



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mr. RAJA RAM			
AGE/ GENDER	: 72 YRS/MALE		PATIENT ID	: 1649952
COLLECTED BY	:		REG. NO./LAB NO.	: 012410220012
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 22/Oct/2024 08:39 AM
BARCODE NO.	: 01519338		<b>COLLECTION DATE</b>	: 22/Oct/2024 08:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Oct/2024 09:27AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.5	
			LOOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.4 <sup>L</sup>	gm/dL	12.0 - 17.0
RED BLOOD CELL (RB		4.13	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC FO	OCUSING, ELECTRICAL IMPEDENCE IF (PC\)	33.7 <sup>L</sup>	%	40.0 - 54.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		70	
MEAN CORPUSCULAR	R VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	81.6	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	25.2 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.8 <sup>L</sup>	g/dL	32.0 - 36.0
-	ION WIDTH (RDW-CV)	14.6	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		q	
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	44.5	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		19.76	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	X	28.87	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CO	DUNT (TLC) ' by sf cube & microscopy	6750	/cmm	4000 - 11000
NUCLEATED RED BLC	OOD CELLS (nRBCS) 27 HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLO	OOD CELLS (nRBCS) % <i>UTOMATED HEMATOLOGY ANALYZER</i>	NIL	%	< 10 %
NEUTROPHILS	BY SF CUBE & MICROSCOPY	60	%	50 - 70



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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 : Mr. RAJA RAM			
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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name	Value	Unit	Biological Reference interval
LYMPHOCYTES	30	%	20 - 40
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS	4	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	70	1-8
MONOCYTES	6	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	4050	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4030	Zenim	2000 - 7300
ABSOLUTE LYMPHOCYTE COUNT	2025	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	070	1	10 110
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	270	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT	405	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PLT)	228000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.27	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV)	12	fL	6.50 - 12.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	12		0.00 12.0
PLATELET LARGE CELL COUNT (P-LCC)	89000	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	39	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	24	70	11.0 - 43.0
PLATELET DISTRIBUTION WIDTH (PDW)	16.5	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD			





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 22/Oct/2024 03:10PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		, ,H	01	
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	6.6 <sup>H</sup> 142.72 <sup>H</sup>	% mg/dL	4.0 - 6.4 60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u>	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA):	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NOT dia	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE <5.7	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE <5.7	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NON dia A D	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years s of Therapy: ins Suggested:	60.00 - 140.00
ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	142.72 <sup>H</sup> ABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIE <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years s of Therapy:	60.00 - 140.00

## COMMENTS:

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 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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BARCODE NO.	:01519338	CO	LECTION DATE	: 22/Oct/2024 08:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 22/Oct/2024 09:38AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDIMEI	NTATION RATE (ES	R)
by RED CELL AGGRE NTERPRETATION: 1. ESR is a non-specif mmune disease, but	does not tell the health practitie cted by other conditions besides	It often indicates the	e inflammation is in the	tion associated with infection, cancer and auto-
3. This test may also systemic lupus eryth condition with LO' A low ESR can be see (polycythaemia), sign as sickle cells in sickl NOTE:	be used to monitor disease active matosus <b>W ESR</b> n with conditions that inhibit th	e normal sedimentati ount (leucocytosis) , a ESR.	on of red blood cells, s	above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such

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.

 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 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 environment of a structure of the start of aspirin, cortisone, and quinine may decrease it



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		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 22/Oct/2024 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	Unit	Biological Reference interval
-				
-		Value	/BIOCHEMISTR	

A fasting plasma glucose level below 100 mg/dr 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.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 22/Oct/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		104.04	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	129.75	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBITI		33.67	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		44.42	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		70.37	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by calculated, spe		25.95	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	337.83 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	ratio: serum	3.09	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by Calculated, spe		1.32	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	L RATIO: SERUM	3.85	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

