PID No.
 : MED112118696
 Register On
 : 16/03/2024 7:43 AM

 SID No.
 : 924007084
 Collection On
 : 16/03/2024 7:52 AM

 Age / Sex
 : 35 Year(s) / Female
 Report On
 : 16/03/2024 4:52 PM

 Type
 : 0P
 Printed On
 : 17/03/2024 11:31 AM

Ref. Dr : MediWheel

<u>Investigation</u>	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>HAEMATOLOGY</b>			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	13.3	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	40.3	%	37 - 47
RBC Count (EDTA Blood)	5.14	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood)	78.4	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	26.0	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	33.1	g/dL	32 - 36
RDW-CV (EDTA Blood)	14.9	%	11.5 - 16.0
RDW-SD (EDTA Blood)	40.89	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	9600	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	69.2	%	40 - 75
Lymphocytes (EDTA Blood)	23.3	%	20 - 45
Eosinophils (EDTA Blood)	1.2	%	01 - 06
Monocytes (EDTA Blood)	6.0	%	01 - 10







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Basophils (EDTA Blood)	0.3	%	00 - 02
INTERPRETATION: Tests done on Automated Five P	art cell counter. All	abnormal results are r	eviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	6.64	10^3 / μ1	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	2.24	10^3 / μ1	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.12	10^3 / μ1	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.58	10^3 / μ1	< 1.0
Absolute Basophil count (EDTA Blood)	0.03	10^3 / μ1	< 0.2
Platelet Count (EDTA Blood)	282	10^3 / μ1	150 - 450
MPV (EDTA Blood)	9.9	fL	8.0 - 13.3
PCT (EDTA Blood/Automated Blood cell Counter)	0.28	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (EDTA Blood)	5	mm/hr	< 20







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Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	93.83	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)	177.28	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)	<b>3.9</b> mg/	/dL 7.0 - 21
Creatinine	0.64 mg	/dL 0.6 - 1.1

(Serum/Modified Jaffe)

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 4.67 mg/dL 2.6 - 6.0(Serum/Enzymatic)







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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.38	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.20	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.18	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	16.52	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	18.23	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	14.83	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	66.1	U/L	42 - 98
Total Protein (Serum/Biuret)	7.30	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.63	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.67	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.73		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)	167.39	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	129.10	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)	30.13	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	111.5	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	25.8	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	137.3	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220







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LDL/HDL Cholesterol Ratio

(Serum/Calculated)

Investigation Observed Unit Biological 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 (Serum/Calculated)	5.6	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 (TG/HDL) (Serum/Calculated)	4.3	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0

3.7







Optimal: 0.5 - 3.0

Borderline: 3.1 - 6.0

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)	5.8	%	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 119.76 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 HbAlc.







**APPROVED BY** 

PID No. : MED112118696 **Register On** : 16/03/2024 7:43 AM : 924007084 Collection On : 16/03/2024 7:52 AM SID No. Age / Sex : 35 Year(s) / Female Report On : 16/03/2024 4:52 PM **Printed On** : 17/03/2024 11:31 AM

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

**BIOCHEMISTRY** 

BUN / Creatinine Ratio 6.0 6.0 - 22.0





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

#### **IMMUNOASSAY**

#### THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 0.957 ng/ml 0.7 - 2.04

(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 7.99 μg/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) 2.07 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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InvestigationObservedUnitBiologicalValueReference Interval

## **CLINICAL PATHOLOGY**

# PHYSICAL EXAMINATION (URINE COMPLETE)

Colour Pale yellow Yellow to Amber

(Urine)

Appearance Clear Clear

(Urine)

Volume(CLU) 25

(Urine)

CHEMICAL EXAMINATION (URINE

<u>COMPLETE</u>)

pH 5.5 4.5 - 8.0

(Urine)

Specific Gravity 1.004 1.002 - 1.035

(Urine)

Ketone Negative Negative

(Urine)

Urobilinogen Normal Normal

(Urine)

Blood Negative Negative

(Urine)

Nitrite Negative Negative

(Urine)

Bilirubin Negative Negative

(Urine)

Protein Negative Negative

(Urine)







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Investigation	<u>Observed</u> <u>Unit</u> <u>Value</u>	<u>Biological</u> <u>Reference Interval</u>
Glucose	Negative	Negative
(Urine/GOD - POD)		

Leukocytes(CP) Negative

(Urine)

MICROSCOPIC EXAMINATION (URINE COMPLETE)

Pus Cells	0-1	/hpf	NIL

(Urine)

0-1 /hpf NIL **Epithelial Cells** 

(Urine)

**NIL RBCs NIL** /hpf

(Urine) Others NIL

(Urine)

