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Investigation  HAEMATOLOGY	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	12.4	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	37.0	%	37 - 47
RBC Count (EDTA Blood)	3.93	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood)	94.2	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	31.6	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	33.5	g/dL	32 - 36
RDW-CV	13.0	%	11.5 - 16.0
RDW-SD	42.86	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	5700	cells/cu.mm	4000 - 11000
Neutrophils (Blood)	55.5	%	40 - 75
Lymphocytes (Blood)	34.3	%	20 - 45
Eosinophils (Blood)	2.9	%	01 - 06
Monocytes (Blood)	6.4	%	01 - 10



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Basophils	0.9	%	00 - 02
(Blood)			
<b>INTERPRETATION:</b> Tests done on Automated Five F	Part cell counter. All a	abnormal results are	reviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	3.16	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	1.96	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.17	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.36	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood)	0.05	10^3 / μl	< 0.2
Platelet Count (EDTA Blood)	271	10^3 / μl	150 - 450
MPV (Blood)	7.2	fL	8.0 - 13.3
PCT (Automated Blood cell Counter)	0.20	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood)	11	mm/hr	< 30



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Investigation  N.O. GALLEN MACHENIA	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.31	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.11	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.20	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	20.86	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	5.85	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	33.49	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	44.4	U/L	53 - 141
Total Protein (Serum/Biuret)	7.16	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	5.16	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.00	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	2.58		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)	137.30	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	148.59	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.

part of the day.			
HDL Cholesterol (Serum/Immunoinhibition)	38.17	mg/dL	Optimal(Negative Risk Factor): >= 60  Borderline: 50 - 59  High Risk: < 50
LDL Cholesterol (Serum/Calculated)	69.4	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	29.7	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	99.1	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220



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InvestigationObservedUnitBiologicalValueReference 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.

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Total Cholesterol/HDL Cholesterol Ratio

(Serum/Calculated)

3.6

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 3.9 Optimal: < 2.5

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

(Serum/Calculated) High Risk: > 5.0

LDL/HDL Cholesterol Ratio 1.8 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/ <i>HPLC</i> )	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 HbAlC 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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### **IMMUNOASSAY**

#### THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.36 ng/ml 0.4 - 1.81

(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.

T4 (Tyroxine) - Total 7.47  $\mu$ g/dl 4.2 - 12.0

(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) 4.51 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&amplt 0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



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

# **CLINICAL PATHOLOGY**

### PHYSICAL EXAMINATION (URINE **COMPLETE**)

Colour Pale yellow Yellow to Amber

(Urine)

Clear Clear Appearance

(Urine)

Volume(CLU) 35

(Urine)

CHEMICAL EXAMINATION (URINE

**COMPLETE**)

pН 5.0 4.5 - 8.0

(Urine)

1.010 1.002 - 1.035 Specific Gravity

(Urine)

Negative Negative Ketone

(Urine)

Normal Normal Urobilinogen

(Urine)

Blood Negative Negative

(Urine)

Negative Negative Nitrite

(Urine)

Bilirubin Negative Negative

(Urine)

Negative Protein Negative

(Urine)



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Glucose (Urine/GOD - POD)	Negative		Negative
Leukocytes(CP) (Urine)	Negative		Negative
MICROSCOPIC EXAMINATION (URINE COMPLETE)			
Pus Cells (Urine)	0-2	/hpf	NIL
Epithelial Cells (Urine)	1-3	/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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InvestigationObservedUnitBiologicalValueReference Interval

# **IMMUNOHAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING 'B' 'Positive'

(EDTA Blood/Agglutination)

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

Dr.Arjun C.P MBBS,MD Pathology Res NorkMC 89655

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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	6.4		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	94.71	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)	95.30	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) (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	4.2	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.66	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 4.18 mg/dL 2.6 - 6.0 (Serum/Enzymatic)



**APPROVED BY** 

-- End of Report --

Patient -Name	Geetha en	Date	25/2/23
Age	51 Y	Visit Number	522302924
Sex	Finale	Corporate	mediuheel

# **GENERAL PHYSICAL EXAMINATION**

Identification Mark:
----------------------

mole over din.

\* Height:

LU8

cms

Weight:

68.6

kgs

Pulse:

85/minute

**Blood Pressure:** 

119170

mm of Hg

BMI

31.3

**BMI INTERPRETATION** 

Underweight = <18.5

Normal weight = 18.5-24.9

Overweight = 25-29.9

Chest:

Expiration:

34

cms

Inspiration:

97

cms

Abdomen Measurement :

36

cms

Eyes:

rormal.

Ears:

Normal

Throat :

none

Neck nodes :

west med

RS:

NUBS

CVS:

5. 3: +

PA:

NAD

CNS:

