



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. GAGANPREET KAUR			
AGE/ GENDER	: 34 YRS/FEMALE		PATIENT ID	: 1719767
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501090024
REFERRED BY	:		REGISTRATION DATE	: 09/Jan/2025 10:10 AM
BARCODE NO.	: 01523666		COLLECTION DATE	: 09/Jan/2025 10:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jan/2025 10:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.	5
	COMP	LETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	11.9 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	4.72	Millions	/cmm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE	00.0		
PACKED CELL VOLU by CALCULATED BY A	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	38.9	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV) utomated hematology analyzer	82.5	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	25.2 ^L	pg	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER			220 260
by CALCULATED BY A	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.6 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.3	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD)	41.1	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	17.48	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		17.40	KATIO	13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INI	DEX	23.24	RATIO	>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			00.0
	E COUNT (TLC)	8870	/cmm	4000 - 11000
	(BY SF CUBE & MICROSCOPY	NIT		0.00 - 20.00
by FLOW CYTOMETRY	LOOD CELLS (nRBCS)	NIL.		0.00 x 0.00
by FLOW CYTOMETRY NUCLEATED RED B by AUTOMATED 6 PAF	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) %	NIL NIL	%	< 10 %

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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NAME



Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. GAGANPREET KAUR **PATIENT ID** : 34 YRS/FEMALE

MD (Pathology)

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	58	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12
	y by sf cube & microscopy CYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTR		5145	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETR	OCYTE COUNT y by sf cube & microscopy	3016	/cmm	800 - 4900
ABSOLUTE EOSING	OPHIL COUNT y by sf cube & microscopy	266	/cmm	40 - 440
ABSOLUTE MONOC	YTE COUNT y by sf cube & microscopy	444	/cmm	80 - 880
PLATELETS AND (DTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by HYDRO DYNAMIC F	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	398000	/cmm	150000 - 450000
PLATELETCRIT (PC	CT)	0.46 ^H	%	0.10 - 0.36

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 147000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 37 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.1by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

fL 6.50 - 12.0 30000 - 90000 /cmm % 11.0 - 45.0 % 15.0 - 17.0



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

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







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NAME	: Mrs. GAGANPREET KAUR				
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BARCODE NO.	: 01523666	COLL	ECTION DATE	: 09/Jan/2025 10:20AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 09/Jan/2025 01:44PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	: 6349/1, NICHOLSON ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interv	
	GLYCOS	SYLATED HAEMO	GLOBIN (HBA10	.)	
				· · · · · · · · · · · · · · · · · · ·	
WHOLE BLOOD	AEMOGLOBIN (HbA1c):	5.5	%	4.0 - 6.4	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO	AEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.5 111.15	% mg/dL	4.0 - 6.4 60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY)				
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)		mg/dL		
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP	111.15 ABETES ASSOCIATION	mg/dL (ADA): LATED HEMOGLOGIB	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non di	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	111.15 ABETES ASSOCIATION	mg/dL (ADA): LATED HEMOGLOGIB <5.7	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non di	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years tt Risk (Prediabetes)	111.15 ABETES ASSOCIATION	mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non di	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	111.15 ABETES ASSOCIATION	mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non di	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years tt Risk (Prediabetes)	ABETES ASSOCIATION	mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non di A	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years tt Risk (Prediabetes)	111.15 ABETES ASSOCIATION	mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years rapy:	60.00 - 140.00	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.

Goal of therapy:

<7.5

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 appropriate.

