A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. KARAN			
AGE/ GENDER	: 25 YRS/MALE		PATIENT ID	: 1734626
COLLECTED BY	:		REG. NO./LAB NO.	: 122501250017
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 25/Jan/2025 11:45 AM
BARCODE NO.	: 12506689		<b>COLLECTION DATE</b>	: 25/Jan/2025 11:48AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	<b>REPORTING DATE</b>	: 25/Jan/2025 12:48PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WE	LLNESS PANEL: 1.5	
	СОМР	PLETE BL	OOD COUNT (CBC)	
	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H by CALORIMETRIC	B)	13.8	gm/dL	12.0 - 17.0
RED BLOOD CELL (	(RBC) COUNT	4.7	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL		39.8 <sup>L</sup>	%	40.0 - 54.0
	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	84.6	KR fl	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	29.5	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	34.8	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	13.9	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD)	44.9	fL	35.0 - 56.0
MENTZERS INDEX		18	RATIO	BETA THALASSEMIA TRAIT: - 13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by CALCULATED	DEX	25.14	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			0010
TOTAL LEUCOCYTI	E COUNT (TLC) y by sf cube & microscopy	8100	/cmm	4000 - 11000
DIFFERENTIAL LE	<u>UCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	50	%	50 - 70
LYMPHOCYTES		40	%	20 - 40

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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Test Name		Value	Unit	<b>Biological Reference interval</b>
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	CYTES (WBC) COUNT			
ABSOLUTE NEUTR		4050	/cmm	2000 - 7500
by FLOW CYTOMETR ABSOLUTE LYMPH	Y BY SF CUBE & MICROSCOPY	I.e. a	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	3240 <sup>L</sup>		800 - 4900
ABSOLUTE EOSING		324	/cmm	40 - 440
ABSOLUTE MONOC	Y BY SF CUBE & MICROSCOPY CYTE COUNT	486	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOP	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT		234000	/cmm	150000 - 450000
by HYDRO DYNAMIC I PLATELETCRIT (PO	FOCUSING, ELECTRICAL IMPEDENCE	0.23	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE	0.23	70	0.10 - 0.30
MEAN PLATELET V		10	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE CELL COUNT (P-LCC)	61000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE			00000 00000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	26.1	%	11.0 - 45.0
PLATELET DISTRI	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.7	%	15.0 - 17.0
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD			



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BARCODE NO.	: 12506689	COI	LECTION DATE	: 25/Jan/2025 11:48AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI		PORTING DATE	: 25/Jan/2025 04:37PM	
				. 23/ Jail/ 2023 04.37 FW	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	GALA CITY - HARYA	NA		
Test Name		Value	Unit	<b>Biological Reference inte</b>	erval
	GLYCOS	SYLATED HAEM	OGLOBIN (HBA10	C)	
WHOLE BLOOD	XEMOGLOBIN (HbA1c):	5.9	%	4.0 - 6.4	
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	122.63	mg/dL	60.00 - 140.00	
	AS PER AMERICAN D	ABETES ASSOCIATIO	N (ADA):		
	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years		<5.7		
	t Risk (Prediabetes)		5.7 – 6.4		
D	Diagnosing Diabetes		>= 6.5		
		Cools of T	Age > 19 Years	< 7.0	
Therapeut	ic goals for glycemic control	Goals of T	1	< 7.0	
Therapeutic goals for glycemic control		Actions Sug	Age < 19 Years	-0.0	

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropiate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia faisely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells



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BARCODE NO.	: 12506689	COLLE	CTION DATE	: 25/Jan/2025 11:48AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE <b>REPO</b>	RTING DATE	: 25/Jan/2025 04:08PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
by RED CELL AGGRE	GATION BY CAPILLARY PHOTOMETRY			
immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practition cted by other conditions besides in be used to monitor disease activity	er exactly where the in nflammation. For this r	flammation is in the eason, the ESR is typ	ion associated with infection, cancer and auto body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as
CONDITION WITH LO	N ESR			and the state and black and and another
(polycythaemia), sigr as sickle cells in sickl	n with conditions that inhibit the r ificantly high white blood cell cou e cell anaemia) also lower the ESF	nt (leucocytosis), and	some protein abnoi	rmalities. Some changes in red cell shape (su
<b>NOTE:</b> 1 FSR and C - reactive	e protein (C-RP) are both markers o	of inflammation		
2. Generally, ESR doe	s not change as rapidly as does CR	P, either at the start of	inflammation or as	s it resolves.
<ol><li>CRP is not affected</li></ol>	by as many other factors as is ESR, ed, it is typically a result of two typ	making it a better man	ker of inflammation	l. –

