



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mrs. RITA SETH				
AGE/ GENDER	: 72 YRS/FEMALE		PATIENT ID	: 1715577	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012501040011	
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBAI	LA CANTT)	<b>REGISTRATION DATE</b>	: 04/Jan/2025 10:08 AM	
BARCODE NO.	: 01523407		COLLECTION DATE	: 04/Jan/2025 10:22AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Jan/2025 10:44AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI			
Test Name		Value	Unit	Biological Ref	erence interval
	CALLACT		TINECC DANEL, 1	e	
			LLNESS PANEL: 1.	5	
DED DI OOD CELLS		LETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS HAEMOGLOBIN (HE	(RBCS) COUNT AND INDICES	12.5	gm/dL	12.0 - 16.0	
by CALORIMETRIC	·	12.5	Ŭ		
RED BLOOD CELL (F	RBC) COUNT	4.4	Millions	/cmm 3.50 - 5.00	
PACKED CELL VOLU	ME (PCV)	40.6	%	37.0 - 50.0	
by CALCULATED BY AU MEAN CORPUSCULA	JTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	92.1	fL	80.0 - 100.0	
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER				
	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	28.3	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	30.7 <sup>L</sup>	g/dL	32.0 - 36.0	
	TION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	13.7	%	11.00 - 16.00	
RED CELL DISTRIBU	TION WIDTH (RDW-SD)	47.1	fL	35.0 - 56.0	
MENTZERS INDEX		20.93	RATIO		SSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIE	ENCY ANEMIA:
				>13.0	
GREEN & KING IND by CALCULATED	EX	28.57	RATIO	BETA THALAS 65.0	SSEMIA TRAIT:<=
2) 0/12002/1122					ENCY ANEMIA: >
WUITE DI AAD AEI				65.0	
WHITE BLOOD CEL TOTAL LEUCOCYTE		6020	/cmm	4000 - 11000	
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		/ chilli		
	LOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
NUCLEATED RED BI	LOOD CELLS (nRBCS) %	NIL	%	< 10 %	
by CALCULATED BY AL	JTOMATED HEMATOLOGY ANALYZER				





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







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Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	44 <sup>L</sup>	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	46 <sup>H</sup>	%	20 - 40
EOSINOPHILS by flow cytometry	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
	Y BY SF CUBE & MICROSCOPY	2649	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETRY	OCYTE COUNT Y BY SF CUBE & MICROSCOPY	2769	/cmm	800 - 4900
ABSOLUTE EOSINC	OPHIL COUNT y by sf cube & microscopy	241	/cmm	40 - 440
ABSOLUTE MONOC	YTE COUNT Y by sf cube & microscopy	361	/cmm	80 - 880
PLATELETS AND (	<b>THER PLATELET PREDICTIVE</b>	MARKERS.		
PLATELET COUNT by hydro dynamic f	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	264000	/cmm	150000 - 450000
PLATELETCRIT (PC by HYDRO DYNAMIC F	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.28	%	0.10 - 0.36
MEAN PLATELET V by hydro dynamic f	OLUME (MPV) COCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
by HYDRO DYNAMIC F	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	76000	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	28.7	%	11.0 - 45.0
by HYDRO DYNAMIC F	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE ICTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0

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BARCODE NO.	: 01523407		COLLECTION DATE	: 04/Jan/2025 10:00 MM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Jan/2025 03:12PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT'I		
Test Name		Value	Unit	Biological Reference interv
			AEMOGLOBIN (HBA1)	
WHOLE BLOOD	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	5.7	%	4.0 - 6.4
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	116.89	mg/dL	60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOC	IATION (ADA):	
	REFERENCE GROUP	G	LYCOSYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years		<5.7	
	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
There is			s of Therapy:	< 7.0
Therapeut	ic goals for glycemic control	Action	ns Suggested:	>8.0
			Age < 19 Years	
		Goa	l of therapy:	<7.5

## 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.

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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DR.YUGAM CHOPRA

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	MD (Pathology & M	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		a <b>m Chopra</b> MD (Pathology) tant Pathologist
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LIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	:04/Jan/2025 11:26AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat	<b>W ESR</b> n with conditions that inhibit the no	It (leucocytosi f inflammation c, either at the <b>making it a be</b> es of proteins,	s), and some protein at n. e start of inflammation o <b>tter marker of inflamma</b> globulins or fibrinogen.	tion.
. Drugs such as dext	ran, methyldopa, oral contraceptive	es, penicillam	ine procainamide, theor	ohylline, and vitamin A can increase ESR, while



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMIS	TRY/BIOCHEMIST	'RY
		GLUCOSE	E FASTING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 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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Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		200.83 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	74.22	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	78.36	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL by CALCULATED, SPE		107.63	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		122.47	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		14.84	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER	UM	475.88	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	2.56	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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Test Name	Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S		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 0.95 <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.