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 falsely 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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NAME	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
	: Mrs. GAGANPREET KAUR			
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BARCODE NO.	: 01523666	C	OLLECTION DATE	: 09/Jan/2025 10:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	EPORTING DATE	: 09/Jan/2025 11:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
mmune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also I systemic lupus erythe CONDITION WITH LOV A low ESR can be seed (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected	does not tell the health practit cted by other conditions beside matosus V ESR n with conditions that inhibit ti ificantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both market s not change as rapidly as does by as many other factors as is is ed, it is typically a result of two ve a higher ESR, and menstruat	ioner exactly where es inflammation. For ivity and response to he normal sedimenta count (leucocytosis) ESR. ers of inflammation. 5 CRP, either at the si ESR, making it a bette o types of proteins, g ion and pregnancy ca	the inflammation is in the this reason, the ESR is typ o therapy in both of the al ation of red blood cells, su , and some protein abnor tart of inflammation or as tr marker of inflammation lobulins or fibrinogen. an cause temporary eleva	bicallý used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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	MD	. Vinay Chopra (Pathology & Micro irman & Consultan	obiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. GAGANPR	EET KAUR			
AGE/ GENDER	: 34 YRS/FEMALE	2	PAT	IENT ID	: 1719767
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BARCODE NO.	:01523666		COL	LECTION DATE	: 09/Jan/2025 10:20AM
CLIENT CODE.	: KOS DIAGNOSTI	IC LAB	REP	ORTING DATE	: 09/Jan/2025 11:52AM
CLIENT ADDRESS	: 6349/1, NICHOI	LSON ROAD, AMBA	LA CANTT		
Test Name			Value	Unit	Biological Reference interval
		CLINICAL	CHEMISTRY	/BIOCHEMIST	'RY
		0	LUCOSE FAS	TING (F)	
GLUCOSE FASTIN	G (F): PLASMA Se - peroxidase (god	D-POD)	95.32	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 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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MBBS, MD (PATHOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI		LI ONTING DATE	
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		183.86	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	53.51	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM	59.38	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		113.78	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 CHOLEST by calculated, spe		124.48	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 CHOLESTERC		10.7	mg/dL	0.00 - 45.00
by CALCULATED, SPE FOTAL LIPIDS: SER by CALCULATED, SPE	UM	421.23	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	3.1	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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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jan/2025 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI	2	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.92	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM ECTROPHOTOMETRY	0.9 ^L	RATIO	3.00 - 5.00

<u>INTERPRETATION:</u> 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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gm/dL

RATIO

2.30 - 3.50

1.00 - 2.00

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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION 7	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.47	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.35	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	22.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	18.7	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.2	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	85.72	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	22.63	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.35	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.88	gm/dL	3.50 - 5.50

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

by CALCULATED, SPECTROPHOTOMETRY

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:

GLOBULIN: SERUM

by BROMOCRESOL GREEN

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)

2.47

1.57





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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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NAME	: Mrs. GAGANPREET KAUR		
	MD (Pathology & M Chairman & Consult	icrobiology) ME	D (Pathology)
	Dr. Vinay Chop	ora I Dr. Yugar	n Chopra

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).

GOOD PROGNOSTIC SIGN 0.3 - 0.6	
POOR PROGNOSTIC SIGN 1.2 - 1.6	



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

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam (MD (P CEO & Consultant P	athology)
NAME	: Mrs. GAGANPREET KAUR			
AGE/ GENDER	: 34 YRS/FEMALE	PAT	IENT ID	: 1719767
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012501090024
REFERRED BY	:	REG	ISTRATION DATE	: 09/Jan/2025 10:10 AM
BARCODE NO.	:01523666	COL	LECTION DATE	:09/Jan/2025 10:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:09/Jan/2025 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNI	Y FUNCTION T	EST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	27.32	mg/dL	10.00 - 50.00
CREATININE: SER	UM	0.77	mg/dL	0.40 - 1.20
BLOOD UREA NITE	ROGEN (BUN): SERUM	12.77	mg/dL	7.0 - 25.0
BLOOD UREA NITH RATIO: SERUM	ROGEN (BUN)/CREATININE	16.58	RATIO	10.0 - 20.0
by CALCULATED, SPE UREA/CREATININ	ECTROPHOTOMETRY F PATIO: SERUM	35.48	RATIO	
	ECTROPHOTOMETRY	33.40	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		2.52	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		9.08	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH		3.71	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	143.26	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.33	mmol/L	3.50 - 5.00
CHLORIDE: SERUN by ISE (ION SELECTIV	1	107.45	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by calculated INTERPRETATION:	ERULAR FILTERATION RATE	103.7		

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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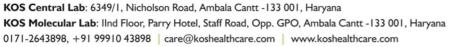


	MD (Path	nay Chopra nology & Microbiology) n & Consultant Pathologist		am Chopra MD (Pathology) tant Pathologist
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Test Name		Value	Unit	Biological Reference interval
2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients of INAPPROPIATE RATIO 1. Diabetic ketoacidos should produce an im 2. Cephalosporin ther	superimposed on renal d 0:1) WITH DECREASED BL osis. Id starvation. a. creased urea synthesis. urea rather than creatini monemias (urea is virtua f inappropiate antidiuret 0:1) WITH INCREASED CR py (accelerates conversionel eleases muscle creatining who develop renal failuret	UN : ine diffuses out of extracell ally absent in blood). tic harmone) due to tubular EATININE: on of creatine to creatinine) e). e. false increase in creatinine ratio). tinine measurement). PTION GFR (mL/ ey function	lular fluid). secretion of urea.	lologies,resulting in normal ratio when dehydratic ASSOCIATED FINDINGS No proteinuria Presence of Protein ,



