

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Cho MD (Pathology & M Chairman & Consu		obiology)			
IAME	: Mr. MANISH				
GE/ GENDER	: 34 YRS/MALE	P	ATIENT ID	: 1657119	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012410300026	
REFERRED BY	:	REGISTRATION DATE : 3		30/Oct/2024 12:35 PM	
BARCODE NO.	:01519810		OLLECTION DATE	: 30/Oct/2024 12:40PM	
LIENT CODE. LIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBA		EPORTING DATE	: 30/Oct/2024 04:45PM	
Fest Name		Value	Unit	Biological Reference interval	
		HAEMA	TOLOGY		
	COMP	LETE BLO	OD COUNT (CBC)		
	(RBCS) COUNT AND INDICES				
IAEMOGLOBIN (HI by Calorimetric	3)	11.4 ^L	gm/dL	12.0 - 17.0	
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		5.29 ^H	Millions/c	mm 3.50 - 5.00	
PACKED CELL VOLUME (PCV)		38 ^L	%	40.0 - 54.0	
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		71.8 ^L	fL	80.0 - 100.0	
AEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	21.5 ^L	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBU	JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	19.4 ^H	%	11.00 - 16.00	
by CALCULATED BY A	JTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	52.1	fL	35.0 - 56.0	
MENTZERS INDEX		13.57	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING IND by CALCULATED		26.27	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0	
WHITE BLOOD CEI				4000 11600	
•	COUNT (TLC) by sf cube & microscopy LOOD CELLS (nRBCS)	2450 ^L	/cmm	4000 - 11000 0.00 - 20.00	
	LOOD CELLS (IIRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
NUCLEATED RED B	LOOD CELLS (nRBCS) %	NIL	%	< 10 %	





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT	
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		Unit	
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	80 ^H	%	50 - 70
LYMPHOCYTES	11 ^L	%	20 - 40
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS	1	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS	0	%	0 - 1
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1960 ^L	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	270 ^L	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	24 ^L	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	196	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT	0	/cmm	0.0 - 999.0
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			0.0 000.0
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	42000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.03 ^L	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV)	9	fL	6.50 - 12.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		,	20000 00000
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	9000 ^L	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	28.5	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW)	15.8	%	15.0 - 17.0



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Test Name	Valu	e Unit	Biological Reference interval

Test Name Value Unit

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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BARCODE NO.	: 01519810	COLLE	CTION DATE	: 30/Oct/2024 11:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 30/Oct/2024 12:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
CALCIUM: SERUM		8.69	mg/dL	8.50 - 10.60
CALCHINA CEDUNA		CALCIUM		0.50 10.00
by ARSENAZO III, SPE	ECTROPHOTOMETRY	0.00	ilig/ uL	0.00 - 10.00
<u>INTERPRETATION:-</u> 1 Serum calcium (tot	al) estimation is used for the	diagnosis and monitoring of	a wide range of di	isorders including diseases of bone, kidney,
parathyroid gland, o	r gastrointestinal tract.	0		
	y also reflect abnormal vitami		weight) Of this 9	9% is present as calcium hydroxyapatite in bones
and <1% is present ir	n the extra-osseous intracellu	lar space or extracellular sp	ace (ECS).	
 In serum, calcium present as free or ior 		tent to proteins (approximat	ely 40%), 10% is ir	the form of inorganic complexes, and 50% is
<i>NOTE:-</i> Calcium ions a	affect the contractility of the h	neart and the skeletal muscu	lature, and are ess	ential for the function of the nervous system. In
addition, calcium ior	ns play an important role in bl	lood clotting and bone mine	ralization.	
HYPOCALCEMIA (LOV	N CALCIUM LEVELS) CAUSES :-			
	e or impaired function of the p			
	ce to the action of parathyroid		o decreased vitami	in-D synthesis as well as hyperphosphatemia
	istic symptom of hypocalcem		y and osteomalaci	a.

HYPERCALCEMIA (INCREASE CALCIUM LEVELS) CAUSES:-

1. Increased mobilization of calcium from the skeletal system or increased intestinal absorption.

2. Primary hyperparathyroidism (pHPT)

3.Bone metastasis of carcinoma of the breast, prostate, thyroid gland, or lung.

NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

KOS Diagnostic Lab (A Unit of KOS Healthcare)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 30/Oct/2024 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		MAGNES	IUM	
MAGNESIUM: SERUM by XYLIDYL BLUE, SPECTROPHOTMETRY		1.79	mg/dL	1.6 - 2.6

INTERPRETATION:-

1. Magnesium along with potassium is a major intracellular cation.

2.Magnesium is a cofactor of many enzyme systems. All adenosine triphosphate (ATP)-dependent enzymatic reactions require magnesium as a cofactor. 3.Approximately 70% of magnesium ions are stored in bone. The remainder is involved in intermediary metabolic processes; about 70% is present in free form while the other 30% is bound to proteins (especially albumin), citrates, phosphate, and other complex formers. The serum magnesium level is kept constant within very narrow limits. Regulation takes place mainly via the kidneys, primarily via the ascending loop of Henle.

INCREASD (HYPERMAGNESIA):-Conditions that interfere with glomerular filtration result in retention of magnesium and hence elevation of serum concentrations.

1. Acute and chronic renal failure.

2.magnesium overload.

3. Magnesium release from the intracellular space.

4.Mild-to-moderate hypermagnesemia may prolong atrioventricular conduction time. Magnesium toxicity may result in central nervous system (CNS) depression, cardiac arrest, and respiratory arrest.

DECREASED (HYPOMAGNESIA):-

- 1.Chronic alcoholism.
- 2.Childhood malnutrition.
- 3. Malabsorption.
- 4. Acute pancreatitis.
- 5.Hypothyroidism.
- 6.Chronic glomerulonephritis.
- 7.Aldosteronism.
- 8. Prolonged intravenous feeding.

NOTE:-

Numerous studies have shown a correlation between magnesium deficiency and changes in calcium-, potassium-, and phosphate-homeostasis which are associated with cardiac disorders such as ventricular arrhythmias that cannot be treated by conventional therapy, increased sensitivity to digoxin, coronary artery spasms, and sudden death. Additional concurrent symptoms include neuromuscular and neuropsychiatric disorders.

*** End Of Report ***





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