 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.
 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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U/L

U/L

gm/dL

gm/dL

gm/dL

RATIO

40.0 - 130.0

0.00 - 55.0

6.20 - 8.00

3.50 - 5.50

2.30 - 3.50

1.00 - 2.00

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Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF		0.53	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.37	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21.85	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	14.94	U/L	0.00 - 49.00
AST/ALT RATIO: SI by CALCULATED, SPE		1.46	RATIO	0.00 - 46.00

by CALCULATED, SPECTROPHOTOMETRY
INTERPRETATION

ALBUMIN: SERUM

A : G RATIO: SERUM

by BROMOCRESOL GREEN **GLOBULIN: SERUM** 

ALKALINE PHOSPHATASE: SERUM

by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM

by BIURET, SPECTROPHOTOMETRY

by CALCULATED, SPECTROPHOTOMETRY

by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL

GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM

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:**

PROPANOL

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)

86.95

13.43

6.63

3.94

2.69

1.46





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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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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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Test Name		Value	Unit	Biological Reference interv
	KIDNE	EY FUNCTIO	)N TEST (COMPLETE)	
UREA: SERUM		18.98	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)	0.07	Ũ	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		0.95	mg/dL	0.40 - 1.20
BLOOD UREA NITH	ROGEN (BUN): SERUM	8.87	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	9.34 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM				
UREA/CREATININ	ECTROPHOTOMETRY E RATIO: SERUM	19.98	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM		4.47	mg/dL	2.50 - 6.80
CALCIUM: SERUM		10.51	mg/dL	8.50 - 10.60
	ECTROPHOTOMETRY	1.05		2 20 4 70
PHOSPHOROUS: SI by PHOSPHOMOLYBI	EKUM DATE, SPECTROPHOTOMETRY	4.05	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		144.1	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERU		5.43 <sup>H</sup>	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUN by ISE (ION SELECTIV		108.07	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RATE			
	IERULAR FILTERATION RATE	63.7		
(eGFR): SERUM				
by CALCULATED INTERPRETATION:				
	icon pro, and post ronal azotomia			

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.



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		r. Yugam Chopra MD (Pathology) Consultant Pathologist	
NAME	: Mrs. RITA SETH			
AGE/ GENDER	: 72 YRS/FEMALE	PATIENT ID	: 1715577	
COLLECTED BY	: SURJESH	<b>REG. NO./LAB</b>	NO. : 01250104	0011
REFERRED BY				
	: CENTRAL PHOENIX CLUB (AM			
BARCODE NO.	: 01523407	COLLECTION D		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DA	ATE : 04/Jan/2023	5 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit Bio	logical Reference interval
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	ass (subnormal creatinine product tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN :	EVELS:	tive uropathy).	
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. Id starvation. 2: creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE py (accelerates conversion of creatility of the creatinine). who develop renal failure. sis (acetoacetate causes false increating). who develop renal failure. sis (acetoacetate causes false increating). apy (interferes with creatinine me ILAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: re than creatinine) (e.g. obstruct es out of extracellular fluid). t in blood). ne) due to tubular secretion of u tine to creatinine). ease in creatinine with certain r asurement). GFR (mL/min/1.73m2) on >90 >90	irea. nethodologies,resulting in	NGS
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2 G3a	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. Id starvation. 2: creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE py (accelerates conversion of creatility of the creatinine). who develop renal failure. sis (acetoacetate causes false increating). who develop renal failure. sis (acetoacetate causes false increating). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	EVELS:         re than creatinine) (e.g. obstruct         es out of extracellular fluid).         t in blood).         ne) due to tubular secretion of u         :         tine to creatinine).         ease in creatinine with certain r         asurement).         ON         >90         >90            60 - 89	nethodologies,resulting in ASSOCIATED FINDIN No proteinuria Presence of Protei	NGS
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE L (BUN rises disproportionately mo superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. Id starvation. 2: creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE py (accelerates conversion of created eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increated sis (acetoacetate causes false increated creased BUN/creatinine ratio). apy (interferes with creatinine me ILAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR	EVELS:         re than creatinine) (e.g. obstruct         es out of extracellular fluid).         t in blood).         ne) due to tubular secretion of u         :         tine to creatinine).         ease in creatinine with certain r         asurement).         On       >90         >90         SFR       30-59	nethodologies,resulting in ASSOCIATED FINDIN No proteinuria Presence of Protei	NGS





