A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. NISHAN SINGH			
AGE/ GENDER	: 37 YRS/MALE		PATIENT ID	: 1535693
COLLECTED BY	:		REG. NO./LAB NO.	: 122407020002
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 02/Jul/2024 08:12 AM
BARCODE NO.	: 12503396		<b>COLLECTION DATE</b>	: 02/Jul/2024 08:27AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	<b>REPORTING DATE</b>	: 02/Jul/2024 08:47AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAI	LA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS <sup>-</sup>	THYA WI	ELLNESS PANEL: 1.0	
	CON	IPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by calorimetric		15.6	gm/dL	12.0 - 17.0
RED BLOOD CELL (RB		5.84 <sup>H</sup>	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUN	FOCUSING, ELECTRICAL IMPEDENCE IE (PCV) UTOMATED HEMATOLOGY ANALYZER	49.4	%	40.0 - 54.0
MEAN CORPUSCULA		84.6	KR fl	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	26.6 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	31.5 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.7	%	11.00 - 16.00
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	49.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		14.49	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13.
GREEN & KING INDE by CALCULATED	X	22.65	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS	<u>5 (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ' by sf cube & microscopy	4810	/cmm	4000 - 11000
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	OOD CELLS (nRBCS) <i>UTOMATED HEMATOLOGY ANALYZER</i> &	NIL		0.00 - 20.00
	OOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %



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Page 1 of 14

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	MBALA CITY - H	IARYANA	
Test Name		Value	Unit	Biological Reference interval
	Y BY SF CUBE & MICROSCOPY	51	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	38	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	8	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCY	(TES (WBC) COUNT			
ABSOLUTE NEUTROI	PHIL COUNT	2453	/cmm	2000 - 7500

BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2453	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1828	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	144	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	385	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS	<u>5.</u>		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	267000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.37 <sup>H</sup>	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	14 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	139000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	52.2 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	16.3	%	15.0 - 17.0
NOTE, TEST CONDUCTED ON EDTA WHOLE DLOOD			

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE <b>REI</b>	PORTING DATE	: 02/Jul/2024 09:41AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMEN	NTATION RATE (ESP	R)
	MENTATION RATE (ESR)	5	mm/1st h	n 0 - 20
INTERPRETATION:				
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	cted by other conditions besides be used to monitor disease activi ematosus	inflammation. For thi	s reason, the ESR is typ	on associated with infection, cancer and auto body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as
A low ESR can be see (polycythaemia), sign	n with conditions that inhibit the	unt (leucocytosis), a	on of red blood cells, sund some protein abnor	ich as a high red blood cell count malities. Some changes in red cell shape (suc

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.

5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE <b>REI</b>	PORTING DATE	: 02/Jul/2024 09:58AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interv
	CLIN	ICAL CHEMISTR	Y/BIOCHEMISTR	Y
		GLUCOSE FA	STING (F)	

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE	<b>REPORTING DATE</b>	: 02/Jul/2024 10:07AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	MBALA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID P	ROFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		193.88	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU by GLYCEROL PHOSPH	JM HATE OXIDASE (ENZYMATIC)	143.54	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E		65.78	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SE by CALCULATED, SPEC		99.39	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 CHOLESTER by CALCULATED, SPEC		128.1	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: S		28.71	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPEC	1	531.3	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	2.95	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: SERU		1.51	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	
Test Name	Value	Unit	<b>Biological Reference interval</b>

Test Name	Value	Unit	biological Reference interval	
TRIGLYCERIDES/HDL RATIO: SERUM	2.18 <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.

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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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITIITE	REPORTING DATE	: 02/Jul/2024 10:40AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM			. 02/Jul/ 2024 10.40Alvi
Test Name		Value	Unit	Biological Reference interva
	LIV	ER FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.86	mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.00	ing/ dE	ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (	CONJUGATED): SERUM	0.23	mg/dL	0.00 - 0.40
by DIAZO MODIFIED,	SPECTROPHOTOMETRY			
	(UNCONJUGATED): SERUM	0.63	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	ECTROPHOTOMETRY	39.5	U/L	7.00 - 45.00
	RIDOXAL PHOSPHATE	37.3	UIL	7.00 - 43.00
SGPT/ALT: SERUM		84.2 <sup>H</sup>		0.00 - 49.00
•		0.47	DATIO	0.00 4/ 00
AST/ALT RATIO: SER	CUIVI ECTROPHOTOMETRY	0.47	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		86.44	U/L	40.0 - 130.0
	YL PHOSPHATASE BY AMINO METHYL			
PROPANOL GAMMA GILITAMVI	L TRANSFERASE (GGT): SERUM	(F 0/H	U/L	0.00 - 55.0
by SZASZ, SPECTRO		65.06 <sup>H</sup>	0/1	0.00 - 55.0
TOTAL PROTEINS: SI		7.65	gm/dL	6.20 - 8.00
by BIURET, SPECTRO	PHOTOMETRY			
ALBUMIN: SERUM	DEEN	4.45	gm/dL	3.50 - 5.50
by BROMOCRESOL G GLOBULIN: SERUM	IKEEN	3.2	am /dl	2 20 2 50
	ECTROPHOTOMETRY	3.2	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.39	RATIO	1.00 - 2.00
	ECTROPHOTOMETRY			

by CALCULATED, SPECTROPHOTOMETRY

### **INTERPRETATION**

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

#### **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	- HARYANA	

Test Name Value Unit Biological Reference interv	est Name Value	Unit	
--	----------------	------	--

