



	MD (Path	ay Chopra ology & Microbiology) & Consultant Pathologist) (Pathology)
NAME	: Mr. SURJESH			
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1593614
COLLECTED BY	:		REG. NO./LAB NO.	: 012408270062
REFERRED BY	:		REGISTRATION DATE	: 27/Aug/2024 06:32 PM
BARCODE NO.	:01515832		COLLECTION DATE	: 27/Aug/2024 06:35PM
CLIENT CODE.	: KOS DIAGNOSTIC LA	3	REPORTING DATE	: 27/Aug/2024 07:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB)		13.9	gm/dL	12.0 - 17.0
			GLOBIN (HB)	10.0 17.0
by CALORIMETRIC		1017	gin, de	1210 1110
tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by red 5) Kidney failure 6) Abnormal hemogle POLYCYTHEMIA (INCF	ngs. vel is referred to as ANEM HAEMOGLOBIN): Imatic injury, surgery, ble ncy (iron, vitamin B12, fo lems (replacement of bor d blood cell synthesis by c bbin structure (sickle cell EASED HAEMOGLOBIN): Ititudes (Physiological)	IA or low red blood count eding, colon cancer or st late) he marrow by cancer) hemotherapy drugs	t.	oodys tissues and returns carbon dioxide from the
3) Dehydration produ 4) Advanced lung dise 5) Certain tumors 6) A disorder of the b	uces a falsely rise in hemo ease (for example, emphy one marrow known as po	sema) lycythemia rubra vera,		e amount of oxygen available to the body by

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

chemically raising the production of red blood cells).







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BARCODE NO.	:01515832		COLLECTION DATE	: 27/Aug/2024 06:35PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 27/Aug/2024 08:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON I	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMIS	TRY/BIOCHEMISTR	Y
		CHOLESTI	EROL: SERUM	
CHOLESTEROL TOTA		230.53 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
INTERPRETATION: NATIONAL LI	PID ASSOCIATION	CHOLESTEROL IN	ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dl)

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 - 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

NOTE:

Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.
 As per National Lipid association - 2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.





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	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		URIC A	CID	
2.Uric Acid is the end intestinal tract by m INCREASED:- (A).DUE TO INCREASE 1.Idiopathic primary 2.Excessive dietary p 3.Cytolytic treatmen 4.Polycythemai vera 5.Psoriasis. 5.Sickle cell anaemia (B).DUE TO DECREASE 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion (I 5.Diabetic ketoacido 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY I 1.Dietary deficiency 2.Fanconi syndrome 3.Multiple sclerosis	d product of purine meta icrobial degradation. ED PRODUCTION:- gout. urines (organ meats,leg it of malignancies espec & myeloid metaplasia. a etc. ED EXCREATION (BY KIDN less than 2 grams per da usis or starvation. o any cause etc. DEFICIENCY of Zinc, Iron and molybor & Wilsons disease.	umes,anchovies, etc). ally leukemais & lymphomas. IEYS) ny).	o a large degree by the	ound a joint. a kidneys and to a smaller degree in the





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CLIENT CODE. : KOS DIAGNOS			REPORTING DATE	: 27/Aug/2024 08:58PM
CLIENT ADDRESS : 6349/1, NICH	IOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	VI		AMINS YDROXY VITAMIN D3	
VITAMIN D (25-HYDROXY VITAMIN I by CLIA (CHEMILUMINESCENCE IMMUN		27.4 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFICIENT:		< 20	n	n/ml
INSUFFICIENT:		21 - 29		g/mL g/mL
PREFFERED RANGE:		30 - 100		g/mL
conversion of 7- dihvdrocholecalcifero 2.25-OHVitamin D represents the ma issue and tightly bound by a transpo 3. Vitamin D plays a primary role in th phosphate reabsorption, skeletal calc 3. Severe deficiency may lead to failur DECREASED: 1. Lack of sunshine exposure. 2. Inadequate intake, malabsorption (3. Depressed Hepatic Vitamin D 25- hy 4. Secondary to advanced Liver disease 5. Osteoporosis and Secondary Hyperp 5. Enzyme Inducing drugs: anti-epilept NCREASED: 1. Hypervitaminosis D is Rare, and is s evere hypercalcemia and hyperphopl CAUTION : Replacement therapy in def hypervitaminosis D	ol to Vitamin D ain body reseve rt protein while e maintenance ium deposition e to mineralize celiac disease) vdroxylase active barathroidism (ic drugs like ph een only after ph hatemia.	3 in the skin upon ir and transport for a in circulation. of calcium homer , calcium mobiliza newly formed ost ity Mild to Moderate enytoin, phenoba prolonged exposu	Ultraviolet exposure. form of Vitamin D and transpostatis. It promotes calcium ation, mainly regulated by p teoid in bone, resulting in r deficiency) rbital and carbamazepine, r re to extremely high doses pred by periodic assessmen	lecalciferol (from animals, Vitamin D3), or t port form of Vitamin D, being stored in adip n absorption, renal calcium absorption and barathyroid harmone (PTH). ickets in children and osteomalacia in adult that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result i t of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment whicl</i>





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		0
Test Name		Value	Unit	Biological Reference interval
		VITAMIN B12/CO	BALAMIN	
by CMIA (CHEMILUM MMUNOASSAY)	ALAMIN: SERUM	1103 ^H	pg/mL	190.0 - 890.0
by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:-	INESCENT MICROPARTICLE			
by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:-	INESCENT MICROPARTICLE SED VITAMIN B12		pg/mL	
by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitar 2.Ingestion of Estro	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen	Lipregnancy		I B12
by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	INESCENT MICROPARTICLE SED VITAMIN B12 nin C igen nin A	Image: Description of the second s	ECREASED VITAMII	I B12
by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREA 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	Image: Description of the second s	ECREASED VITAMII	I B12
IMMUNOASSAY) INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Vitar 3.Ingestion of Vitar 4.Hepatocellular in 5.Myeloproliferativ	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	Image: Constraint of the second sec	ecreased vitamin n, Anti-convulsants on Harmones s	I B12
by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Vitar 3.Ingestion of Vitar 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	Image: Descent state Image: Descent state 1.Pregnancy 2.DRUGS:Aspirin 2.DRUGS:Aspirin 3.Ethanol Igestin 3.Ethanol Igestin 4. Contraceptive 5.Haemodialysi 5.Haemodialysi 6. Multiple Mye	ECREASED VITAMII n, Anti-convulsants on Harmones s loma	I B12

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT