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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. KIRAN				
AGE/ GENDER	: 49 YRS/FEMALE	РАТ	TENT ID	: 1796106	
COLLECTED BY	:	REG	. NO./LAB NO.	: 1225031800	18
REFERRED BY	:	REG	ISTRATION DATE	: 18/Mar/2025 1	2:36 PM
BARCODE NO.	: 12507572	COL	LECTION DATE	: 18/Mar/2025 1	2:46PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		<b>REPORTING DATE</b> : 18/Mar/2025 06:10PM		06:10PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AME	BALA CITY - HARYAI	NA		
Test Name		Value	Unit	Biolog	ical Reference interva
		VITAM	INS		
	VITAM	IIN D/25 HYDR	OXY VITAMIN D3	6	
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM by clia (chemiluminescence immunoassay)			ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
INTERPRETATION:					_
	CIENT:	< 20	5	/mL	
INSUF	FICIENT:	21 - 29	ng	/mL	
DDEFEED	ED RANGE:	30 - 100	na	/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)

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.)



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTI

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		ORTING DATE	: 18/Mar/2025 06:11PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYAN	NA		
					o intorva
Test Name		Value	Unit	<b>Biological Reference</b>	le miel va
Test Name		Value	Unit	Biological Reference	le miei va
		TAMIN B12/C	COBALAMIN	0	te intei va
VITAMIN B12/COE		TAMIN B12/( 113 <sup>L</sup>		<b>Biological Referenc</b> 190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN	BALAMIN: SERUM	TAMIN B12/( 113 <sup>L</sup>	COBALAMIN	0	Le IIIlei Va
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	BALAMIN: SERUM	TAMIN B12/( 113 <sup>L</sup>	COBALAMIN	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	BALAMIN: SERUM IESCENT MICROPARTICLE IMMUNOASSAY	TAMIN B12/( 113 <sup>L</sup>	C <b>OBALAMIN</b> pg/mL	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	BALAMIN: SERUM IESCENT MICROPARTICLE IMMUNOASSAY SED VITAMIN B12 nin C	113 <sup>L</sup>	COBALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan	BALAMIN: SERUM iescent microparticle immunoassay SED VITAMIN B12 nin C gen	113 <sup>L</sup>	COBALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	BALAMIN: SERUM IESCENT MICROPARTICLE IMMUNOASSAY SED VITAMIN B12 hin C gen hin A	TAMIN B12/C 113 <sup>L</sup> 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	COBALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	BALAMIN: SERUM JESCENT MICROPARTICLE IMMUNOASSAY SED VITAMIN B12 hin C gen hin A jury	TAMIN B12/C 113 <sup>L</sup> 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	COBALAMIN pg/mL DECREASED VITAMIN irin, Anti-convulsants, o stion tive Harmones	190.0 - 890.0	

excreted. 4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg,

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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