# **DEPARTMENT OF CARDIOLOGY**

UHID / IP NO	40001604 (1792)	RISNo./Status:	4002093/
Patient Name:	Mrs. MANJU SHARMA	Age/Gender:	56 Y/F
Referred By:	EHS CONSUTANT	Ward/Bed No:	OPD
Bill Date/No :	17/04/2023 8:05AM/ OPSCR23- 24/121	Scan Date :	
Report Date:	17/04/2023 10:06AM	Company Name:	Provisional

REFERRAL REASON: - HEALTH CHECK UP

#### 2D ECHOCARDIOGRAPHY WITH COLOR DOPPLER

#### **M MODE DIMENSIONS: -**

Normal Normal								
IVSD	9.9		6-12	2mm		LVIDS	27.2	20-40mm
LVIDD	41.2		32-57mm		LVPWS	16.3	mm	
LVPWD	10.4		6-12	2mm		AO	30.8	19-37mm
IVSS	17.2		m	ım		LA	32.2	19-40mm
LVEF	62-64		>5	5%		RA	•	mm
	DOPPLER	R MEA	SUREN	1ENTS &	CAL	CULATIONS	<u>:</u>	
STRUCTURE	MORPHOLOGY	VELOCITY (m/s)		GRADIENT		REGURGITATION		
					(mmHg)			
MITRAL	NORMAL	E	0.88	e'				TRIVIAL MR
VALVE			0.76	E/o2		-		
		A	0.76	E/e'				
TRICUSPID	NORMAL		E	0.57		_		NIL
VALVE		A 0.45						
AORTIC	NORMAL	1.13				NIL		
VALVE				-				
PULMONARY	NORMAL		0.	67				NIL
VALVE						-		

#### **COMMENTS & CONCLUSION: -**

- NO RWMA, LVEF 62-64%
- NORMAL LV DIASTOLIC FUNCTIONS
- TRIVIAL MR, OTHER CARDIAC VALVES ARE NORMAL
- ALL CARDIAC CHAMBERS ARE NORMAL
- NO EVIDENCE OF CLOT/VEGETATION/PE
- INTACT IVS/IAS

IMPRESSION: - TRIVIAL MR, NORMAL BI VENTRICULAR FUNCTIONS

DR ROOPAM SHARMA
MBBS, PGDCC, FIAE
CONSULTANT \$ INCHARGE
EMERGENCY, PREVENTIVE CARDIOLOGY AND WELLNESS CENTER.

**Patient Name** Mrs. MANJU SHARMA Lab No 4002093 UHID 40001604 **Collection Date** 17/04/2023 9:16AM 17/04/2023 9:16AM Age/Gender 56 Yrs/Female **Receiving Date Report Date IP/OP Location** O-OPD 17/04/2023 2:23PM **Referred By EHS CONSUTANT Report Status** Final Mobile No. 9828612448

#### **BIOCHEMISTRY**

 Test Name
 Result
 Unit
 Biological Ref. Range

 BLOOD GLUCOSE (FASTING)
 Sample: Fl. Plasma

 BLOOD GLUCOSE (FASTING)
 113.6 H
 mg/dl
 74 - 106

Method: Hexokinase assay.

Interpretation: -Diagnosis and monitoring of treatment in diabetes mellitus and evaluation of carbohydrate metabolism in various diseases.

BLOOD GLUCOSE (PP) Sample: PLASMA

BLOOD GLUCOSE (PP) 145.8 mg/dl Non – Diabetic: - < 140 mg/dl

Pre – Diabetic: - 140-199 mg/dl Diabetic: - >=200 mg/dl

Method: Hexokinase assay.

THYROID T3 T4 TSH Sample: Serum

Т3	1.250	ng/mL	0.970 - 1.690
T4	8.42	ug/dl	5.53 - 11.00
TSH	1.94	μIU/mL	0.40 - 4.05

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Mobile No.	9828612448		

#### **BIOCHEMISTRY**

T3:- Method: ElectroChemiLuminescence ImmunoAssay - ECLIA

Interpretation:-The determination of T3 is utilized in thediagnosis of T3-hyperthyroidism the detection of early stages ofhyperthyroidism and for indicating a diagnosis of thyrotoxicosis factitia.

T4:- Method: ElectroChemiLuminescence ImmunoAssay - ECLIA

Interpretation:-The determination of T4 assay employs acompetitive test principle with an antibody specifically directed against T4.

