A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. KASHMIRI LAL			
AGE/ GENDER	: 54 YRS/MALE	PAT	IENT ID	: 1577931
COLLECTED BY	:	REG	. NO./LAB NO.	: 122408120005
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 12/Aug/2024 09:45 AM
BARCODE NO.	: 12504112	COL	LECTION DATE	: 12/Aug/2024 09:51AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE I	NSTITUTE <b>REP</b>	ORTING DATE	: 12/Aug/2024 01:11PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD,	AMBALA CITY - HARYAN	IA	
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	/BIOCHEMISTR	Y
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTAL		160.05	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSE	UM HATE OXIDASE (ENZYMATIC)	233.35 <sup>H</sup>	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 INHIBITI		32.62	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		80.77	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 CHOLESTEI by CALCULATED, SPE		127.43	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:		46.67 <sup>H</sup>	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	553.46	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	4.91 <sup>H</sup>	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: SER	UM	2.48	RATIO	LOW RISK: 0.50 - 3.0

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



MODERATE RISK: 3.10 - 6.0

HIGH RISK: > 6.0

3.00 - 5.00

RATIO

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Test Name	Value	Unit	Biological Reference interval

by CALCULATED, SPECTROPHOTOMETRY

## **TRIGLYCERIDES/HDL RATIO: SERUM** by CALCULATED, SPECTROPHOTOMETRY **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

7.15<sup>H</sup>

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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3.60 - 7.70

mg/dL

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
		KIDNEY FUNC	FION TEST (BASIC)	
UREA: SERUM by urease - glutam	IATE DEHYDROGENASE (GLDH)	31.6	mg/dL	10.00 - 50.00
CREATININE: SERUN by ENZYMATIC, SPEC		0.9	mg/dL	0.40 - 1.40
BLOOD UREA NITRO	GEN (BUN): SERUM	14.77	mg/dL	7.0 - 25.0
RATIO: SERUM	GEN (BUN)/CREATININE	16.41	RATIO	10.0 - 20.0
UREA/CREATININE F	ECTROPHOTOMETERY RATIO: SERUM	3 <mark>5.11</mark>	KR RATIO	

4.11

by CALCULATED, SPECTROPHOTOMETERY URIC ACID: SERUM

by URICASE - OXIDASE PEROXIDASE





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
To Differentiate betw <b>INCREASED RATIO</b> (>2 1.Prerenal azotemia glomerular filtration 2.Catabolic states wi 3.GI hemorrhage. 4.High protein intake 5.Impaired renal fund 6.Excess protein intal burns,surgery, cache: 7.Urine reabsorption 8.Reduced muscle m: 9.Certain drugs (e.g. t <b>INCREASED RATIO</b> (>2 1.Postrenal azotemia 2.Prerenal azotemia 2.Prerenal azotemia 5.DECREASED RATIO (<7 1.Acute tubular nector 2.Low protein diet an 3.Severe liver disease 4.Other causes of dec 5.Repeated dialysis (i 6.Inherited hyperami 7.SIADH (syndrome o 8.Pregnancy. <b>DECREASED RATIO</b> (<7 1.Phenacimide therap 2.Rhabdomyolysis (re 3.Muscular patients <b>INAPPROPIATE RATIO</b> 1.Diabetic ketoacidos should produce an in	rate. th increased tissue breakdown. th increased tissue breakdown. te or production or tissue breakdown te or production or tissue breakdown te or production or tissue breakdown te, ureterocolostomy) ass (subnormal creatinine production etracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATININE LET</b> (BUN rises disproportionately more uperimposed on renal disease. <b>10:1) WITH DECREASED BUN :</b> biss. d starvation. treased urea synthesis. urea rather than creatinine diffuses monemias (urea is virtually absent in f inappropiate antidiuretic harmone <b>10:1) WITH INCREASED CREATININE:</b> by (accelerates conversion of creating eleases muscle creatinine). who develop renal failure. :	inine) e.g. heart failure (n (e.g. infection, GI ble on) <b>VELS:</b> a than creatinine) (e.g. b out of extracellular fle n blood). b) due to tubular secret ne to creatinine).	eeding, thyrotoxico obstructive uropat uid). ion of urea.	ehydration, blood loss) due to decreased osis, Cushings syndrome, high protein diet, thy).





