

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		ChopraDr. Yugam Choprary & Microbiology)MD (Pathology)Consultant PathologistCEO & Consultant Pathologist		(Pathology)
NAME	: Mr. MARUT AGGARWAL			
AGE/ GENDER	: 29 YRS/MALE	PATI	ENT ID	: 1810645
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012503290024
REFERRED BY	:	REGI	STRATION DATE	: 29/Mar/2025 09:44 AM
BARCODE NO.	: 01527970	COLL	ECTION DATE	: 29/Mar/2025 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 29/Mar/2025 12:21PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMISTRY	Y/BIOCHEMIS	STRY
		CALCIU	J <b>M</b>	
CALCIUM: SERUM		8.71	mg/dL	8.50 - 10.60
The calcium contern nd <1% is present in In serum, calcium In serum, calcium In the serum, calcium In the serum contern In the serum co	n the extra-osseous intracellu is bound to a considerable ex nized calcium.	er 1 kg (about 2% of the bo lar space or extracellular s tent to proteins (approxim neart and the skeletal musc	space (ECS). lately 40%), 10% is in culature, and are esse	9% is present as calcium hydroxyapatite in bone n the form of inorganic complexes, and 50% is ential for the function of the nervous system. In
Due to the absence Chronic renal failund skeletal resistance NOTE:- A character	ce to the action of parathyroic istic symptom of hypocalcem CREASE CALCIUM LEVELS) CAU tion of calcium from the skele	ed with hypocalcemia due d hormone (PTH). ia is latent or manifest teta SES:-	to decreased vitami	n-D synthesis as well as hyperphosphatemia
Bone metastasis of	carcinoma of the breast, pros calcemia may result in cardiac		g.	





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Test Name		Value	Unit	<b>Biological Reference interval</b>
		VIT	AMINS	
	VITAMIN	N D/25 HY	DROXY VITAMIN D	3
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM 7.7L by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)		7.7 <sup>L</sup>	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

## INTERPRETATION:

INTER REPRINE			
DEFICIENT:	< 20	ng/mL	
INSUFFICIENT:	21 - 29	ng/mL	
PREFFERED RANGE:	30 - 100	ng/mL	
INTOXICATION:	> 100	ng/mL	1

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in

severe hypercalcemia and hyperphophatemia. CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent

hypervitaminosis D NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM	VITAMIN B12/ 241 SSAY)	pg/mL	190.0 - 890.0
	ED VITAMIN B12		DECREASED VITAMI	N B12
1.Ingestion of Vitamin C		1.Pregnancy		
2.Ingestion of Estrogen		2.DRUGS:Aspirin, Anti-convulsants, Colchicine		
3.Ingestion of Vitam		3.Ethanol Igestion		
4.Hepatocellular injury 5.Myeloproliferative disorder		4. Contraceptive Harmones 5.Haemodialysis		
6.Uremia		6. Multiple Myeloma		
2.In humans, it is obt 3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing for <b>NOTE:</b> A normal serur deficiency at the cellu	ency may be due to lack of IF sec intestinal diseases). ency frequently causes macrocy coordination, and affective beh is without macrocytic anemia. nic acid and homocysteine level or antibodies to intrinsic factor n concentration of vitamin B12 of	s and requires intrin cally, reabsorbing vit retion by gastric mu tic anemia, glossitis, avioral changes. The s are also elevated in (IF) is recommended does not rule out tiss If clinical symptoms	sic factor (IF) for absorp amin B12 from the ileun cosa (eg, gastrectomy, g peripheral neuropathy, ese manifestations may n vitamin B12 deficiency to identify this potentia ue deficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have
	2	*** End Of Rep	ort ***	





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