



	Dr. Vinay Chopra MD (Pathology & Micr		Dr. Yugan MD	n Chopra 0 (Pathology)
	Chairman & Consultan			
NAME : I	Mrs. SHIKSHA DEVI			
AGE/ GENDER : 7	73 YRS/FEMALE		PATIENT ID	: 1706364
COLLECTED BY :			REG. NO./LAB NO.	: 012412230021
REFERRED BY :			REGISTRATION DATE	: 23/Dec/2024 12:00 PM
BARCODE NO. : (01522887		COLLECTION DATE	: 23/Dec/2024 12:02PM
	KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Dec/2024 12:28PM
CLIENT ADDRESS : 6	3349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WEI	LLNESS PANEL: 1.	5
			DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		9.9 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC			Milliana	/
RED BLOOD CELL (RBC by HYDRO DYNAMIC FOCU	J) COUN I ISING, ELECTRICAL IMPEDENCE	4.67	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUMI	E (PCV) DMATED HEMATOLOGY ANALYZER	33.1 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR	VOLUME (MCV)	70.9 ^L	fL	80.0 - 100.0
	MATED HEMATOLOGY ANALYZER HAEMOGLOBIN (MCH)	21.2 ^L	pg	27.0 - 34.0
by CALCULATED BY AUTO	MATED HEMATOLOGY ANALYZER			
	HEMOGLOBIN CONC. (MCHC)	29.9 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI		16.6 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTI	MATED HEMATOLOGY ANALYZER ON WIDTH (RDW-SD)	43.9	fL	35.0 - 56.0
by CALCULATED BY AUTO MENTZERS INDEX	MATED HEMATOLOGY ANALYZER	15 10	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED		15.18	RATIO	13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INDEX		25.2	RATIO	>13.0 BETA THALASSEMIA TRAIT:-
by CALCULATED		20.2	in the second se	65.0
				IRON DEFICIENCY ANEMIA: 65.0
WHITE BLOOD CELLS	(WBCS)			00.0
TOTAL LEUCOCYTE CC		6510	/cmm	4000 - 11000
by FLOW CYTOMETRY BY NUCLEATED RED BLO	SF CUBE & MICROSCOPY OD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PART H	EMATOLOGY ANALYZER			
NUCLEATED RED BLO	OD CELLS (nRBCS) % MATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
by CALCULATED BY AUTC				





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SHIKSHA DEVI **AGE/ GENDER** : 73 YRS/FEMALE **PATIENT ID** :1706364 **COLLECTED BY** :012412230021 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 23/Dec/2024 12:00 PM **BARCODE NO.** :01522887 **COLLECTION DATE** :23/Dec/2024 12:02PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :23/Dec/2024 12:28PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 65 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 25% 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 1 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 9 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4232 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1628 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 65 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 586 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 430000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.38^H % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 9 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 81000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 18.711.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.5% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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Test Name	Value	Unit	Biological Reference interval



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference in	nterval
GLYCOSYLATED HA WHOLE BLOOD	GLYCO EMOGLOBIN (HbA1c):	DSYLATED HAEM 5.7	OGLOBIN (HBA1) %	4.0 - 6.4	
by HPLC (HIGH PERFOR ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	116.89	mg/dL	60.00 - 140.00	
	AS PER AMERICAN	DIABETES ASSOCIATIO	N (ADA):		
F	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	/	<5.7		
	t Risk (Prediabetes)		5.7 – 6.4		
Di	agnosing Diabetes		>= 6.5		
			Age > 19 Years	7.0	
Thorapout	is goals for alycomic control	Goals of T		< 7.0	
Therapeutic goals for glycemic control		Actions Suggested: >8.0			
	0 05		Age < 19 Years		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	G DATE	: 23/Dec/2024 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ЕДУТИДО (CYTE SEDIMENTATI	ON DATE (ECD)
EDVTUDOOVTE CEI	DIMENTATION RATE (ESR)	61 ^H	mm/1st	
systemic lupus erythe CONDITION WITH LO' A low ESR can be see (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 5. Women tend to ha 6. Drugs such as dext	be used to monitor disease activity a ematosus W ESR n with conditions that inhibit the no hificantly high white blood cell count e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of the protein as rapidly as does CRP, by as many other factors as is ESR, n ed, it is typically a result of two type ve a higher ESR, and menstruation an	rmal sedimentation of red t (leucocytosis) , and some inflammation. , either at the start of infla naking it a better marker o is of proteins, globulins or nd pregnancy can cause te	l blood cells, s e protein abno mmation or a: f inflammatior fibrinogen. mporary eleva	ormalities. Šome changes in red cell shape (such s it resolves. n.





DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)



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		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 23/Dec/2024 12:53PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTR GLUCOSE FA	Y/BIOCHEMIST STING (F)	'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	E (F): PLASMA E - PEROXIDASE (GOD-POD)	102.83 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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CLIENT ADDRESS : 6349/1, NICH	OLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	LIPID PROFII	E: BASIC	
CHOLESTEROL TOTAL: SERUM	226.71 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	220./1-	ing/ uL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM	71.91	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (EN		0	BORDERLINE HIGH: 150.0 -
			199.0 HIGH: 200.0 - 499.0
			VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL (DIRECT): SEF	2UM 87.03^H	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION			BORDERLINE HIGH HDL: 30.0
			60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM	125.3	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMETR	Y	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 CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETR	v 139.68 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0
by calcolated, of Lotton notometry	,		BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
VLDL CHOLESTEROL: SERUM	14.38	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPECTROPHOTOMETR	Y		
FOTAL LIPIDS: SERUM by calculated, spectrophotometr	525.33	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERU		RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETR			AVERAGE RISK: 4.50 - 7.0
			MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
			111011 MJK. > 11.0



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

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yhoira

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANT	T	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.44	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	0.83 ^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.

 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SE		0.41	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		28.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	18.3	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	1.57	RATIO	0.00 - 46.00
ALKALINE PHOSPH		103.54	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	12.24	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.23	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.24	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.99	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	M	1.42	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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

INCREASED:

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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

INTERPRETATION





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Test Name		Value Unit	Biological Reference interval

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
	KIDNI	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	28.77	mg/dL	10.00 - 50.00
CREATININE: SERI	UM	0.87	mg/dL	0.40 - 1.20
-	ROGEN (BUN): SERUM	13.44	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	15.45	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	33.07	RATIO	
URIC ACID: SERUM	1	3.06	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	10.3	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.36	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV		139.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.3	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		104.63	mmol/L	90.0 - 110.0
ESTIMATED GLON	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	IERULAR FILTERATION RATE	70.3		

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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	MD	: Vinay Chopra (Pathology & Microbi airman & Consultant P	iology)	Yugam Chopra MD (Pathology) nsultant Pathologist	
NAME	: Mrs. SHIKSHA	DEVI			
AGE/ GENDER	: 73 YRS/FEMALE]	PATIENT ID	: 1706364	
COLLECTED BY	:		REG. NO./LAB NO	. : 01241223002	1
REFERRED BY			REGISTRATION D		
BARCODE NO.	: 01522887		COLLECTION DAT		
CLIENT CODE.	: KOS DIAGNOST		REPORTING DAT	E : 23/Dec/2024 0	1:04PM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA	A CANTT		
Test Name		V	alue Un	it Biologi	cal Reference interval
 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis 	10:1) WITH DECREAS osis. nd starvation. e. creased urea synth (urea rather than cr monemias (urea is	ED BUN : esis. eatinine diffuses out	of extracellular fluid).		
 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 	10:1) WITH INCREAS py (accelerates con eleases muscle crea who develop renal isis (acetoacetate ca creased BUN/creati rapy (interferes with JLAR FILTERATION R D Norma Kidne norm	diuretic harmone) due ED CREATININE: version of creatine to atinine). failure. auses false increase ir nine ratio). a creatinine measuren	e to tubular secretion of urea o creatinine). n creatinine with certain met		
6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2 G3a G3b	10:1) WITH INCREAS py (accelerates con eleases muscle crea who develop renal isis (acetoacetate ca creased BUN/creat rapy (interferes with JLAR FILTERATION R D Norma Kidne norm Mild o Modera	diuretic harmone) due ED CREATININE: version of creatine to atinine). failure. auses false increase in inine ratio). a creatinine measuren ATE: ESCRIPTION I kidney function ey damage with hal or high GFR decrease in GFR te decrease in GFR	e to tubular secretion of urea o creatinine). n creatinine with certain met nent). GFR (mL/min/1.73m2) >90 >90 60 -89 30-59	hodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	
6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin their <u>ESTIMATED GLOMERI</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u> <u>G3a</u>	10:1) WITH INCREAS py (accelerates con eleases muscle crea who develop renal isis (acetoacetate ca creased BUN/creat rapy (interferes with JLAR FILTERATION R D Norma Kidne norm Mild co Severe	diuretic harmone) due ED CREATININE: version of creatine to atinine). failure. auses false increase in inine ratio). n creatinine measuren ATE: ESCRIPTION I kidney function ey damage with hal or high GFR Jecrease in GFR	e to tubular secretion of urea o creatinine). n creatinine with certain met nent). GFR (mL/min/1.73m2) >90 >90 60 -89	hodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	