#### **INTERPRETATION:**

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for

Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the 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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LIV	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.71	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by diazo modified, spectrophotometry	0.24	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	33.75	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	29.64	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.14	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	101.24	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	56.75 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.46	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.67	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	2.79	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.32	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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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mr. RAJA RAM		
AGE/ GENDER	: 72 YRS/MALE	PATIENT ID	: 1649952
COLLECTED BY	:	REG. NO./LAB NO.	: 012410220012
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 22/Oct/2024 08:39 AM
BARCODE NO.	: 01519338	<b>COLLECTION DATE</b>	: 22/Oct/2024 08:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 22/Oct/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	ГТ	
Test Name	Value	Unit	Biological Reference interval

## 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).

PROGNOSTIC SIGNIFICANCE:	

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



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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
KIE	ONEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	35.25	mg/dL	10.00 - 50.00
CREATININE: SERUM by enzymatic, spectrophotometery	1.13	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by calculated, spectrophotometry	16.47	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM <i>by CALCULATED, SPECTROPHOTOMETRY</i>	14.58	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by Calculated, spectrophotometry	31.19	RATIO	
JRIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	8.19 <sup>H</sup>	mg/dL	3.60 - 7.70
CALCIUM: SERUM by arsenazo III, spectrophotometry	8.78	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry ELECTROLYTES	3.31	mg/dL	2.30 - 4.70
ODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	139.1	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.74	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	104.32	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE			
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	69.1		

**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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		Dr. Vinay Ch MD (Pathology & Chairman & Cons	Microbiology)		<b>Yugam Ch</b> MD (Path nsultant Patho	ology)	
NAME	: Mr. RA	JA RAM					
AGE/ GENDER	: 72 YRS	/MALE		PATIENT ID	: 1	649952	
COLLECTED BY				REG. NO./LAB NO.	• 0	12410220012	
	•						
REFERRED BY	:			<b>REGISTRATION D</b>		2/Oct/2024 08:39	
BARCODE NO.	:015193	138		COLLECTION DAT		2/Oct/2024 08:48	
CLIENT CODE.	: KOS DI	AGNOSTIC LAB		REPORTING DATI	E : 2	2/Oct/2024 12:07	'PM
CLIENT ADDRESS	:6349/1	I, NICHOLSON ROAD, A	AMBALA CANTT				
Test Name			Value	Un	it	Biological	Reference interval
5. Inherited hyperam 7. SIADH (syndrome o 3. Pregnancy. <b>DECREASED RATIO (</b> <	e. creased ur (urea rathe monemias of inapprop 10:1) WITH py (acceler eleases mu	rea synthesis. er than creatinine diffu s (urea is virtually abse biate antidiuretic harm INCREASED CREATININ rates conversion of cre uscle creatinine).	ent in blood). Ione) due to tubu <b>IE:</b>	lar secretion of urea	à.		
INAPPROPIATE RATIO	): osis (acetoa	acetate causes false ind	crease in creatini	ne with certain met	:hodologies,r	esulting in norma	l ratio when dehydratio
should produce an in 2. Cephalosporin the	creased Bl apy (interf	JN/creatinine ratio). feres with creatinine m			<b>U</b>	Ŭ	
ESTIMATED GLOMERU CKD STAGE	JLAR FILTEF	RATION RATE: DESCRIPTION	GFR ( n	nL/min/1.73m2)	ASSOCIA	TED FINDINGS	]
		Normal kidnov funat		. 00			1

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	





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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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		<b>Chopra</b> gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		IRON PR	OFILE	
IRON: SERUM	CTROPHOTOMETRY	36.7 <sup>L</sup>	μg/dL	59.0 - 158.0

by FERROZINE, SP	PECTROPHOTOMETRY				
UNSATURATED IR	ON BINDING CAPACITY (UIBC)	275.21	μg/dL	150.0 - 336.0	
:SERUM					
by FERROZINE, SP	ECTROPHOTOMETERY				
TOTAL IRON BIND	DING CAPACITY (TIBC)	311.91	μg/dL	230 - 430	
:SERUM					
by SPECTROPHOT	OMETERY				
%TRANSFERRIN S	ATURATION: SERUM	11.77 <sup>L</sup>	%	15.0 - 50.0	
by CALCULATED,	SPECTROPHOTOMETERY (FERENE)				
TRANSFERRIN: SE	RUM	221.46	mg/dL	200.0 - 350.0	
hu ODECTDODUOT					

