



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		(Pathology)
NAME	: Mr. RAVI SETH			
AGE/ GENDER	: 72 YRS/MALE		PATIENT ID	: 1704995
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412210021
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBAL	LA CANTT)	REGISTRATION DATE	: 21/Dec/2024 10:23 AM
BARCODE NO.	:01522758		COLLECTION DATE	: 21/Dec/2024 10:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Dec/2024 11:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CAN A CITI		LLNESS PANEL: 1.	F
				5
		LETE BL	OOD COUNT (CBC)	
	(RBCS) COUNT AND INDICES	145		12.0 17.0
HAEMOGLOBIN (HB)	14.5	gm/dL	12.0 - 17.0
RED BLOOD CELL (R		5.17 ^H	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLU	CUSING, ELECTRICAL IMPEDENCE ME (PCV)	46.4	%	40.0 - 54.0
by CALCULATED BY AU MEAN CORPUSCULA	TOMATED HEMATOLOGY ANALYZER	00.0	fL	80.0 - 100.0
	K VOLUNIE (NICV) TOMATED HEMATOLOGY ANALYZER	89.8	IL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	28.1	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	31.3 ^L	g/dL	32.0 - 36.0
	TION WIDTH (RDW-CV)	13.7	%	11.00 - 16.00
RED CELL DISTRIBU	ITOMATED HEMATOLOGY ANALYZER TION WIDTH (RDW-SD) ITOMATED HEMATOLOGY ANALYZER	46.2	fL	35.0 - 56.0
MENTZERS INDEX	TOMATED HEMATOLOGY ANALIZER	17.37	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING INDE	ΞX	23.84	RATIO	BETA THALASSEMIA TRAIT:<
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CEL				
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	10830	/cmm	4000 - 11000
NUCLEATED RED BL	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
-	THEMATOLOGY ANALYZER	NIL	%	< 10 %
MUCI EATED DED DI		IN LL.	70	< 111.70





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

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Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

i est Maine	value	Ome	Diviogical weier ence inter var
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	61	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS by flow cytometry by SF cube & microscopy	3	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS by flow cytometry by sf cube & microscopy ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6606	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3032	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	325	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by sf cube & microscopy	866	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	204000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.3	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	14 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	119000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	58.3 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.5	%	15.0 - 17.0



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









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Test Name	Value	Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Dec/2024 03:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			AEMOGLOBIN (HBA1)	
WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA	GLYCC EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	DSYLATED HA 6.9 ^H 151.33 ^H	AEMOGLOBIN (HBA1) % mg/dL	C) 4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN	6.9 ^H 151.33 ^H Diabetes associ	% mg/dL ATION (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	6.9 ^H 151.33 ^H Diabetes associ	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: F Non dia	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.9 ^H 151.33 ^H Diabetes associ	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: B Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 ^H 151.33 ^H Diabetes associ	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: F Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.9 ^H 151.33 ^H Diabetes associ	% mg/dL ATION (ADA): 	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: B Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 ^H 151.33 ^H DIABETES ASSOCI	% mg/dL ATION (ADA): 	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: Non dia At Di	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.9 ^H 151.33 ^H DIABETES ASSOCI	% mg/dL ATION (ADA): <u>VCOSYLATED HEMOGLOGIB</u> <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years s of Therapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: NOT dia At Di	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.9 ^H 151.33 ^H DIABETES ASSOCI	% mg/dL ATION (ADA): 	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

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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LIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANTT		
fest Name		Value	Unit	Biological Reference interval
is C-reactive protein				pically used in conjunction with other test such

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 21/Dec/2024 11:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIST	TRY/BIOCHEMIST	'RY
		GLUCOSE I	FASTING (F)	
GLUCOSE FASTING by glucose oxidasi	(F): PLASMA E - PEROXIDASE (GOD-POD)	121.44 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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.
 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.





