



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
JAME	: Mrs. MANJU NARAHARI			
GE/ GENDER	: 49 YRS/FEMALE		PATIENT ID	: 1689174
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412030022
REFERRED BY	:		REGISTRATION DATE	: 03/Dec/2024 10:11 AM
BARCODE NO.	: 01521893		COLLECTION DATE	: 03/Dec/2024 10:42AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 03/Dec/2024 10:56AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HYA WEI	LINESS PANEL: 1.5	
	COMP	PLETE BLO	OOD COUNT (CBC)	
ED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
IAEMOGLOBIN (H	B)	13.4	gm/dL	12.0 - 16.0
by CALORIMETRIC	RBC) COUNT	4.89	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
ACKED CELL VOLI	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	42.9	%	37.0 - 50.0
	AR VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	87.6	fL	80.0 - 100.0
AEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	27.4	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	31.2 <sup>L</sup>	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		Ŭ	
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.9	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	45.8	fL	35.0 - 56.0
MENTZERS INDEX	OTOMATED TIEMATOLOGT ANALTZER	17.91	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
REEN & KING INI	DEX	24.9	RATIO	BETA THALASSEMIA TRAIT:<=
by CALCOLATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
VHITE BLOOD CE		7400		4000 11000
OTAL LEUCOCYTE	L COUNT (TLC) ( BY SF CUBE & MICROSCOPY	7400	/cmm	4000 - 11000
	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
,	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
	UTOMATED HEMATOLOGY ANALYZER			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. MANJU NARAHARI **AGE/ GENDER** : 49 YRS/FEMALE **PATIENT ID** :1689174 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012412030022 **REFERRED BY REGISTRATION DATE** :03/Dec/2024 10:11 AM : **BARCODE NO.** :01521893 **COLLECTION DATE** :03/Dec/2024 10:42AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :03/Dec/2024 10:56AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** 50 - 70 **NEUTROPHILS** 60 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 30 20 - 40 LYMPHOCYTES % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by ELOW CYTOMETRY BY SECURE & MICROSCOPY

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 by flow cytometry by sf cube & microscopy	4440	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2220	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	296	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	444	/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	235000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.34	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	14 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	132000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	56.3 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.1	%	15.0 - 17.0

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









Test Name	Value	Unit	<b>Biological Reference interval</b>
CLIENT ADDRESS	. 0543/ 1, MCHOLSON KOAD, AMDALA CAI	VI 1	
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NAME	: Mrs. MANJU NARAHARI		
	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)



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







	Dr. Vinay Che MD (Pathology & Chairman & Cons	Dr. Yugam MD CEO & Consultant	(Pathology)	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference inter
GLYCOSYLATED HA WHOLE BLOOD	GLYCO EMOGLOBIN (HbA1c):	<b>DSYLATED HAEMOO</b> 5.4	<b>LOBIN (HBA1)</b> %	<b>2)</b> 4.0 - 6.4
by HPLC (HIGH PERFOR	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	108.28	mg/dL	60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOCIATION (A	ADA):	
	REFERENCE GROUP		ATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	<5.7		
A	t Risk (Prediabetes)		5.7 – 6.4	
	iagnosing Diabetes	>= 6.5		
D	lagitusitig Diabetes			
D			Age > 19 Years	7.0
		Goals of Thera	ару:	< 7.0
	ic goals for glycemic control	Goals of Thera Actions Sugges	ару:	< 7.0 >8.0

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## 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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	ME	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANJU NA	ARAHARI			
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BARCODE NO.	:01521893		COL	LECTION DATE	:03/Dec/2024 10:42AM
CLIENT CODE.	: KOS DIAGNOST	IC LAB	REP	ORTING DATE	:03/Dec/2024 11:26AM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA	CANTT		
Test Name		Va	lue	Unit	<b>Biological Reference interval</b>
		FDVTUDOCVTI	CEDIMEN	TATION RATE (	ECD)
ERYTHROCYTE SE			2 SEDIMEN 2H	mm/1st	
systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigi as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR do 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha	be used to monitor ematosus W ESR en with conditions th nificantly high white le cell anaemia) als re protein (C-RP) are es not change as rap l by as many other f ted, it is typically a r ave a higher ESR, and tran. methyldopa. of	nat inhibit the normal e blood cell count (leue o lower the ESR. both markers of inflat bidly as does CRP, eithe actors as is ESR, makin esult of two types of p d menstruation and pr ral contraceptives, pe	sedimentatic cocytosis) , ar mmation. er at the start <b>g it a better n</b> roteins, glob egnancy can o	n of red blood cells, s ad some protein abno of inflammation or a: <b>harker of inflammatior</b> ulins or fibrinogen. ause temporary eleva	n.





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			k Microbiology) sultant Pathologis		(Pathology) Pathologist
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CLIENT ADDRESS	: 6349/1, NICHO	OLSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	<b>Biological Reference interval</b>
		CLINIC	CAL CHEMIS	TRY/BIOCHEMIST	'RY
			GLUCOSE	E FASTING (F)	
GLUCOSE FASTING	G (F): PLASMA Se - peroxidase (go		81.54	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFII	LE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		186.14	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S. by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	126.43	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM Ion	45.15	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		115.7	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		140.99 <sup>H</sup>	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 CHOLESTER		25.29	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SER by CALCULATED, SPE	CUM	498.71	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	DL RATIO: SERUM	4.12	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 by calculated, spe		2.56	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL RATIO: SERUM	2.8 <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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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION T	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.62	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	17.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	14.4	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.19	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	109.07	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	21.57	U/L	0.00 - 55.0

TOTAL PROTEINS: SERUM 6.49 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY 3.9 ALBUMIN: SERUM gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.59 gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.51 RATIO 1.00 - 2.00 by CALCULATED, SPECTROPHOTOMETRY

#### INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

# **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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Test Name		Value Unit	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).

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



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Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTION T	EST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	21.66	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	0.85	mg/dL	0.40 - 1.20
BLOOD UREA NITE	COGEN (BUN): SERUM	10.12	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM	ROGEN (BUN)/CREATININE	11.91	RATIO	10.0 - 20.0
by CALCULATED, SPE UREA/CREATININ		25.48	RATIO	
by CALCULATED, SPE		23.48	KATIO	
URIC ACID: SERUM by URICASE - OXIDAS		3.86	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		9.88	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		3.23	mg/dL	2.30 - 4.70
<b>ELECTROLYTES</b>	,			
SODIUM: SERUM by ISE (ION SELECTIV		138.6	mmol/L	135.0 - 150.0
POTASSIUM: SERU by ISE (ION SELECTIV	M	4.17	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	103.95	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	83.9		