4. 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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:	REGI	STRATION DATE	: 25/Jan/2025 11:45 AM	
: 12506689	COLL	ECTION DATE	: 25/Jan/2025 11:48AM	
<b>DE.</b> : P.K.R JAIN HEALTHCARE INSTITUTE <b>REPORTING DATE</b>		RTING DATE	: 25/Jan/2025 01:11PM	
: NASIRPUR, HISSAR ROAD, AM	MBALA CITY - HARYAN	A		
	Value	Unit	<b>Biological Reference interval</b>	
CLINIC			RY	
	121.29 <sup>H</sup>	mg/dL		
	: 25 YRS/MALE : : : 12506689 : P.K.R JAIN HEALTHCARE INS : NASIRPUR, HISSAR ROAD, AM	: 25 YRS/MALE PATE : REG. : REG. : 12506689 COLL : P.K.R JAIN HEALTHCARE INSTITUTE REPO : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value CLINICAL CHEMISTRY GLUCOSE FAST	: 25 YRS/MALE PATIENT ID REG. NO./LAB NO.   : REG. NO./LAB NO.   : REGISTRATION DATE   : 12506689   : COLLECTION DATE   : P.K.R JAIN HEALTHCARE INSTITUTE   : REPORTING DATE   : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA     Value Unit   CLINICAL CHEMISTICUS FASTING (F)	

2. 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. 3. 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 ADDRESS	: NASIRPUR, HISSAR ROAD, AI	MBALA CITY - H	ARYANA	
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		156.98	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM HATE OXIDASE (ENZYMATIC)	64.14	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 70N	44.75	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		99.4	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		112.23	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		12.83	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	378.1	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE		3.51	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)** 



Page 6 of 21

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

Test Name	Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.22	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.43 <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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Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF	SERUM PECTROPHOTOMETRY	0.47	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		0.21	mg/dL	0.00 - 0.40
,	CT (UNCONJUGATED): SERUM	0.26	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	29.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM		61.39 <sup>H</sup>	U/L	0.00 - 49.00
by IFCC, WITHOUT PY AST/ALT RATIO: SI by CALCULATED, SPE		0.48	RATIO	0.00 - 46.00
ALKALINE PHOSPH by para nitrophen propanol	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	141.35 <sup>H</sup>	U/L	40.0 - 130.0
	L TRANSFERASE (GGT): SERUM	59.91 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.32	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.36	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		1.96 <sup>L</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE	IN	2.22 <sup>H</sup>	RATIO	1.00 - 2.00

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

#### **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).

|--|

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
	KIDNI	EY FUNCTI	ION TEST (COMPLETE)	)
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	30.54	mg/dL	10.00 - 50.00
CREATININE: SERU by ENZYMATIC, SPEC		1.1	mg/dL	0.40 - 1.40
BLOOD UREA NITR by CALCULATED, SPE	COGEN (BUN): SERUM	14.27	mg/dL	7.0 - 25.0
BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE	COGEN (BUN)/CREATININE	12.97	RATIO	10.0 - 20.0
UREA/CREATININ	E RATIO: SERUM	<mark>27.76</mark>	RATIO	
URIC ACID: SERUM	[	4.33	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		9.78	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by phosphomolybe <b>ELECTROLYTES</b>	ERUM DATE, SPECTROPHOTOMETRY	3.41	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIV		137.6	mmol/L	135.0 - 150.0
POTASSIUM: SERUI by ISE (ION SELECTIV	M	4.22	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	I le electrode)	103.2	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE ERULAR FILTERATION RATE	95.5		

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.

3. GI haemorrhage.



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

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AGE/ GENDER	: 25 YRS/MALE	PATIENT ID	: 1734626
COLLECTED BY	:	REG. NO./LAB NO.	: 122501250017
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 25/Jan/2025 11:45 AM
BARCODE NO.	: 12506689	COLLECTION DATE	: 25/Jan/2025 11:48AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 25/Jan/2025 04:45PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	
Test Name	Value	Unit	Biological Reference interval
8. Reduced muscle n	n (e.g. ureter colostomy) nass (subnormal creatinine production)		
	nass (subnormal creatinine production) . tetracycline, glucocorticoids)		
	20:1) WITH ELEVATED CREATININE LEVELS:		
1. Postrenal azotemi			
	a (BUN rises disproportionately more than cre	atinine) (e.g. obstructive uropa	thy).
	superimposed on renal disease.	eatinine) (e.g. obstructive uropa	thy).
1. Acute tubular neci	superimposed on renal disease. 10:1) WITH DECREASED BUN :	eatinine) (e.g. obstructive uropa	thy).
2. Low protein diet a	superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis.	eatinine) (e.g. obstructive uropa	thy).
2 Sovere liver diseas	superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation.	atinine) (e.g. obstructive uropa	thy).
3. Severe liver diseas	superimposed on renal disease. <b>10:1) WITH DECREASED BUN :</b> rosis. nd starvation. se.	atinine) (e.g. obstructive uropa	thy).
4. Other causes of de	superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. nd starvation.		thy).