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CLIENT CODE.	: KOS DIAGNOSTIC LA	۸R	REPORTING DATE	: 21/Dec/2024 11:57AM
CLIENT ADDRESS		N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			DFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OXI		121.35	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: SE by GLYCEROL PHOSPH	RUM HATE OXIDASE (ENZYMAT	74.62 ric)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL by SELECTIVE INHIBITIC		39.86	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
		00.57	/ 17	HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL by CALCULATED, SPEC		66.57	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, SPEC		81.49	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 CHOLESTERO	L: SERUM	14.92	mg/dL	0.00 - 45.00
by CALCULATED, SPEC	CTROPHOTOMETRY			
TOTAL LIPIDS: SERU		317.32 ^L	mg/dL	350.00 - 700.00
by CALCULATED, SFEC	L RATIO: SERUM	3.04	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 ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.67	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	1.87 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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by DIAZOTIZATION, SPECTROPHOTOMETRY		0	ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.58	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	17.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	12.2	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.42	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	102.02	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	14.7	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	5.72 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	3.97	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.75 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.27 ^H	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:

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





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







Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. RAVI SETH			
AGE/ GENDER	: 72 YRS/MALE	PATIENT ID	: 1704995	
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412210021	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 21/Dec/2024 10:23 AM	
BARCODE NO.	: 01522758	COLLECTION DATE	: 21/Dec/2024 10:47AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Dec/2024 11:57AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT			
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 interval
	KIDNE	Y FUNCTIO)N TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	27.72	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	1.28	mg/dL	0.40 - 1.40
BLOOD UREA NITE by CALCULATED, SPE	COGEN (BUN): SERUM	12.95	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	10.12	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	21.66	RATIO	
URIC ACID: SERUM	1	4.62	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.66	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.45	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	140.3	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.39	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1 /E ELECTRODE)	105.23	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	59.5		

by CALCULATED

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 21/Dec/2024 11:	
CLIENT ADDRESS			TORING DATE	. 21/ Dec/ 2024 11.	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMDALA CANTI			
Test Name		Value	Unit	Biologic	cal Reference interval
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately	IE LEVELS: more than creatinine)	(e.g. obstructive urop	oathy).	
 P. Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther ESTIMATED GLOMERL G1 G2 	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease 0:1) WITH DECREASED BUN : osis. Id starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abso if inappropiate antidiuretic harnon 0:1) WITH INCREASED CREATINI py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i creased BUN/creatinine ratio). apy (interferes with creatinine) UAR FILTERATION RATE: DESCRIPTION Normal kidney fun Kidney damage w normal or high G Mild decrease in 0	JE LEVELS: more than creatinine) fuses out of extracellu sent in blood). mone) due to tubular s increase in creatinine). INE: reatine to creatinine). ncrease in creatinine v measurement). Ction SFR GFR 60	lar fluid). ecretion of urea. vith certain methodo nin/1.73m2) A 90 90 90 Al		
9. Certain drugs (e.g. 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 CREATININ (BUN rises disproportionately superimposed on renal disease 0:1) WITH DECREASED BUN : osis. Id starvation. b. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually absoling in appropiate antidiuretic hard 0:1) WITH INCREASED CREATINI py (accelerates conversion of cleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine) ULAR FILTERATION RATE: DESCRIPTION Normal kidney fun Kidney damage w normal or high G	JE LEVELS: more than creatinine) fuses out of extracellu sent in blood). mone) due to tubular s increase in creatinine). INE: reatine to creatinine). increase in creatinine v measurement). Ction if R GFR 60 in GFR 30	lar fluid). ecretion of urea. vith certain methodo nin/1.73m2) A 90 Al	ologies,resulting in norn 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	PROFILE	
IRON: SERUM		39.8 ^L	μg/dL	59.0 - 158.0

IKUN: SEKUM by FERROZINE, SPECTROPHOTOMETRY	39.8 ^L	µg/dL	59.0 - 158.0
UNSATURATED IRON BINDING CAPACITY (UIBC)	245.1	µg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPECTROPHOTOMETERY			
TOTAL IRON BINDING CAPACITY (TIBC)	284.9	µg/dL	230 - 430
:SERUM			
	Ŧ	0/	15.0 50.0
%TRANSFERRIN SATURATION: SERUM by Calculated, spectrophotometery (ferene)	13.97 ^L	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	202.28	mg/dL	200.0 - 350.0
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

IRON

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

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

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

% TRANSFERRIN SATURATION:

