



ISO 9001 : 2008 CERT	IFIED LAB		EXCELLENCE IN HEALTHCARE &	& DIAGNOSTICS
		<b>Chopra</b> gy & Microbiology) Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. SURINDER MALHO : 64 YRS/MALE : SURJESH : : 01518113 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON RO	P R C R	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE EPORTING DATE	: 1630915 : 012410010043 : 01/Oct/2024 10:58 AM : 01/Oct/2024 11:07AM : 01/Oct/2024 12:17PM
Test Name		Value	Unit	Biological Reference interval
	CI	LIPID PROF	RY/BIOCHEMISTRY	
CHOLESTEROL TOTA by CHOLESTEROL O		192.93	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	98.8	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL by SELECTIVE INHIBIT		53.54	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: by calculated, spe		119.63	mg/dL	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 CHOLESTE by CALCULATED, SP	EROL: SERUM ECTROPHOTOMETRY	139.39 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL by CALCULATED, SPE	: SERUM ECTROPHOTOMETRY	19.76	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU by CALCULATED, SPE	M ECTROPHOTOMETRY	484.66	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM ECTROPHOTOMETRY	3.6	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SEF	RUM	2.23	RATIO	LOW RISK: 0.50 - 3.0
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & M	CONSULT	M CHOPRA ANT PATHOLOGIST D (PATHOLOGY)	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chc MD (Pathology & I Chairman & Const	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SURINDER MALHOTRA			
AGE/ GENDER	: 64 YRS/MALE	PA	ATIENT ID	: 1630915
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012410010043
<b>REFERRED BY</b>	:	RI	EGISTRATION DATE	: 01/Oct/2024 10:58 AM
BARCODE NO.	:01518113	CO	DLLECTION DATE	: 01/Oct/2024 11:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 01/Oct/2024 12:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by CALCULATED, SPE	CTROPHOTOMETRY			MODERATE RISK: 3.10 - 6.0
				HIGH RISK: $> 6.0$
TRIGLYCERIDES/HD by CALCULATED, SPI INTERPRETATION:		1.85 <sup>L</sup>	RATIO	3.00 - 5.00

**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.

 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.
 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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NAME	: Mr. SURINDER MALHOTR	A		
AGE/ GENDER	: 64 YRS/MALE	PATI	ENT ID	: 1630915
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	II	Value IMUNOPATHOLO		Biological Reference interval
Test Name	II		GY/SEROLOGY	Biological Reference interval

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:** 

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





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LIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
INTERPRETATION:-	IESCENT MICROPARTICLE IMMUI		DECREASED VITAMI	N B12
1.Ingestion of Vitan		1.Pregna		
2.Ingestion of Estro			Aspirin, Anti-convulsants	, Colchicine
3.Ingestion of Vitam		3.Ethano		
4.Hepatocellular injury 5.Myeloproliferative disorder		4. Contra 5.Haemo	ceptive Harmones	
6.Uremia			6. Multiple Myeloma	
I.Vitamin B12 (cobal	amin) is necessary for hemat	topoiesis and normal i	neuronal function.	
	tained only from animal prot			
8. The body uses its v excreted.	itamin B12 stores very econo	mically, reabsorbing v	Itamin B12 from the ileun	n and returning it to the liver; very little is
1.Vitamin B12 deficie		secretion by gastric m	ucosa (eg, gastrectomy, g	astric atrophy) or intestinal malabsorption (eg,
	intestinal diseases).		norinhoral nouronathy	weekness hunerreflevie stavie less of
proprioception, poor	coordination, and affective	behavioral changes. Th	s, peripheral neuropathy, nese manifestations may (	weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have
he neurologic defect	ts without macrocytic anemia	l. –		
Serum methylmalo	nic acid and homocysteine le	evels are also elevated	in vitamin B12 deficiency	states. al cause of vitamin B12 malabsorption.
				B12. The most sensitive test for vitamin B12

**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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