#### **DECREASED:**

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PRO	GNOSTIC	SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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Test Name		Value	Unit	Biological Reference interval
	KIE	NEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		16.7	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		1.11	mg/dL	0.40 - 1.40
BLOOD UREA NITRO		7.8	mg/dL	7.0 - 25.0
by CALCULATED, SPE	CTROPHOTOMETRY			
	GEN (BUN)/CREATININE	7.03 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE R		15.05	RATIO	
by CALCULATED, SPE	CTROPHOTOMETRY			
URIC ACID: SERUM		5.95	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	E PEROXIDASE	10.42	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	CTROPHOTOMETRY	10.42	TTIQ/UL	8.30 - 10.00
PHOSPHOROUS: SER		3.08	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY			
<u>ELECTROLYTES</u>				
Sodium: Serum		141.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV			man al /l	
POTASSIUM: SERUM by ISE (ION SELECTIV		4.64	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		106.13	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	-			
ESTIMATED GLOME	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	87.7		
(eGFR): SERUM				
by CALCULATED				

#### **INTERPRETATION:**

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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Value	Unit	Biological Reference interval
-	: 37 YRS/MALE : : : 12503396 : P.K.R JAIN HEALTHCARE INSTITUTE : NASIRPUR, HISSAR ROAD, AMBALA CITY - Value	<ul> <li>: 37 YRS/MALE</li> <li>: 37 YRS/MALE</li> <li>: REG. NO./LAB NO.</li> <li>: REGISTRATION DATE</li> <li>: 12503396</li> <li>: COLLECTION DATE</li> <li>: P.K.R JAIN HEALTHCARE INSTITUTE</li> <li>: REPORTING DATE</li> <li>: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA</li> </ul>

5. Impaired renal function plus

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet,

burns, surgery, cachexia, high fever).

7. Urine reabsorption (e.g. ureter colostomy)

8. Reduced muscle mass (subnormal creatinine production)

9. Certain drugs (e.g. tetracycline, glucocorticoids)

#### INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

#### DECREASED RATIO (<10:1) WITH DECREASED BUN :

1. Acute tubular necrosis.

2. Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

#### DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

#### **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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NAME	: Mr. NISHAN SINGH		
AGE/ GENDER	: 37 YRS/MALE	PATIENT ID	: 1535693
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 122407020002
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 02/Jul/2024 08:12 AM
BARCODE NO.	: 12503396	<b>COLLECTION DATE</b>	: 02/Jul/2024 08:27AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 02/Jul/2024 10:07AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	

Test Name	Value	Unit	<b>Biological Reference interval</b>

COMMENTS:

1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage 5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure 6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C 7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE <b>RE</b> I	PORTING DATE	: 02/Jul/2024 10:40AM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYA	NA	
Test News		Value	Unit	Biological Reference interva
Test Name		VITAM	IINS	
		VITAM	IINS	biological kererence interva
VITAMIN B12/COBA	LAMIN: SERUM		IINS	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:-	NESCENT MICROPARTICLE	VITAM VITAMIN B12/0	IINS COBALAMIN pg/mL	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS	NESCENT MICROPARTICLE	VITAM VITAMIN B12/0 105 <sup>L</sup>	IINS COBALAMIN	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C	VITAM VITAMIN B12/0 105 <sup>L</sup>	IINS COBALAMIN pg/mL DECREASED VITAMIN B	190.0 - 890.0 12
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE SED VITAMIN B12 hin C gen	VITAM VITAMIN B12/0 105 <sup>L</sup>	DECREASED VITAMIN B	190.0 - 890.0 12
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 hin C gen hin A	VITAM VITAMIN B12/0 105 <sup>L</sup> 1.Pregnancy 2.DRUGS:As 3.Ethanol Ige	DECREASED VITAMIN B DECREASED VITAMIN B	190.0 - 890.0 12
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	VITAM VITAMIN B12/0 105 <sup>L</sup> 1.Pregnancy 2.DRUGS:As 3.Ethanol Ige	Dirin, Anti-convulsants, Constant Dirin Anti-convulsants, Constant Streestion	190.0 - 890.0 12

3. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.

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 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.





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CLIENT ADDRESS				. 02/Jul/ 2024 10.51AW
CLIENI ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IDALA UITT - ΠΕ	ALIANA	
Test Name		Value	Unit	Biological Reference interva
		CLINICAL	PATHOLOGY	
	URINE RC	DUTINE & MI	CROSCOPIC EXAMIN	ATION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVED	)	10	ml	
•	TANCE SPECTROPHOTOMETRY			
COLOUR		AMBER Y	ELLOW	PALE YELLOW
<i>by DIP STICK/REFLEC</i> TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE & LOTTON HOTOMETRY	<=1.005		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	<=1.005		1.002 1.000
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY			
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	5		ζ,
SUGAR		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
рН		<=5.0		5.0 - 7.5
,	TANCE SPECTROPHOTOMETRY	Newster		
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Negative		
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
KETONE BODIES		Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY	-		
BLOOD		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY		- ( )	
ASCORBIC ACID		NEGATIV	<u>- (-ve)</u>	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (R	BCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS	CENTRIFLIGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

\* \* \* End Of Report \*





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