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Ref. Dr : MediWheel

Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>HAEMATOLOGY</b>			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	14.8	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	43.6	%	42 - 52
RBC Count (EDTA Blood)	5.45	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood)	80.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	27.2	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	34.1	g/dL	32 - 36
RDW-CV (EDTA Blood)	13.6	%	11.5 - 16.0
RDW-SD (EDTA Blood)	38.08	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	6600	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	62.3	%	40 - 75
Lymphocytes (EDTA Blood)	23.3	%	20 - 45
Eosinophils (EDTA Blood)	5.7	%	01 - 06
Monocytes (EDTA Blood)	7.9	%	01 - 10







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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
Basophils (EDTA Blood)	0.8	%	00 - 02
INTERPRETATION: Tests done on Automated Five Pa	art cell counter. All a	abnormal results are r	eviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	4.11	10^3 / μ1	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	1.54	10^3 / μ1	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.38	10^3 / μ1	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.52	10^3 / μ1	< 1.0
Absolute Basophil count (EDTA Blood)	0.05	10^3 / μ1	< 0.2
Platelet Count (EDTA Blood)	227	10^3 / μ1	150 - 450
MPV (EDTA Blood)	9.2	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.21	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (EDTA Blood)	2	mm/hr	< 15







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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	105.21	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/GOD - POD)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	77.39	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.

Urine Glucose(PP-2 hours)	Negative		Negative
(Urine - PP)			
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	13.9	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.94	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 4.82 mg/dL 3.5 - 7.2 (Serum/*Enzymatic*)







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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	1.28	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.40	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.88	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	16.07	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	15.20	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	15.79	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	87.2	U/L	53 - 128
Total Protein (Serum/Biuret)	6.95	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.65	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.30	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	2.02		1.1 - 2.2







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Ref. Dr : MediWheel

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)	147.14	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	136.32	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)	45.63	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	74.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	27.3	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	101.5	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220







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

**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	3.2	Optimal: < 3.3
(Serum/Calculated)	3.2	Low Risk: 3.4 - 4.4
(Scrum Carcamea)		Average Risk: 4.5 - 7.1
		Moderate Risk: 7.2 - 11.0
		High Risk: > 11.0

		High Risk: > 11.0
Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	3	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.6	Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0







High Risk: > 6.0

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<u>Investigation</u>	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)		-	
HbA1C (Whole Blood/ <i>HPLC</i> )	5.4	%	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 108.28 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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Observed Unit Biological
Value Reference Interval

**BIOCHEMISTRY** 

BUN / Creatinine Ratio 14.7 6.0 - 22.0

**Printed On** 



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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>
<u>IMMUNOASSAY</u>			
Prostate specific antigen - Total(PSA) (Serum/Manometric method)	0.430	ng/ml	Normal: 0.0 - 4.0 Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease of Prostate: > 10.0

### INTERPRETATION: Analytical sensitivity: 0.008 - 100 ng/mL

PSA is a tumor marker for screening of prostate cancer. Increased levels of PSA are associated with prostate cancer and benign conditions like bacterial infection, inflammation of prostate gland and benign hypertrophy of prostate/ benign prostatic hyperplasia (BPH).

Transient elevation of PSA levels are seen following digital rectal examination, rigorous physical activity like bicycle riding, ejaculation within 24 hours.

PSA levels tend to increase in all men as they age.

Clinical Utility of PSA:

an the early detection of Prostate cancer.

As an aid in discriminating between Prostate cancer and Benign Prostatic disease.

To detect cancer recurrence or disease progression.







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Type Ref. Dr : MediWheel

: OP

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

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## **IMMUNOASSAY**

### THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.12 0.7 - 2.04ng/ml

(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.

4.2 - 12.0 T4 (Tyroxine) - Total 7.69 µg/dl

(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) 2.54 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.