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









	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. RITA SETH		
AGE/ GENDER	: 72 YRS/FEMALE	PATIENT ID	: 1715577
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501040011
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 04/Jan/2025 10:08 AM
BARCODE NO.	: 01523407	COLLECTION DATE	: 04/Jan/2025 10:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 04/Jan/2025 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
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



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

MBBS, MD (PATHOLOGY)







%

**IRON DEFICIENCY ANEMIA** 

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

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BARCODE NO.	:01523407		<b>COLLECTION DATE</b>	: 04/Jan/2025 10:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Jan/2025 11:29AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	50.3	µg/dL	37.0 - 145.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	250.2	µg/dL	150.0 - 336.0
TOTAL IRON BIND :SERUM	ING CAPACITY (TIBC)	300.5	μg/dL	230 - 430

**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.

16.74

213.36

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.

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

#### % TRANSFERRIN SATURATION:

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

**INTERPRETATION:-**

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

**SERUM FERRITIN:** 

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. RITA SETH			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 04/Jan/2025 05:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		MAGNI	ESIUM	
MAGNESIUM: SERU		2.57	mg/dL	1.6 - 2.6

KOS Diagnostic Lab (A Unit of KOS Healthcare)

## **INTERPRETATION:-**

1. Magnesium along with potassium is a major intracellular cation.

2.Magnesium is a cofactor of many enzyme systems. All adenosine triphosphate (ATP)-dependent enzymatic reactions require magnesium as a cofactor. 3.Approximately 70% of magnesium ions are stored in bone. The remainder is involved in intermediary metabolic processes; about 70% is present in free form while the other 30% is bound to proteins (especially albumin), citrates, phosphate, and other complex formers. The serum magnesium level is kept constant within very narrow limits. Regulation takes place mainly via the kidneys, primarily via the ascending loop of Henle.

**INCREASD (HYPERMAGNESIA):-**Conditions that interfere with glomerular filtration result in retention of magnesium and hence elevation of serum concentrations.

1. Acute and chronic renal failure.

2.magnesium overload.

3. Magnesium release from the intracellular space.

4.Mild-to-moderate hypermagnesemia may prolong atrioventricular conduction time. Magnesium toxicity may result in central nervous system (CNS) depression, cardiac arrest, and respiratory arrest.

## DECREASED (HYPOMAGNESIA):-

1.Chronic alcoholism.

- 2.Childhood malnutrition.
- 3. Malabsorption.
- 4. Acute pancreatitis.
- 5.Hypothyroidism.

6.Chronic glomerulonephritis.

7.Aldosteronism.

8. Prolonged intravenous feeding.

### NOTE:-

Numerous studies have shown a correlation between magnesium deficiency and changes in calcium-, potassium-, and phosphate-homeostasis which are associated with cardiac disorders such as ventricular arrhythmias that cannot be treated by conventional therapy, increased sensitivity to digoxin, coronary artery spasms, and sudden death. Additional concurrent symptoms include neuromuscular and neuropsychiatric disorders.





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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:04/Jan/2025 11:45AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Fest Name		Value	Unit	Biological Reference interv
	1	ENDOC	RINOLOGY	
	THYRO	ID FUNC	TION TEST: TOTAL	
RIIODOTHYRONIN	IE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	0.783	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMINI	ERUM ESCENT MICROPARTICLE IMMUNOASSAY)	7.28	µgm/dL	4.87 - 12.60
	TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	4.758	µIU/mL	0.35 - 5.50
	RASENSITIVE			
rd GENERATION, ULTE NTERPRETATION:				

