PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. ACHAL				
AGE/ GENDER	: 27 YRS/MALE		PATIENT ID	: 1703132	
COLLECTED BY	:		REG. NO./LAB NO.	: 122412190001	
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 19/Dec/2024 09:02 AM	
BARCODE NO.	: 12506207		COLLECTION DATE	: 19/Dec/2024 09:09AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		<b>REPORTING DATE</b>	: 19/Dec/2024 12:28PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HA	ARYANA		
Test Name		Value	Unit	Biological Reference interva	
		VII	TAMINS		
	VITA	MIN D/25 H	YDROXY VITAMIN D3		
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM 9.51 <sup>L</sup> by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)			ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
INTERPRETATION:					
DEFI	CIENT:	< 20	ng	/mL	
	FICIENT:	21 <mark>- 29</mark>	ng	/mL	
PREFFER	ED RANGE:	30 - 100	ng	/mL	
INTOX	ICATION:	> 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)

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)** 



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					• • 1		
<b>Test Name</b> VITAMIN B12/COE	ALAMIN: SERUM	Value /ITAMIN B12/0 198.01 <sup>L</sup>	Unit COBALAMIN pg/mL	<b>Biological Refe</b> 200.0 - 1100.0	rence interva		
VITAMIN B12/COE by CMIA (CHEMILUMIN		/ITAMIN B12/0 198.01 <sup>L</sup>	COBALAMIN	U	rence inferva		
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM	/ITAMIN B12/0 198.01 <sup>L</sup>	COBALAMIN pg/mL	200.0 - 1100.0	rence interva		
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4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg, ileal resection, small intestinal diseases).

5.Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.

\*\*\* End Of Report \*\*\*





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**NOT VALID FOR MEDICO LEGAL PURPOSE** 

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