TSH - THYROID STIMULATING HORMONE :- ElectroChemiLuminescenceImmunoAssay - ECLIA

Interpretation: - The determination of TSH serves as theinitial test in thyroid diagnostics. Even very slight changes in the concentrations of the free thyroid hormones bring about much greater opposite changes in the TSH levels.

LFT (LIVER FUNCTION TEST)				Sample: Serum
BILIRUBIN TOTAL	0.58	mg/dl	0.00 - 1.20	
BILIRUBIN INDIRECT	0.46	mg/dl	0.20 - 1.00	
BILIRUBIN DIRECT	0.12	mg/dl	0.00 - 0.40	
SGOT	30.6	U/L	0.0 - 40.0	
SGPT	42.9 H	U/L	0.0 - 40.0	

g/dl

6.6 - 8.7

ALBUMIN 4.5 g/dl 3.5 - 5.2 **GLOBULIN** 3.1 1.8 - 3.6 ALKALINE PHOSPHATASE 114.0 U/L 39 - 118 A/G RATIO 1.5 Ratio 1.5 - 2.5 GGTP 17.8 U/L 6.0 - 38.0

7.6

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TOTAL PROTEIN

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#### **BIOCHEMISTRY**

**BILIRUBIN TOTAL** :- Method: DPD assay. Interpretation:-Total Bilirubin measurements are used in the diagnosis and treatment of various liver diseases, and of haemolytic and metabolic disorders in adults and newborns. Both obstruction damage to hepatocellular structive.

BILIRUBIN DIRECT :- Method: Diazo method Interpretation:-Determinations of direct bilirubin measure mainly conjugated, water soluble bilirubin.

SGOT - AST :- Method: IFCC without pyridoxal phosphate activation. Interpretation:-SGOT(AST) measurements are used in the diagnosis and treatment of certain types of liver and heart disease.

SGPT - ALT :- Method: IFCC without pyridoxal phosphate activation. Interpretation:-SGPT(ALT) Ratio Is Used For Differential Diagnosis In Liver Diseases.

TOTAL PROTEINS: - Method: Bivret colorimetric assay. Interpretation:-Total protein measurements are used in the diagnosis and treatment of a variety of liver and kidney diseases and bone marrow as well as metabolic and nutritional disorder.

ALBUMIN: - Method: Colorimetric (BCP) assay. Interpretation:-For Diagnosis and monitoring of liver diseases, e.g. liver cirrhosis, nutritional status.

ALKALINE PHOSPHATASE: - Method: Colorimetric assay according to IFCC. Interpretation:-Elevated serum ALT is found in hepatitis, cirrhosis, obstructive jaundice, carcinoma of the liver, and chronic alcohol abuse. ALT is only slightly elevated in patients who have an uncomplicated myocardial infarction. GGTP-GAMMA GLUTAMYL TRANSPEPTIDASE: - Method: Enzymetic colorimetric assay. Interpretation:-y-glutamyltransferase is used in the diagnosis and monitoring of hepatobiliary disease. Enzymatic activity of GGT is often the only parameter with increased values when testing for such diseases and is one of the most sensitive indicator known.

#### LIPID PROFILE

TOTAL CHOLESTEROL	247		<200 mg/dl :- Desirable 200-240 mg/dl :- Borderline >240 mg/dl :- High
HDL CHOLESTEROL	49.7		High Risk :-<40 mg/dl (Male), <40 mg/dl (Female) Low Risk :->=60 mg/dl (Male), >=60 mg/dl (Female)
LDL CHOLESTEROL	175.6		Optimal :- <100 mg/dl Near or Above Optimal :- 100-129 mg/dl Borderline :- 130-159 mg/dl High :- 160-189 mg/dl Very High :- >190 mg/dl
CHOLESTERO VLDL	61 H	mg/dl	10 - 50
TRIGLYCERIDES	307.3		Normal :- <150 mg/dl Border Line:- 150 - 199 mg/dl High :- 200 - 499 mg/dl Very high :- > 500 mg/dl
CHOLESTEROL/HDL RATIO	5.0	%	

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#### **BIOCHEMISTRY**

CHOLESTEROL TOTAL :- Method: CHOD-PAP enzymatic colorimetric assay.

interpretation:-The determination of the individual total cholesterol (TC) level is used for screening purposes while for a better risk assessment it is necessary to measure additionally lipid & lipoprotein metabolic disorders. HDL CHOLESTEROL :- Method:-Homogenous enzymetic colorimetric method.