6. Inherited hyperammonemias (urea is virtually absent in blood).7. SIADH (syndrome of inappropriate 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). ESTIMATED GLOMERULAR FILTERATION RATE:

CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein ,
	normal or high GFR		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	



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)





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

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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



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)





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Test Name		Value	Unit	Biological Reference interval
		IRON P	PROFILE	
IRON: SERUM	TROPHOTOMETRY	69.1	μg/dL	59.0 - 158.0

	ANELALA OF AUDA		IDON DEFINIENOV ANELALA	
INTERPRETATION:-				
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)		2 <mark>09.5</mark> 4	mg/dL	200.0 - 350.0
%TRANSFERRIN SATURATION: SI by calculated, spectrophotomete		23.41	%	15.0 - 50.0
:SERUM by SPECTROPHOTOMETERY				
TOTAL IRON BINDING CAPACITY		295.12	μg/dL	230 - 430
:SERUM by FERROZINE, SPECTROPHOTOMETER	Y			
UNSATURATED IRON BINDING CA	PACITY (UIBC)	226.02	μg/dL	150.0 - 336.0
by FERROZINE, SPECTROPHOTOMETRY				

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON:			

IRON

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

#### % TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



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

#### by CNPG 3, SPECTROPHOTOMETRY

#### **INTERPRETATION** COMMENTS

1.Amylase is produced in the Pancreas and most of the elevation in serum is due to increased rate of Amylase entry into the blood stream / decreased rate of clearance or both

2.Serum Amylase rises within 6 to 48 hours of onset of Acute pancreatitis in 80% of patients, but is not proportional to the severity of the disease.

3.Activity usually returns to normal in 3-5 days in patients with milder edematous form of the disease.
4.Values persisting longer than this period suggest continuing necrosis of pancreas or Pseudocyst formation.
5.Approximately 20% of patients with Pancreatitis have normal or near normal activity.
6.Hyperlipemic patients with Pancreatitis also show spuriously normal Amylase levels due to suppression of Amylase activity by triglyceride.
7.Low Amylase levels are seen in Chronic Pancreatitis, Congestive Heart failure, 2nd & 3rd trimesters of pregnancy, Gastrointestinal cancer & panetures. bone fractures.





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

NOT VALID FOR MEDICO LEGAL PURPOSE



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - ]	HARYANA	
Test Name	Value	Unit	<b>Biological Reference interval</b>
		LIPASE	
LIPASE - SERUM	21.67	U/L	0 - 60

21.67 LIPASE - SERUM by METHYL RESORUFIN, SPECTROPHOTOMETRY

INTERPRETATION

1. Pancreas is the major and primary source of serum lipase though lipases are also present in liver, stomach, intestine, WBC, fat cells and milk. 2. In acute pancreatitis, serum lipase becomes elevated at the same time as amylase and remains high for 7-10 days.

3. Increased lipase activity rarely lasts longer than 14 days

4. Prolonged increase suggests poor prognosis or presence of a cyst.

The combined use of serum lipase and serum amylase is effective in ruling out acute pancreatitis.

#### **INCREASED LEVEL:**

1. Acute & Chronic pancreatitis

2. Obstruction of pancreatic duct

3. Non pancreatic conditions like renal diseases, acute cholecystitis, intestinal obstruction, duodenal ulcer, alcoholism, diabetic ketoacidosis and following endoscopic retrograde cholangiopancreatography NOTE:

1. Elevations 2 to 50 times the upper reference have been reported. The increase in serum lipase is not necessarily proportional to the severity of the attack. Normalization is not necessarily a sign of resolution.

