



			C hopra & Microbiology) onsultant Pathologist		(Pathology)	
NAME	: Mr. HEMAN	Т				
AGE/ GENDER	: 33 YRS/MAL	.E		PATIENT ID	: 1755376	
COLLECTED BY	:			REG. NO./LAB NO.	:012504100059	
EFERRED BY	:			REGISTRATION DATE	: 10/Apr/2025 12:33 PM	
ARCODE NO.	:01528756			COLLECTION DATE	: 10/Apr/2025 12:37PM	
LIENT CODE.	: KOS DIAGNO	OSTIC LAB		REPORTING DATE	: 10/Apr/2025 01:40PM	
LIENT ADDRESS	: 6349/1, NIC	HOLSON ROAI	D, AMBALA CANTT			
Fest Name			Value	Unit	Biological Reference inter	rval
		CLINI	CAL CHEMIS	TRY/BIOCHEMIS	STRY	
			CAI	.CIUM		
CALCIUM: SERUM			9.74	mg/dL	8.50 - 10.60	
VOTE:-Calcium ions a MOTE:-Calcium ions a MINITION, calcium ion MYPOCALCEMIA (LOV . Due to the absence MINITION CONTRACTOR Chronic renal failu and skeletal resistance MOTE:- A character	hized calcium. Iffect the contra is play an impor V CALCIUM LEVE or impaired fur re is also freque ce to the action istic symptom o	ctility of the he tant role in blo (LS) CAUSES :- nction of the pa ently associate of parathyroid f hypocalcemia	eart and the skeletal bod clotting and bor arathyroid glands or d with hypocalcemia hormone (PTH). a is latent or manife	musculature, and are ess ne mineralization. impaired vitamin-D synth	n-D synthesis as well as hyperphosphate	tem. In
IYPERCALCEMIA (INC Increased mobiliza Primary hyperpara Bone metastasis of INTE:-Severe hyperc	tion of calcium f thyroidism (pHP carcinoma of th	from the skele T) he breast, prost	al system or increas ate, thyroid gland, o	sed intestinal absorption. or lung.		





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

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

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



Page 1 of 3





	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. HEMANT			
AGE/ GENDER	: 33 YRS/MALE	I	PATIENT ID	: 1755376
COLLECTED BY	:		REG. NO./LAB NO.	: 012504100059
REFERRED BY	:		REGISTRATION DATE	: 10/Apr/2025 12:33 PM
BARCODE NO.	: 01528756	(COLLECTION DATE	: 10/Apr/2025 12:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	EPORTING DATE : 10/Apr/2025 02:58PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITA	MINS	
	VITAMI	N D/25 HYI	DROXY VITAMIN D	3
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)		39.286	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.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	Dr. Vinay Cl MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. HEMANT			
AGE/ GENDER	: 33 YRS/MALE	PAT	IENT ID	: 1755376
COLLECTED BY	:	REG	. NO./LAB NO.	: 012504100059
REFERRED BY	:	REG	ISTRATION DATE	: 10/Apr/2025 12:33 PM
BARCODE NO.	: 01528756		LECTION DATE	: 10/Apr/2025 12:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 10/Apr/2025 02:12PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD		ORING DAIL	. 10/ Api/ 2020 02.121 M
CLIENI ADDRESS	. 03497 I, MICHOLSON KOAD,	, AMDALA CANTI		
Test Name		Value	Unit	Biological Reference interval
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM	VITAMIN B12/C 142 ^L	DBALAMIN pg/mL	190.0 - 890.0
	SED VITAMIN B12		DECREASED VITAMI	N B12
1.Ingestion of Vitam		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 v excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing fe NOTE :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 ts without macrocytic anemia. nic acid and homocysteine level or antibodies to intrinsic factor n concentration of vitamin B12 of	as and requires intrinsic cally, reabsorbing vitam cretion by gastric mucos tic anemia, glossitis, pe navioral changes. These Is are also elevated in vi (IF) is recommended to does not rule out tissue If clinical symptoms suc	factor (IF) for absorphin B12 from the ileun sa (eg, gastrectomy, g ripheral neuropathy, manifestations may itamin B12 deficiency identify this potentia 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 Repor	t ***	





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.