

Name : Mrs. BHUVANESWARI P  
PID No. : MED410011297  
SID No. : 224006820  
Age / Sex : 47 Year(s) / Female  
Type : OP  
Ref. Dr : MediWheel

Register On : 14/05/2024 8:42 AM  
Collection On : 14/05/2024 10:22 AM  
Report On : 15/05/2024 7:21 PM  
Printed On : 18/05/2024 12:55 PM



<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
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BLOOD GROUPING AND Rh TYPING

'B' 'Positive'

(EDTA Blood/Agglutination)

**INTERPRETATION:** Reconfirm the Blood group and Typing before blood transfusion

**Complete Blood Count With - ESR**

Haemoglobin (Whole Blood - W/Spectrophotometry)	11.5	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (Whole Blood - W/Derived from Impedance)	35.5	%	37 - 47
RBC Count (Whole Blood - W/Impedance Variation)	4.44	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (Whole Blood - W/Derived from Impedance)	79.9	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (Whole Blood - W/Derived from Impedance)	25.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (Whole Blood - W/Derived from Impedance)	32.3	g/dL	32 - 36
RDW-CV (Whole Blood - W/Derived from Impedance)	15.3	%	11.5 - 16.0
RDW-SD (Whole Blood - W/Derived from Impedance)	42.79	fL	39 - 46
Total Leukocyte Count (TC) (Whole Blood - W/Impedance Variation)	8000	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	59.6	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	28.2	%	20 - 45

  
M. Maria Lawrence Raj  
Lab Supervisor

VERIFIED BY



  
DR SURYA LAKSHMI  
Consultant Pathologist  
KMC NO: 112817

APPROVED BY

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Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	5.6	%	01 - 06
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	6.0	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.6	%	00 - 02

**INTERPRETATION:** Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.

Absolute Neutrophil count (Whole Blood - W/Impedance Variation & Flow Cytometry)	4.77	10 <sup>3</sup> / $\mu$ l	1.5 - 6.6
Absolute Lymphocyte Count (Whole Blood - W/Impedance Variation & Flow Cytometry)	2.26	10 <sup>3</sup> / $\mu$ l	1.5 - 3.5
Absolute Eosinophil Count (AEC) (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.45	10 <sup>3</sup> / $\mu$ l	0.04 - 0.44
Absolute Monocyte Count (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.48	10 <sup>3</sup> / $\mu$ l	< 1.0
Absolute Basophil count (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.05	10 <sup>3</sup> / $\mu$ l	< 0.2
Platelet Count (Whole Blood - W/Impedance Variation)	216	10 <sup>3</sup> / $\mu$ l	150 - 450
MPV (Whole Blood - W/Derived from Impedance)	9.5	fL	8.0 - 13.3
PCT (Whole Blood - W/Automated Blood cell Counter)	0.21	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Whole Blood - W/Automated - Westergren method)	<b>30</b>	mm/hr	< 20

  
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The results pertain to sample tested.

Page 2 of 8

Lab Address: MEDALL HEALTHCARE PRIVATE LIMITED, #17, RACE VIEW COLONY, 2ND STREET, RACE COURSE ROAD. GUINDY. CHENNAI. TAMIL NADU. INDIA..

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BUN / Creatinine Ratio	10.2		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	92.2	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/GOD - POD)	Negative	Negative
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Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	79.80	mg/dL	70 - 140
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**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.

**Remark:** Please correlate clinically.

Urine Glucose(PP-2 hours) (Urine - PP)	Negative	Negative
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Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	7.69	mg/dL	7.0 - 21
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Creatinine (Serum/Modified Jaffe)	0.75	mg/dL	0.6 - 1.1
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**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-acetylcysteine, chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/Enzymatic)	4.40	mg/dL	2.6 - 6.0
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**Liver Function Test**

Bilirubin(Total) (Serum/DCA with ATCS)	0.55	mg/dL	0.1 - 1.2
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Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.10	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.45	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	15.20	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	10.2	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	13.40	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	61.20	U/L	42 - 98
Total Protein (Serum/Biuret)	6.89	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	3.9	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.99	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.30		1.1 - 2.2

**Lipid Profile**

Cholesterol Total (Serum/CHOD-PAP with ATCS)	191.50	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	56.20	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500



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<b>INTERPRETATION:</b> 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.			
HDL Cholesterol (Serum/Immunoinhibition)	47.10	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	133.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	11.2	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	144.4	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220

**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)	4.1		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)	1.2		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0



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LDL/HDL Cholesterol Ratio (Serum/Calculated)	2.8		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0

### Glycosylated Haemoglobin (HbA1c)

HbA1C (Whole Blood/HPLC)	5.1	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
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**INTERPRETATION:** If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control >= 8.1 %

Estimated Average Glucose (Whole Blood)	99.67	mg/dL
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### **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 HbA1c.

### THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	0.92	ng/ml	0.7 - 2.04
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### **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 (Serum/Chemiluminescent Immunometric Assay (CLIA))	9.90	µg/dl	4.2 - 12.0
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### **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.

  
M. Maria Lawrence Raj  
Lab Supervisor

VERIFIED BY



  
DR SURYA LAKSHMI  
Consultant Pathologist  
KMC NO: 112817

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TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Immunometric Assay (CLIA))	2.690	µIU/mL	0.35 - 5.50

**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.

**Urine Analysis - Routine**

COLOUR (Urine)	Pale yellow		Yellow to Amber
APPEARANCE (Urine)	Clear		Clear
Protein (Urine/Protein error of indicator)	Negative		Negative
Glucose (Urine/GOD - POD)	Negative		Negative
Pus Cells (Urine/Automated ~ Flow cytometry )	1 - 2	/hpf	NIL
Epithelial Cells (Urine/Automated ~ Flow cytometry )	2 - 4	/hpf	NIL
RBCs (Urine/Automated ~ Flow cytometry )	NIL	/hpf	NIL
Casts (Urine/Automated ~ Flow cytometry )	NIL	/hpf	NIL
Crystals (Urine/Automated ~ Flow cytometry )	NIL	/hpf	NIL

  
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Lab Supervisor

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



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-- End of Report --



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**PAP Smear by LBC( Liquid based Cytology )**

PAP Smear by LBC( Liquid based Cytology )

**SPECIMEN NO : Cy 1557/2024**

**MICROSCOPIC FINDINGS:**

**ADEQUACY:** Satisfactory.

**PREDOMINANT CELLS:** Superficial and intermediate cells.

**BACKGROUND:** Neutrophils.

**ORGANISMS:** No specific organisms.

**IMPRESSION:**

**Inflammatory Smear.**

**Negative for intraepithelial lesion/ malignancy.**

A stylized signature in black ink, enclosed within a heart-shaped frame composed of two overlapping loops, one blue and one pink.

**DR S SARANYAA**  
Consultant Pathologist  
Reg.No.93548

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Age & Gender	47/FEMALE	Visit Date	14/05/2024
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## SONOGRAM REPORT

### WHOLE ABDOMEN

**The liver is normal in size and shows diffuse fatty changes.** No focal lesion is seen.

The gall bladder is contracted.

There is no intra or extra hepatic biliary ductal dilatation.

The pancreas shows a normal configuration and echotexture. The pancreatic duct is normal.

The portal vein and the IVC are normal.

The spleen is normal.

There is no free or loculated peritoneal fluid.

No para aortic lymphadenopathy is seen.

No abnormality is seen in the region of the adrenal glands.

The right kidney measures ~ 10.1 x 5.2 cm.

The left kidney measures ~ 9.9 x 5.4 cm.

Both kidneys are normal in size, shape and position. Cortical echoes are normal bilaterally.

**Few renal concretions (1-2 mm) noted in left kidney.**

There is no calyceal dilatation.

The ureters are not dilated.

The bladder is smooth walled and uniformly transonic. There is no intravesical mass or calculus.

The uterus is anteverted, and measures ~ 7.5 x 5.4 x 4.3 cm.

Myometrial echoes are homogeneous. The endometrial thickness is ~ 7.1 mm.

The right ovary measures ~ 2.6 x 2.0 cm.

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9.Liability is limited to the extend of amount billed.

10.Reports are subject to interpretation in their entirety.partial or selective interpretation may lead to false opinion.

11.Disputes,if any , with regard to the report findings are subject to the exclusive jurisdiction of the competent courts chennai only.

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The left ovary measures ~ 2.9 x 2.1 cm.

No significant mass or cyst is seen in the ovaries.

Parametria are free.

Iliac fossae are normal.

### **IMPRESSION:**

- **Fatty liver.**
- **Left renal concretions.**

**DR. UMALAKSHMI**  
**SONOLOGIST**

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## ECHOCARDIOGRAPHY

### M-MODE MEASUREMENTS:-

<u>VALUES</u>	
<b>AO</b>	<b>2.4 cm</b>
<b>LA</b>	<b>2.7 cm</b>
<b>LVID(D)</b>	<b>4.6 cm</b>
<b>LVID (S)</b>	<b>2.7 cm</b>
<b>IVS (D)</b>	<b>1.0 cm</b>
<b>LVPW (D)</b>	<b>1.0 cm</b>
<b>EF</b>	<b>66%</b>
<b>FS</b>	<b>36 %</b>
<b>TAPSE</b>	<b>19 mm</b>

