MURALI KRISHNA K	ID	MED111033183
Age & Gender	34Y/MALE	Visit Date	25/03/2022
Ref Doctor	MediWheel	V	

# **2D ECHOCARDIOGRAPHIC STUDY**

# M mode measurement:

AORTA : 3.31 cms

LEFT ATRIUM : 3.06 cms

AVS : 2.00 cms

LEFT VENTRICLE (DIASTOLE) : 4.29 cms

(SYSTOLE) : 2.82 cms

VENTRICULAR SEPTUM (DIASTOLE) : 1.02 cms

(SYSTOLE) : 1.59 cms

POSTERIOR WALL (DIASTOLE) : 0.94 cms

(SYSTOLE) : 2.57 cms

EDV : 82 ml

ESV : 30 ml

FRACTIONAL SHORTENING : 34 %

EJECTION FRACTION : 63 %

EPSS : cms

RVID : 1.63 cms

# **DOPPLER MEASUREMENTS**

MITRAL VALVE : 'E' -1.17m/s 'A' -0.57 m/s NO MR

AORTIC VALVE :1.13 m/s NO AR

TRICUSPID VALVE : 'E' -0.68m/s 'A' - m/s NO TR

PULMONARY VALVE :0.84 m/s NO PR



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Age & Gender	34Y/MALE	Visit Date	7 7 7 7
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:2:

# **2D ECHOCARDIOGRAPHY FINDINGS:**

Left Ventricle

Normal size, Normal systolic function.

No regional wall motion abnormalities

Left Atrium

Normal

Right Ventricle

Normal

Right Atrium

Mitral valve

Normal.

Normal, No mitral valve prolapse.

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: 63 %
- NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.
- NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

(KINDLY CORRELATE CLINICALLY AND WITH ECG)

DR.SRIDHAR.L MD, DM, FICC. **CONSULTANT CARDIOLOGIST** Ls/ml

Dr. SRILMAR .L MD, (Med), DM(Cardio), FICC Interventional Cardiologist K.M.C. No.: 32248