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	г	
Test Name	Value	Unit	Biological Reference interval
	МА	GNESIUM	
MAGNESIUM: SERU	1.20	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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Test Name		Value	Unit	Biological Reference interval
I CSt Mame		Vulue	Unit	biological kelerence interval
			RINOLOGY	
	1	ENDOC		biological itelefence interval
TRIIODOTHYRONI	THYRO	ENDOC	RINOLOGY	0.35 - 1.93
TRIIODOTHYRONI by CMIA (CHEMILUMIN THYROXINE (T4): S] THYRO NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	ENDOC ID FUNC	RINOLOGY TION TEST: TOTAL	
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA] THYRO NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM	ENDOC ID FUNC 1.01	RINOLOGY TION TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT] THYRO NE (T3): SERUM iescent microparticle immunoassay) SERUM iescent microparticle immunoassay) ATING HORMONE (TSH): SERUM iescent microparticle immunoassay)	ENDOC ID FUNC 1.01 8.19	RINOLOGY TION TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION:] THYRO NE (T3): SERUM iescent microparticle immunoassay) SERUM iescent microparticle immunoassay) NTING HORMONE (TSH): SERUM iescent microparticle immunoassay) rasensitive	ENDOC ID FUNC 1.01 8.19 3.833	RINOLOGY TION TEST: TOTAL ng/mL μgm/dL μlU/mL	0.35 - 1.93 4.87 - 12.60

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	
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		Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11-19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING 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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CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTI	7	
Test Name		Value	Unit	Biological Reference interval
		VITAMIN D/25 H	TAMINS YDROXY VITAMIN D	
by CLIA (CHEMILUMINI	DROXY VITAMIN D3): SI ESCENCE IMMUNOASSAY)	ERUM 43.46	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:	CIENT:	< 20	,	ag /ml
	FICIENT:	21 - 29		ng/mL
PREFFERE	D RANGE:	30 - 100		ig/mL
1.Vitamin D compour	CATION:	> 100 v ergocalciferol (from	plants, Vitamin D2), or ch	ig/mL blecalciferol (from animals, Vitamin D3), or by
1. Vitamin D compour conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bou 3. Vitamin D plays a p phosphate reabsorpt 4. Severe deficiency n DECREASED : 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondarv to advar 5. Osteoporosis and S 6. Enzyme Inducing dr INCREASED : 1. Hypervitaminosis I severe hypercalcemia	CATION: Indis are derived from dietai drocholecalciferol to Vitan epresents the main body re- und by a transport protein rimary role in the mainter ion, skeletal calcium depos- nay lead to failure to miner posure. malabsorption (celiac dise Vitamin D 25- hydroxylase iced Liver disease econdary Hyperparathroid rugs: anti-epileptic drugs li D is Rare, and is seen only a and hyperphophatemia.	> 100 rv ergocalciferol (from hin D3 in the skin upor esevoir and transport f while in circulation. ance of calcium home sition. calcium mobiliz ralize newly formed os ease) activity ism (Mild to Moderate ke phenytoin, phenoba	r plants, Vitamin D2), or cho o Ultraviolet exposure. Form of Vitamin D and trans costatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine, ure to extremely high doses	ng/mL





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

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		Chopra y & Microbiology) ionsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAVI SETH			
AGE/ GENDER	: 72 YRS/MALE	РАТ	IENT ID	: 1704995
COLLECTED BY	: SURJESH	RFG	. NO./LAB NO.	: 012412210021
REFERRED BY				
	: CENTRAL PHOENIX CLUB			: 21/Dec/2024 10:23 AM
BARCODE NO.	:01522758		LECTION DATE	: 21/Dec/2024 10:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 21/Dec/2024 12:30PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SED VITAMIN B12		DECREASED VITAMIN	l B12
		1.0	DECREASED VITAMIN	V B12
1.Ingestion of Vitan 2.Ingestion of Estro		1.Pregnancy 2 DRUGS:Asp	irin, Anti-convulsants	Colchicine
3.Ingestion of Vitan		3.Ethanol Iges		
4.Hepatocellular in			ive Harmones	
5.Myeloproliferativ	e disorder	5.Haemodial		
6.Uremia 1.Vitamin B12 (cobal	e disorder amin) is necessary for hemato tained only from animal prote	6. Multiple M opoiesis and normal neur	yeloma onal function.	tion





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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

Test Name	Value	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Dec/2024 03:54PM
BARCODE NO.	: 01522758	COLLECTION DATE	: 21/Dec/2024 10:47AM
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 21/Dec/2024 10:23 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412210021
AGE/ GENDER	: 72 YRS/MALE	PATIENT ID	: 1704995
NAME	: Mr. RAVI SETH		

Dr. Vinay Chopra MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC EXAMINATION

PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1+		NEGATIVE (-ve)
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXAMINATION			
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3





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NAME	: Mr. RAVI SETH				
AGE/ GENDER	: 72 YRS/MALE		PATIENT ID	: 1704995	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTI		ſ		
Test Name		Value	Unit	Biological Reference interval	
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5	
EPITHELIAL CELLS		1-2	/HPF	ABSENT	

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

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***



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