

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. AMAN A	GGARWAL			
AGE/ GENDER	: 59 YRS/MAL	Ε		PATIENT ID	: 1811890
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 012503300025
REFERRED BY	:			REGISTRATION DATE	: 30/Mar/2025 01:19 PM
BARCODE NO.	:01528026			COLLECTION DATE	: 30/Mar/2025 01:24PM
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 30/Mar/2025 02:13PM
LIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD), AMBALA CANTT		
Fest Name			Value	Unit	Biological Reference interval
		CI INIC	CAL CHEMIS	STRY/BIOCHEM	ISTRV
		CLINIC		LCIUM	ISTRI
CALCIUM: SERUM			10.56	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		RY	10.50	Ing/uL	8.50 - 10.00
	V CALCIUM LEVE or impaired fun re is also freque	_S) CAUSES :- ction of the pa ntly associated	arathyroid glands o d with hypocalcemi	r impaired vitamin-D synt	thesis. nin-D synthesis as well as hyperphosphatemia
				est tetany and osteomala	cia.
HYPERCALCEMIA (INC 1.Increased mobiliza 2.Primary hyperpara 3.Bone metastasis of NOTE:-Severe hyperc	tion of calcium fi thyroidism (pHP ⁻ carcinoma of the	rom the skelet [) e breast, prosta	al system or increa ate, thyroid gland,	ased intestinal absorptior or lung.	٦.
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BARCODE NO.	: 01528026	COLLECTION DATE	: 30/Mar/2025 01:24PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 30/Mar/2025 02:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT	
Test Name	Va	alue Unit	Biological Reference interval
		VITAMINS	
	VITAMIN D)/25 HYDROXY VITAMIN I	03
	YDROXY VITAMIN D3): SERUM 5. ESCENCE IMMUNOASSAY)	.5 ^L ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

INTERPRETATION

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

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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		opra Microbiology) sultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)	
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BARCODE NO.	: 01528026	CO	LLECTION DATE	: 30/Mar/2025 01:24PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 30/Mar/2025 02:31PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	BALAMIN: SERUM	VITAMIN B12/(227 SSAY)	C OBALAMIN pg/mL	190.0 - 890.0	
INCREATED			DECREASED VITAMI	N R12	
	INCREASED VITAMIN B12		1.Pregnancy		
2.Ingestion of Estrogen			2.DRUGS:Aspirin, Anti-convulsants, Colchicine		
3.Ingestion of Vitamin A			3.Ethanol Igestion		
4.Hepatocellular ir			4. Contraceptive Harmones		
5.Myeloproliferative disorder			5.Haemodialysis		
6.Uremia			6. Multiple Myeloma sis and normal neuronal function.		
2.In humans, it is ob 3.The body uses its wexcreted. 4.Vitamin B12 deficit ileal resection, smal 5.Vitamin B12 deficit proprioception, poot the neurologic defec 6.Serum methylmalo 7.Follow-up testing f NOTE: A normal serui deficiency at the cell	tained only from animal proteins itamin B12 stores very economic ency may be due to lack of IF sect I intestinal diseases). ency frequently causes macrocyt r coordination, and affective beh ts without macrocytic anemia. nic acid and homocysteine levels for antibodies to intrinsic factor (m concentration of vitamin B12 d	and requires intrins ally, reabsorbing vita retion by gastric muco ic anemia, glossitis, p avioral changes. Thes are also elevated in IF) is recommended t oes not rule out tissu f clinical symptoms su	ic factor (IF) for absorp min B12 from the ileun osa (eg, gastrectomy, g eripheral neuropathy, e manifestations may vitamin B12 deficiency o identify this potentia e 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	
	*	** End Of Repo	rt ***		





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