NAD

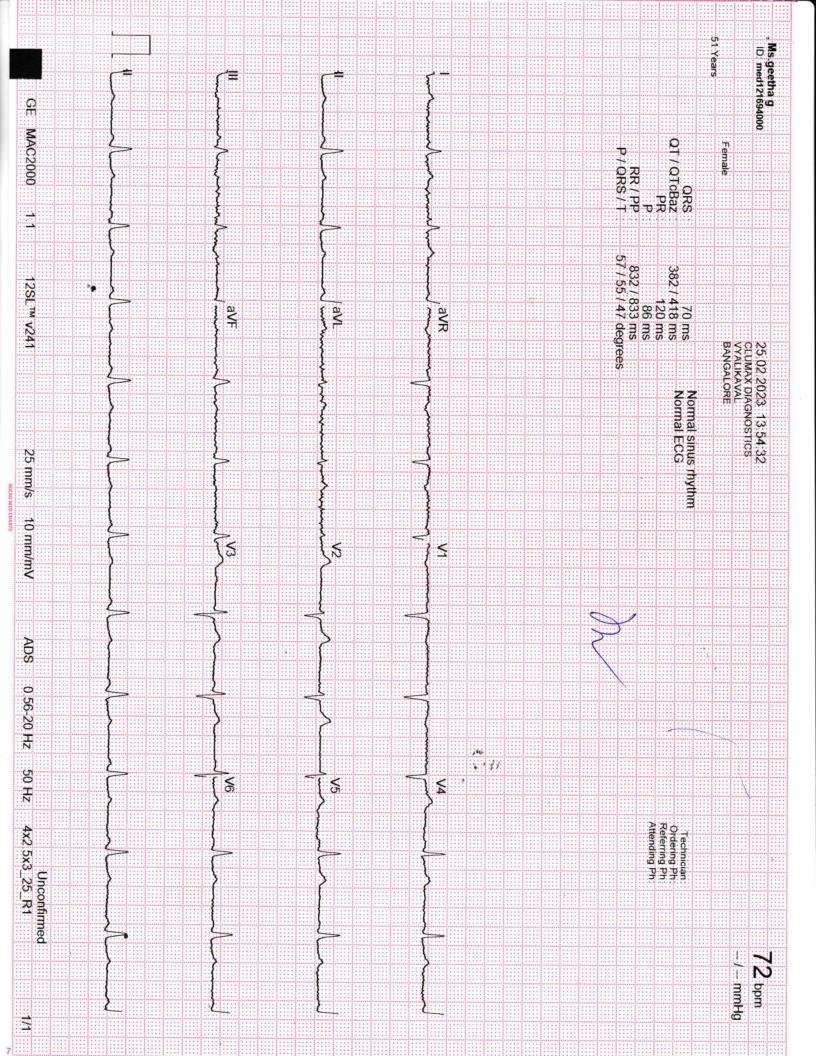
No abnormality is detected. His / Her general physical examination is within normal limits.

NOTE : MEDICAL FIT FOR EMPLOYMENT YES / NO

1c. R. S. Markay.

Signature

Dr. SHANKAR K.R.S.



Name	MRS.GEETHA G	ID	MED121694000
Age & Gender	51Y/FEMALE	Visit Date	25 Feb 2023
Ref Doctor Name	MediWheel		

# **BILATERAL SONOMAMMOGRAPHY**

Both the breasts show normal echopattern.

No evidence of focal solid / cystic areas.

No evidence of ductal dilatation.

Bilateral axillary lymphnodes are noted with preserved fatty hilum.

# **IMPRESSION:**

- No breast lesions.
- Bilateral benign axillary lymphnodes.

DR. HEMANANDINI V.N CONSULTANT RADIOLOGIST Hn/Lr

Name	MRS.GEETHA G	ID	MED121694000
Age & Gender	51Y/FEMALE	Visit Date	25 Feb 2023
Ref Doctor Name	MediWheel		

### ABDOMINO-PELVIC ULTRASONOGRAPHY

**LIVER** is normal in shape, size (11.4cms) and has uniform echopattern. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

### **GALL BLADDER** is partially distended.

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 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:

THE HIGHE HIGHER WE TO THE WEY			
	Bipolar length (cms)	Parenchymal thickness (cms)	
Right Kidney	9.2	1.4	
Left Kidney	10.0	1.7	

**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 - 6.9mm.

Uterus measures LS: 5.8cms AP: 4.7cms TS: 5.1cms.

**OVARIES** are normal in size, shape and echotexture Right ovary measures 2.8 x 2.3cms, show dominant follicle. Left ovary measures 2.3 x 2.1cms.

POD & adnexa are free. No evidence of ascites.

### **IMPRESSION:**

• No significant abnormality detected.

Name	MRS.GEETHA G	ID	MED121694000
Age & Gender	51Y/FEMALE	Visit Date	25 Feb 2023
Ref Doctor Name	MediWheel		

DR. HEMANANDINI V.N CONSULTANT RADIOLOGIST Hn/Lr

Name	MRS.GEETHA G	ID	MED121694000
Age & Gender	51Y/FEMALE	Visit Date	25 Feb 2023
Ref Doctor Name	MediWheel		

### 2D ECHOCARDIOGRAPHIC STUDY

### **M-mode measurement:**

AORTA : cms.

LEFT ATRIUM : cms.

AVS : cms.

LEFT VENTRICLE

(DIASTOLE) : cms. (SYSTOLE) : cms.

**VENTRICULAR SEPTUM** :

(DIASTOLE) : cms. (SYSTOLE) : cms.

POSTERIOR WALL

(DIASTOLE) : cms. (SYSTOLE) : cms.

EDV : ml.

ESV : ml.

FRACTIONAL SHORTENING : %

EJECTION FRACTION : %

EPSS : cms. RVID : cms.

**DOPPLER MEASUREMENTS:** 

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

AORTIC VALVE: m/s NO AR.

TRICUSPID VALVE: E - m/s A - m/s TRIVIAL TR.PASP-15mmHg

PULMONARY VALVE: m/s NO PR.

Name	MRS.GEETHA G	ID	MED121694000
Age & Gender	51Y/FEMALE	Visit Date	25 Feb 2023
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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

Name	MRS.GEETHA G	ID	MED121694000
Age & Gender	51Y/FEMALE	Visit Date	25 Feb 2023
Ref Doctor Name	MediWheel		

# CONSULTANT CARDIOLOGIST