ADVICE:

Concomitant testing of serum amylase and lipase is highly recommended to establish a diagnosis of pancreatic injury



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



### NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

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

**PKR JAIN HEALTHCARE INSTITUTE** 

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYAN	NA		
Test Name		Value	Unit	<b>Biological Reference interval</b>	
Test Name				Biological Reference interval	
Test Name		ENDOCRIN	OLOGY	Biological Reference interval	
Test Name	THYRO	ENDOCRIN		Biological Reference interval	
TRIIODOTHYRONIN		ENDOCRIN	OLOGY	<b>Biological Reference interva</b> 0.35 - 1.93	
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN DID FUNCTIO	OLOGY N TEST: TOTAL	U	
TRIIODOTHYRONIN by cmia (chemilumin THYROXINE (T4): S by cmia (chemilumin THYROID STIMULA	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM	ENDOCRIN DID FUNCTIO 1.35	<b>OLOGY</b> N TEST: TOTAL ng/mL	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	<b>ENDOCRIN</b> <b>DID FUNCTIO</b> 1.35 8.51	OLOGY N TEST: TOTAL ng/mL μgm/dL	0.35 - 1.93 4.87 - 12.60	

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and triiodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

#### LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range ( µIU/mL)	
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 – 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)





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Fest Name		Value Unit		Biological Reference interval			
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50		
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50		
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50		
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	NANCY ( µIU/mL)			
	1st Trimester		0.10 - 2.50				
2nd Trimester		0.20 - 3.00					
	3rd Trimester			0.30 - 4.10			

#### **INCREASED TSH LEVELS:**

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

#### **DECREASED TSH LEVELS:**

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester



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Test Name		Value	Unit	Biological Reference interva
		Vľ	ГAMINS	
		VITAMIN D/25 H	IYDROXY VITAMIN D	3
	DROXY VITAMIN D3) escence immunoassay)		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				
DEFI	CIENT:	< 20	ng	J/mL
INSUF	FICIENT:	21 <mark>- 29</mark>	nç	J/mL
PREFER	ED RANGE:	30 - 100	n	ı/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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Test Name		Value Unit	Biological Reference interva		
VITAMIN B12/COB	SALAMIN' SERUM	990 ng/ml			
, ,	IESCENT MICROPARTICLE IMMUNOASSAY)	229 pg/mL	200.0 - 1100.0		
INTERPRETATION:-		DECREASED VITAMI			
INTERPRETATION:- INCREA: 1.Ingestion of Vitar	NESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C	DECREASED VITAMI	N B12		
INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C gen	DECREASED VITAMI 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants	N B12		
INTERPRETATION:- INCREAS 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C gen nin A	DECREASED VITAMI           DECREASED VITAMI           1.Pregnancy           2.DRUGS:Aspirin, Anti-convulsants           3.Ethanol Igestion	N B12		
INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro	NESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C gen nin A jury	DECREASED VITAMI 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants	N B12		
INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	NESCENT MICROPARTICLE IMMUNOASSAY) SED VITAMIN B12 nin C gen nin A jury	DECREASED VITAMI           DECREASED VITAMI           1.Pregnancy           2.DRUGS:Aspirin, Anti-convulsants           3.Ethanol Igestion           4. Contraceptive Harmones	N B12		

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.



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



A PIONEER DIAGNOSTIC CENTRE

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

COLLECTED BY	:	<b>REG. NO./LAB NO.</b>		: 122501250017		
REFERRED BY		REGISTR	ATION DATE	: 25/Jan/2025 11:45 AM		
BARCODE NO. : 12506689 CLIENT CODE. : P.K.R JAIN HEALTHCARE INST		COLLECTION DATE		: 25/Jan/2025 11:48AM		
				: 25/Jan/2025 12:48PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYANA				
Test Name		Value	Unit	Biological Reference interva		
		CLINICAL PATHO	LOGY			
	URINE ROU	UTINE & MICROSCOI	PIC EXAMINA	ATION		
PHYSICAL EXAMIN	NATION					
QUANTITY RECIEV by DIP STICK/REFLEC	ED TANCE SPECTROPHOTOMETRY	28	ml			
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW		
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR		
SPECIFIC GRAVITY	, TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030		
CHEMICAL EXAMI	NATION					
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC				
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
•	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5		
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)		
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0		
KETONE BODIES	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
ASCORBIC ACID by DIP STICK/REFLEC MICROSCOPIC EXA	TANCE SPECTROPHOTOMETRY AMINATION	NEGATIVE (-ve)		NEGATIVE (-ve)		
RED BLOOD CELLS		NEGATIVE (-ve)	/HPF	0 - 3		



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

**NOT VALID FOR MEDICO LEGAL PURPOSE** 

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)** 



NAME

: Mr. KARAN

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. KARAN		
AGE/ GENDER	: 25 YRS/MALE	PATIENT ID	: 1734626
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122501250017
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 25/Jan/2025 11:45 AM
BARCODE NO.	: 12506689	<b>COLLECTION DATE</b>	: 25/Jan/2025 11:48AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 25/Jan/2025 12:48PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	
Test Name	Value	Unit	<b>Biological Reference interval</b>

Test Name	value	UIIIt	Diological Reference interval
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	4-5	/HPF	0 - 5
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

\* End Of Report



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

