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Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	13.61	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	42.1	%	37 - 47
RBC Count (EDTA Blood)	4.75	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood)	88.7	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	28.7	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	32.3	g/dL	32 - 36
RDW-CV (EDTA Blood)	13.7	%	11.5 - 16.0
RDW-SD (EDTA Blood)	42.53	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	10300	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	66.74	%	40 - 75
Lymphocytes (EDTA Blood)	24.65	%	20 - 45
Eosinophils (EDTA Blood)	3.04	%	01 - 06









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Monocytes (EDTA Blood)	5.07	%	01 - 10
Basophils (EDTA Blood)	0.50	%	00 - 02
INTERPRETATION: Tests done on Automated Five Pa	art cell counter. All	abnormal results are	reviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	6.87	10^3 / μ1	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	2.54	10^3 / μ1	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.31	10^3 / μ1	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.52	$10^3 / \mu l$	< 1.0
Absolute Basophil count (EDTA Blood)	0.05	$10^3 / \mu l$	< 0.2
Platelet Count (EDTA Blood)	360.1	$10^3 / \mu l$	150 - 450
MPV (EDTA Blood)	7.95	fL	8.0 - 13.3
PCT (EDTA Blood/Automated Blood cell Counter)	0.29	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (EDTA Blood)	24	mm/hr	< 20









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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	93.30	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)	Negative		Negative
(Urine - F/GOD - POD)			
Glucose Postprandial (PPBS)	165.47	mg/dL	70 - 140

(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)	Trace		Negative
(Urine - PP)			
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	5.9	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	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 4.64 mg/dL 2.6 - 6.0 (Serum/Enzymatic)











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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
BIOCHEMISTRY	, 		
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.62	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.25	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.37	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC</i>)	25.40	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	30.19	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	42.81	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	55.6	U/L	42 - 98
Total Protein (Serum/Biuret)	6.79	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.18	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.61	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.60		1.1 - 2.2









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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	116.29	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	58.78	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.

1			
HDL Cholesterol (Serum/Immunoinhibition)	27.34	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	77.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	11.8	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	89.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220









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

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 4.3 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 Optimal: < 2.52.1

(TG/HDL)

Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0(Serum/Calculated)

2.8 Optimal: 0.5 - 3.0 LDL/HDL Cholesterol Ratio

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









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Investigation Glycosylated Haemoglobin (HbA1c)	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
HbA1C (Whole Blood/HPLC)	5.7	%	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 116.89 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

BIOCHEMISTRY

BUN / Creatinine Ratio 9.8 6.0 - 22.0





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	Value		Reference Interval

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IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.29 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 8.50 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) 0.797 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&lt 0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.











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

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION (URINE COMPLETE)

Colour Yellow Yellow Yellow to Amber

(Urine)

Appearance Clear Clear

(Urine)

Volume(CLU) 30

(Urine)

CHEMICAL EXAMINATION (URINE

<u>COMPLETE)</u>

pH 5.0 4.5 - 8.0

(Urine)

Specific Gravity 1.015 1.002 - 1.035

(Urine)

Ketone Negative Negative

(Urine)

Urobilinogen Normal Normal

(Urine)

Blood Trace Negative

(Urine)

Nitrite Negative Negative

(Urine)

Bilirubin Negative Negative

(Urine)

Protein Negative Negative

(Urine)











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Glucose	Negative	Negative

(Urine/GOD - POD)

Leukocytes(CP) Positive(+)

(Urine)

<u>MICROSCOPIC EXAMINATION</u> (URINE COMPLETE)

Pus Cells 2-5 /hpf NIL

(Urine)

Epithelial Cells 0-2 /hpf NIL

(Urine)

RBCs 1-3 /HPF NIL

(Urine)

Others (Urine) NIL

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

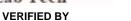
Casts NIL /hpf NIL

(Urine)

Crystals NIL /hpf NIL

(Urine)













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IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING 'B' 'Positive'

(EDTA Blood/Agglutination)