### DOPPLER AND COLOUR FLOW PARAMETERS :-

**Aortic Valve Gradient** : **V max - 1.23 m/sec**  
**Pulmonary Valve Gradient** : **V max - 0.81 m/sec**  
**Mitral Valve Gradient** : **E: 0.94 m/sec**      **A: 0.72 m/sec**  
**Tricuspid Valve Gradient** : **E: 0.42 m/sec**

### VALVE MORPHOLOGY :-

**Aortic valve** - **Normal**  
**Mitral valve** - **AML Prolapse**  
**Tricuspid valve** - **Normal**  
**Pulmonary valve** - **Normal**

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<b>CHAMBERS</b>	
LEFT ATRIUM	NORMAL
LEFT VENTRICLE	NORMAL
RIGHT ATRIUM	NORMAL
RIGHT VENTRICLE	NORMAL
INTER ATRIAL SEPTUM	INTACT
INTERVENTRICULAR SEPTUM	INTACT

### **ECHO FINDINGS:**

*No Regional Wall Motion Abnormality (RWMA)*  
*Normal Left Ventricular systolic function, EF 66%.*  
*Mild Mitral Regurgitation / No Mitral Stenosis.*  
*No Aortic Regurgitation /No Aortic Stenosis.*  
*Trivial Tricuspid Regurgitation (2.3 m/s).*  
*Normal RV Function.*  
*No Pulmonary Artery Hypertension.*  
*No Pericardial Effusion.*

### **IMPRESSION:**

- \* **STRUCTURALLY NORMAL HEART.**
- \* **NORMAL LEFT VENTRICULAR SYSTOLIC FUNCTION, EF 66%.**

*M. Varshini*

**MS. VARSHINI.M-ECHO TECHNOLOGIST**

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- 8.If the test results are found not to be correlating clinically can contact the lab in charge for clarification or retesting where practicable within 24 hours from the time of issue of results.
- 9.Liability is limited to the extend of amount billed.
- 10.Reports are subject to interpretation in their entirety.partial or selective interpretation may lead to false opinion.
- 11.Disputes,if any , with regard to the report findings are subject to the exclusive jurisdiction of the competent courts chennai only.

Name	Mrs.BHUVANESWARI P	ID	MED410011297
Age & Gender	47/FEMALE	Visit Date	14/05/2024
Ref Doctor Name	MediWheel		

## MAMMOGRAPHY

### REPORT

Cranio-caudal and Medio-lateral oblique views of both breasts were studied.

Both breasts are fatty with fibroglandular densities (ACR Type B parenchyma).

No breast asymmetry noted.

No intramammary ductal dilatation identified.

No obvious spiculation or architectural distortion noted.

There is no evidence of lesion or microcalcification in both breasts.

Both nipples are not retracted.

There is no evidence of focal or diffuse thickening of skin or subcutaneous tissue of both breasts.

The retro-mammary spaces appear normal.

Bilateral axillae are clear.

### IMPRESSION:

- **ACR Type B parenchyma.**
- **BIRADS - I.**
  - Suggested Annual Review Scans- ACR guidelines.



**Dr Sharanya.S MD, DNB.,**  
Radiologist

#### REPORT DISCLAIMER

1.This is only a radiological impression.Like other investigations, radiological investigation also have limitation. Therefore radiological reports should be interpreted in correlation with clinical and pathological findings.

2.The results reported here in are subject to interpretation by qualified medical professionals only.

3.Customer identities are accepted provided by the customer or their representative.

4.information about the customer's condition at the time of sample collection such as fasting, food consumption, medication, etc are accepted as provided by the customer or representative and shall not be investigated for its truthfulness.

5.If any specimen/sample is received from any others laboratory/hospital,its is presumed that the sample belongs to the patient identified or named.

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Name	Mrs.BHUVANESWARI P	ID	MED410011297
Age & Gender	47/FEMALE	Visit Date	14/05/2024
Ref Doctor Name	MediWheel		

Category - (BIRADS classification)

Category 0: Assessment incomplete. Category 1: Negative (normal).

Category 2: Benign. Category 3: Probably benign finding.

Category 4: Suspicious abnormality. Category 4a: Low suspicion 4b - Intermediate suspicion.

Category 4c: Moderate suspicion. Category 5: High suggestive of malignancy.

Category 6: Known biopsy proven malignancy.

NOTE: Please bring your old mammogram film for the next visit.

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Name	Mrs. BHUVANESWARI P	ID	MED410011297
Age & Gender	47Y/F	Visit Date	May 14 2024 8:41AM
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. TRISHUL SHETTY  
CONSULTANT RADIOLOGIST**