# by SPECTROPHOTOMETERY (FERENE)

<u>INTERPRETATION:-</u>		
VARIABLES	ANEMIA OF CHRONIC DISEASE	

ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
Normal to Reduced	Reduced	Normal
Decreased	Increased	Normal
Decreased	Decreased < 12-15 %	Normal
Normal to Increased	Decreased	Normal or Increased
	Decreased Decreased	Decreased         Increased           Decreased         Decreased < 12-15 %

### 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.

2. 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.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 22/Oct/2024 12:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name				Biological Reference interval
Test Name	ТНУБ		DLOGY	Biological Reference interval
TRIIODOTHYRONIN	E (T3): SERUM	ENDOCRINC ROID FUNCTION 0.784	DLOGY	Biological Reference interval 0.35 - 1.93
TRIIODOTHYRONIN by CMIA (CHEMILUMII	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINC ROID FUNCTION 0.784	DLOGY I TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONIN <i>by cmia (chemilumii</i> THYROXINE (T4): SE	e (T3): serum <i>nescent microparticle immunoassay)</i> RUM	ENDOCRINC ROID FUNCTION 0.784 8.17	DLOGY I TEST: TOTAL	
TRIIODOTHYRONIN by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULAT	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINC ROID FUNCTION 0.784 8.17 4.411	DLOGY I TEST: TOTAL ng/mL	0.35 - 1.93

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.

TRIIODOTHYRONINE (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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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 LI	EVELS DURING PREC	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (F	<b>/inay Chopra</b> Pathology & Microbiology) nan & Consultant Pathologi	MI	m Chopra D (Pathology) nt Pathologist
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. RAJA RAM</b> : 72 YRS/MALE : : : 01519338 : KOS DIAGNOSTIC : : 6349/1, NICHOLS(	LAB DN ROAD, AMBALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1649952 <b>: 012410220012</b> : 22/Oct/2024 08:39 AM : 22/Oct/2024 08:48AM : 22/Oct/2024 12:00PM
Test Name		Value	Unit	Biological Reference interval
		гіл	AMINS	
		VITAMIN D/25 H	YDROXY VITAMIN D3	
	OXY VITAMIN D3): S ESCENCE IMMUNOASS		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>Interpretation:</u> Defic	IENT:	< 20		ng/mL
INSUFF		21 - 29		ng/mL
PREFFERE INTOXIC		<u>30 - 100</u> > 100		ng/mL
2.25-OHVitamin D retissue and tightly bou 3.Vitamin D plays a pr phosphate reabsorpti 4.Severe deficiency m <b>DECREASED:</b> 1.Lack of sunshine exr 2.Inadequate intake, 3.Depressed Hepatic V 4.Secondary to advan 5.Osteoporosis and Se 6.Enzyme Inducing dru <b>INCREASED:</b> 1. Hypervitaminosis D severe hypercalcemia <b>CAUTION:</b> Replacemen hypervitaminosis D	epresents the main bo nd by a transport pro- timary role in the main on, skeletal calcium of ay lead to failure to r malabsorption (celiad /itamin D 25- hydroxy ced Liver disease econdary Hyperparath ugs: anti-epileptic dru- is Rare, and is seen of and hyperphophatem it therapy in deficient	tein while in circulation. ntenance of calcium home leposition, calcium mobiliz nineralize newly formed os (disease) (lase activity nroidism (Mild to Moderate gs like phenytoin, phenobi nly after prolonged exposu- nia. t individuals must be monit	Form of Vitamin D and tran costatis. It promotes calciu ation, mainly regulated by steoid in bone, resulting in arbital and carbamazepine ure to extremely high dose cored by periodic assessme	asport form of Vitamin D, being stored in adipose im absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. e, that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in ent of Vitamin D levels in order to prevent iciency due to excess of melanin pigment which
	Am		Ghopra	