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

NIL Casts NIL /hpf

(Urine)

NIL /hpf NIL Crystals

(Urine)







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Investigation

: OP

Report On : 16/03/2024 4:52 PM **Printed On** : 17/03/2024 11:31 AM

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

## **IMMUNOHAEMATOLOGY**

BLOOD GROUPING AND Rh TYPING

'AB' 'Positive'

(EDTA Blood/Agglutination)







-- End of Report --



Name	MS.SARALA	ID .	MED112118696
Age & Gender	35Y/FEMALE	Visit Date	16/03/2024
Ref Doctor	MediWheel	THE PARTY OF THE PARTY	

#### **2D ECHOCARDIOGRAPHY**

#### Chambers

• Left ventricle: normal in size, No RWMA at Rest.

Left Atrium : NormalRight Ventricle : NormalRight Atrium : Normal

#### Septa

IVS : Intact IAS : Intact

#### Valves

Mitral Valve : Normal.

Tricuspid Valve: Normal, trace TR, No PAHAortic valve: Tricuspid, Normal Mobility

Pulmonary Valve : Normal

#### **Great Vessels**

Aorta : Normal

Pulmonary Artery : Normal

Pericardium: Normal

## **Doppler Echocardiography**

Mitral valve	Е	0.85	m/sec	A	0.68	m/sec	E/a: 1.25
Aortic Valve	V max	1.4	m/sec	PG	7.8	mm	
Diastolic I	Dysfunction				NONE		





Name	MS.SARALA	ID	MED112118696
Age & Gender	35Y/FEMALE	Visit Date	16/03/2024
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:2:

#### M - Mode Measurement

Parameter	Observed Valve	Normal Range	
Aorta	25	26-36	Mm
Left Atrium	26	27-38	Mm
IVS	11	09-11	Mm
Left Ventricle - Diastole	46	42-59	Mm
Posterior wall - Diastole	11	09-11	Mm
IVS - Systole	15	13 - 15	Mm
Left Ventricle - Systole	28	21-40	Mm
Posterior Wall - Systole	15	13-15	Mm
Ejection Fraction	60	->50	%

### **IMPRESSION:**

- NORMAL SIZED CARDIAC VALVES AND CHAMBERS
- NO RWMA'S AT REST
- NORMAL LV & RV SYSTOLIC FUNCTION LVEF 60%
- NORMAL DIASTOLIC FUNCTION
- NO PERICARDIAL EFFUSION / VEGETATION / CLOT.

DR RAMNAKESH SOUDRI MD DM (CARDIOLOGY) FSCAI INTERVENTIONAL CARDIOLOGIST

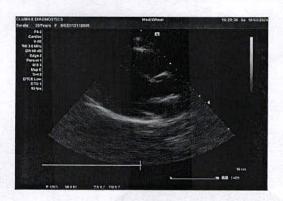
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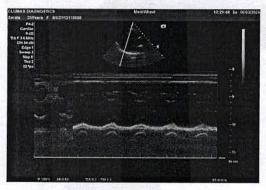


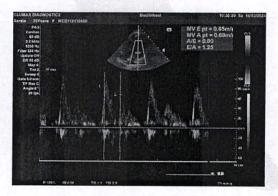


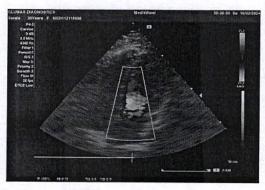
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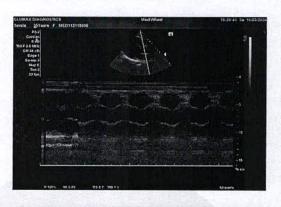
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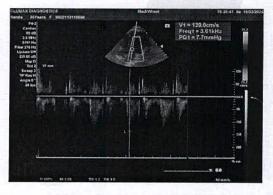


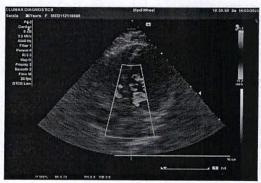












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Age & Gender	35Y/FEMALE	Visit Date	16/03/2024
Ref Doctor	MediWheel		

#### ABDOMINO-PELVIC ULTRASONOGRAPHY

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

GALL BLADDER is partially distended. Gall bladder wall is of normal thickness. CBD is of normal calibre.

**PANCREAS** visualized portion of head and body appear normal. Tail is obscured by bowel gas.

SPLEEN show normal shape, size and echopattern.

No demonstrable Para -aortic lymphadenopathy.

**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	9.2	1.3
Left Kidney	11.1	1.5

URINARY BLADDER show normal shape and wall thickness.

It has clear contents.

UTERUS is anteverted and has normal shape and size.