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



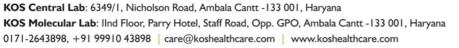


	MD (Pat	n <b>ay Chopra</b> hology & Microbiology) n & Consultant Patholog		<b>Yugam Chopra</b> MD (Pathology) nsultant Pathologist		
NAME	: Mrs. MANJU NARAH	ARI				
AGE/ GENDER	: 49 YRS/FEMALE		PATIENT ID	: 1689174	l	
COLLECTED BY	: SURJESH		REG. NO./LAB NO	. : 012412	2030022	
REFERRED BY	•		<b>REGISTRATION D</b>		2024 10:11 AM	
BARCODE NO.	: 01521893		COLLECTION DAT		2024 10:42AM	
	: KOS DIAGNOSTIC LA	D				
CLIENT CODE.			REPORTING DAT	E : 03/Dec/	2024 12:00PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CAN	Ĩ			
Test Name		Value	Un	it I	Biological Reference int	erval
9. Certain drugs (e.g. I <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia	ass (subnormal creatinir tetracycline, glucocortic <b>0:1) WITH ELEVATED CRE</b> I (BUN rises disproportio	oids) ATININE LEVELS: nately more than creat	inine) (e.g. obstructive	e uropathy).		
<ol> <li>P. Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>G1</li> </ol>	tetracycline, glucocortic <b>0:1) WITH ELEVATED CRE</b> (BUN rises disproportio superimposed on renal <b>0:1) WITH DECREASED B</b> osis. ad starvation. creased urea synthesis. urea rather than creatir monemias (urea is virtue) f inappropiate antidiure <b>10:1) WITH INCREASED CF</b> py (accelerates conversi eleases muscle creatinir who develop renal failuu : sis (acetoacetate causes creased BUN/creatinine apy (interferes with creatir <b>JLAR FILTERATION RATE:</b> <b>DESCR</b> Normal kidr	oids) ATININE LEVELS: nately more than creat disease. UN : ine diffuses out of extri ally absent in blood). tic harmone) due to tu REATININE: on of creatine to creati ie). re. false increase in creat ratio). titnine measurement). PTION GFR ey function GFR	acellular fluid). oular secretion of urea nine). inine with certain met (mL/min/1.73m2) >90	a. hodologies,resulting ASSOCIATED FIN No proteinu	uria	nydrat
<ol> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;'</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>CKD STAGE</li> </ol>	tetracycline, glucocortic <b>0:1) WITH ELEVATED CRE</b> (BUN rises disproportio superimposed on renal <b>0:1) WITH DECREASED B</b> osis. ad starvation. 2. creased urea synthesis. urea rather than creatir monemias (urea is virtue) of inappropiate antidiure <b>10:1) WITH INCREASED CF</b> py (accelerates conversi eleases muscle creatinir who develop renal failuu: sis (acetoacetate causes creased BUN/creatinine apy (interferes with creatir <b>ILAR FILTERATION RATE:</b> <b>DESCR</b> Normal kidr	oids) ATININE LEVELS: nately more than creat disease. UN : ine diffuses out of extri ally absent in blood). tic harmone) due to tu REATININE: on of creatine to creati ie). e. false increase in creat ratio). titinine measurement). INTION GFR rey function  nage with	acellular fluid). oular secretion of urea nine). inine with certain met	a. hodologies,resulting ASSOCIATED FIN No proteinu Presence of Pro	IDINGS Jria otein ,	nydrat
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) MD	m <b>Chopra</b> D (Pathology) ht Pathologist
NAME	: Mrs. MANJU NARAHARI		
AGE/ GENDER	: 49 YRS/FEMALE	PATIENT ID	: 1689174
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012412030022
REFERRED BY	:	<b>REGISTRATION DATE</b>	:03/Dec/2024 10:11 AM
BARCODE NO.	: 01521893	COLLECTION DATE	:03/Dec/2024 10:42AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	:03/Dec/2024 12:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA 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)







	Dr. Vinay Chopi MD (Pathology & Mio Chairman & Consulta	crobiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mrs. MANJU NARAHARI			
AGE/ GENDER	: 49 YRS/FEMALE	PATIE	NT ID	: 1689174
COLLECTED BY	: SURJESH	REG. N	IO./LAB NO.	: 012412030022
<b>REFERRED BY</b>	:	REGIS	TRATION DATE	:03/Dec/2024 10:11 AM
BARCODE NO.	: 01521893	COLLE	CTION DATE	:03/Dec/2024 10:42AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOI	RTING DATE	:03/Dec/2024 12:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PROP	TLE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	48.22	μg/dL	37.0 - 145.0
UNSATURATED IRO SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	228.75	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	276.97	µg/dL	230 - 430
%TRANSFERRIN SA	ATURATION: SERUM CTROPHOTOMETERY (FERENE)	17.41	%	15.0 - 50.0
TRANSFERRIN: SEI		196.65 <sup>L</sup>	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE) INTERPRETATION.

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 **TOTAL IRON BINDING CAPACITY (TIBC):** 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT BA CL CL





		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mrs. MANJU NARAHARI				
AGE/ GENDER	: 49 YRS/FEMALE	PAT	IENT ID	: 1689174	
COLLECTED BY	: SURJESH	REG	NO./LAB NO.	: 012412030022	
REFERRED BY	:	REG	<b>STRATION DATE</b>	:03/Dec/2024 10:11 AM	
BARCODE NO.	:01521893	COL	LECTION DATE	:03/Dec/2024 10:42AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	:03/Dec/2024 12:00PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	<b>Biological Refe</b>	rence interval
		ENDOCRIN	OLOGY		
	1	HYROID FUNCTIO	N TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO	1.168 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE IMMUNO	9.19 DASSAY)	µgm/dL	4.87 - 12.60	
	ATING HORMONE (TSH): SE IESCENT MICROPARTICLE IMMUN		µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
INTERPRETATION:				TI I I I I I I	
day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak lev measured serum TSH concentrations. lure at any level of regulation of the roidism) of T4 and/or T3.	TSH stimulates the production	on and secretion of the m	etabolically active hormones, thyr	oxine (T4)and
	T3	T	4	TSH	
Primary Hypothyroidis				ncreased (Significantly)	