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InvestigationObservedUnitBiologicalValueReference Interval

# **CLINICAL PATHOLOGY**

# PHYSICAL EXAMINATION (URINE COMPLETE)

Colour	Pale vellow	Yellow to Amber
Coloui	i aic ychow	1 chow to 7 thioci

(Urine)

Appearance Clear Clear

(Urine)

Volume(CLU) 20

(Urine)

# CHEMICAL EXAMINATION (URINE

<u>COMPLETE</u>)

pH 6.5 4.5 - 8.0

(Urine)

Specific Gravity 1.005 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)







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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glucose (Urine/GOD - POD)	Negative		Negative
Leukocytes(CP) (Urine)	Negative		
MICROSCOPIC EXAMINATION (URINE COMPLETE)			
Pus Cells (Urine)	0-1	/hpf	NIL
Epithelial Cells	0-1	/hpf	NIL

(Urine)

**RBCs** 

NIL /HPF

(Urine)

Others NIL

(Urine)

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

/hpf NILCasts NIL

(Urine)

NIL /hpf NIL Crystals

(Urine)







**NIL** 

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Investigation <u>Observed</u> <u>Value</u>

**Biological** Reference Interval

# **IMMUNOHAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING

(EDTA Blood/Agglutination)

'B' 'Positive'





<u>Unit</u>



-- End of Report --

Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08 Mar 2024
Ref Doctor Name	MediWheel		

# **2D ECHOCARDIOGRAPHY**

## **Chambers**

• Left

ventricle: normal in size, No RWMA at Rest.

• Left

Atrium: Normal

• Right

Ventricle: Normal

• Right

Atrium: Normal

Septa

• IVS : Intact

IAS: Intact

**Valves** 

• Mitral

Valve: Normal.

• Tricuspid

Valve: Normal, trace TR, No PAH

• Aortic

valve: Tricuspid, Normal Mobility

• Pulmonary

Valve: Normal

**Great Vessels** 

• Aorta :

Normal

• Pulmonary

Artery: Normal

**Pericardium**: Normal

Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08 Mar 2024
Ref Doctor Name	MediWheel		

# **Doppler Echocardiography**

Mitral	Е	0.65	m/sec	A	0.52	m/sec	E/a:1.25
valve							
Aortic Valve	V max	1.26	m/sec	PG	6.4	mm	
Diastolic D	ysfunction				NONE		

:2:

# M - Mode Measurement

Parameter	Observed Valve	Normal Range	
Aorta	27	26-36	Mm
Left Atrium	29	27-38	Mm
IVS	11	09-11	Mm
Left Ventricle - Diastole	47	42-59	Mm
Posterior wall - Diastole	11	09-11	Mm
IVS - Systole	15	13 - 15	Mm
Left Ventricle -Systole	29	21-40	Mm
Posterior Wall - Systole	15	13-15	Mm
Ejection Fraction	60	->50	%

# **IMPRESSION:**

- NORMAL SIZED CARDIAC VALVES AND CHAMBERS
- NO RWMA'S AT REST
- NORMAL LV & RV SYSTOLIC FUNCTION LVEF 60%

Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08 Mar 2024
Ref Doctor Name	MediWheel		

- NORMAL DIASTOLIC FUNCTION
- NO PERICARDIAL EFFUSION / VEGETATION / CLOT.

DR RAMNARESH SOUDRI MD DM (CARDIOLOGY) FSCAI INTERVENTIONAL CARDIOLOGIST Rs/ m

Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08 Mar 2024
Ref Doctor Name	MediWheel		

## ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size and has uniform echopattern.

No evidence of focal lesion or intrahepatic biliary ductal dilatation.

Hepatic and portal vein radicals are normal.

**GALL BLADDER** shows multiple polyps, largest measuring 8.4mm. No evidence of internal vascularity.

Gall bladder wall is of normal thickness.

CBD is of normal calibre.

**PANCREAS** is obscured by bowel gas.

**SPLEEN** show normal shape, size and echopattern.

**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	10.6	1.4
Left Kidney	10.6	1.5

**URINARY BLADDER** show normal shape and wall thickness. It has clear contents.

**PROSTATE** shows normal shape, size (wt-9.6gms) and echopattern.

No evidence of ascites.

Impression: Gall bladder polyps.

Sugg: Clinical correlation and further evaluation.