It has uniform myometrial echopattern.

Endometrial echo is of normal thickness – 7.7mms.

Uterus measures as follows:

LS: 7.6cms

AP: 3.9cms

TS: 3.9cms.

..2





Name	MS.SARALA	ID	MED112118696
Age & Gender	35Y/FEMALE	Visit Date	16/03/2024
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: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:  $3.5 \times 2.7 \times 3.3$ cms, vol - 16.9cc. Left ovary:  $3.9 \times 2.7 \times 3.2$ cms, vol - 18.4cc.

POD & adnexa are free.

No evidence of ascites.

# Impression:

- > Grade I fatty change in the liver.
- > Bilateral polycystic ovarian morphology. Sugg: Clinical correlation with hormonal assay.

DR. HITHISHINI H CONSULTANT RADIOLOGIST Hh/d





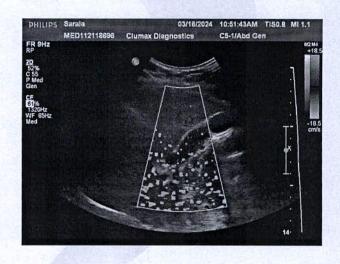
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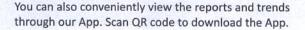














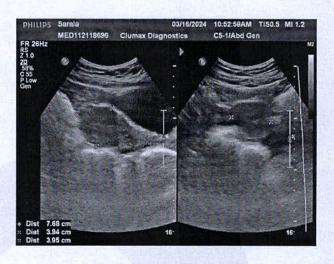
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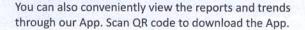






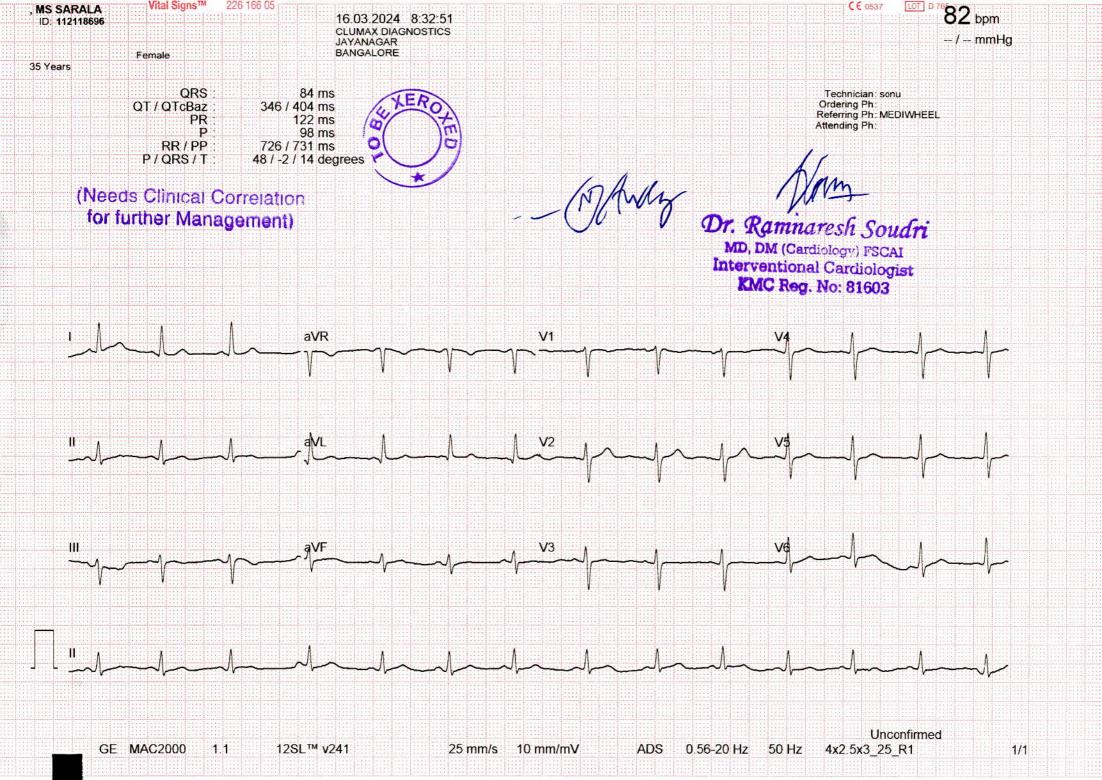








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Name	Ms. Sarala	Customer ID	MED112118696
Name Ms. Saraia Age & Gender 35Y/F		Visit Date	Mar 16 2024 7:43AM
Ref Doctor	MediWheel		

# 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

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