PID No.
 : MED112131270
 Register On
 : 28/03/2024 9:25 AM

 SID No.
 : 224004492
 Collection On
 : 28/03/2024 1:49 PM

 Age / Sex
 : 37 Year(s) / Female
 Report On
 : 28/03/2024 6:24 PM

Type : OP Printed On : 14/05/2024 5:49 PM

Ref. Dr : MediWheel



Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BLOOD GROUPING AND Rh TYPING (EDTA Blood/Appleting)	'B' 'Positive'		
(EDTA Blood/Agglutination) INTERPRETATION: Reconfirm the Blood group	and Typing before	a blood transfusion	
Complete Blood Count With - ESR	and Typing before	s blood transfusion	
Haemoglobin (Whole Blood - W/Spectrophotometry)	12.2	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (Whole Blood - W/Derived from Impedance)	37.3	%	37 - 47
RBC Count (Whole Blood - W/Impedance Variation)	4.55	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (Whole Blood - W/Derived from Impedance)	81.8	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (Whole Blood - W/Derived from Impedance)	26.9	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (Whole Blood - W/Derived from Impedance)	32.9	g/dL	32 - 36
RDW-CV (Whole Blood - W/Derived from Impedance)	13.9	%	11.5 - 16.0
RDW-SD (Whole Blood - W/Derived from Impedance)	39.80	fL	39 - 46
Total Leukocyte Count (TC) (Whole Blood - W/Impedance Variation)	5600	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	47.7	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	41.3	%	20 - 45







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Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	1.6	%	01 - 06
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	8.9	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.5	%	00 - 02
INTERPRETATION: Tests done on Automated	Five Part cell count	er. All abnormal results a	are reviewed and confirmed microscopically.
Absolute Neutrophil count (Whole Blood - W/Impedance Variation & Flow Cytometry)	2.67	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (Whole Blood - W/Impedance Variation & Flow Cytometry)	2.31	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.09	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.50	10^3 / μl	< 1.0
Absolute Basophil count (Whole Blood - W/Impedance Variation & Flow Cytometry)	0.03	10^3 / μl	< 0.2
Platelet Count (Whole Blood - W/Impedance Variation)	301	10^3 / μl	150 - 450
MPV (Whole Blood - W/Derived from Impedance)	7.2	fL	8.0 - 13.3
PCT (Whole Blood - W/Automated Blood cell Counter)	0.22	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Whole Blood - W/Automated - Westergren	19	mm/hr	< 20

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BUN / Creatinine Ratio	16.5		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	82.8	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

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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.

70 - 140Glucose Postprandial (PPBS) 89.7 mg/dL

(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)	8.1	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.49	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)	5.20	mg/dL	2.6 - 6.0
<u>Liver Function Test</u>			
Bilirubin(Total) (Serum/DCA with ATCS)	1.07	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.21	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.86	mg/dL	0.1 - 1.0







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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC</i>)	28.60	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	33.4	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	64.20	U/L	< 38
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	74.10	U/L	42 - 98
Total Protein (Serum/Biuret)	7.10	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.1	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	3.00	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.37		1.1 - 2.2
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	172.00	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	64.70	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500

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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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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
HDL Cholesterol (Serum/Immunoinhibition)	59.90	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	99.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	12.9	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	112.1	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220

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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)	2.9	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)	1.1	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.7	Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0







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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/ <i>HPLC</i>)	5.5	%	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 %

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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 HbA1c.

THYROID PROFILE / TFT

T3 (Triiodothyronine)	- Total	1.01	ng/ml	0.7 - 2.04

(Serum/Chemiluminescent Immunometric Assay (CLIA))

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 9.95 μ g/dl 4.2 - 12.0

(Serum/Chemiluminescent Immunometric Assay

(CLIA))

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) 1.870 µIU/mL 0.35 - 5.50

(Serum/Chemiluminescent Immunometric Assay

DR SURYA LAKSHMI Consultant Pathologist KMC NO: 112817

VERIFIED BY

(CLIA))





APPROVED BY

The results pertain to sample tested.

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<u>Investigation</u>	<u>Observed</u> <u>Unit</u>	<u>Biological</u>
	<u>Value</u>	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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APPROVED BY

-- End of Report --



Name	Ms.ESTHER ROCHE	ID	MED112131270
Age & Gender	37/FEMALE	Visit Date	28/03/2024
Ref Doctor Name	MediWheel		

SONOGRAM REPORT

WHOLE ABDOMEN

The liver is normal in size and shows uniform echotexture with no focal abnormality.

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 $\sim 11.1 \times 5.1 \text{ cm}$.

The left kidney measures $\sim 11.9 \text{ x } 6.3 \text{ cm}$.

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.

Post LSCS.

The uterus is anteverted, and measures $\sim 13.0 \text{ x } 5.5 \text{ x } 4.0 \text{ cm}$.

Myometrial echoes are homogeneous. The endometrial thickness is ~ 7.8 mm.

The right ovary measures $\sim 3.2 \text{ x } 1.8 \text{ cm}$.

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- 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 refrering 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.
- 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	Ms.ESTHER ROCHE	ID	MED112131270
Age & Gender	37/FEMALE	Visit Date	28/03/2024
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The left ovary measures $\sim 2.9 \text{ x } 1.6 \text{ cm}$.

No significant mass or cyst is seen in the ovaries.

Parametria are free.

Iliac fossae are normal.

IMPRESSION:

• No significant abnormality.

DR. UMALAKSHMI SONOLOGIST

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Age & Gender	37/FEMALE	Visit Date	28/03/2024
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ECHOCARDIOGRAPHY

M-MODE MEASUREMENTS:-

<u>VALUES</u>	
AO	2.8 cm
LA	3.1 cm
LVID(D)	4.1 cm
LVID (S)	2.6 cm
IVS (D)	1.6 cm
LVPW (D)	1.0 cm
EF	65 %
FS	35 %
TAPSE	19 mm

DOPPLER AND COLOUR FLOW PARAMETERS:

Aortic Valve Gradient : V max - 1.37 m/sec Pulmonary Valve Gradient : V max - 1.09 m/sec

Mitral Valve Gradient : E: 0.92 m/sec A: 0.73 m/sec

Tricuspid Valve Gradient : E: 0.40 m/sec

VALVE MORPHOLOGY:-

Aortic valve - Normal

Mitral valve - AML Prolapse

Tricuspid valve - Normal **Pulmonary valve -** Normal

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Age & Gender	37/FEMALE	Visit Date	28/03/2024
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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%. 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 65%



MOHANRAJ ECHO TECHNOLOGIST

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Name	Ms. ESTHER ROCHE	ID	MED112131270
Age & Gender	37Y/F	Visit Date	Mar 28 2024 9:25AM
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. Rama Krishnan. MD, <u>DNB.</u>, Consultant Radiologist. Medall Healthcare Pvt Ltd.