



Name	MR.ROHITH C S	ID	MED111175970
Age & Gender	39Y/MALE	Visit Date	25/06/2022
Ref Doctor	MediWheel		

## **2D ECHOCARDIOGRAPHIC STUDY**

## M mode measurement:

AORTA 3.84 cms **LEFT ATRIUM** 3.10 cms **AVS** 1.51 cms LEFT VENTRICLE (DIASTOLE) 4.53 cms (SYSTOLE) 2.86 cms VENTRICULAR SEPTUM (DIASTOLE) 1.22 cms (SYSTOLE) 2.00 cms POSTERIOR WALL (DIASTOLE) 1.18 cms (SYSTOLE) 2.29 cms EDV ' 93 ml **ESV** 31 ml FRACTIONAL SHORTENING 36 % **EJECTION FRACTION** 66 % **EPSS** cms **RVID** 2.08 cms

## **DOPPLER MEASUREMENTS**

MITRAL VALVE : 'E' -1.08m/s 'A' -0.97m/s NO MR

AORTIC VALVE :1.44 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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## **2D ECHOCARDIOGRAPHY FINDINGS:**

Left Ventricle

Normal size, Normal systolic function.

No regional wall motion abnormalities

Left Atrium

:

Right Ventricle

Normal

Normal

Right Atrium

Normal.

Mitral valve

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: 66 %
- 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. SRIDHAR .L.
MD,(Med), DM(Cardio), FICC
Interventional Cardiologist

K.M.C. No.: 32248

IN SECTION

## **MEDALL CLUMAX DIAGNOSTICS**

Customer Name	Man Rohith-C.S.		111175970
Age & Gender	39425	Visit Date	25/6/2022

Eye Screening

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

Right Eye Left Eye Near Vision Distance Vision Colour Vision

Observation / Comments:

No comments. Clieb everig spectacles Last 134s.

**CLUMAX DIAGNOSTICS &** RESEARCH CENTRE PVT.LTD # 68/150/3, "Sri Làkshmi Towers" 9th Main, 3rd Block Jayanagar BANGALORE 560 011



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### ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size 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.

CBD is of normal canoic.

PANCREAS has normal shape, size and uniform echopattern.

No evidence of ductal dilatation or calcification.

**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	9.4	1.6
Left Kidney	9.2	1.6

URINARY BLADDER show normal shape and wall thickness.

It has clear contents. No evidence of diverticula.

**PROSTATE** shows normal shape, size (wt-13gms) and echopattern.

No evidence of ascites.

Impression: Increased hepatic echopattern suggestive of fatty infiltration.

CONSULTANT RADIOLOGISTS:

DR. H. K. ANAND Ms/so DR. MAHESH. M. S

DR. HIMA BINDU.P



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## X - RAY CHEST PA VIEW

Prominent bronchovascular markings seen in right lower zone.

Cardiac size is within normal limits.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

Sugg: Clinical correlation.

DR. MAHESH M S

DR. MAHESH M S
CONSULTANT RADIOLOGIST

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>HAEMATOLOGY</b>			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	15.3	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	45.4	%	42 - 52
RBC Count (EDTA Blood)	5.18	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood)	87.6	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	29.4	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	33.6	g/dL	32 - 36
RDW-CV (EDTA Blood)	14.5	%	11.5 - 16.0
RDW-SD (EDTA Blood)	44.46	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	6100	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	60.6	%	40 - 75
Lymphocytes (EDTA Blood)	27.7	%	20 - 45
Eosinophils (EDTA Blood)	3.2	%	01 - 06
Monocytes (EDTA Blood)	7.9	%	01 - 10





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Basophils	0.6	%	00 - 02
(EDTA Blood)			
INTEDDDETATION. Tests done on Aut	omated Five Part cell counter. All s	hnormal results ar	a raviawed and confirmed microscopic

**INTERPRETATION:** Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.  $10^{3} / \mu l$ Absolute Neutrophil count 3.70 1.5 - 6.6 (EDTA Blood)  $10^{3} / \mu l$ Absolute Lymphocyte Count 1.69 1.5 - 3.5(EDTA Blood) Absolute Eosinophil Count (AEC) 0.20  $10^{3} / \mu l$ 0.04 - 0.44(EDTA Blood) Absolute Monocyte Count 0.48  $10^{3} / \mu l$ < 1.0 (EDTA Blood) Absolute Basophil count 0.04  $10^{3} / \mu l$ < 0.2 (EDTA Blood) 10^3 / µl Platelet Count 246 150 - 450 (EDTA Blood) MPV fL7.9 - 13.77.4 (EDTA Blood) **PCT** 0.18 % 0.18 - 0.28 (EDTA Blood/Automated Blood cell Counter) ESR (Erythrocyte Sedimentation Rate) mm/hr < 15



(EDTA Blood)



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<b>BIOCHEMISTRY</b>			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.62	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.23	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.39	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	15.29	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	15.50	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	14.99	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	71.0	U/L	53 - 128
Total Protein (Serum/Biuret)	7.65	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.45	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	3.20	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.39		1.1 - 2.2



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Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	167.92	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	199.73	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)	29.74	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	98.3	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	39.9	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	138.2	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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The results pertain to sample tested.

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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	5.6		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)	6.7		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	3.3		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> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/HPLC)	5.3	%	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 105.41 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>Value</u>		Reference Interval

### **IMMUNOASSAY**

#### THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.17 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 9.06 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) 2.22 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&amplt 0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.

DR .VANITHA.R.SWAMY MD
Consultant Pathologist
Reg No: 99049
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DR SHAMIM JAVED
MD PATHOLOGY
KMC 88902

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-	<u>Value</u>		Reference Interval

## **CLINICAL PATHOLOGY**

# PHYSICAL EXAMINATION (URINE COMPLETE)

Colour Pale	Yellow Yellow to A	1
Colour	YELLOW TO A	mper

(Urine)

Appearance Clear Clear

(Urine)

Volume(CLU) 15

(Urine)

## <u>CHEMICAL EXAMINATION (URINE COMPLETE)</u>

pН	[	6.5	4.5 - 8.0
P.	-	0.0	0.0

(Urine)

Specific Gravity 1.004 1.002 - 1.035

(Urine)

Ketone Negative Negative

(Urine)

Urobilinogen Normal Normal

(Urine)

Blood Negative Negative

(Urine)

Nitrite Negative Negative

(Urine)

Bilirubin Negative Negative

(Urine)

Protein Negative Negative

(Urine)

Glucose Negative Negative

(Urine/GOD - POD)



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>	
Leukocytes(CP)	Negative			
(Urine)				
MICROSCOPIC EXAMINATION (URINE COMPLETE)				
Pus Cells (Urine)	1-2	/hpf	NIL	
Epithelial Cells (Urine)	1-2	/hpf	NIL	
RBCs (Urine)	Nil	/HPF	NIL	
Others (Urine)	Nil			
<b>INTERPRETATION:</b> Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.				
Casts (Urine)	Nil	/hpf	NIL	
Crystals (Urine)	Nil	/hpf	NIL	



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<b>BIOCHEMISTRY</b>			
BUN / Creatinine Ratio	11		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	108.40	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125

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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)	Negative		Negative
(Urine - F/GOD - POD)			
Glucose Postprandial (PPBS)	84.19	mg/dL	70 - 140
(Dlagma DD/COD DAD)			

(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)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	9.5	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.82	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 5.14 mg/dL 3.5 - 7.2 (Serum/Enzymatic)



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## **IMMUNOHAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING 'O' 'Positive'

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





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-- End of Report --