Interpretation: -HDL-cholesterol has a protective against coronary heart disease, while reduced HDL-cholesterol concentrations, particularly in conjunction with elevated triglycerides, increase the cardiovascular disease. LDL CHOLESTEROL :- Method: Homogenous enzymatic colorimetric assay.

Interpretation:-LDL play a key role in causing and influencing the progression of atherosclerosis and in particular coronary sclerosis. The LDL are derived form VLDL rich in TG by the action of various lipolytic enzymes and are

synthesized in the liver.
CHOLESTEROL VLDL: - Method: VLDL Calculative

Interpretation: -High triglycerde levels also occur in various diseases of liver, kidneys and pancreas.

DM, nephrosis, liver obstruction.

CHOLESTEROL/HDL RATIO :- Method: Cholesterol/HDL Ratio Calculative

RENAL PROFILE TEST Sample: Serum

UREA	12.7 L	mg/dl	16.60 - 48.50
BUN	5.9 L	mg/dl	6 - 20
CREATININE	0.59	mg/dl	0.50 - 0.90
SODIUM	144.6	mmol/L	136 - 145
POTASSIUM	5.42	mmol/L	3.50 - 5.50
CHLORIDE	104.8	mmol/L	98 - 107
URIC ACID	3.77	mg/dl	2.6 - 6.0
CALCIUM	10.47 H	mg/dl	8.60 - 10.30

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#### **BIOCHEMISTRY**

CREATININE - SERUM :- Method: -Jaffe method, Interpretation: -To differentiate acute and chronic kidneydisease.

URIC ACID :- Method: Enzymatic colorimetric assay. Interpretation: - Elevated blood concentrations of uricacid are renal diseases with decreased excretion of waste products, starvation, drug abuse and increased alcohol consume.

SODIUM: - Method: ISE electrode. Interpretation: -Decrease: Prolonged vomiting or diarrhea, diminished reabsorption in the kidney and excessive fluid retention. Increase: excessive fluid loss, high salt intake andkidney reabsorption.

POTASSIUM: - Method: ISE electrode. Intrpretation: -Low level: Intake excessive loss formbodydue to diarrhea, vomiting renal failure. High level: Debydration, shock severe burns. DKA, renalfailure.

renal failure, High level: Dehydration, shock severe burns, DKA, renalfailure.

CHLORIDE - SERUM: - Method: ISE electrode. Interpretation: - Decrease: reduced dietary intake, prolonged vomiting and reduced renal reabsorption as well as forms of acidosisand alkalosis.

Increase: dehydration, kidney failure, some form ofacidosis, high dietary or parenteral chloride intake, and salicylate poisoning.

UREA:- Method: Urease/GLDH kinetic assay. Interpretation:-Elevations in blood urea nitrogenconcentration are seen in inadequate renal perfusion, shock, diminished bloodvolume, chronic nephritis, nephrosclerosis, tubular necrosis, glomerularnephritis and UTI.

CALCIUM TOTAL: - Method: O-Cresolphthaleine complexone. Interpretation:-Increase in serum PTH or vit-D are usually associated with hypercalcemia. Increased serum calcium levels may also be observed in multiple myeloma and other neoplastic diseases. Hypocalcemia may

beobserved in hypoparathyroidism, nephrosis, and pancreatitis.

Sample: WHOLE BLOOD EDTA

HBA1C 4.0 % <5.7% Nondiabetic

5.7-6.4% Pre-diabetic > 6.4% Indicate Diabetes

Known Diabetic Patients
< 7 % Excellent Control
7 - 8 % Good Control
> 8 % Poor Control

Method: - High - performance liquid chromatography HPLC Interpretation:-Monitoring long term glycemic control, testing every 3 to 4 months is generally sufficient. The approximate relationship between HbA1C and mean blood glucose values during the preceding 2 to 3 months.

