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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)	16.1	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	49.1	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	5.30	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	93.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	30.3	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	32.7	g/dL	32 - 36
RDW-CV (Derived from Impedance)	13.7	%	11.5 - 16.0
RDW-SD (Derived from Impedance)	44.59	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	5220	cells/cu.mm	4000 - 11000
Neutrophils (Blood/Impedance Variation & Flow Cytometry)	41.94	%	40 - 75
Lymphocytes (Blood/Impedance Variation & Flow Cytometry)	46.16	%	20 - 45
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	3.43	%	01 - 06







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Monocytes (Blood/Impedance Variation & Flow Cytometry)	8.15	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	0.32	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.19	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.41	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.18	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.43	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.02	10^3 / μl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	150.8	10^3 / μl	150 - 450
MPV (Blood/Derived from Impedance)	11.99	fL	7.9 - 13.7
PCT (Automated Blood cell Counter)	0.18	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/Modified Westergren)	2	mm/hr	< 15



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Investigation BIOCHEMISTRY	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.3	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.2	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.1	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	8.2	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	5.0	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	3.2	gm/dL	2.3 - 3.6
A: G Ratio (Serum/Derived)	2.2		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	46	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	42	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	102	U/L	53 - 128
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	92	U/L	< 55



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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)	179	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	179	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)	37	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	106.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	35.8	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	142.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220



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

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.

: 07/03/2022 4:33 PM

Total Cholesterol/HDL Cholesterol Ratio 4.8 Optimal: < 3.3Low Risk: 3.4 - 4.4 (Serum/Calculated)

Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0

Triglyceride/HDL Cholesterol Ratio Optimal: < 2.54.8

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

High Risk: > 5.0(Serum/Calculated)

LDL/HDL Cholesterol Ratio 2.9 Optimal: 0.5 - 3.0

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



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<u>Investigation</u>	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/HPLC)	5.5	%	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 111.15 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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Printed On : 07/03/2022 4:33 PM : MediWheel

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

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.20 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 8.86 μg/dL

(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.

 $\mu IU/mL$ 0.35 - 5.50TSH (Thyroid Stimulating Hormone) 2.98

(Serum/Chemiluminescent Microparticle

Immunoassay(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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4.2 - 12.0

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

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION

Colour Pale Yellow

(Urine)

Clear Clear Appearance

(Urine)

20 Volume mL

(Urine)

CHEMICAL EXAMINATION(Automated-

<u>Urineanalyser)</u>

pΗ 6.5 4.5 - 8.0

(Urine/AUTOMATED URINANALYSER)

1.025 1.002 - 1.035Specific Gravity

(Urine)

Ketones Negative Negative

(Urine)

0.2 0.2 - 1.0 Urobilinogen

(Urine/AUTOMATED URINANALYSER)

Blood Negative Negative

(Urine/AUTOMATED URINANALYSER)

Negative Negative

(Urine/AUTOMATED URINANALYSER)

Bilirubin Negative Negative

(Urine/AUTOMATED URINANALYSER)

Negative Negative Protein

(Urine)



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Glucose (Urine)	Negative		Negative
Leukocytes (Urine) MICROSCOPY(URINE DEPOSITS)	Negative	leuco/uL	Negative
Pus Cells (Urine/Flow cytometry)	2-3	/hpf	3-5
Epithelial Cells (Urine)	0-2	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	2-3
Others (Urine)	Nil		Nil



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InvestigationObservedUnitBiologicalValueReference Interval

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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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
BUN / Creatinine Ratio	5.3		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	78	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

: 07/03/2022 4:33 PM

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)
Glucose Postprandial (PPBS) 98 mg/dL 70 - 140
(Plasma - PP/GOD - POD)

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.

Blood Urea Nitrogen (BUN) 8 mg/dL 7.0 - 21 (Serum/Urease-GLDH)

Creatinine 1.5 mg/dL 0.9 - 1.3 (Serum/Jaffe Kinetic)

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

Uric Acid **8.9** mg/dL 3.5 - 7.2

(Serum/Uricase/Peroxidase)



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-- End of Report --

Name	MR.MUNENDRA N	ID	MED120841319
Age & Gender	39Y/MALE	Visit Date	26 Feb 2022
Ref Doctor Name	MediWheel	-	

ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in shape, size (14.2cm) and has uniform echopattern. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER is contracted. Grossly appears normal.

CBD is of normal calibre.

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

SPLEEN shows 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:

-	Bipolar length (cm)	Parenchymal thickness (cm)
Right Kidney	8.5	1.3
Left Kidney	9.5	2.0

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

PROSTATE shows normal shape, size and echopattern. It measures 3.4 x 2.8 x 3.2cm volume: 16 cc.

No evidence of ascites.

IMPRESSION:

• No significant abnormality detected.

DR. H.K. ANAND DR. C.R RAMACHANDRA DR. LOHITH H.P DR. VARSHA KALE CONSULTANT RADIOLOGISTS

Vk/sm

Name	MR.MUNENDRA N	ID	MED120841319
Age & Gender	39Y/MALE	Visit Date	26 Feb 2022
Ref Doctor Name	MediWheel	-	

Name	MR.MUNENDRA N	ID	MED120841319
Age & Gender	39Y/MALE	Visit Date	26 Feb 2022
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2D ECHOCARDIOGRAPHIC STUDY

M-mode measurement:

AORTA 2.61 cms. LEFT ATRIUM 3.20 cms. **AVS** 1.48 cms. LEFT VENTRICLE (DIASTOLE) 4.86 cms. (SYSTOLE) 2.75 cms. **VENTRICULAR SEPTUM** (DIASTOLE) 0.99 cms. (SYSTOLE) 1.31 cms. **POSTERIOR WALL** (DIASTOLE) 0.90 cms. (SYSTOLE) 1.44 cms. **EDV** 110 ml. **ESV** 28 ml. FRACTIONAL SHORTENING 30 % **EJECTION FRACTION** 60 % **EPSS** cms. **RVID** 1.81 cms.

DOPPLER MEASUREMENTS:

MITRAL VALVE: E - 0.7 m/s A - 0.6 m/s TRIVIAL MR.

AORTIC VALVE: 1.2 m/s NO AR.

TRICUSPID VALVE: E - 0.4 m/s A - 0.3 m/s TRIVIAL TR, PASP 10mmHg.

PULMONARY VALVE: 0.8 m/s NO PR.

Name	MR.MUNENDRA N	ID	MED120841319
Age & Gender	39Y/MALE	Visit Date	26 Feb 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. YASHODA RAVI CONSULTANT CARDIOLOGIST

Name	MR.MUNENDRA N	ID	MED120841319
Age & Gender	39Y/MALE	Visit Date	26 Feb 2022
Ref Doctor Name	MediWheel	-	



Name	MUNENDRA N	ID	MED120841319
Age & Gender	39Y/M	Visit Date	Feb 26 2022 10:10AM
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

DR. VARSHA KALE

DR. LOHITH H.

CONSULTANT RADIOLOGISTS