Name	: Ms. ANJALI SINGH	
PID No.	: MED121821321	Register On : 22/04/2023 9:20 AM
SID No.	: 522306384	Collection On : 22/04/2023 9:55 AM
Age / Sex	: 32 Year(s) / Female	<b>Report On</b> : 22/04/2023 4:51 PM
Туре	: OP	Printed On : 24/04/2023 4:30 PM
Ref. Dr	: MediWheel	

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
<b>HAEMATOLOGY</b>			
<b>Complete Blood Count With - ESR</b>			
Haemoglobin (EDTA Blood'Spectrophotometry)	11.9	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	35.5	%	37 - 47
RBC Count (EDTA Blood)	4.13	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood)	85.9	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	28.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	33.6	g/dL	32 - 36
RDW-CV	13.6	%	11.5 - 16.0
RDW-SD	40.89	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	6300	cells/cu.mm	4000 - 11000
Neutrophils (Blood)	55.6	%	40 - 75
Lymphocytes (Blood)	33.4	%	20 - 45
Eosinophils (Blood)	2.6	%	01 - 06
Monocytes (Blood)	7.8	%	01 - 10





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Basophils (Blood)	0.6	%	00 - 02
INTERPRETATION: Tests done on Automated Five	Part cell counter. All a	abnormal results are a	reviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	3.50	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	2.10	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.16	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.49	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood)	0.04	10^3 / µl	< 0.2
Platelet Count (EDTA Blood)	221	10^3 / µl	150 - 450
MPV (Blood)	11.1	fL	8.0 - 13.3
PCT (Automated Blood cell Counter)	0.25	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood)	19	mm/hr	< 20





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Investigation BIOCHEMISTRY	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.30	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.12	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.18	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC</i> )	12.80	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/ <i>Modified IFCC</i> )	11.91	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	10.38	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/ <i>Modified IFCC</i> )	61.2	U/L	42 - 98
Total Protein (Serum/ <i>Biuret</i> )	7.00	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.37	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.63	gm/dL	2.3 - 3.6
A : G RATIO	1.66		1.1 - 2.2

(Serum/Derived)





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
Lipid Profile			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	114.69	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	61.81	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)	44.11	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/ <i>Calculated</i> )	58.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	12.4	mg/dL	< 30
Non HDL Cholesterol (Serum/ <i>Calculated</i> )	70.6	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	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Total Cholesterol/HDL Cholesterol Ratio (Serum/ <i>Calculated</i> )	2.6		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/ <i>Calculated</i> )	1.4		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.3		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0





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Investigation	<u>Observed</u>	<u>Unit</u>	<u>Biological</u>
Glycosylated Haemoglobin (HbA1c)	<u>Value</u>		Reference Interval
HbA1C (Whole Blood/ <i>HPLC</i> )	5.0	%	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	96.8	mg/dL
Estimated Average Olicose	70.0	mg/uL

(Whole Blood)

#### **INTERPRETATION:** Comments

HbA1c provides an index of Average Blood Glucose levels over the past8 - 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 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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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
<b>IMMUNOASSAY</b>			
THYROID PROFILE / TFT			
T3 (Triiodothyronine) - Total (Serum/ <i>ECLIA)</i> <b>INTERPRETATION:</b> <b>Comment :</b> Total T3 variation can be seen in other condition like pres Metabolically active.	1.11 gnancy, drugs, nepł	ng/ml nrosis etc. In such case:	0.7 - 2.04 s, Free T3 is recommended as it is
T4 (Tyroxine) - Total (Serum/ <i>ECLIA</i> ) INTERPRETATION: Comment :	6.85	µg/dl	4.2 - 12.0
Total T4 variation can be seen in other condition like prea Metabolically active.	gnancy, drugs, nepł	rosis etc. In such cases	s, Free 14 is recommended as it is
TSH (Thyroid Stimulating Hormone) (Serum/ECLIA)	2.08	µIU/mL	0.35 - 5.50
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 Iodi 2.TSH Levels are subject to circadian variation, reaching of the order of 50%,hence time of the day has influence of 3.Values&amplt,0.03 μIU/mL need to be clinically correl	peak levels betwee on the measured ser	en 2-4am and at a minin um TSH concentration	num between 6-10PM. The variation can be s.



