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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	9.9	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	33.9	%	37 - 47
RBC Count (EDTA Blood/Impedance Variation)	5.27	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	64.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	18.7	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	29.1	g/dL	32 - 36
RDW-CV (Derived from Impedance)	23.1	%	11.5 - 16.0
RDW-SD (Derived from Impedance)	51.74	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	6300	cells/cu.mm	4000 - 11000
Neutrophils (Blood/Impedance Variation & Flow Cytometry)	64.74	%	40 - 75
Lymphocytes (Blood/Impedance Variation & Flow Cytometry)	24.83	%	20 - 45
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	3.68	%	01 - 06



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Monocytes (Blood/Impedance Variation & Flow Cytometry)	6.53	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	0.21	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	4.08	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	1.56	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.23	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.41	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.01	10^3 / μl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	387.3	10^3 / μ1	150 - 450
MPV (Blood/Derived from Impedance)	8.45	fL	8.0 - 13.3
PCT (Automated Blood cell Counter)	0.33	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/Modified Westergren)	43	mm/hr	< 20



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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.4	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.3	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.1	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.1	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.3	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	2.8	gm/dL	2.3 - 3.6
A: G Ratio (Serum/Derived)	1.5		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	17	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	16	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	111	U/L	42 - 98
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	13	U/L	< 38



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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)	127	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	25	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 õusualö"circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/Immunoinhibition)	72	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	50	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	5	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	55.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220



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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

1.8

Optimal: < 3.3
(Serum/Calculated)

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 0.3 Optimal: < 2.5

(TG/HDL) Mild to moderate risk: 2.5 - 5.0

(Serum/Calculated) High Risk: > 5.0

LDL/HDL Cholesterol Ratio 0.7 Optimal: 0.5 - 3.0

(Serum/Calculated)
Borderline: 3.1 - 6.0
High Risk: > 6.0



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/HPLC)	6.0	%	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 125.5 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 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 HbAlc.



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InvestigationObservedUnitBiologicalValueReference Interval

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.17 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 7.64 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) 10.43 µIU/mL 0.35 - 5.50

 $(Serum/{\it Chemiluminescent\ Microparticle}$

Immuno as say (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&lt 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

Pale Yellow

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION

(Urine)

Appearance Clear Clear

(Urine)

Colour

Volume 20 mL

(Urine)

CHEMICAL EXAMINATION(Automated-

<u>Urineanalyser)</u>

pH 5.0 4.5 - 8.0

(Urine/AUTOMATED URINANALYSER)

Specific Gravity 1.015 1.002 - 1.035

(Urine)

Ketones Negative Negative

(Urine)

Urobilinogen 0.2 0.2 - 1.0

(Urine/AUTOMATED URINANALYSER)

Blood Negative Negative

(Urine/AUTOMATED URINANALYSER)

Nitrite Negative Negative

(Urine/AUTOMATED URINANALYSER)

Bilirubin Negative Negative

(Urine/AUTOMATED URINANALYSER)

Protein Negative Negative

(Urine)



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



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<u>Value</u> <u>Reference Interval</u>

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING 'O' 'Positive'

(EDTA Blood/Agglutination)

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



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BIOCHEMISTRY			
BUN / Creatinine Ratio	107.6		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	115	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)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD - POD)	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 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)	9 mg/dL	7.0 - 21
Creatinine (Serum/Jaffe Kinetic)	0.7 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 4.5 mg/dL 2.6 - 6.0

(Serum/Uricase/Peroxidase)



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-- End of Report --

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
Ref Doctor Name	MediWheel		

X-ray mammogram (mediolateral oblique & craniocaudal views).

BILATERAL MAMMOGRAPHY

Breast composition Type B (These are scattered areas of fibroglandular density).

Asymmetric breast density in the left central breast.

Suspicious rounded mildly dense lesion is noted in the left central breast in the MLO view.

