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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. SUDESH BHATIA			
AGE/ GENDER	: 68 YRS/FEMALE	PA	TIENT ID	: 1606628
COLLECTED BY	:	RE	G. NO./LAB NO.	: 122409090017
REFERRED BY	:	RE	GISTRATION DATE	: 09/Sep/2024 11:20 AM
BARCODE NO.	: 12504574	CO	LLECTION DATE	:09/Sep/2024 12:02PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE	E INSTITUTE RE	PORTING DATE	:09/Sep/202404:14PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROA	D, AMBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	ſ	LINICAL CHEMISTR		v
	0			•
		CALCI	UM	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.63	mg/dL	8.50 - 10.60
		e diagnosis and monitorin	g of a wide range of dis	sorders including diseases of bone, kidney,
	r gastrointestinal tract.	nin D er protoin lovele		

2. Calcium levels may also reflect abnormal vitamin D or protein levels.

3. The calcium content of an adult is somewhat over 1 kg (about 2% of the body weight). Of this, 99% is present as calcium hydroxyapatite in bones and <1% is present in the extra-osseous intracellular space or extracellular space (ECS).

4. In serum, calcium is bound to a considerable extent to proteins (approximately 40%), 10% is in the form of inorganic complexes, and 50% is present as free or ionized calcium.

NOTE:-Calcium ions affect the contractility of the heart and the skeletal musculature, and are essential for the function of the nervous system. In addition, calcium ions play an important role in blood clotting and bone mineralization.

HYPOCALCEMIA (LOW CALCIUM LEVELS) CAUSES :-

1. Due to the absence or impaired function of the parathyroid glands or impaired vitamin-D synthesis.

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.



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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CLIENT ADDRESS	: NASIRPUR, HISSAR	ROAD, AMBALA CITY - H	IARYANA	Ĩ	
Test Name		Value	Unit	Biological Reference ir	nterval
		V	TAMINS		
		VITAMIN D/25	HYDROXY VITAMIN D	03	
by CLIA (CHEMILUMIN	ROXY VITAMIN D3): S		ng/ml	L DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - SUFFICIENCY: 30.0 - 10 TOXICITY: > 100.0	
NTERPRETATION:		. 20		ng/ml	
	CIENT: TCIENT:	< 20 21 - 29		ng/mL ng/mL	
	D RANGE:	30 - 100	°KR –	ng/mL	
2.25-OHVitamin D re- issue and tightly bou 3.Vitamin D plays a p ohosphate reabsorpti 4.Severe deficiency m DECREASED: 1.Lack of sunshine exit 2.Inadequate intake, 3.Depressed Hepatic 4.Secondary to advan 5.Osteoporosis and So 5.Enzyme Inducing dr NCREASED:	epresents the main bo ind by a transport pro- rimary role in the main on, skeletal calcium d hay lead to failure to m posure. malabsorption (celiac Vitamin D 25- hydroxy ced Liver disease econdary Hyperparath ugs: anti-epileptic dru b is Rare, and is seen o and hyperphophatem	tein while in circulation. Intenance of calcium home position, calcium mobile ineralize newly formed of disease) lase activity roidism (Mild to Modera gs like phenytoin, pheno Inly after prolonged exposition.	t form of Vitamin D and trans neostatis. It promotes calc ization, mainly regulated l osteoid in bone, resulting te deficiency) barbital and carbamazepin sure to extremely high do	ansport form of Vitamin D, being stored cium absorption, renal calcium absorpt by parathyroid harmone (PTH). in rickets in children and osteomalacia ne, that increases Vitamin D metabolisr ses of Vitamin D. When it occurs, it can ment of Vitamin D levels in order to pre	ion and in adults n.

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NOT VALID FOR MEDICO LEGAL PURPOSE

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CLIENT ADDRESS	•						
Test Name		Value	Unit	Biological Reference interva			
VITAMIN B12/COBA		TAMIN B12/CO 201.5	DBALAMIN pg/mL	200.0 - 1100.0			
	IESCENT MICROPARTICLE IMMUNOASSAY)	201.5	pg/IIIL	200.0 - 1100.0			
_	SED VITAMIN B12		DECREASED VITAMIN	B12			
INCREA 1.Ingestion of Vitar	nin C	1.Pregnancy					
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro	nin C gen	2.DRUGS:Aspi	rin, Anti-convulsants,				
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	nin C gen nin A	2.DRUGS:Aspi 3.Ethanol Iges	rin, Anti-convulsants, stion				
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in	nin C gen nin A jury	2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti	irin, Anti-convulsants, stion ive Harmones				
INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	nin C gen nin A jury	2.DRUGS:Aspi 3.Ethanol Iges	irin, Anti-convulsants, stion ive Harmones ysis				

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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