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	





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Test Name			Value	Unit	t	<b>Biological Reference interval</b>
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	/MENDATIONS OF TSH	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	MD (Path	a <b>y Chopra</b> ology & Microbiology) & Consultant Pathologi		(Pathology)
IAME	: Mrs. RITA SETH			
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		LOD (ANIDALA CANTT)		
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CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANT	ſ	
Test Name		Value	Unit	<b>Biological Reference interval</b>
UTTAMIN D (95 HV		VITAMIN D/25 H	FAMINS YDROXY VITAMIN D	<b>3</b> DEFICIENCY: < 20.0
	DROXY VITAMIN D3): S ESCENCE IMMUNOASSAY)	ERUM 65.3	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	n	g/mL
	ICIENT:	21 - 29		g/mL
	D RANGE:	30 - 100		g/mL
INTOXI	CATION:	> 100	n	g/mL
tissue and tightly bou 3. Vitamin D plays a p boosphate reabsorpt 4. Severe deficiency n <b>DECREASED:</b> 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advar 5. Osteoporosis and S 5. Enzyme Inducing dr <b>NCREASED:</b> 1. Hypervitaminosis E Severe hypercalcemia <b>CAUTION:</b> Replaceme hypervitaminosis D	Ind by a transport protein rimary role in the mainter ion, skeletal calcium depo- nay lead to failure to mine posure. malabsorption (celiac dis Vitamin D 25- hydroxylas iced Liver disease econdary Hyperparathroi rugs: anti-epileptic drugs b) is Rare, and is seen only and hyperphophatemia. In therapy in deficient inc individuals as compare to	n while in circulation. nance of calcium home osition, calcium mobiliz eralize newly formed os ease) e activity dism (Mild to Moderate like phenytoin, phenobi- after prolonged expose dividuals must be monit	e deficiency) arbital and carbamazepine, ure to extremely high doses	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in it of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i>





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Test Name		Value	Unit	Biological Reference interval
INTERPRETATION:- INCREASED VITAMIN B12		1 Drogr		N B12
1.Ingestion of Vitan 2.Ingestion of Estro		1.Pregr		Calabiaina
3.Ingestion of Vitan			2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion	
4.Hepatocellular in	jury	4. Cont	raceptive Harmones	
5.Myeloproliferativ	e disorder		nodialysis	
6.Uremia	lamin) is necessary for hematop		iple Myeloma	
The body uses its v xcreted. .Vitamin B12 deficie eal resection, smal .Vitamin B12 deficie roprioception, poor ne neurologic defec	ency may be due to lack of IF sec l intestinal diseases). ency frequently causes macrocy coordination, and affective bel ts without macrocytic anemia. nic acid and homocysteine leve	cally, reabsorbing cretion by gastric tic anemia, glossi navioral changes. Is are also elevate (IF) is recommend	y vitamin B12 from the ileun mucosa (eg, gastrectomy, g tis, peripheral neuropathy, These manifestations may o ed in vitamin B12 deficiency ded to identify this potentia	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





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NAME	: Mrs. RITA SETH				
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PA	THOLOGY		
	URINE RO		DSCOPIC EXAMINA	ATION	
PHYSICAL EXAMI					
QUANTITY RECIEV		10	ml		
COLOUR		AMBER YELLOW		PALE YELLOW	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY		CLEAR		CLEAR	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1.01		1.002 - 1.030	
CHEMICAL EXAMI					
REACTION		NEUTRAL			
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PROTEIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
pH		7.5		5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		Negative		NEGATIVE (-ve)	
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID		Normal	EU/dL	0.2 - 1.0	
		Negative		NEGATIVE (-ve)	
		Negative		NEGATIVE (-ve)	
		NEGATIVE (-	-ve)	NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY AMINATION				
RED BLOOD CELLS		NEGATIVE (-	-ve) /HPF	0 - 3	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

NAME	: Mrs. RITA SETH				
AGE/ GENDER	: 72 YRS/FEMALE		PATIENT ID	: 1715577	
<b>COLLECTED BY</b>	: SURJESH : CENTRAL PHOENIX CLUB (AMBALA CANTT) : 01523407 : KOS DIAGNOSTIC LAB		REG. NO./LAB NO.	: <b>012501040011</b> : 04/Jan/2025 10:08 AM : 04/Jan/2025 10:22AM : 04/Jan/2025 10:49AM	
<b>REFERRED BY</b>			<b>REGISTRATION DATE</b>		
BARCODE NO.			<b>COLLECTION DATE</b>		
CLIENT CODE.			<b>REPORTING DATE</b>		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT	2		
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
		~ .	(110.5		

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT3-4/HPFABSENTCRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTABSENTABSENT	by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)CASTSNEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)BACTERIANEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)OTHERSNEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)TRICHOMONAS VAGINALIS (PROTOZOA)ABSENTABSENT		3-4	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)TRICHOMONAS VAGINALIS (PROTOZOA)ABSENTABSENTABSENT		NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT		NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT		NEGATIVE (-ve)		NEGATIVE (-ve)
		NEGATIVE (-ve)		NEGATIVE (-ve)
		ABSENT		ABSENT

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



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