



AGE/ GENDER : 26	r. NIKHIL YRS/MALE DIESH			
	DIECH		PATIENT ID	: 1735664
COLLECTED BY : SU	IWESTI		REG. NO./LAB NO.	: 012501260024
REFERRED BY :			REGISTRATION DATE	: 26/Jan/2025 11:23 AM
BARCODE NO. : 01	524455		COLLECTION DATE	: 26/Jan/2025 11:33AM
	S DIAGNOSTIC LAB		REPORTING DATE	: 26/Jan/2025 01:48PM
CLIENT ADDRESS : 63	49/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMIS	TRY/BIOCHEMIST	'RV
	CLINI		DFILE : BASIC	
CHOLESTEROL TOTAL: S	SERUM	183.19	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE		100110	ing, uz	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: SERUM		112.5	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE	OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
IDI GUOLECTEDOL (DI		40.07	. / 17	VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL (DIF by SELECTIVE INHIBITION	RECT): SERUM	46.67	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
DI CHOLECTEDOL CED		114.02	IL / mark	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
LDL CHOLESTEROL: SER by CALCULATED, SPECTROF		114.02	mg/dL	ABOVE OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLESTERO		136.52 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROF	PHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
/LDL CHOLESTEROL: SE	CRUM	22.5	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPECTROF				
FOTAL LIPIDS: SERUM by CALCULATED, SPECTROF	PHOTOMETRY	478.88	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RA	TIO: SERUM	3.93	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROF	PHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
	AL.	k	hokra	



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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. NIKHIL			
AGE/ GENDER	: 26 YRS/MALE	PA	TIENT ID	: 1735664
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012501260024
REFERRED BY	:	RE	GISTRATION DATE	: 26/Jan/2025 11:23 AM
BARCODE NO.	E NO. : 01524455		LLECTION DATE	: 26/Jan/2025 11:33AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 26/Jan/2025 01:48PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.44 2.41^L	RATIO RATIO	MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 3.00 - 5.00
by CALCULATED, SPE		Z.41~	IA110	3.00 - 3.00

INTERPRETATION:

1. 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. 2. As per NLA-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.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non HDL.

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	М	r. Vinay Chop D (Pathology & M hairman & Consult	icrobiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. NIKHIL : 26 YRS/MALE : SURJESH : : 01524455 : KOS DIAGNOST : 6349/1, NICHO	FIC LAB DLSON ROAD, AM		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1735664 : 012501260024 : 26/Jan/2025 11:23 AM : 26/Jan/2025 11:33AM : 26/Jan/2025 01:48PM
Test Name			Value	Unit	Biological Reference interval
/ITAMIN D (25-HY by clia (chemilumin		D3): SERUM	IN D/25 HY 5.49 ^L	Y DROXY VITAMIN D ang/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
	CIENT:		< 20		TOXICITY: > 100.0
INSUFFICIENT: PREFFERED RANGE:			21 - 29 30 - 100		g/mL g/mL
conversion of 7- dihy 2.25-OHVitamin D r issue and tightly bo 3.Vitamin D plays a p ohosphate reabsorp 1.Severe deficiency r DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake, 3.Depressed Hepatic	vdrocholecalciferol represents the mai und by a transport primary role in the tion, skeletal calciu may lead to failure (posure. , malabsorption (ca Vitamin D 25- hyd nced Liver disease Secondary Hyperpa	to Vitamin D3 in h body resevoir a protein while in maintenance of o m deposition, ca to mineralize new eliac disease) roxylase activity rathroidism (Mild	the skin upon nd transport for circulation. calcium homeo lcium mobiliza wly formed ost	Ultraviolet exposure. form of Vitamin D and trans ostatis. It promotes calciun tion, mainly regulated by p eoid in bone, resulting in r deficiency)	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose in absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism.

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Page 3 of 4





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA				
LIENT ADDRESS					
LIENI ADDRESS	,				
Test Name		Value	Unit	Biological Reference int	terv
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN	ALAMIN: SERUM	VITAMIN B12/CO 149.28 ^L		Biological Reference int 190.0 - 830	terv
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:-	ESCENT MICROPARTICLE IMMUN	VITAMIN B12/CO 149.28 ^L OASSAY)	BALAMIN pg/mL	190.0 - 830	terv
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUN	VITAMIN B12/CO 149.28 ^L	BALAMIN	190.0 - 830	terv
Test Name VITAMIN B12/COB <i>by CMIA (CHEMILUMIN</i> <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNG ED VITAMIN B12 hin C	VITAMIN B12/CO 149.28 ^L OASSAY)	BALAMIN pg/mL ECREASED VITAMIN	190.0 - 830	terv
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUNG ED VITAMIN B12 hin C gen	VITAMIN B12/CO 149.28 ^L OASSAY)	BALAMIN pg/mL ECREASED VITAMIN n, Anti-convulsants,	190.0 - 830	terv
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 hin C gen hin A	VITAMIN B12/CO 149.28 ^L OASSAY) 1.Pregnancy 2.DRUGS:Aspirin	BALAMIN pg/mL ECREASED VITAMIN n, Anti-convulsants, on	190.0 - 830	terv
Test Name VITAMIN B12/COB by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroy 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CO 149.28 ^L OASSAY)	BALAMIN pg/mL ECREASED VITAMIN h, Anti-convulsants, on Harmones	190.0 - 830	terv

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 amin B12 deficiency states.

7.Follow-up testing for antibodies identify this potential cause of vitamin B12 malabsorption. NOTE: A normal serum concentrat deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is t jest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamir

*** End Of Report ***





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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

aci ocytic anenna.
homocysteine levels are also elevated in vita
s to intrinsic factor (IF) is recommended to id
tion of vitamin B12 does not rule out tissue d
he assay for MMA. If clinical symptoms sugg
n B12 concentrations are normal.