sh Dr Anusha.K.S Sr.Consultant Pathologist Reg No : 100674 APPROVED BY

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Investigation <u>CLINICAL PATHOLOGY</u>	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
<u>PHYSICAL EXAMINATION (URINE</u> <u>COMPLETE)</u>			
Colour (Urine)	Yellow		Yellow to Amber
Appearance (Urine)	Clear		Clear
Volume(CLU) (Urine)	20		
<u>CHEMICAL EXAMINATION (URINE</u> <u>COMPLETE)</u>			
pH (Urine)	5.0		4.5 - 8.0
Specific Gravity (Urine)	1.017		1.002 - 1.035
Ketone (Urine)	Negative		Negative
Urobilinogen (Urine)	Normal		Normal
Blood (Urine)	Negative		Negative
Nitrite (Urine)	Negative		Negative
Bilirubin (Urine)	Negative		Negative
Protein (Urine)	Negative		Negative
Glucose (Urine/GOD - POD)	Negative		Negative





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Leukocytes(CP) (Urine)	Negative		
<u>MICROSCOPIC EXAMINATION</u> (URINE COMPLETE)			
Pus Cells (Urine)	0-2	/hpf	NIL
Epithelial Cells (Urine)	0-1	/hpf	NIL
RBCs (Urine)	NIL	/hpf	NIL
Others (Urine)	NIL		

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





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Investigation

**IMMUNOHAEMATOLOGY** 

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination)

'B' 'Positive'

Observed

<u>Value</u>

<u>Unit</u>

**INTERPRETATION:** Note: Slide method is screening method. Kindly confirm with Tube method for transfusion.





Biological Reference Interval

Name	: Ms. ANJALI SINGH	
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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
BUN / Creatinine Ratio	10.6		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	91.26	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)	87.95	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) (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	6.4	mg/dL	7.0 - 21
Creatinine (Serum/ <i>Modified Jaffe</i> )	0.60	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	3.59	mg/dL	
(Serum/Enzymatic)			

(Serum/Enzymatic)





2.6 - 6.0

-- End of Report --

Patient Name	Ancali Sing	Date	22/04/23
Age	32 ×	Visit Number	522306384
Sex	Female	Corporate	medicuheel

### **GENERAL PHYSICAL EXAMINATION**

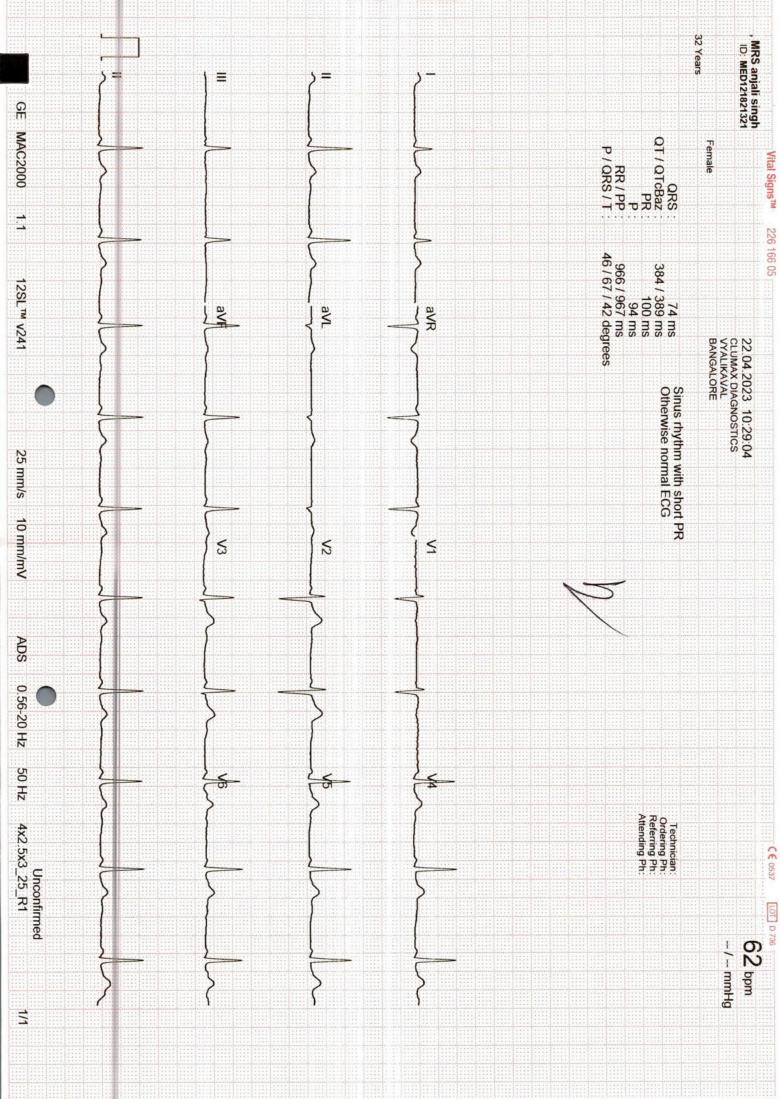
Identification Mark : Height: 157 cml cms Weight: 5H .7 kgs Pulse : /minute 666 m. Blood Pressure : 102 50 mm of Hg 22.2 Kg/m2 BMI **BMI INTERPRETATION** Underweight = <18.5 Normal weight = 18.5–24.9 Overweight = 25-29.9 Chest : Expiration : 76 cms Inspiration : 80 cms Abdomen Measurement : 68 , cms Eyes: BIL papils seecalful Ears : NAD () myopia Neck nodes : no palpable notende Throat : NAD cvs: S, S2 sounds Clear RS: BIL NUBSED PA: Soft = no tender CNS: NAD.

No abnormality is detected. His / Her general physical examination is within normal limits.

NOTE : MEDICAL FIT FOR EMPLOYMENT YES / NO

Signature

Dr. RITESH RAJ, MBBS General Physician & Diabetologist KMC Reg. No. 85875



Name	MS.ANJALI SINGH	ID	MED121821321
Age & Gender	32Y/FEMALE	Visit Date	22 Apr 2023
Ref Doctor Name	MediWheel	-	

### ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size (12.2 cm) 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 calculi of varying sizes, ranging in size from 5 to 8 mm. No pericholecystic fluid. No wall thickening. CBD is not dilated.

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

SPLEEN show normal shape, size and echopattern.

#### **BOTH 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 (cms)	Parenchymal thickness (cms)
Right Kidney	9.9	1.6
Left Kidney	10.1	1.3

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

**UTERUS** is retroverted and has normal shape and size. It has uniform myometrial echopattern. Endometrial echo is of normal thickness - 12.6 mm.

Uterus measures LS: 6.1 cms AP: 4.4 cms TS: 5.6 cms.

### **OVARIES**:

Right ovary is bulky and measures  $4.0 \ge 2.7$  cm. It shows a hemorrhagic follicle measuring 25  $\ge 21 \ge 23$  mm with a volume of 6.3 cc, containing internal echoes and septations. Left ovary measures 2.9  $\ge 1.4$  cm.

Minimal fluid in POD.

Adnexa are free. No evidence of ascites.

#### **IMPRESSION:**

- Cholelithiasis. No IHBRD.
- Right ovarian haemorrhagic follicle.

Name	MS.ANJALI SINGH	ID	MED121821321
Age & Gender	32Y/FEMALE	Visit Date	22 Apr 2023
Ref Doctor Name	MediWheel		

Suggested short term followup.

**DR. HEMANANDINI V.N CONSULTANT RADIOLOGISTS** Hn/Mi

Name	MS.ANJALI SINGH	ID	MED121821321
Age & Gender	32Y/FEMALE	Visit Date	22 Apr 2023
Ref Doctor Name	MediWheel		

