



BML452818

Laboratory Investigation Report

Name : Ms. ZAYNAH ZAHID OMER ZAHID SATTAR OMER
DOB : 24/12/1999
Age / Gender : 24 Y / Female
Referred by : DR.ENOMEN
Centre : CITICARE MEDICAL CENTER

Ref No. : 40951
Sample No. : 2408462846
Collected : 14/08/2024 19:45
Registered : 15/08/2024 15:35
Reported : 15/08/2024 16:48

HEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
COMPLETE BLOOD COUNT (CBC)					
HEMOGLOBIN	12.3		g/dL	12 - 15.5	Photometric
RBC COUNT	4.5		10 ⁶ /μL	3.9 - 5	Electrical Impedance
HEMATOCRIT	36.8		%	35 - 45	Calculation
MCV	81.7	L	fL	82 - 98	Calculation
MCH	27.4		pg	27 - 32	Calculation
MCHC	33.5		g/dL	32 - 37	Calculation
RDW	12.8		%	11.9 - 15.5	Calculation
RDW-SD	36.8		fL		Calculation
MPV	8.7		fL	7.6 - 10.8	Calculation
PLATELET COUNT	224		10 ³ /uL	150 - 450	Electrical Impedance
PCT	0.2		%	0.01 - 9.99	Calculation
PDW	17.7		Not Applicable	0.1 - 99.9	Calculation
NUCLEATED RBC (NRBC)^	0.8		/100 WBC		VCS 360 Technology
ABSOLUTE NRBC COUNT^	0.06		10 ³ /uL		Calculation
EARLY GRANULOCYTE COUNT (EGC)^	0.2		%		VCS 360 Technology
ABSOLUTE EGC^	0.0		10 ³ /uL		Calculation
WBC COUNT	7.4		10 ³ /μL	4 - 11	Electrical Impedance
DIFFERENTIAL COUNT (DC)					
NEUTROPHILS	60		%	40 - 75	VCS 360 Technology
LYMPHOCYTES	32		%	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	4.4		10 ³ /uL	1.6 - 8.25	Calculation
ABSOLUTE LYMPHOCYTE COUNT	2.3		10 ³ /uL	1.2 - 6.6	Calculation
ABSOLUTE MONOCYTE COUNT	0.3		10 ³ /uL	0.04 - 0.66	Calculation
ABSOLUTE EOSINOPHIL COUNT	0.2		10 ³ /uL	0 - 0.66	Calculation
ABSOLUTE BASOPHIL COUNT	0.0		10 ³ /uL	0 - 0.11	Calculation

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

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

Thahsina Anees

Thahsina Anees
Laboratory Technologist

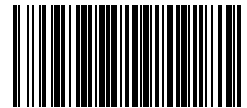
This is an electronically authenticated report

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HEMATOLOGY

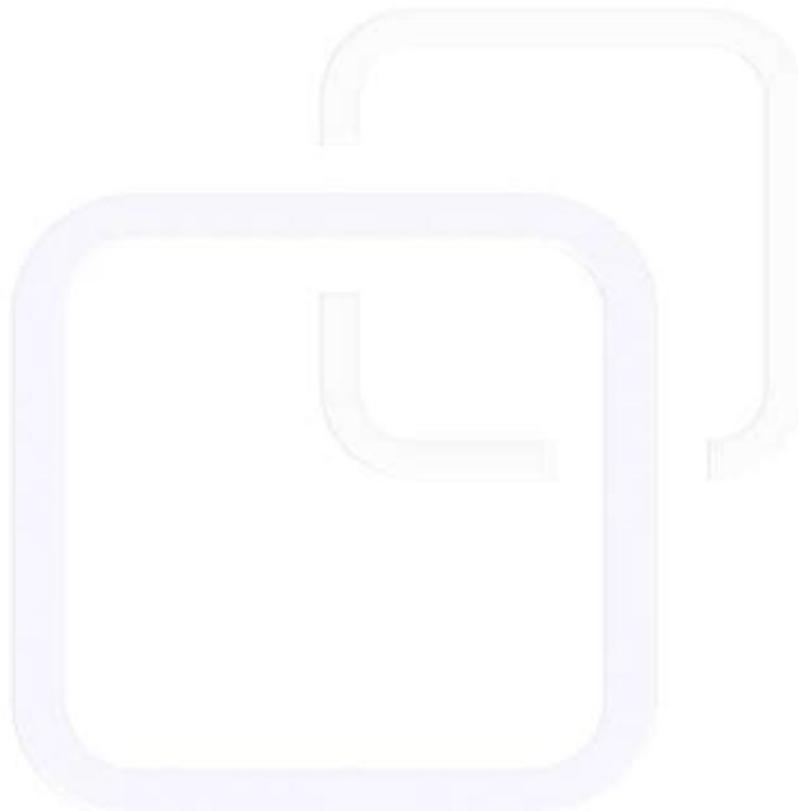
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COMPLETE BLOOD COUNT (CBC)

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

Sample Type : EDTA Whole Blood

End of Report



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IMMUNOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
VITAMIN D, 25-OH (TOTAL)	21		ng/mL	Deficiency: <20 Insufficiency: 20 - <30 Sufficiency: 30 - 80 Toxicity: >80 Please note change. Source: Roche IFU.	ECLIA

INTERPRETATION NOTES :

Vit D (25 – OH) is the sum of Vit D2 (25 – OH) and Vit D3 (25 – OH). In normal persons not taking external supplements - Vit D3 comprises approximately 90 % of the total.

25 hydroxy (25–OH) vitamin D3 or calcidiol is the storage form of vitamin D3. Deficiency is associated with osteoporosis, multiple sclerosis, and rheumatoid arthritis, and mood disorders. Both Vitamin D2 and Vitamin D3 are converted to 25–OH vitamin D3 in the liver. 25 hydroxy vitamin D3 circulates to the kidney where it is converted to 1, 25 hydroxy vitamins D3 or calcitriol, the functional form of the vitamin.

Calcitriol is vital to calcium regulation and low serum calcium causes release of parathormone which converts 25–OH vitamin D3 to 1, 25 –OH vitamin D3 which then triggers osteolysis releasing calcium into the bloodstream.

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HARSHAD MANIKANDAN
Laboratory Technician

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ENDOCRINOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
THYROID STIMULATING HORMONE (TSH)	1.67		uIU/mL	0.27 - 4.2	ECLIA

Reference Range for
Pregnant:
First Trimester: 0.24 – 2.99
Second Trimester:
0.46 – 2.95
Third Trimester: 0.43 – 2.78

Sample Type : Serum

End of Report

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HARSHAD MANIKANDAN
Laboratory Technician

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