



	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo	MI	m Chopra D (Pathology) nt Pathologist
NAME : Mr. SURIN	NDER SINGH		
AGE/ GENDER : 43 YRS/MA	ALE	PATIENT ID	: 1566113
COLLECTED BY :		REG. NO./LAB NO.	: 012407310007
REFERRED BY :		REGISTRATION DATE	: 31/Jul/2024 07:39 AM
BARCODE NO. : 01514147		COLLECTION DATE	: 31/Jul/2024 09:57AM
CLIENT CODE. : KOS DIAGI	NOSTIC LAB	REPORTING DATE	: 31/Jul/2024 09:58AM
CLIENT ADDRESS : 6349/1, N	ICHOLSON ROAD, AMBALA CAN	TT	
Test Name	Value	Unit	Biological Reference interval
	CUNICAL CHEM	IISTRY/BIOCHEMIST	RV
		PROFILE : BASIC	
CHOLESTEROL TOTAL: SERUM	225.18 ¹		OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	223.10		BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM	165.29 ¹	H mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDAS			BORDERLINE HIGH: 150.0 - 199.0
			HIGH: 200.0 - 499.0
HDL CHOLESTEROL (DIRECT): SER	UM 46.66	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
by SELECTIVE INHIBITION	40.00	nig/ dL	BORDERLINE HIGH HDL: 30.0 -
			60.0
		ll	HIGH HDL: $>$ OR = 60.0
.DL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOM	145.46 ¹	H 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 CHOLESTEROL: SERUM by calculated, spectrophotom	178.52 ¹	H mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0
			BORDERLINE HIGH: 160.0 - 189.0
			HIGH: 190.0 - 219.0
	22.07	ma/dl	VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOM	33.06 ETRY	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM	615.65	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOM. CHOLESTEROL/HDL RATIO: SERU		RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOM		KATIO	AVERAGE RISK: 4.50 - 7.0
			MODERATE RISK: 7.10 - 11.0
			HIGH RISK: > 11.0
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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra v & Microbiology) onsultant Pathologist		(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY		3.12 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY		3.54	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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		h opra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)	
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Test Name		Value	Unit	Biological Reference interval	
		CALCIU	JM		
CALCIUM: SERUM		9.63	mg/dL	8.50 - 10.60	

by ARSENAZO III, SPECTROPHOTOMETRY

INTERPRETATION:-

1.Serum calcium (total) estimation is used for the diagnosis and monitoring of a wide range of disorders including diseases of bone, kidney, parathyroid gland, or gastrointestinal tract.

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.

*** End Of Report ***





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