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









	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. SHIKSHA DEVI		
AGE/ GENDER	: 73 YRS/FEMALE	PATIENT ID	: 1706364
COLLECTED BY	:	REG. NO./LAB NO.	: 012412230021
REFERRED BY	:	REGISTRATION DATE	: 23/Dec/2024 12:00 PM
BARCODE NO.	: 01522887	COLLECTION DATE	: 23/Dec/2024 12:02PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Dec/2024 01:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
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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	٢	Dr. Vinay Chopr ID (Pathology & Mic hairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. SHIKSH	A DEVI			
AGE/ GENDER	: 73 YRS/FEMA	LE		PATIENT ID	: 1706364
COLLECTED BY	:			REG. NO./LAB NO.	: 012412230021
REFERRED BY	:			REGISTRATION DATE	: 23/Dec/2024 12:00 PM
BARCODE NO.	:01522887			COLLECTION DATE	:23/Dec/2024 12:02PM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB		REPORTING DATE	: 23/Dec/2024 02:05PM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AME	BALA CANTT		
Test Name			Value	Unit	Biological Reference inter
			IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY		29.86 ^L	μg/dL	37.0 - 145.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CA		380.86 ^H	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (410.72	μg/dL	230 - 430
%TRANSFERRIN S. by CALCULATED, SPE			7.27 ^L	%	15.0 - 50.0
TRANSFERRIN: SE by SPECTROPHOTOM INTERPRETATION:-	RUM		291.61	mg/dL	200.0 - 350.0
VARIAB	BLES	ANEMIA OF CHRON	IIC DISEASE	IRON DEFICIENCY ANEMI	Λ THALASSEMIA α/β TRAIT
SERUM I		Normal to Red		Reduced	Normal

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):

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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	Dr. Vinay Cl MD (Pathology Chairman & Cor		M	u m Chopra D (Pathology) Int Pathologist	
NAME	: Mrs. SHIKSHA DEVI				
AGE/ GENDER	: 73 YRS/FEMALE		PATIENT ID	: 1706364	
COLLECTED BY	:		REG. NO./LAB NO.	:012412230021	
REFERRED BY	:		REGISTRATION DATE	: 23/Dec/2024 12:00 PM	
BARCODE NO.	: 01522887		COLLECTION DATE	: 23/Dec/2024 12:02PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:23/Dec/2024 01:13PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	г		
Test Name		Value	Unit	Biological Referen	ce interval
			CRINOLOGY		
			CTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOA	0.93	ng/mI	0.35 - 1.93	
THYROXINE (T4): S		6.83	μgm/d	L 4.87 - 12.60	
	ATING HORMONE (TSH): SER		μIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
INTERPRETATION:	-to	la hatura 2.4	and at a maintain we had a set of the		
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. T	SH stimulates the p	roduction and secretion of the	Dpm. The variation is of the order of 50%. He netabolically active hormones, thyroxine ther underproduction (hypothyroidism) of	e (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Lov	v Normal	Normal or Low Normal	High	

IIMI	TAT	IONS:-	

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

Increased

Normal or High Normal

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	

Increased

Normal or High Normal





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Reduced (at times undetectable)

