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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. ASHOK KUMAR					
AGE/ GENDER			: 1398271 : 122411070016			
COLLECTED BY						
REFERRED BY	:	REGISTRATION DATE	: 07/Nov/2024 11:39 AM : 07/Nov/2024 11:45AM : 07/Nov/2024 01:25PM			
BARCODE NO.	: 12505510	COLLECTION DATE				
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE				
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA					
Test Name	Value	Unit	Biological Reference interval			
CALCIUM: SERUM	10.25	CALCIUM mg/dL	8.50 - 10.60			
CALCIUM: SERUM by ARSENAZO III, SPE			8.50 - 10.60			

2. Chronic renal failure is also frequently associated with hypocalcemia due to decreased vitamin-D synthesis as well as hyperphosphatemia and skeletal resistance to the action of parathyroid hormone (PTH).

3.NOTE:- A characteristic symptom of hypocalcemia is latent or manifest tetany and osteomalacia.

HYPERCALCEMIA (INCREASE CALCIUM LEVELS) CAUSES:-

1.Increased mobilization of calcium from the skeletal system or increased intestinal absorption.

2.Primary hyperparathyroidism (pHPT)

3.Bone metastasis of carcinoma of the breast, prostate, thyroid gland, or lung.

NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.



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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NAME	: Mr. ASHOK KUMAR							
AGE/ GENDER	: 66 YRS/MALE	P	ATIENT ID	: 1398271				
COLLECTED BY	:	R	EG. NO./LAB NO.	: 12241107001	6			
REFERRED BY	:	R	EGISTRATION DATE	:07/Nov/20241	1:39 AM			
BARCODE NO.	: 12505510	C	OLLECTION DATE	:07/Nov/20241	1:45AM			
CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	ICARE INSTITUTE REPORTING DATE		: 07/Nov/2024 01:25PM				
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA						
Test Name		Value	Unit	Biologi	cal Reference interva			
		VITA	MINS					
	VITA	AMIN D/25 HYI	DROXY VITAMIN D	3				
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM 30.07 by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)		4 30.07	ng/mL	ng/mL DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 3 SUFFICIENCY: 30.0 - 100 TOXICITY: > 100.0				
INTERPRETATION:					٦			
-	CIENT:	< 20		ı/mL	-			
INSUE	FICIENT	21 - 29	nc	ı/ml				

<u>INTERTRETATION.</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.

*** End Of Report ***



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