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	MD (Pat	n <b>ay Chopra</b> hology & Microbiology) an & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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BARCODE NO.	: 01519338		ECTION DATE	: 22/Oct/2024 08:39 AM
CLIENT CODE.	: KOS DIAGNOSTIC LA		ORTING DATE	: 22/Oct/2024 12:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM iescent microparticle i	VITAMIN B12/CC 516 MMUNOASSAY)	pg/mL	190.0 - 830
	SED VITAMIN B12		DECREASED VITAMIN	N B12
1.Ingestion of Vitar	nin C	1.Pregnancy		
2.Ingestion of Estro			rin, Anti-convulsants	, Colchicine
3.Ingestion of Vitan		3.Ethanol Igest		
4.Hepatocellular in 5.Myeloproliferativ		4. Contraceptiv 5.Haemodialy:		
6.Uremia		6. Multiple My		
<ul> <li>2.In humans, it is ob</li> <li>3.The body uses its v excreted.</li> <li>4.Vitamin B12 deficie ileal resection, smal</li> <li>5.Vitamin B12 deficie proprioception, poor the neurologic defec</li> <li>6.Serum methylmalc</li> <li>7.Follow-up testing f</li> <li>NOTE:A normal serun deficiency at the cell</li> </ul>	tained only from animal itamin B12 stores very e ency may be due to lack l intestinal diseases). ency frequently causes r coordination, and affec ts without macrocytic an nic acid and homocystei or antibodies to intrinsion m concentration of vitam	of IF secretion by gastric mucosa nacrocytic anemia, glossitis, per tive behavioral changes. These r emia. ne levels are also elevated in vit c factor (IF) is recommended to i nin B12 does not rule out tissue of MMA. If clinical symptoms sugg	factor (IF) for absorp n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy, manifestations may o amin B12 deficiency identify this potentia deficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have





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







	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJA RAM			
AGE/ GENDER	: 72 YRS/MALE	PATIE	NT ID	: 1649952
COLLECTED BY	:	REG. N	<b>O./LAB NO.</b>	: 012410220012
REFERRED BY			TRATION DATE	: 22/Oct/2024 08:39 AM
BARCODE NO.	:01519338		CTION DATE	: 22/Oct/2024 08:48AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		RTING DATE	: 22/Oct/2024 09:46AM
CLIENT ADDRESS	. 0343/ 1, MCHOLSON ROAD,	ANDALA CANT I		
Test Name		Value	Unit	Biological Reference interva
		CLINICAL PATH	OLOGY	
	URINE R	OUTINE & MICROSC		ION
PHYSICAL EXAMINA				
QUANTITY RECIEVEI		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		PALE YELLOW		PALE YELLOW
-	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
-	TANCE SPECTROPHOTOMETRY			
PROTEIN		Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
рН		5.5		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY			
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECIFICFICIONETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Nogativo		
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
,	TANCE SPECTROPHOTOMETRY	N		
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANGL OF LUT NOP AUTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	riogativo		
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
MICROSCOPIC EXAN	<u>/IINATION</u>			



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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

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT

AGE/ GENDER: 72 YRS/MALEPATIENT ID: 1649952	
COLLECTED BY         : 012410220012	
<b>REFERRED BY</b> : <b>REGISTRATION DATE</b> : 22/Oct/2024 08:39	) AM
BARCODE NO. : 01519338 COLLECTION DATE : 22/Oct/2024 08:48	BAM
CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 09:46	SAM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT	
CLIENT ADDRESS . 0343/1, NICHOLSON ROAD, ANDALA CANTI	
CLIENT ADDRESS . 0343/1, NICHOLSON ROAD, AMBALA CANTI	
	Reference interval
Test Name Unit Biological F	Reference interval
Test NameValueUnitBiological IRED BLOOD CELLS (RBCs)NEGATIVE (-ve)/HPF0 - 3	Reference interval

CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

\*\*\* End Of Report \*\*\*

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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

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

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