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#### **BLOOD BANK INVESTIGATION**

Unit **Biological Ref. Range Test Name** Result

**BLOOD GROUPING** "O" Rh Positive

1. Both forward and reverse grouping performed.
2. Test conducted on EDTA whole blood.

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Result

## **CLINICAL PATHOLOGY**

**Biological Ref. Range** 

Unit

rest Name	nesure	Oilit	biological Nett Marige	
URINE SUGAR (POST PRANDIAL)				Sample: Urine
URINE SUGAR (POST PRANDIAL)	NEGATIVE			
URINE SUGAR (RANDOM)				Sample: Urine
URINE SUGAR (RANDOM)	NEGATIVE			
ROUTINE EXAMINATION - URINE				Sample: Urine
PHYSICAL EXAMINATION				
VOLUME	20	ml		
COLOUR	PALE YELLOW		P YELLOW	
APPEARANCE	CLEAR		CLEAR	
CHEMICAL EXAMINATION				
PH	6.0		5.5 - 7.0	
SPECIFIC GRAVITY	1.005		1.016-1.022	
PROTEIN	NEGATIVE		NEGATIVE	
SUGAR	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE	
BLOOD	NEGATIVE			
KETONES	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
UROBILINOGEN	NEGATIVE		NEGATIVE	
LEUCOCYTE	NEGATIVE		NEGATIVE	
MICROSCOPIC EXAMINATION				
WBCS/HPF	1-2	/hpf	0 - 3	
RBCS/HPF	0-0	/hpf	0 - 2	
EPITHELIAL CELLS/HPF	2-3	/hpf	0 - 1	
CASTS	NIL		NIL	
CRYSTALS	NIL		NIL	

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**Test Name** 

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#### **CLINICAL PATHOLOGY**

BACTERIA NIL NIL NIL **OHTERS** NIL

Methodology:-

Methodology:Glucose: GOD-POD, Bilirubin: Diazo-Azo-coupling reaction with a diazonium, Ketone: Nitro Pruside reaction, Specific
Gravity: Proton re;ease from ions, Blood: Psuedo-Peroxidase activity oh Haem moiety, pH: Methye Red-Bromothymol Blue
(Double indicator system), Protein: H+ Release by buffer, microscopic & chemical method.
interpretation: Diagnosis of Kidney function, UTI, Presence of Protein, Glucoses, Blood. Vocubulary syntax: Kit insert

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#### **HEMATOLOGY**

Test Name	Result	Unit	Biological Ref. Rang	ge
CBC (COMPLETE BLOOD COUNT)				Sample: WHOLE BLOOD EDTA
HAEMOGLOBIN	13.6	g/dl	12.0 - 15.0	
PACKED CELL VOLUME(PCV)	42.6	%	36.0 - 46.0	
MCV	84.9	fl	82 - 92	
MCH	27.1	pg	27 - 32	
MCHC	31.9 L	g/dl	32 - 36	
RBC COUNT	5.02 H	millions/cu.mm	3.80 - 4.80	
TLC (TOTAL WBC COUNT)	9.02	10^3/ uL	4 - 10	
DIFFERENTIAL LEUCOCYTE COUNT				
NEUTROPHILS	60.6	%	40 - 80	
LYMPHOCYTE	30.3	%	20 - 40	
EOSINOPHILS	4.2	%	1 - 6	
MONOCYTES	4.5	%	2 - 10	
BASOPHIL	0.4 L	%	1 - 2	
PLATELET COUNT	2.29	lakh/cumm	1.500 - 4.500	

HAEMOGLOBIN :- Method:-SLS HemoglobinMethodology by Cell Counter.Interpretation:-Low-Anemia, High-Polycythemia.

MCV :- Method:- Calculation bysysmex. MCH: - Method: - Calculation bysysmex.
MCHC: - Method: - Calculation bysysmex.

RBC COUNT :- Method:-Hydrodynamicfocusing.Interpretation:-Low-Anemia, High-Polycythemia.

TLC (TOTAL WBC COUNT) :- Method: -Optical Detectorblock based on Flowcytometry. Interpretation: -High-Leucocytosis, Low-Leucopenia.

NEUTROPHILS :- Method: Optical detectorblock based on Flowcytometry  $\textbf{LYMPHOCYTS} : - \ \texttt{Method:} \ \texttt{Optical} \ \texttt{detectorblock} \ \texttt{based} \ \texttt{on} \ \texttt{Flowcytometry}$ EOSINOPHILS :- Method: Optical detectorblock based on Flowcytometry

MONOCYTES :- Method: Optical detectorblock based on Flowcytometry

BASOPHIL :- Method: Optical detectorblock based on Flowcytometry

PLATELET COUNT :- Method:-Hydrodynamicfocusing method.Interpretation:-Low-Thrombocytopenia, High-Thrombocytosis.