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RHEUMATOID FACTOR	Unit THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
HISSAR ROAD, AMBALA CITY - 1 Value IMMUNOPAT RHEUMATOID FACTOR IITATIVE: 293.07 <sup>H</sup>	REGISTRATION DATE COLLECTION DATE REPORTING DATE HARYANA Unit THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	: 12/Aug/2024 09:45 AM : 12/Aug/2024 09:51AM : 12/Aug/2024 05:12PM Biological Reference interval SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0 ed in its tertiary structure.
HISSAR ROAD, AMBALA CITY - 1 Value IMMUNOPAT RHEUMATOID FACTOR IITATIVE: 293.07 <sup>H</sup>	COLLECTION DATE REPORTING DATE HARYANA Unit THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	: 12/Aug/2024 09:51AM : 12/Aug/2024 05:12PM Biological Reference interval SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
HISSAR ROAD, AMBALA CITY - 1 Value IMMUNOPAT RHEUMATOID FACTOR IITATIVE: 293.07 <sup>H</sup>	REPORTING DATE HARYANA Unit THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	: 12/Aug/2024 05:12PM Biological Reference interval SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
HISSAR ROAD, AMBALA CITY - 1 Value IMMUNOPAT RHEUMATOID FACTOR IITATIVE: 293.07 <sup>H</sup>	HARYANA Unit THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	Biological Reference interval SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0 ed in its tertiary structure.
Value IMMUNOPAT RHEUMATOID FACTOR IITATIVE: 293.07 <sup>4</sup>	Unit THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	• SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
IMMUNOPAT RHEUMATOID FACTOR IITATIVE: 293.07 <sup>H</sup>	THOLOGY/SEROLOGY R (RA): QUANTITATIVE - H IU/mL	• SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
RHEUMATOID FACTOR	R (RA): QUANTITATIVE -	• SERUM NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
ritative: 293.07 <sup>4</sup>	the Fc fragment of IgG altere	NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
	the Fc fragment of IgG altere	BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
	the Fc fragment of IgG altere	ed in its tertiary structure.
vhich ledas to progressive joint large joints, with greatest dam ased on clinical, radiological & i toid arthiritis, as it is often prese thritis (RA) populations are not c nd 8% of nonrheumatoid patient id diseases, characterized by chro berculosis, syphilis, viral hepatiti. ints of patients with RA, but not vative Rheumatoid arthiritis also	t destruction and in most cas nage in early phase. immunological features.The ent in healthy individuals with clearly separate with regard t the have a positive titer). onic inflammation may have p tis, infectious mononucleosis, a t in other form of joint disease o show Anti-CCP antibodies.	e.Anti-CCP2 is HIGHLY SENSITIVE (71%) & more
in ai	its of patients with RA, but no tive Rheumatoid arthiritis also	nts of patients with RA, but not in other form of joint disease tive Rheumatoid arthiritis also show Anti-CCP antibodies. CCP antibodies for Rheumatoid Arthiritis is far greater than i



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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**NOT VALID FOR MEDICO LEGAL PURPOSE** 





## **PKR JAIN HEALTHCARE INSTITUTE** NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

0171-2532620, 8222896961 🛛 🖂 pkrjainhealthcare@gmail.com

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE <b>R</b> I	EPORTING DATE	: 12/Aug/2024 03:25PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
		VITA	VIINS	
	VITA	MIN D/25 HYD	ROXY VITAMIN D3	

## INTERPRETATION:

INTERI RETATION.		
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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LIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	AMBALA CITY - HARYAN	Α		
Test Name		Value	Unit	Biological Reference interva	
/ITAMIN B12/COBA	LAMIN: SERUM Nescent microparticle	VITAMIN B12/C0 141.1 <sup>L</sup>		200 - 940	
/ITAMIN B12/COBA		VITAMIN B12/C	OBALAMIN		
/ITAMIN B12/COBA by CMIA (CHEMILUMII MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS	NESCENT MICROPARTICLE	<b>VITAMIN B12/CO</b> 141.1 <sup>L</sup>	OBALAMIN	200 - 940	
/ITAMIN B12/COBA by CMIA (CHEMILUMII MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	NESCENT MICROPARTICLE ED VITAMIN B12 nin C	VITAMIN B12/CO 141.1 <sup>L</sup>	DBALAMIN pg/mL DECREASED VITAMIN I	200 - 940 B12	
/ITAMIN B12/COBA by CMIA (CHEMILUMII MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	NESCENT MICROPARTICLE ED VITAMIN B12 hin C gen	VITAMIN B12/CO 141.1 <sup>L</sup>	DBALAMIN pg/mL DECREASED VITAMIN I rin, Anti-convulsants, 0	200 - 940 B12	
/ITAMIN B12/COBA by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	NESCENT MICROPARTICLE ED VITAMIN B12 nin C gen nin A	VITAMIN B12/CO 141.1 <sup>L</sup> 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN I rin, Anti-convulsants, ( stion	200 - 940 B12	
/ITAMIN B12/COBA by CMIA (CHEMILUMII MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	NESCENT MICROPARTICLE ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/CO 141.1 <sup>L</sup>	DBALAMIN pg/mL DECREASED VITAMIN I rin, Anti-convulsants, ( stion ve Harmones	200 - 940 B12	

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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