DR. VINAY.V.R CONSULTANT RADIOLOGIST Vr/mp

Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08 Mar 2024
Ref Doctor Name	MediWheel		

Name	Mr. PREETHAM V	Customer ID	MED112109277
Age & Gender	40Y/M	Visit Date	Mar 8 2024 8:08AM
Ref Doctor	MediWheel		

# X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

Impression: Essentially normal study.

Dr.Geetha Priyadarshini Consultant Radiologist MBBS., MD(RD)., DNB

J. Guth



Name	Mr. PREETHAM V	Customer ID	MED112109277
Age & Gender	40Y/M	Visit Date	Mar 8 2024 8:08AM
Ref Doctor	MediWheel		

## X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

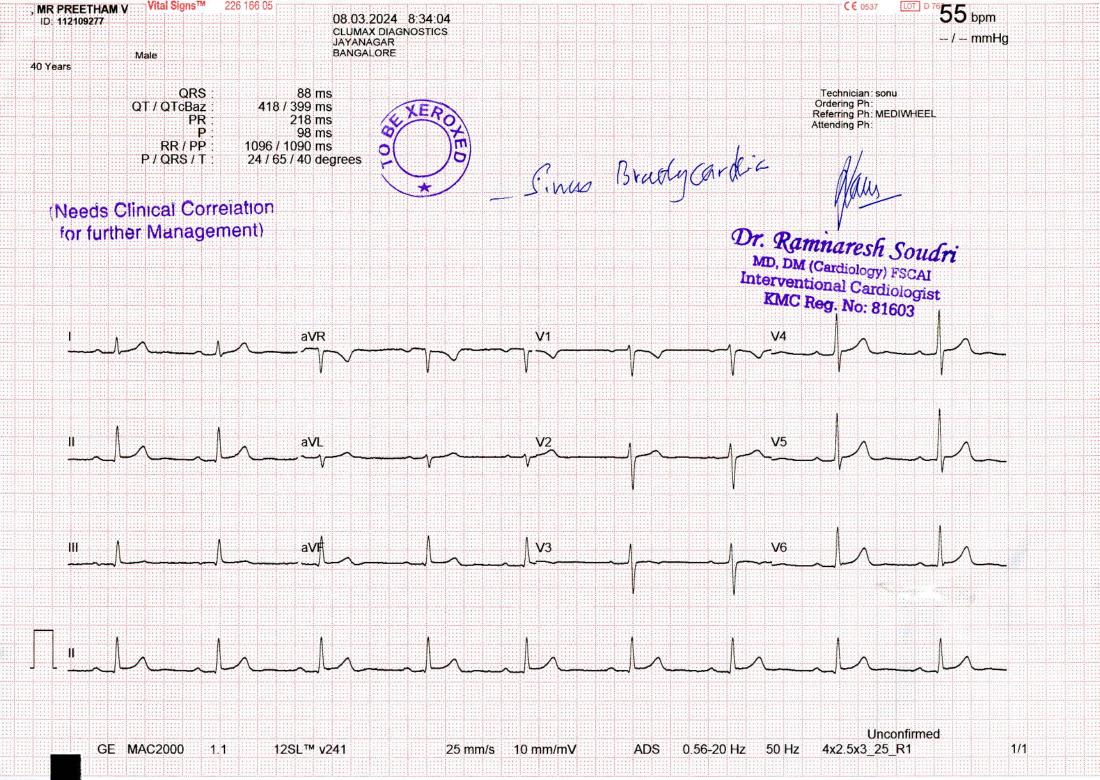
Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

Impression: Essentially normal study.

Dr.Geetha Priyadarshini Consultant Radiologist MBBS., MD(RD)., DNB







# **MEDALL CLUMAX DIAGNOSTICS**

Customer Name	Preechoon. 20	Customer ID	119109277
Age & Gender	leoyor 1 19ale	Visit Date	08-03-2024

Eye Screening

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

Right Eye Left Eye Near Vision NOS NO Distance Vision 616 616 Colour Vision

Observation / Comments:

MoRosa



10



Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08/03/2024
Ref Doctor	MediWheel		

# **2D ECHOCARDIOGRAPHY**

## Chambers

Left ventricle: normal in size, No RWMA at Rest.