Reduced





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NAME	: Mrs. SHIKSHA DEVI		
AGE/ GENDER	: 73 YRS/FEMALE	PATIENT ID	: 1706364
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REFERRED BY	:	REGISTRATION DATE	: 23/Dec/2024 12:00 PM
BARCODE NO.	: 01522887	COLLECTION DATE	: 23/Dec/2024 12:02PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Dec/2024 01:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit	1	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 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra v & Microbiology) onsultant Pathologi	MD	n Chopra 9 (Pathology) t Pathologist
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SHIKSHA DEVI : 73 YRS/FEMALE : : : 01522887 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	D, AMBALA CANT'	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1706364 : 012412230021 : 23/Dec/2024 12:00 PM : 23/Dec/2024 12:02PM : 23/Dec/2024 02:05PM
Test Name		Value	Unit	Biological Reference interval
	VT DROXY VITAMIN D3): SERU ESCENCE IMMUNOASSAY)	FAMIN D/25 H	FAMINS IYDROXY VITAMIN D ng/mL	DEFICIENCY: < 20.0
INTERPRETATION:		< 20		INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	ICIENT:	21 - 29		ng/mLng/mL
	D RANGE:	30 - 100		ng/mL
1.Vitamin D compour conversion of 7- dihy 2.25-OHVitamin D ra tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency m DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake, 3.Depressed Hepatic 4.Secondary to advan 5.Osteoporosis and S 6.Enzyme Inducing dr INCREASED: 1. Hypervitaminosis D severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	drocholecalciferol to Vitamin epresents the main body reser- ind by a transport protein wh rimary role in the maintenand ion, skeletal calcium depositic hay lead to failure to mineraliz posure. malabsorption (celiac disease Vitamin D 25- hydroxylase act ced Liver disease econdary Hyperparathroidism ugs: anti-epileptic drugs like p 0 is Rare, and is seen only afte and hyperphophatemia. nt therapy in deficient individ individuals as compare to white	D3 in the skin upo voir and transport ile in circulation. ce of calcium home on, calcium mobiliz ze newly formed or civity (Mild to Moderat ohenytoin, phenob r prolonged exposi- uals must be moni-	n plants, Vitamin D2), or cho n Ultraviolet exposure. form of Vitamin D and trans eostatis. It promotes calciu zation, mainly regulated by steoid in bone, resulting in e deficiency) arbital and carbamazepine, ure to extremely high doses tored by periodic assessment	ng/mL Diecalciferol (from animals, Vitamin D3), or by sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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	: Mrs. SHIKSHA DEVI			Pathologist
COLLECTED BY	: 73 YRS/FEMALE	PAT	ENT ID	: 1706364
	:	REG.	NO./LAB NO.	: 012412230021
REFERRED BY			STRATION DATE	: 23/Dec/2024 12:00 PM
	: 01522887	COLLECTION DATE		: 23/Dec/2024 12:02PM
	: KOS DIAGNOSTIC LAB		DRTING DATE	: 23/Dec/2024 01:16PM
			DAIL	. 25/ Det/ 2024 01.101 M
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
restraine		Value	Unit	biological weier enter var
	SCENT MICROPARTICLE IMMUNOAS	> 2000^H	pg/mL	190.0 - 890.0
INTERPRETATION:-		> 2000 **		
<u>INTERPRETATION:-</u> INCREASEL	D VITAMIN B12	SAY)	pg/mL DECREASED VITAMIN	
INTERPRETATION:- INCREASED 1.Ingestion of Vitamin	D VITAMIN B12	5AY)		IB12
INTERPRETATION:- INCREASED 1.Ingestion of Vitamin 2.Ingestion of Estroge 3.Ingestion of Vitamin	D VITAMIN B12 n C n n A	5AY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DECREASED VITAMIN	IB12
INTERPRETATION:- INCREASED 1.Ingestion of Vitamin 2.Ingestion of Estroge 3.Ingestion of Vitamin 4.Hepatocellular injur	D VITAMIN B12 n C n n A ry	5AY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti	DECREASED VITAMIN rin, Anti-convulsants tion ve Harmones	IB12
INTERPRETATION:- INCREASED 1.Ingestion of Vitamin 2.Ingestion of Estroge 3.Ingestion of Vitamin	D VITAMIN B12 n C n n A ry	5AY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DECREASED VITAMIN rin, Anti-convulsants tion ve Harmones rsis	IB12

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.





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NAME : Mrs. SHIKSHA DEVI			
AGE/ GENDER : 73 YRS/FEMALE	PATIEN	T ID	: 1706364
COLLECTED BY :	REG. NO)./LAB NO.	: 012412230021
REFERRED BY :		RATION DATE	: 23/Dec/2024 12:00 PM
BARCODE NO. : 01522887 CLIENT CODE. : KOS DIAGNOSTIC LAB		TION DATE	: 23/Dec/2024 12:02PM
CLIENT CODE.: KOS DIAGNOSTIC LABCLIENT ADDRESS: 6349/1, NICHOLSON ROAD		FING DATE	: 23/Dec/2024 12:33PM
Test Name	Value	Unit	Biological Reference interval
	CLINICAL PATH	OLOGY	
URINE R	OUTINE & MICROSCO	OPIC EXAMIN	ATION
PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION			
RED BLOOD CELLS (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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

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







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

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

NAME	: Mrs. SHIKSHA DEVI				
AGE/ GENDER	: 73 YRS/FEMALE		PATIENT ID	: 1706364	
COLLECTED BY	:		REG. NO./LAB NO.	: 012412230021	
REFERRED BY	:		REGISTRATION DATE	: 23/Dec/2024 12:00 PM	
BARCODE NO.	: 01522887		COLLECTION DATE	: 23/Dec/2024 12:02PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Dec/2024 12:33PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		1-3	/HPF	0 - 5	

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/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





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

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

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