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Test Name		Value Unit	Biological Reference interval

COMMENTS:

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.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 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 of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 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 fulfill 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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				/
Test Name		Value	Unit	Biological Reference interval
		IRON PROF	ILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	50.91	μg/dL	37.0 - 145.0
UNSATURATED IRC :SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	259.34	μg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	310.25	μg/dL	230 - 430
%TRANSFERRIN SA	ATURATION: SERUM	16.41	%	15.0 - 50.0
TRANSFERRIN: SEI	RUM	220.28	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

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
DON	internet te morodood		

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): 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)

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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jan/2025 11:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	Т	HYROID FUNC	TION TEST: TOTAL	L
TRIIODOTHYRONII	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNC	0.858 DASSAY)	ng/mI	0.35 - 1.93
THYROXINE (T4): S	ERUM ESCENT MICROPARTICLE IMMUNC	8.57 DASSAY)	μgm/c	LL 4.87 - 12.60
	TING HORMONE (TSH): SEI		µIU/m	L 0.35 - 5.50
BY CMIA (CHEMILOMIN 3rd GENERATION, ULT INTERPRETATION:	ESCENT MICROPARTICLE IMMUNC RASENSITIVE	JASSAY)		
day has influence on the I	neasured serum TSH concentrations. ure at any level of regulation of the	TSH stimulates the pr	oduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	lism: Normal or Lo	ow Normal	Normal or Low Normal	High

LIM	ΙΤΑΤ	IONS:-	

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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.

TRIIODOTHYRONINE (T3)		THYROX	(INE (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	

Increased

Normal or High Normal





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Test Name			Value	Unit	t	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	
	RECON	IMENDATIONS OF TSH LE	EVELS DURING PRE	GNANCY (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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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: 34 YRS/FEM : SURJESH : : 01523666 : KOS DIAGNO			PATIENT ID REG. NO./LAB NO. REGISTRATION DA COLLECTION DATE REPORTING DATE	: 012 TE : 09/ : 09/	.9767 2501090024 /Jan/2025 10:10 AM /Jan/2025 10:20AM /Jan/2025 11:52AM
Test Name			Value	Unit		Biological Reference interval
by CLIA (CHEMILUMINE <u>NTERPRETATION:</u> DFFI(ESCENCE IMMUN	OASSAY)	< 20		ng/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	FICIENT:		21 - 29	\	ng/mL	
	D RANGE:		30 - 100		ng/mL	
conversion of 7- dihy 2.25-OHVitamin D re- tissue and tightly bou 3. Vitamin D plays a p pohosphate reabsorpt 4. Severe deficiency m DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondarv to advan 5. Osteoporosis and S 6. Enzyme Inducing dr INCREASED: 1. Hypervitaminosis E Severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	drocholecalcife epresents the m and by a transo- rimary role in t ion, skeletal cal hay lead to failu posure. malabsorption Vitamin D 25- h aced Liver disease econdary Hyper ugs: anti-epilep 0 is Rare, and is and hyperphot nt therapy in de individuals as co	rol to Vitamin D3 i hain body resevoir ort protein while in the maintenance of cium deposition, of re to mineralize no (celiac disease) hydroxylase activity se parathroidism (M tic drugs like pher seen only after pro- phatemia.	n the skin upon and transport fon n circulation. f calcium homeo calcium mobiliza ewly formed ost ild to Moderate hytoin, phenobar olonged exposur must be monito	Ultraviolet exposure. form of Vitamin D and ostatis. It promotes ca tion, mainly regulate eoid in bone, resultin deficiency) rbital and carbamaze re to extremely high co pred by periodic asses	transport for alcium absorr d by parathyr ig in rickets ir pine, that inc doses of Vitar	erol (from animals, Vitamin D3), or by m of Vitamin D, being stored in adipose ption, renal calcium absorption and roid harmone (PTH). n children and osteomalacia in adults. reases Vitamin D metabolism. min D. When it occurs, it can result in amin D levels in order to prevent <i>ue to excess of melanin pigment which</i>



