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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SHILPA MALIK				
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1666274	
COLLECTED BY	:		REG. NO./LAB NO.	: 122411090020	
REFERRED BY	:		REGISTRATION DATE	:09/Nov/2024 11:17 AM	
BARCODE NO.	: 12505558		COLLECTION DATE	:09/Nov/2024 11:36AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	TUTE	REPORTING DATE	:09/Nov/202404:30PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA				
Test Name		Value	Unit	Biological Reference interva	
		Vľ	TAMINS		
	VITAM	IN D/25 H	HYDROXY VITAMIN D3	8	
	DROXY VITAMIN D3): SERUM escence immunoassay)	55.01	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	

INTERPRETATION:

<u>INTERPRETATION:</u>		
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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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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Test Name	VITA	Unit MIN B12/COBALAMIN	Biological Reference interva
VITAMIN B12/COE by CMIA (CHEMILUMIN	VITA		-
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ALAMIN: SERUM 24	MIN B12/COBALAMIN	. 200 - 940
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	VITA ALAMIN: SERUM 2 escent microparticle immunoassay) ED VITAMIN B12	MIN B12/COBALAMIN 69.8 pg/mL	. 200 - 940
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	VITA ALAMIN: SERUM 21 ESCENT MICROPARTICLE IMMUNOASSAY) ED VITAMIN B12 hin C gen	MIN B12/COBALAMIN 69.8 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar	. 200 - 940
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	VITA ALAMIN: SERUM 20 ESCENT MICROPARTICLE IMMUNOASSAY) 21 ED VITAMIN B12 11 nin C 12 gen 11 nin A 12	MIN B12/COBALAMIN 69.8 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar 3.Ethanol Igestion	. 200 - 940
VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam 4.Hepatocellular in	ALAMIN: SERUM 24 ALAMIN: SERUM 24 ESCENT MICROPARTICLE IMMUNOASSAY) 24 ED VITAMIN B12 14 nin C 14 gen 14 nin A 14 jury 14	MIN B12/COBALAMIN 69.8 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar 3.Ethanol Igestion 4. Contraceptive Harmones	. 200 - 940
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	ALAMIN: SERUM 24 ALAMIN: SERUM 24 ESCENT MICROPARTICLE IMMUNOASSAY) 24 ED VITAMIN B12 14 nin C 14 gen 14 nin A 14 jury 14	MIN B12/COBALAMIN 69.8 pg/mI DECREASED VITAN 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsar 3.Ethanol Igestion	. 200 - 940

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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