

Laboratory Investigation Report

BML261557

Name	: Mr. MUHAMMAD USMAN MUHAMMAD EHSAN QADAR	Ref No.	: 39650
DOB	: 18/10/1996	Sample No.	: 2309264953
Age / Gender	: 26 Y 10 M / Male	Collected	: 08/09/2023 13:53
Referred by	: Peshawar Medical Center LLC	Registered	: 08/09/2023 13:55
Centre	: Peshawar Medical Center LLC	Reported	: 08/09/2023 15:30

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
MAGNESIUM	2.2		mg/dL	1.8 - 2.4	Methylthymol blue

Interpretation Notes :

Increased magnesium levels relate mostly to patients in renal failure. Increased serum magnesium is also found with Addison disease and in pregnant patients with severe preëclampsia or eclampsia who are receiving magnesium sulfate as an anticonvulsant. Hypermagnesemia may occur in patients using magnesium-containing cathartics. High magnesium levels are manifested by decreased reflexes, somnolence and heart block.

Decreased level or Hypomagnesemia is seen in neuromuscular disorders. Hypomagnesemia is associated with hypocalcemia, hypokalemia, long-term hyperalimentation, intravenous therapy, diabetes mellitus, especially during treatment of ketoacidosis; alcoholism and other types of malnutrition; malabsorption; hyperparathyroidism; dialysis; pregnancy and hyperaldosteronism. Renal loss of magnesium occurs with cis-platinum therapy. Drugs like amphotericin toxicity will causes hypomagnesemia.

Sample Type : Serum

End of Report

Dr. Adley Mark Fernandes

M.D (Pathology)

Pathologist

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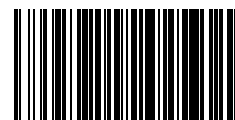
ELOISA MAY DELMO

Laboratory Technologist

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HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	13.4	L	g/dL	13.5 - 17.5	Spectrophotometry (Oxyhemoglobin)
RBC COUNT	5.0		10 ⁶ /μL	4.3 - 5.7	Electrical Impedance
HEMATOCRIT	41.1		%	38 - 50	Calculation
MCV	82.8		fL	82 - 98	Calculation
MCH	27.0		pg	27 - 32	Calculation
MCHC	32.6		g/dL	32 - 37	Calculation
RDW	16.7	H	%	11.8 - 15.6	Calculation
RDW-SD	49		fL		Calculation
MPV	9.6		fL	7.6 - 10.8	Calculation
PLATELET COUNT	297		10 ³ /μL	150 - 450	Electrical Impedance
PCT	0.3		%	0.01 - 9.99	Calculation
PDW	16.8		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC)^	0.1		/100 WBC		Flow Cytometry
ABSOLUTE NRBC COUNT^	0		10 ³ /uL		Calculation
EARLY GRANULOCYTE COUNT (EGC)^	1.3		%		Flow Cytometry
ABSOLUTE EGC^	0.1		10 ³ /uL		Calculation
WBC COUNT	6.6		10 ³ /μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	62		%	40 - 75	Flow Cytometry
LYMPHOCYTES	28		%	20 - 45	Flow Cytometry
EOSINOPHILS	5		%	0 - 6	Flow Cytometry
MONOCYTES	5		%	1 - 6	Flow Cytometry
BASOPHILS	0		%	0 - 1	Flow Cytometry
ABSOLUTE COUNT					
ABSOLUTE NEUTROPHIL COUNT	4.1		10 ³ /uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	1.8		10 ³ /uL	0.8 - 4.95	Calculation
ABSOLUTE MONOCYTE COUNT	0.3		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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ANJUMOL D V

Laboratory Technologist

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HEMATOLOGY

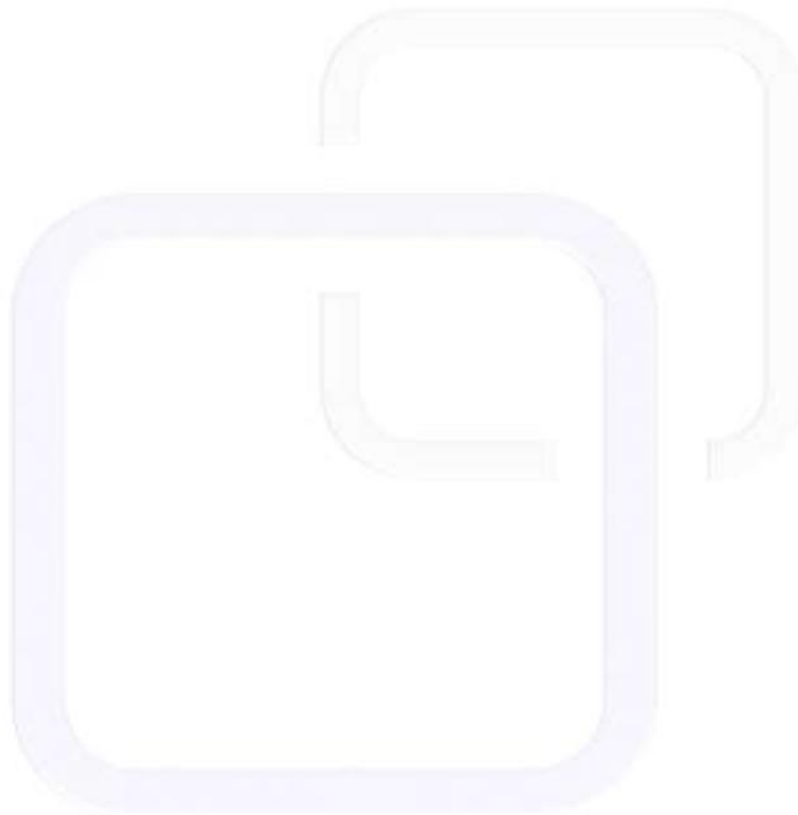
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COMPLETE BLOOD COUNT (CBC)

Interpretation Notes : Please note update on CBC report format and changes in reference ranges.

Sample Type : EDTA Whole Blood

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