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C LIENT CODE. : K		1.11111				
			CTION DATE	:09/Jan/2025 10:20A		
CLIENT ADDRESS : 6	KOS DIAGNOSTIC LAB	REPOI	RTING DATE	: 09/Jan/2025 12:13P	M	
	349/1, NICHOLSON ROAD,	AMBALA CANTT				
Test Name		Value	Unit	Biological I	Reference interval	
		VITAMIN B12/CO	BALAMIN			
VITAMIN B12/COBALA by CMIA (CHEMILUMINESCE INTERPRETATION:-	MIN: SERUM ENT MICROPARTICLE IMMUNOAS	147 ^L SSAY)	pg/mL	190.0 - 890	.0	
INCREASED V	/ITAMIN B12] [DECREASED VITAMIN	B12		
1.Ingestion of Vitamin C		1.Pregnancy				
2.Ingestion of Estrogen		2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitamin A		3.Ethanol Igestion				
4.Hepatocellular injury		4. Contraceptive				
5.Myeloproliferative dis 6.Uremia	sorder	5.Haemodialysis 6. Multiple Myeloma				
2.In humans, it is obtaine 3.The body uses its vitam excreted. 4.Vitamin B12 deficiency ileal resection, small inte 5.Vitamin B12 deficiency proprioception, poor coo the neurologic defects wi 6.Serum methylmalonic a 7.Follow-up testing for ar NOTE: A normal serum coi deficiency at the cellular	n) is necessary for hematopo ed only from animal proteins in B12 stores very economic may be due to lack of IF secr estinal diseases). frequently causes macrocyti rdination, and affective beha thout macrocytic anemia. icid and homocysteine levels ntibodies to intrinsic factor (incentration of vitamin B12 d level is the assay for MMA. In n vitamin B12 concentrations	s and requires intrinsic fa ally, reabsorbing vitamin retion by gastric mucosa ic anemia, glossitis, perig avioral changes. These m s are also elevated in vita IF) is recommended to id loes not rule out tissue de f clinical symptoms sugge	actor (IF) for absorp B12 from the ileum (eg, gastrectomy, ga pheral neuropathy, y anifestations may c min B12 deficiency lentify this potentia eficiency of vitamin	and returning it to the l astric atrophy) or intestin weakness, hyperreflexia occur in any combination states. I cause of vitamin B12 m B12. The most sensitive	nal malabsorption (eg, , ataxia, loss of ; many patients have alabsorption. test for vitamin B12	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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CONS MBBS chols





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT							
Test Name		Value	Unit	Biological Reference interval					
CLINICAL PATHOLOGY									
URINE ROUTINE & MICROSCOPIC EXAMINATION									
PHYSICAL EXAMIN	NATION								
QUANTITY RECIEV	ED TANCE SPECTROPHOTOMETRY	10	ml						
COLOUR		PALE YELLOW		PALE YELLOW					
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		HAZY		CLEAR					
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		>=1.030		1.002 - 1.030					
CHEMICAL EXAMI	NATION								
REACTION		ACIDIC							
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Trace		NEGATIVE (-ve)					
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)					
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		6		5.0 - 7.5					
BILIRUBIN		Negative		NEGATIVE (-ve)					
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		Negative		NEGATIVE (-ve)					
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0					
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)					
BLOOD		1+		NEGATIVE (-ve)					
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-ve)		NEGATIVE (-ve)					
MICROSCOPIC EXA	MINATION								
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		5-7	/HPF	0 - 3					



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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mrs. GAGANPREET KAUR				
AGE/ GENDER	: 34 YRS/FEMALE		PATIENT	D	: 1719767
COLLECTED BY	: SURJESH		REG. NO./	LAB NO.	: 012501090024
REFERRED BY	:		REGISTRA	TION DATE	: 09/Jan/2025 10:10 AM
BARCODE NO.	: 01523666		COLLECTI	ON DATE	: 09/Jan/2025 10:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTIN	NG DATE	: 09/Jan/2025 11:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT	Т		
Test Name		Value		Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	25-30		/HPF	0 - 5
EPITHELIAL CELLS	S CENTRIFUGED URINARY SEDIMENT	6-8		/HPF	ABSENT

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

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report



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

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

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