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APPROVED BY

-- End of Report --

Name	MS.DIVYASHREE K	ID	MED112006027
Age & Gender	33Y/FEMALE	Visit Date	23 Dec 2023
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	MS.DIVYASHREE K	ID	MED112006027
Age & Gender	Gender 33Y/FEMALE		23 Dec 2023
Ref Doctor Name	MediWheel		

Doppler Echocardiography

Mitral	Е	0.87	m/sec	A	0.74	m/sec	E/a: 1.18
valve							
Aortic Valve	V max	1.7	m/sec	PG	11.5	mm	
Diastolic Dysfunction				NONE			

:2:

M - Mode Measurement

Parameter	Observed Valve	Normal Range	
Aorta	23	26-36	Mm
Left Atrium	24	27-38	Mm
IVS	11	09-11	Mm
Left Ventricle - Diastole	44	42-59	Mm
Posterior wall - Diastole	11	09-11	Mm
IVS - Systole	15	13 - 15	Mm
Left Ventricle -Systole	26	21-40	Mm
Posterior Wall - Systole	15	13-15	Mm
Ejection Fraction	60	->50	%

IMPRESSION:***POOR ECHO WINDOW ****

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

Name	MS.DIVYASHREE K	ID	MED112006027
Age & Gender	Age & Gender 33Y/FEMALE		23 Dec 2023
Ref Doctor Name	MediWheel		

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

(TACHYCARDIA OBSERVED DURING THE STUDY)

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

Name	MS.DIVYASHREE K	ID	MED112006027
Age & Gender	ge & Gender 33Y/FEMALE		23 Dec 2023
Ref Doctor Name	MediWheel		

ABDOMINO-PELVIC ULTRASONOGRAPHY (Study is suboptimal due to excessive bowel gas)

LIVER is normal in shape, size and has increased echopattern.

Two small well-defined heterogeneously hypoechoic lesions is noted measuring 12 x 9mm in left lobe of liver and 13 x 10mm in segment VI. No significant vascularity on colour Doppler. No evidence of intrahepatic biliary ductal dilatation.

Hepatic and portal vein radicals are normal.

GALL BLADDER is minimally distended.

PANCREAS visualized portion of body appear normal.

Head and tail are 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	10.4	1.0
Left Kidney	10.7	1.1

URINARY BLADDER show normal shape and wall thickness.

It has clear contents.

UTERUS is anteverted and bulky in size.

Small anterior wall seedling fibroid measuring 8 x 7mm

Endometrium is thickened and measures 13.7mms.

Uterus measures as follows:

LS: 8.2cms AP: 3.9cms TS: 5.8cms.

..2

Name	MS.DIVYASHREE K	ID	MED112006027
Age & Gender	Gender 33Y/FEMALE		23 Dec 2023
Ref Doctor Name	MediWheel		

:2:

OVARIES are bulky in size and show central echogenic stroma with multiple tiny peripherally arranged follicles suggestive of polycystic morphology.

Ovaries measures as follows:

Right ovary: 3.9 x 2.6 x 2.2cms, vol - 12.8cc. Left ovary: 3.5 x 2.6 x 2.8cms, vol - 14.0cc.

POD & adnexa are free.

No evidence of ascites.

Impression:

- Grade II fatty change in the liver.
- Two small well-defined heterogeneously hypoechoic lesions in left lobe and segment VI of liver as described.

Sugg: Triple phase CECT abdomen and pelvis for characterization of lesion.

- Bulky uterus with seedling fibroid.
- Thickened endometrium.
- Bilateral polycystic ovarian morphology.

Name	MS.DIVYASHREE K	ID	MED112006027
Age & Gender	nder 33Y/FEMALE		23 Dec 2023
Ref Doctor Name	MediWheel		

Sugg: Clinical correlation with hormonal assay.

Note: No previous reports available for comparison.

DR. HITHISHINI H CONSULTANT RADIOLOGIST

Name	Ms. DIVYASHREE K	Customer ID	MED112006027
Age & Gender	33Y/F	Visit Date	Dec 23 2023 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: Essentially normal study.

Dr.H.Hithishini MBBS.,MD.,DNB Consultant Radiologist

Hithish: 1