

Name : Mrs. ANANTHALAKSHMI G
PID No. : MED112146774
SID No. : 224005325
Age / Sex : 45 Year(s) / Female
Type : OP
Ref. Dr : MediWheel

Register On : 13/04/2024 9:01 AM
Collection On : 13/04/2024 11:57 AM
Report On : 15/04/2024 4:46 PM
Printed On : 26/04/2024 3:46 PM



Investigation **Observed Value** **Unit** **Biological Reference Interval**

BLOOD GROUPING AND Rh TYPING
(EDTA Blood/Agglutination)

'O' 'Positive'

INTERPRETATION: Reconfirm the Blood group and Typing before blood transfusion

Complete Blood Count With - ESR

Haemoglobin (Whole Blood - W/Spectrophotometry)	11.8	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (Whole Blood - W/Derived from Impedance)	35.8	%	37 - 47
RBC Count (Whole Blood - W/Impedance Variation)	4.10	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (Whole Blood - W/Derived from Impedance)	87.4	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (Whole Blood - W/Derived from Impedance)	28.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (Whole Blood - W/Derived from Impedance)	33.0	g/dL	32 - 36
RDW-CV (Whole Blood - W/Derived from Impedance)	13.8	%	11.5 - 16.0
RDW-SD (Whole Blood - W/Derived from Impedance)	42.4	fL	39 - 46
Total Leukocyte Count (TC) (Whole Blood - W/Impedance Variation)	9300	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	60.0	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	31.0	%	20 - 45



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Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	2.3	%	01 - 06
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	6.3	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.4	%	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)	5.6	$10^3 / \mu\text{l}$	1.5 - 6.6
Absolute Lymphocyte Count (Whole Blood - W/Impedance Variation & Flow Cytometry)	2.9	$10^3 / \mu\text{l}$	1.5 - 3.5
Absolute Eosinophil Count (AEC) (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.2	$10^3 / \mu\text{l}$	0.04 - 0.44
Absolute Monocyte Count (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.6	$10^3 / \mu\text{l}$	< 1.0
Absolute Basophil count (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.0	$10^3 / \mu\text{l}$	< 0.2
Platelet Count (Whole Blood - W/Impedance Variation)	294	$10^3 / \mu\text{l}$	150 - 450
MPV (Whole Blood - W/Derived from Impedance)	8.6	fL	8.0 - 13.3
PCT (Whole Blood - W/Automated Blood cell Counter)	0.251	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Whole Blood - W/Automated - Westergren method)	13	mm/hr	< 20



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The results pertain to sample tested.

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

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Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	110.9	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
Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	134.0	mg/dL	70 - 140

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)	5.9	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.69	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-acetylcysteine, chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/Enzymatic)	4.6	mg/dL	2.6 - 6.0
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Liver Function Test

Bilirubin(Total) (Serum/DCA with ATCS)	0.40	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.15	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.25	mg/dL	0.1 - 1.0



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SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	10.0	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	18.3	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	17.6	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	54.4	U/L	42 - 98
Total Protein (Serum/Biuret)	6.93	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.12	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.81	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.47		1.1 - 2.2

Lipid Profile

Cholesterol Total (Serum/CHOD-PAP with ATCS)	170.8	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	135.8	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.



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HDL Cholesterol (Serum/Immunoinhibition)	30.6	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	113	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	27.2	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	140.2	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)	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)	4.4		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	3.7		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0



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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/HPLC)	5.4	%	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 (Whole Blood)	108.28	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 glyemic 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))	1.49	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))	11.56	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.

TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Immunometric Assay (CLIA))	1.650	µIU/mL	0.35 - 5.50
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Investigation

Observed Value

Unit

Biological Reference Interval

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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BUN / Creatinine Ratio	8.5		6.0 - 22.0

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)	1 - 2	/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
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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-- End of Report --

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PAP Smear by LBC(Liquid based Cytology)

PAP Smear by LBC(Liquid based Cytology)

SPECIMEN NO : CY 1341/2024

MICROSCOPIC FINDINGS:

ADEQUACY: Satisfactory.

PREDOMINANT CELLS: Squamous cells.

BACKGROUND: LactoBacilli and Bare Nuclei

ORGANISMS: No specific organisms.

IMPRESSION:

**Vault smear- Negative for intraepithelial lesion/
malignancy**



DR S SARANYAA
Consultant Pathologist
Reg.No.93548

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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 normal sized and smooth walled and contains no calculus.

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 ~ 10.0 x 4.7 cm.

The left kidney measures ~ 10.9 x 5.2 cm.

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

There is no calculus or calyceal dilatation.

The ureters are not dilated.

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

Uterus not visualised - History of surgery.

The right ovary measures ~ 3.1 x 1.6 cm.

Left ovary not visualised - History of surgery.

Parametria are free.

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Iliac fossae are normal.

IMPRESSION:

- **Fatty liver.**
- **Post hysterectomy status.**
- **Post left oophorectomy status.**

**DR. UMALAKSHMI
SONOLOGIST**

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ECHOCARDIOGRAPHY

M-MODE MEASUREMENTS:-

<u>VALUES</u>	
AO	2.6 cm
LA	3.2 cm
LVID(D)	4.2 cm
LVID (S)	2.7 cm
IVS (D)	1.1 cm
LVPW (D)	1.1 cm
EF	65 %
FS	35 %
TAPSE	19 mm

DOPPLER AND COLOUR FLOW PARAMETERS :-

Aortic Valve Gradient : **V max - 1.20 m/sec**
Pulmonary Valve Gradient : **V max - 0.97 m/sec**
Mitral Valve Gradient : **E: 0.86 m/sec** **A: 0.60 m/sec**
Tricuspid Valve Gradient : **E: 0.42 m/sec**

VALVE MORPHOLOGY :-

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

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CHAMBERS	
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 65%.
Trivial Mitral Regurgitation / No Mitral Stenosis
No Aortic Regurgitation /No Aortic Stenosis
Trivial Tricuspid Regurgitation (2.2 m/s).
Normal RV Function .
No Pulmonary Artery Hypertension.
No Pericardial Effusion.

IMPRESSION:

*** STRUCTURALLY NORMAL HEART.**

*** NORMAL LEFT VENTRICULAR SYSTOLIC FUNCTION, EF 65%**

M. Varshini

MS. VARSHINI.M-ECHO TECHNOLOGIST

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MAMMOGRAPHY

REPORT

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

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

Breast lesions could not be ruled out due to dense breast parenchyma.

No breast asymmetry noted.

No intramammary ductal dilatation identified.

No obvious spiculation 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 D parenchyma.**
- **BIRADS - 0.**



Suggested Annual Review Scans- ACR guidelines.

Dr Sharanya.S MD, DNB.,

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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.ANANTHALAKSHMI G	ID	MED112146774
Age & Gender	45/FEMALE	Visit Date	13/04/2024
Ref Doctor Name	MediWheel		

Radiologist

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.

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.

6.Test results should be interpreted in context of clinical and other findings if any.In case of any clarification /doubt , the referring doctor/patient can contact the respective section head of the laboratory.

7.Results of the test are influenced by the various factors such as sensitivity, specificity of the procedures of the tests, quality of the samples and drug interactions etc.,

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.

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