



Ref Doctor : Dr.Dr. VENKATESH RATHOD

IP/OP NO :

 Collected
 : 03/Sep/2025 09:05AM

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 : 03/Sep/2025 09:34AM

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 : 03/Sep/2025 10:07AM

Status : Final Report

Client Name : RLM ULTRA DIAGNOSTICS SERVICES

Center location : Kathriguppe,Bangalore

DEPARTMENT OF HAEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Interval	Method
COMPLETE BLOOD COUNT (CBC) , WHO	LE BLOOD EDTA			
HAEMOGLOBIN	12.5	g/dL	12.5-15	Spectrophotometer
PCV	36.80	%	36-46	Electronic pulse & Calculation
RBC COUNT	4.51	Million/cu.mm	3.8-4.8	Electrical Impedence
MCV	81.8	fL	83-101	Calculated
MCH	27.8	pg	27-32	Calculated
MCHC	34	g/dL	31.5-34.5	Calculated
R.D.W	14.6	%	11.6-14	Calculated
TOTAL LEUCOCYTE COUNT (TLC)	6,870	cells/cu.mm	4000-10000	Electrical Impedance
DIFFERENTIAL LEUCOCYTIC COUNT (I	DLC)			
NEUTROPHILS	66	%	40-80	Flow cytometry
LYMPHOCYTES	25	%	20-40	Flow cytometry
EOSINOPHILS	0 /6	%	1-6	Flow cytometry
MONOCYTES	3	%	2-10	Flow cytometry
BASOPHILS	0	%	0-2	Flow cytometry
CORRECTED TLC	6,870	Cells/cu.mm		Calculated
ABSOLUTE LEUCOCYTE COUNT				
NEUTROPHILS	4534.2	Cells/cu.mm	2000-7000	Calculated
LYMPHOCYTES	1717.5	Cells/cu.mm	1000-3000	Calculated
EOSINOPHILS	412.2	Cells/cu.mm	20-500	Calculated
MONOCYTES	206.1	Cells/cu.mm	200-1000	Calculated
Neutrophil lymphocyte ratio (NLR)	2.64		0.78- 3.53	Calculated
PLATELET COUNT	275000	cells/cu.mm	150000-410000	Electrical impedence
MPV	10.2	FI	8.1-13.9	Calculated

Dr.Mahalakshmi S M.B.B.S,M.D(Pathology) Consultant Pathologist

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DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Interval	Method
LIVER FUNCTION TEST (LFT) WITH GGT,	SERUM			
BILIRUBIN, TOTAL	0.90	mg/dL	0-1.2	Diazo
BILIRUBIN CONJUGATED (DIRECT)	0.30	mg/dL	0.0-0.3	Calculated
BILIRUBIN (INDIRECT)	0.60	mg/dL	0.0-1.1	Calculated
ALANINE AMINOTRANSFERASE (ALT/SGPT)	20	U/L	10-35	IFCC with Pyridoxal Phosphate
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	17.0	U/L	10-50	IFCC with Pyridoxal Phosphate
AST (SGOT) / ALT (SGPT) RATIO (DE RITIS)	0.8		<1.15	Calculated
ALKALINE PHOSPHATASE	64.00	/ U/L	35-104	IFCC
PROTEIN, TOTAL	7.40	g/dL	6.4-8.3	Biuret
ALBUMIN	4.30	g/dL	3.5-5.2	Bromo Cresol Green
GLOBULIN	3.10	g/dL	2.0-3.5	Calculated
A/G RATIO	1.39		0.9-2.0	Calculated
GAMMA GLUTAMYL TRANSPEPTIDASE (GGT)	12.00	U/L	6-42	IFCC

Comment:

LFT results reflect different aspects of the health of the liver, i.e., hepatocyte integrity (AST & ALT), synthesis and secretion of bile (Bilirubin, ALP), cholestasis (ALP, GGT), protein synthesis (Albumin) Common patterns seen:

- 2. Cholestatic Pattern:*ALP Disproportionate increase in ALP compared with AST, ALT. ALP elevation also seen in pregnancy, impacted by age and sex.*Bilirubin (Direct) and GGT elevated- helps to establish hepatic origin.
- 3. Synthetic function impairment:*Albumin- Liver disease reduces albumin levels, Correlation with PT (Prothrombin Time) helps.

4. Associated tests for assessment of liver fibrosis - Fibrosis-4 and APRI Index.

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M.B.B.S,M.D(Pathology) Consultant Pathologist

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^{1.} Hepatocellular Injury: *AST – Elevated levels can be seen. However, it is not specific to liver and can be raised in cardiac and skeletal injuries. *ALT – Elevated levels indicate hepatocellular damage. It is considered to be most specific lab test for hepatocellular injury. Values also correlate well with increasing BMI. Disproportionate increase in AST, ALT compared with ALP. AST: ALT (ratio) – In case of hepatocellular injury AST: ALT > 1In Alcoholic Liver Disease AST: ALT usually >2. This ratio is also seen to be increased in NAFLD, Wilsons's diseases, Cirrhosis, but the increase is usually not >2.Note- If both SGPT and SGOT are within reference range then AST:ALT (De Ritis ratio) does not have any clinical significance.





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DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Interval	Method				
RENAL PROFILE/KIDNEY FUNCTION TEST (RFT/KFT) , SERUM								
CREATININE	0.65	mg/dL	0.5-0.9	Jaffe				
.eGFR - ESTIMATED GLOMERULAR FILTRATION RATE	106.69	mL/min/1.73m²	>60	CKD-EPI FORMULA				
UREA	21.60	mg/dL	13-43	Urease				
BLOOD UREA NITROGEN	10.1	mg/dL	8.0 - 23.0	Calculated				
URIC ACID	4.40	mg/dL	2.6-6.0	Uricase				
CALCIUM	9.00	mg/dL	8.6-10	NM-Bapta				
PHOSPHORUS, INORGANIC	4.00	mg/dL	2.5-4.5	Phosphomolybdate Complex				
SODIUM	140	mmol/L	136-145	ISE (Indirect)				
POTASSIUM	4.4	mmol/L	3.5-5.1	ISE (Indirect)				
CHLORIDE	103	mmol/L	98-107	ISE (Indirect)				
PROTEIN, TOTAL	7.40	g/dL	6.4-8.3	Biuret				
ALBUMIN	4.30	g/dL	3.5-5.2	Bromo Cresol Green				
GLOBULIN	< 3.10 <	g/dL	2.0-3.5	Calculated				
A/G RATIO	1.39		0.9-2.0	Calculated				

*** End Of Report ***

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- 8. The patient details along with their results in certain cases like notifiable diseases and as per local regulatory requirements will be communicated to the assigned regulatory bodies
- 9. The patient samples can be used as part of internal quality control, test verification, data analysis purposes within the testing scope of the laboratory.
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