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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. RAKHI					
AGE/ GENDER	: 45 YRS/FEMALE		PATIENT ID	: 16129	34	
COLLECTED BY	:		REG. NO./LAB NO.	: 122409140033		
REFERRED BY	:		REGISTRATION DATE	: 14/Sep/2024 12:59 PM		
BARCODE NO.	: 12504710		COLLECTION DATE	ECTION DATE : 14/Sep/2024 01:26PM		
LIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		REPORTING DATE	DRTING DATE : 14/Sep/2024 05:49PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA					
Test Name		Value	Unit		Biological Reference interval	
		VI	TAMINS			
			HYDROXY VITAMIN D3			
	ROXY VITAMIN D3): SE ESCENCE IMMUNOASSAY,		ng/mL		DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
	CIENT:	< 20	r	g/mL		
INSUF	ICIENT:	21 <mark>- 29</mark>		g/mL		
	D RANGE:	30 - 100		g/mL		
1.Vitamin D compour conversion of 7- dihy	drocholecalciferol to V	itamin D3 in the skin upo	n plants, Vitamin D2), or cho n Ultraviolet exposure.		 I (from animals, Vitamin D3), or by of Vitamin D, being stored in adipo	
tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt	Ind by a transport prot rimary role in the mair ion, skeletal calcium de nay lead to failure to m	ein while in circulation. Itenance of calcium hom eposition, calcium mobili	eostatis. It promotes calciu zation, mainly regulated by	n absorptio	on, renal calcium absorption and	

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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		amin) is necessary for hema							
		itamin B12 stores very econo	omically, reabsorbing	vitamin B12 from the ileun	n and returning it to the	liver; very little is			
3. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is									
excreted.			secretion by gastric i	mucosa (eg, gastrectomy, g	astric atrophy) or intest	inal malapsorption			
		ancy frequently causes macri	ocytic anomia glossi	tis peripheral neuropathy	weakness hyperroflavi	a atavia loss of			

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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