Left Atrium : NormalRight Ventricle : NormalRight Atrium : Normal

# Septa

IVS : Intact IAS : Intact

## Valves

• Mitral Valve: Normal.

Tricuspid Valve: Normal, trace TR, No PAHAortic valve: Tricuspid, Normal Mobility

Pulmonary Valve : Normal

## **Great Vessels**

Aorta : Normal

• Pulmonary Artery: Normal

Pericardium: Normal

## **Doppler Echocardiography**

Mitral valve	Е	0.65	m/sec	Α	0.52	m/sec	E/a:1.25
Aortic Valve	V max	1.26	m/sec	PG	6.4	mm	
Diastolic l	Dysfunction				NONE	ie i diele	





Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08/03/2024
Ref Doctor	MediWheel		

:2:

### M - Mode Measurement

Parameter	Observed Valve	Normal Range	
Aorta	27	26-36	Mm
Left Atrium	29	27-38	Mm
IVS	11	09-11	Mm
Left Ventricle - Diastole	47	42-59	Mm
Posterior wall - Diastole	11	09-11	Mm
IVS - Systole	15	13 - 15	Mm
Left Ventricle - Systole	29	21-40	Mm
Posterior Wall - Systole	15	13-15	Mm
Ejection Fraction	60	->50	%

## **IMPRESSION:**

- NORMAL SIZED CARDIAC VALVES AND CHAMBERS
- NO RWMA'S AT REST
- NORMAL LV & RV SYSTOLIC FUNCTION LVEF 60%
- NORMAL DIASTOLIC FUNCTION
- NO PERICARDIAL EFFUSION / VEGETATION / CLOT

DR RAMNARESH SOUDRI MD DM (CARDIOLOGY) FSCAI INTERVENTIONAL CARDIOLOGIST Rs/ m

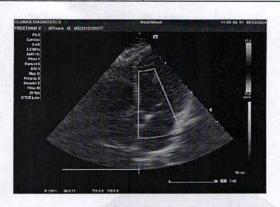
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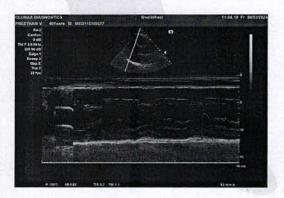


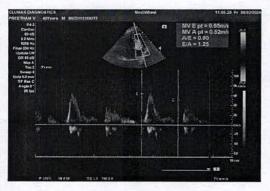
# Clumax Diagnostic and Research Centre Pvt. Ltd. 68/150/3, Sri Lakshmi Towers

Name	MR.PREETHAM V	ID	MED112109277
Age & Gender	40Y/MALE	Visit Date	08/03/2024
Ref Doctor	MediWheel		



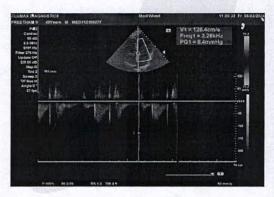




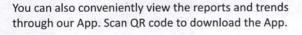
















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# ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size and has uniform echopattern. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER shows multiple polyps, largest measuring 8.4mm. No evidence of internal vascularity. Gall bladder wall is of normal thickness.

CBD is of normal calibre.

PANCREAS is obscured by bowel gas.

SPLEEN show normal shape, size and echopattern.

**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	10.6	1.4
Left Kidney	10.6	1.5

URINARY BLADDER show normal shape and wall thickness. It has clear contents.

PROSTATE shows normal shape, size (wt-9.6gms) and echopattern.

No evidence of ascites.

Impression: Gall bladder polyps.

Sugg: Clinical correlation and further evaluation.

DR. VINAY.V.R

CONSULTANT RADIOLOGIST

Vr/mp





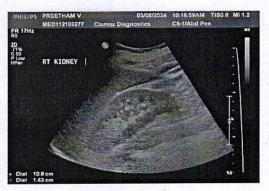
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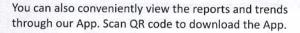
















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