# **2D ECHOCARDIOGRAPHIC STUDY**

# **<u>M-mode measurement:</u>**

LEFT ATRIUM       :       2.35       cms.         AVS       :       1.47       cms.         LEFT VENTRICLE       :       3.51       cms.         (DIASTOLE)       :       2.12       cms.         (SYSTOLE)       :       0.73       cms.         VENTRICULAR SEPTUM       :       0.73       cms.         (DIASTOLE)       :       0.73       cms.         (SYSTOLE)       :       0.96       cms.         (SYSTOLE)       :       0.96       cms.         (SYSTOLE)       :       0.96       cms.         POSTERIOR WALL       :        cms.         (SYSTOLE)       :       0.96       cms.         EDV       :       1.00       cms.         ESV       :       14       ml.         FRACTIONAL SHORTENING       :       39       %         EJECTION FRACTION       :       60       %         EPSS       :       1.80       cms.	AORTA	:	2.01	cms.
LEFT VENTRICLEInternational (DIASTOLE)International (DIASTOLE)(DIASTOLE):3.51 (Cms.VENTRICULAR SEPTUM:2.12 (Cms.(DIASTOLE):0.73 (Cms.(SYSTOLE):1.04 (Cms.POSTERIOR WALL:0.96 (Cms.(DIASTOLE):0.96 (Cms.(SYSTOLE):1.00 (Cms.EDV:51 (Cms.EDV:14 (Cms.FRACTIONAL SHORTENING:39 (Cms.EPSS:Cms.:	LEFT ATRIUM	:	2.35	cms.
(SYSTOLE):2.12cms.VENTRICULAR SEPTUM:0.73cms.(DIASTOLE):0.73cms.(SYSTOLE):1.04cms.POSTERIOR WALL:0.96cms.(DIASTOLE):0.96cms.(SYSTOLE):1.00cms.EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EPSS:cms.		:	1.47	cms.
VENTRICULAR SEPTUM (DIASTOLE):0.73 cms. cms. cms.(SYSTOLE):0.74cms.POSTERIOR WALL (DIASTOLE):0.96 cms. 1.00cms.EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EDSS:60%		:	3.51	cms.
(DIASTOLE) (SYSTOLE):0.73 1.04cms.POSTERIOR WALL (DIASTOLE):0.96 1.00cms.(SYSTOLE):0.96 1.00cms.EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	(SYSTOLE)	:	2.12	cms.
(SYSTOLE):1.04cms.POSTERIOR WALL:0.96cms.(DIASTOLE):0.96cms.(SYSTOLE):1.00cms.EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	VENTRICULAR SEPTUM	:		
POSTERIOR WALL:0.96cms.(DIASTOLE):1.00cms.(SYSTOLE):51ml.EDV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.		:	0.73	cms.
(DIASTOLE) (SYSTOLE):0.96 1.00cms. cms.EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	(SYSTOLE)	:	1.04	cms.
(SYSTOLE):1.00cms.EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	POSTERIOR WALL	:		
EDV:51ml.ESV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	(DIASTOLE)	:	0.96	cms.
ESV:14ml.FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	(SYSTOLE)	:	1.00	cms.
FRACTIONAL SHORTENING:39%EJECTION FRACTION:60%EPSS:cms.	EDV	:	51	ml.
EJECTION FRACTION:60%EPSS:cms.	ESV	:	14	ml.
EPSS : cms.	FRACTIONAL SHORTENING	:	39	%
	EJECTION FRACTION	:	60	%
RVID : 1.80 cms.	EPSS	:		cms.
	RVID	:	1.80	cms.

# **DOPPLER MEASUREMENTS:**

MITRAL VALVE:	E - 0.8 1	m/s A -0.6 1	m/s NO MR.
AORTIC VALVE:	1.1 1	m/s	NO AR.
TRICUSPID VALVE: E -	0.4 m/s	A -0.3 m/s	NO TR.
PULMONARY VALVE:	0.8 1	m/s	NO PR.

Name	MS.ANJALI SINGH	ID	MED121821321
Age & Gender	32Y/FEMALE	Visit Date	22 Apr 2023
Ref Doctor Name	MediWheel		

# **2D ECHOCARDIOGRAPHY FINDINGS:**

Left Ventricle	:	Normal size, Normal systolic function.
: No regional wall mot	ion abn	ormalities.
Left Atrium	:	Normal.
Right Ventricle :	Norm	al.
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.

Name	MS.ANJALI SINGH	ID	MED121821321
Age & Gender	32Y/FEMALE	Visit Date	22 Apr 2023
Ref Doctor Name	MediWheel	-	

# DR. YASHODA RAVI CONSULTANT CARDIOLOGIST

Name	ANJALI SINGH	Customer ID	MED121821321
Age & Gender	32Y/F	Visit Date	Apr 22 2023 9:19AM
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**:

• No significant abnormality detected.

e.vd M

DR.HEMANANDHINI CONSULTANT RADIOLOGIST