HCT: Method:- Pulse Height Detection. Interpretation:-Low-Anemia, High-Polycythemia. NOTE: CH- CRITICAL HIGH, CL: CRITICAL LOW, L: LOW, H: HIGH

ESR (ERYTHROCYTE SEDIMENTATION RATE) 15 mm/1st hr 0 - 15

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Method:-Modified Westergrens.
Interpretation:-Increased in infections, sepsis, and malignancy.

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Test Name Result Unit Biological Ref. Range

#### **USG REPORT - ABDOMEN AND PELVIS**

#### LIVER:

Is normal in size **measure121 mm and diffuse increased echogenicity**. No obvious focal lesion seen. No intra - Hepatic biliary radical dilatation seen.

## **GALL BLADDER:**

**Partially distended** with no obvious wall thickening/pericholecystic fat stranding/fluid. No obvious calculus/polyp/mass seen within.

## PANCREAS:

Appears normal in size and it shows uniform echo texture.

## SPLEEN:

Is normal in size **measure 86 mm** and shows uniform echogenicity.

## **RIGHTKIDNEY:**

Right kidney measures 86 x 45 mm.

The shape, size and contour of the right kidney appear normal.

Corticomedullary differentiation is maintained. No evidence of pelvicalyceal dilatation.

No calculi seen.

## LEFTKIDNEY:

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USG

Left kidney measures 90 x 53 mm.

The shape, size and contour of the left kidney appear normal.

Corticomedullary differentiation is maintained. No evidence of pelvicalyceal dilatation.

No calculi seen.

## **BLADDER:**

Is normal contour. No intra luminal echoes are seen.

## **UTERUS:**

Uterus measures ~ 24 x 39 x 72 mm, anteverted.

Endometrial thickness measures ~ 2 mm.

No focal lesion noted.

#### ADNEXA:

No adnexal mass lesion is seen.

## **RIGHT ILIAC FOSSA:**

No focal fluid collections seen.

## **IMPRESSION:**

Diffuse grade I fatty liver.

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## **USG REPORT - BOTH BREASTS**

## **RIGHT BREAST:**

## Parenchyma

Skin Thickness normal

Sub cutaneous fat normal.

No ductal Dilatation.

No focal lesion seen.

Fibroglandulare echogenicity normal.

Nipple areolar complex normal.

## Retromammary

Retromammary area appeared normal.

## **Axillary Tail**

Axillary Tail: Normal.

# **Axillary Nodes**

Few small volume lymph nodes with intact fatty hilum are seen in right axilla, largest 3 mm in short axis - unlikely to have clinical significance.

## **LEFT BREAST:**

## Parenchyma

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Skin Thickness normal

No ductal Dilatation.

No focal lesion seen.

Fibroglandulare echogenicity normal.

Nipple areolar complex normal.

## Retromammary

Retromammary area appeared normal

## **Axillary Tail**

Axillary Tail: Normal.

## **Axillary Nodes**

Few small volume lymph nodes with intact fatty hilum are seen in right axila, largest 4 mm in short axis - unlikely to have clinical significance.

## **IMPRESSION:**

Right breast parenchyma is normal.

Left breast parenchyma is normal.

Radiologically benign appearing bilateral axillary lymph nodes.

- Suggested clinical correlation for further evaluation.

BI - RADS SCORE IS: RIGHT BREAST: I LEFT BREAST: I

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USG

## NOTE: BI -RADS SCORING KEY

- O Needs additional evaluation, I Negative, II Benign findings, III Probably benign
- IV Suspicious abnormality -Biopsy to be considered, V Highly suggestive of malignancy,
- VI Known biopsy provenmalignancy.

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RADIOLOGIST

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X Ray

Test Name Result Unit Biological Ref. Range

## X-RAY - CHEST PA VIEW

#### **OBSERVATION:**

The trachea is central.

The mediastinal and cardiac silhouette are normal.

Cardiothoracic ratio is normal.

Cardiophrenic and costophrenic angles are normal.

Both hila are normal.

The lung fields are clear.

Bones of the thoracic cage are normal.

Soft tissues of the chest wall are normal.

## **IMPRESSION:**

No significant abnormality seen.

\*\*End Of Report\*\*

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