

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		& Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. ANU PURI			
AGE/ GENDER	: 61 YRS/FEMALE	PATIEN	T ID	: 1605992
COLLECTED BY	: SURJESH	REG. NO	)./LAB NO.	: 012409080029
<b>REFERRED BY</b>	:	REGIST	RATION DATE	: 08/Sep/2024 09:08 AM
BARCODE NO.	:01516545	COLLEC	TION DATE	: 08/Sep/2024 09:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 08/Sep/2024 09:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMATOLO	ΟGY	
	ERYT	HROCYTE SEDIMENTA	TION RATE (ESI	R)
ERYTHROCYTE SEDI	MENTATION RATE (ESR)	16	mm/1st h	nr 0 - 20
(polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	n with conditions that inhibit the nificantly high white blood cell of e cell anaemia) also lower the e protein (C-RP) are both market so not change as rapidly as does by as many other factors as is B ed, it is typically a result of two we a higher ESR, and menstruat	count (leucocytosis), and si ESR. S CRP, either at the start of i <b>S CRP</b> , either at the start of i <b>S R, making it a better mark</b> o types of proteins, globuling ion and pregnancy can caus	ome protein abno nflammation or as er of inflammation s or fibrinogen. e temporary eleva	1.





**DR.VINAY CHOPRA** CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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







		<b>hopra</b> & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. ANU PURI : 61 YRS/FEMALE : SURJESH : : 01516545 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAE	R R C R	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1605992 <b>: 012409080029</b> : 08/Sep/2024 09:08 AM : 08/Sep/2024 09:09AM : 08/Sep/2024 10:05AM
Test Name		Value	Unit	Biological Reference interval
	V		MINS DROXY VITAMIN D3	
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)		31.7	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFI	CIENT	< 20	n	ı/mL
DEFICIENT: INSUFFICIENT:		21 - 29		j/mL
PREFFERED RANGE:		30 - 100 > 100		j/mL j/mL
conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bou 3. Vitamin D plays a p ohosphate reabsorpt 4. Severe deficiency n <b>DECREASED:</b> 1. Lack of sunshine ex 2. Inadeguate intake, 3. Depressed Hepatic 4. Secondary to advar	drocholecalciferol to Vitamin E epresents the main body resev und by a transport protein whi rimary role in the maintenance ion, skeletal calcium deposition hay lead to failure to mineralize posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase action ced Liver disease econdary Hyperparathroidism	03 in the skin upon U oir and transport for le in circulation. e of calcium homeos n, calcium mobilizati e newly formed oster wity (Mild to Moderate d	Iltraviolet exposure. m of Vitamin D and trans tatis. It promotes calciun on, mainly requlated by p oid in bone, resulting in r eficiency)	lecalciferol (from animals, Vitamin D3), or by bort form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and varathyroid harmone (PTH). lickets in children and osteomalacia in adults.





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

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VITAMIN B12/COBALAMIN         VITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)         INCERASED VITAMIN B12         INCREASED VITAMIN B12         INCREASED VITAMIN B12         INCREASED VITAMIN B12         1.Ingestion of Vitamin C         1.Pregnancy         2.Ingestion of Strogen         3.Ethanol Igestion         4. Contraceptive Harmones         5.Myeloproliferative disorder         6.Multiple Myeloma         0.VItamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.Indexits its obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         Strue doily for animal proteins and requires intrinsic factor (IF) for absorption.         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.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg. gastrectomy, gastric atrophy) or intestinal malabsorptio leal resection, small intestinal diseases).         5.Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and		Dr. Vinay Ch MD (Pathology & Chairman & Cor					
OULECTED BY       SURJESH       REG. NO./LAB NO.       : 012409080029         REFERRED BY       :       REGISTRATION DATE       : 08/Sep/2024 09:08 AM         AARCODE NO.       : 01516545       COLLECTION DATE       : 08/Sep/2024 09:09AM         SARCODE NO.       :: 01516545       COLLECTION DATE       :: 08/Sep/2024 09:09AM         SILENT CODE       :: KOS DIAGNOSTIC LAB       REPORTING DATE       :: 08/Sep/2024 10:14AM         SILENT ADDRESS       :: 6349/1, NICHOLSON ROAD, AMBALA CANTT       :: 08/Sep/2024 10:14AM         Fest Name       Value       Unit       Biological Reference interva         NITAMIN B12/COBALAMIN: SERUM       513       pg/mL       190.0 - 890.0 <i>by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)</i> DECREASED VITAMIN B12       :       :         1.Ingestion of Vitamin C       1.Pregnancy       :       :       :         2.Ingestion of Strogen       2.DRUGS: Aspirin, Anti-convulsants, Colchicine       :       :       :         3.Ingestion of Vitamin A       3.Ethanoi Igestion       :       :       :       :       :         4.Hepatocellular injury       4. Contraceptive Harmones       :       Multipe Myeloma       :       :       :       :       :       :       :       :       : <th>IAME</th> <th>: Mrs. ANU PURI</th> <th></th> <th></th> <th></th>	IAME	: Mrs. ANU PURI					
REFERED BY       :       REGISTRATION DATE       : 08/Sep/2024 09:08 AM         SARCODE NO.       : 01516545       COLLECTION DATE       : 08/Sep/2024 09:09AM         SARCODE NO.       : 01516545       COLLECTION DATE       : 08/Sep/2024 09:09AM         CLIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 08/Sep/2024 10:14AM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interva         VITAMIN B12/COBALAMIN: SERUM       513       pg/mL       190.0 - 890.0         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)       DECREASED VITAMIN B12       190.0 - 890.0         Interventation       C       1.Pregnancy       2.Ingestion of Vitamin C       1.Pregnancy         2.Ingestion of Vitamin A       3.Ethanol Igestion       3.Ethanol Igestion       3.Ingestion of Vitamin A       3.Ethanol Igestion         3.Ingestion of Vitamin A       3.Ethanol Igestion       6.Multiple Myeloma       1.Vitamin B12 (cobalamin) is necessary for hematopoiseis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.       3.1he body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver: very little is screted.         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal	AGE/ GENDER	: 61 YRS/FEMALE	PATI	ENT ID	: 1605992		
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CLENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference intervation of the second s					1		
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VITAMIN B12/COBALAMIN         //ITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)         MECREASED VITAMIN B12         INCREASED VITAMIN B12         INCREASED VITAMIN B12         1.Ingestion of Vitamin C         2.Ingestion of Vitamin A         3.Ethanol Igestion         4. Contraceptive Harmones         5.Myeloproliferative disorder         6. Multiple Myeloma         Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         Net body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is screted.         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorptio lear resection, small intestinal diseases).         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	LIENI ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI				
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2.Ingestion of Estrogen       2.DRUGS:Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         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.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorptio leal 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			DECREASED VITAMIN B12				
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proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients he neurologic defects without macrocytic anemia.	5.Vitamin B12 deficie	ency frequently causes macrocyl	tic anemia, glossitis, per	ipheral neuropathy,	weakness, hyperreflexia, ataxia, loss of		
The neurologic detects without macrocytic anemia.	proprioception, poor	coordination, and affective beh	avioral changes. These	manifestations may	occur in any combination; many patients have		
5. Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.	the neurologic defec	ts without macrocytic anemia.	s are also elevated in vi	amin P12 deficiency	statos		
7. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption.		חות מכום מחם חסוחסכיאופוחפ ופעפו	s are disu elevated III VI	amm DTZ UENUENUV			

**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 \*\*\*





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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