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)	THYROX	(INE (T4)	THYROID STIMU	LATING 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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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. MANJU NARAHARI		
AGE/ GENDER	: 49 YRS/FEMALE	PATIENT ID	: 1689174
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	

Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

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

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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NAME	: Mrs. MANJU NA	RAHARI		
AGE/ GENDER	: 49 YRS/FEMALE	P	ATIENT ID	: 1689174
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CLIENT CODE.	: KOS DIAGNOSTI	C LAB R	EPORTING DATE	:03/Dec/2024 12:01PM
CLIENT ADDRESS	: 6349/1, NICHOI	SON ROAD, AMBALA CANTT		
Test Name	_	Value	Unit	<b>Biological Reference interval</b>
		VITA	MINS	
		VITAMIN D/25 HYD	ROXY VITAMIN D	3
VITAMIN D (25-HY)			ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0
NTERPRETATION	LOCENCE INIMONOASS			SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	n	SUFFICIENCY: 30.0 - 100.0
DEFI INSUFF	CIENT: FICIENT:	< 20 21 - 29	n	SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 g/mL
INSUFF PREFFERE INTOXI 1.Vitamin D compour	CIENT: FICIENT: ED RANGE: CATION: nds are derived from	< 20 21 - 29 30 - 100 > 100	n n nts, Vitamin D2), or cho	SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 g/mL





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Pathology & Microbiology)			Dr. Yugam Chopra MD (Pathology) O & Consultant Pathologist		
NAME	: Mrs. MANJU NARAHARI					
AGE/ GENDER	: 49 YRS/FEMALE	PATI	ENT ID	: 1689174		
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012412030022		
REFERRED BY	:	REGI	STRATION DATE	: 03/Dec/2024 10:11 AM		
BARCODE NO.	: 01521893		ECTION DATE	: 03/Dec/2024 10:42AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 03/Dec/2024 12:30PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD					
Test Name		Value	Unit	Biological Reference interval		
INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNO	/	DECREASED VITAMIN	IB12		
1.Ingestion of Vitamin C		1.Pregnancy				
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitam		9	3.Ethanol Igestion			
4.Hepatocellular in			4. Contraceptive Harmones			
5.Myeloproliferative disorder 6.Uremia			5.Haemodialysis 6. Multiple Myeloma			
	amin) is necessary for hemator					
<ul> <li>2.In humans, it is obti</li> <li>3.The body uses its v</li> <li>excreted.</li> <li>4.Vitamin B12 deficie</li> <li>ileal resection, small</li> <li>5.Vitamin B12 deficie</li> </ul>	tained only from animal protein itamin B12 stores very econom ency may be due to lack of IF se intestinal diseases). ency frequently causes macrocy	ns and requires intrinsic f ically, reabsorbing vitami cretion by gastric mucosa ytic anemia, glossitis, per	factor (IF) for absorp n B12 from the ileum a (eg, gastrectomy, ga ipheral neuropathy, j	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of		
proprioception, poor the neurologic defect	coordination, and affective be ts without macrocytic anemia. nic acid and homocysteine leve	havioral changes. These i	manifestations may c	occur in any combination; many patients have		

e also elevated in vitamin B um methvimalonic aci and nomocysteine level 12 deficiency states

7. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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

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







	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANJU NARAHARI			
AGE/ GENDER	: 49 YRS/FEMALE	РАТ	IENT ID	: 1689174
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<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 03/Dec/2024 10:11 AM
BARCODE NO.	: 01521893		LECTION DATE	: 03/Dec/2024 10:42AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 03/Dec/2024 12:12PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	THOLOGY	
	URINE ROI		SCOPIC EXAMINA	ATION
PHYSICAL EXAMIN				
QUANTITY RECIEV		10	ml	
COLOUR		PALE YELLOV	V	PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
<u>CHEMICAL EXAMI</u>	NATION			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY MINATION	NEGATIVE (-v	e)	NEGATIVE (-ve)
RED BLOOD CELLS		NEGATIVE (-v	e) /HPF	0 - 3





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NANCE



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

MANINI NIADAHADI



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

NAME	: Mrs. MANJU NARAHARI				
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:03/Dec/2024 12:12PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		15-20	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	15-20	/ ПРГ	0 - 3	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	8-10	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT	

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





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