No evidence of cluster microcalcification.

Subcutaneous fat deposition is within normal limits.

Subcentimeter bilateral axillary lymph nodes are seen.

IMPRESSION:

- Suspicious rounded mildly dense lesion in the left central breast in the MLO view.
- Asymmetric breast density in the left central breast.

Note: Patient was not willing for correlative sonomammogram.

ASSESSMENT: BI-RADS CATEGORY -0

BI-RADS CLASSIFICATION

CATEGORY RESULT

O Assessment incomplete. Need additional imaging evaluation.

DR. H.K. ANAND DR. C.R RAMACHANDRA DR. LOHITH H.P

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
Ref Doctor Name	MediWheel		

CONSULTANT RADIOLOGISTS

Cr/ra

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
Ref Doctor Name	MediWheel		

ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in shape, size (12.5cm) and has uniform 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. Wall is of normal thickness. CBD is of normal calibre.

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

SPLEEN show normal shape, size (11.0cm) and echopattern.

No demonstrable Para-aortic lymphadenopathy.

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:

The money measures	Bipolar length (cm)	Parenchymal thickness (cm)
Right Kidney	11.2	1.9
Left Kidney	11.6	1.8

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

UTERUS is anteverted and has normal shape and size. It has uniform myometrial echopattern. Endometrial echo is of normal thickness - 7 mm.

Uterus measures LS: 6.8 cm AP: 4.1cm TS: 5.1 cm.

Nabothian cysts are seen in the cervical region.

OVARIES are normal in size, shape and echotexture

POD & adnexa are free.

No evidence of ascites.

IMPRESSION:

• No significant abnormality detected.

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
Ref Doctor Name	MediWheel		

DR. H.K. ANAND

DR. C.R RAMACHANDRA

DR. LOHITH H.P

CONSULTANT RADIOLOGISTS

Lh/sm

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
Ref Doctor Name	MediWheel		

2D ECHOCARDIOGRAPHIC STUDY

M-mode measurement:

AORTA 2.62 cms. LEFT ATRIUM : 3.05 cms. AVS : 1.48 cms. LEFT VENTRICLE (DIASTOLE) 4.48 cms. (SYSTOLE) 2.90 cms. **VENTRICULAR SEPTUM** (DIASTOLE) 1.04 cms. (SYSTOLE) 1.37 cms.

POSTERIOR WALL :

(DIASTOLE) 1.04 cms. (SYSTOLE) 1.42 cms. **EDV** 91 ml. **ESV** 32 ml. FRACTIONAL SHORTENING 30 % **EJECTION FRACTION** 60 % :

EPSS : -- cms. RVID : 1.80 cms.

DOPPLER MEASUREMENTS:

MITRAL VALVE: $E - 0.8 \text{ m/s} \quad A - 0.7 \text{ m/s}$ NO MR.

AORTIC VALVE: 1.1 m/s NO AR.

TRICUSPID VALVE: E - 0.4 m/s A - 0.3 m/s NO TR.

PULMONARY VALVE: 0.8 m/s NO PR.

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
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2D ECHOCARDIOGRAPHY FINDINGS:

Left Ventricle : Normal size, Normal systolic function.

: No regional wall motion abnormalities.

Left Atrium : Normal.

Right Ventricle : Normal.

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.

DR. ANAND KUMAR M MD DM

Name	MRS.SHOBHA H G	ID	MED120983569
Age & Gender	41Y/FEMALE	Visit Date	19 Apr 2022
Ref Doctor Name	MediWheel		

CONSULTANT INTERVENTIONAL CARDIOLOGIST

Name	SHOBHA H G	Customer ID	MED120983569
Age & Gender	41Y/F	Visit Date	Apr 19 2022 7:34AM
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.

DR. H.K. ANAND

DR. C.R. RAMACHANDRA

CONSULTANT RADIOLOGISTS

DR. VARSHA KALE

DR. LOHITH H.P