PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. ARVIND GOYAL			
AGE/ GENDER	: 38 YRS/MALE		PATIENT ID	: 1767790
COLLECTED BY	:		REG. NO./LAB NO.	: 122502240005
REFERRED BY	:		REGISTRATION DATE	: 24/Feb/2025 09:01 AM
BARCODE NO.	: 12507190		COLLECTION DATE	: 24/Feb/2025 09:13AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	STITUTE	REPORTING DATE	: 24/Feb/2025 10:44AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HAI	RYANA	
Test Name		Value	Unit	Biological Reference interval
	CLINIC	CAL CHEMIST	FRY/BIOCHEMIST	RY
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		270.16 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	188.95 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM TON	40.81	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		191.56 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES' by calculated, spe		229.35 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER		37.79	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	729.27 ^H	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		6.62 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





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		TI %	
Test Name	Value	Unit	Biological Reference interval
			MODEDATE DISK: 710 110

LDL/HDL RATIO: SERUM by Calculated, SPECTROPHOTOMETRY	4.69 ^H	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
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	4.63	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.

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 HDI

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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L		TAMINS	-
Test Name	Value	Unit	Biological Reference interva
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 24/Feb/2025 02:32PM
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NAME	: Mr. ARVIND GOYAL		

VITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)	32.8	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
			TOXICITY: > 100.0

INTERPRETATION

<u>INTERFRETATION.</u>		
DEFICIENT:	< 20	ng/mL
INSUFFICIENT:	21 - 29	ng/mL
PREFFERED RANGE:	30 - 100	ng/mL
INTOXICATION:	> 100	ng/mL

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults.

DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease)

3. Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED:

1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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NOT VALID FOR MEDICO LEGAL PURPOSE



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Test Name		Value	Unit	Biological Reference interva	
by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOASSAY)				
INTERPRETATION:-					
	SED VITAMIN B12	DECREASED VITAMIN B12			
1.Ingestion of Vitan		1.Pregnancy			
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitamin A		3.Ethanol Igestion			
4.Hepatocellular injury		4. Contraceptive Harmones			
		5.Haemodialysis			
6.Uremia 6. Mi 1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and nor		6. Multiple Myeloma			
	tained only from animal proteins and itamin B12 stores very economically, r			aturning it to the liver: very little is	
excreted.	itanini diz stores very economically, i				
		cabsorbing vitamin biz noi		eturning it to the liver, very little is	
4. VITAMIN BIZ DEFICIE	ency may be due to lack of IF secretion				

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 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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