biosytech
MEDICAL LABORATORY

BML516214

Laboratory Investigation Report

Name	:	Miss. CHRISTINA KARUNIA	**Ref No.**	:	38663
DOB	:	24/12/1984	**Sample No.**	:	2501528830
Age / Gender	:	40 Y / Female	**Collected**	:	20/01/2025 12:14
Referred by	:	Dr. Sandia Bhojwani	**Registered**	:	23/01/2025 09:32
Centre	:	CITICARE MEDICAL CENTER	**Reported**	:	23/01/2025 11:30

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
C-REACTIVE PROTEIN (CRP)	3.0		mg/L	< 5.0 Please note change. Source: Roche IFU.	Particle-enhanced immunoturbidimetric assay

INTERPRETATION NOTES :

1. CRP measurements are used as aid in diagnosis, monitoring, prognosis, and management of suspected inflammatory disorders and associated diseases, acute infections and tissue injury.
2. C-reactive protein is the classic acute phase protein in inflammatory reactions.
3. CRP is the most sensitive of the acute phase reactants and its concentration increases rapidly during inflammatory processes. The CRP response frequently precedes clinical symptoms, including fever. After onset of an acute phase response, the serum CRP concentration rises rapidly and extensively. The increase begins within 6 to 12 hours and the peak value is reached within 24 to 48 hours. Levels above 100 mg/L are associated with severe stimuli such as major trauma and severe infection (sepsis).
4. CRP response may be less pronounced in patients suffering from liver disease.
5. CRP assays are used to detect systemic inflammatory processes (apart from certain types of inflammation such as systemic lupus erythematosus (SLE) and Colitis ulcerosa); to assess treatment of bacterial infections with antibiotics; to detect intrauterine infections with concomitant premature amniorrhexis; to differentiate between active and inactive forms of disease with concurrent infection, e.g. in patients suffering from SLE or Colitis ulcerosa; to therapeutically monitor rheumatic disease and assess anti-inflammatory therapy; to determine the presence of post-operative complications at an early stage, such as infected wounds, thrombosis and pneumonia, and to distinguish between infection and bone marrow transplant rejection.

Dr. Adley Mark Fernandes
M.D (Pathology)
Pathologist

Dr. Vyoma V Shah
M.D (Pathology)
Clinical Pathologist

Greeshma P Sidharthan

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BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
LIPID PROFILE TEST					
CHOLESTEROL (TOTAL)	245	H	mg/dl	Desirable: < 200 Borderline High: 200 - 239 High: = 240 Please note change. Source: Roche IFU.	Enzymatic colorimteric assay
HDL CHOLESTEROL	50		mg/dl	40 - 60 Please note change. Source: Roche IFU.	Homogeneous enzymatic colorimetric assay
LDL CHOLESTEROL DIRECT	178	H	mg/dl	Optimal: < 100 Near/Above Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: = 190 Please note change. Source: Roche IFU.	Homogeneous enzymatic colorimetric assay
VLDL CHOLESTEROL	36	H	mg/dL	< 30	Calculation
NON-HDL CHOLESTEROL	214	H	mg/dL	< 140	Calculation
TRIGLYCERIDES	180	H	mg/dl	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: > 500 Source: Roche IFU.	Enzymatic colorimetric assay
TOTAL CHOLESTEROL / HDL RATIO	4.9	H		< 4.5	Calculation
LDL / HDL RATIO	3.6	H		< 3.5	Calculation

Sample Type : Serum

End of Report

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	13.7		g/dL	12 - 15.5	Photometric
RBC COUNT	4.8		10^6/µL	3.9 - 5	Electrical Impedance
HEMATOCRIT	40.4		%	35 - 45	Calculation
MCV	83.0		fL	82 - 98	Calculation
MCH	28.2		pg	27 - 32	Calculation
MCHC	34.0		g/dL	32 - 37	Calculation
RDW	13.2		%	11.9 - 15.5	Calculation
RDW-SD	38.1		fL		Calculation
MPV	7.9		fL	7.6 - 10.8	Calculation
PLATELET COUNT	309		10^3/uL	150 - 450	Electrical Impedance
PCT	0.2		%	0.01 - 9.99	Calculation
PDW	16.6		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC)^	0.0		/100 WBC		VCS 360 Technology
ABSOLUTE NRBC COUNT^	0.0		10^3/uL		Calculation
EARLY GRANULOCYTE COUNT (EGC)^	0.2		%		VCS 360 Technology
ABSOLUTE EGC^	0.0		10^3/uL		Calculation
WBC COUNT	7.8		10^3/µL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	63		%	40 - 75	VCS 360 Technology
LYMPHOCYTES	**29**	**L**	%	30 - 60	VCS 360 Technology
EOSINOPHILS	3		%	0 - 6	VCS 360 Technology
MONOCYTES	5		%	1 - 6	VCS 360 Technology
BASOPHILS	0		%	0 - 1	VCS 360 Technology
ABSOLUTE COUNT					
ABSOLUTE NEUTROPHIL COUNT	4.9		10^3/uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	2.3		10^3/uL	1.2 - 6.6	Calculation
ABSOLUTE MONOCYTE COUNT	0.4		10^3/uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.3		10^3/uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.0		10^3/uL	0 - 0.11	Calculation

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					

INTERPRETATION NOTES :

Please note update on CBC report format, reference ranges and method(Beckman Coulter).

Sample Type : *EDTA Whole Blood*

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