



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mrs. MAMTA RANI			
AGE/ GENDER	: 49 YRS/FEMALE		PATIENT ID	: 1549131
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407150027
REFERRED BY	:		REGISTRATION DATE	: 15/Jul/2024 09:13 AM
BARCODE NO.	: 01513173		COLLECTION DATE	: 15/Jul/2024 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 15/Jul/2024 09:48AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.5	
	COM	IPLETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES		. ,	
HAEMOGLOBIN (HB) by calorimetric		11.5 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RE	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.96	Millions/cr	mm 3.50 - 5.00
PACKED CELL VOLUN		37.5	%	37.0 - 50.0
MEAN CORPUSCULA		75.6 ^L	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	23.1 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	30.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV) automated hematology analyzer	17.8 ^H	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD)	50.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.24	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	27.03	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) y by sf cube & microscopy	8770	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	DOD CELLS (NRBCS) % NUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %
DIFFERENTIAL LEUCO				

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. MAMTA RANI			
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Test Name		Value	Unit	Biological Reference interval
	RY BY SF CUBE & MICROSCOPY	49 ^L	%	50 - 70
LYMPHOCYTES	RY BY SF CUBE & MICROSCOPY	36	%	20 - 40
EOSINOPHILS		9 ^H	%	1-6
MONOCYTES		6	%	2 - 12
BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
	RY BY SF CUBE & MICROSCOPY YTES (WBC) COUNT			
	PHIL COUNT BY BY SF CUBE & MICROSCOPY	4297	/cmm	2000 - 7500
ABSOLUTE LYMPHC	CYTE COUNT	3157	/cmm	800 - 4900
ABSOLUTE EOSINO		789 ^H	/cmm	40 - 440
ABSOLUTE MONOC	ry by sf cube & microscopy YTE COUNT Ry by sf cube & microscopy	526	/cmm	80 - 880
ABSOLUTE BASOPH	IL COUNT	0	/cmm	0 - 110
	RY BY SF CUBE & MICROSCOPY HER PLATELET PREDICTIVE MARKE	<u>RS.</u>		
	PLT) FOCUSING, ELECTRICAL IMPEDENCE	249000	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.32	%	0.10 - 0.36
MEAN PLATELET VC		13 ^H	fL	6.50 - 12.0
PLATELET LARGE CE		121000 ^H	/cmm	30000 - 90000
PLATELET LARGE CE		48.5 ^H	%	11.0 - 45.0
PLATELET DISTRIBU	FOCUSING, ELECTRICAL IMPEDENCE	15.9	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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BARCODE NO.	:01513173	COLLEC	FION DATE	: 15/Jul/2024 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 15/Jul/2024 02:44PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LYCOSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	DGLOBIN (HbA1c):	6	%	4.0 - 6.4
ESTIMATED AVERAGE F		125.5	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA):		
RE	FERENCE GROUP	GLYCOSYLATED HEN		n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)		7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
		°	19 Years	
		Goals of Therapy:	< 7.0	
Therapeutic goals for glycemic control		Actions Suggested:	>8.0	

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

Goal of therapy:

Age < 19 Years

<7.5

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

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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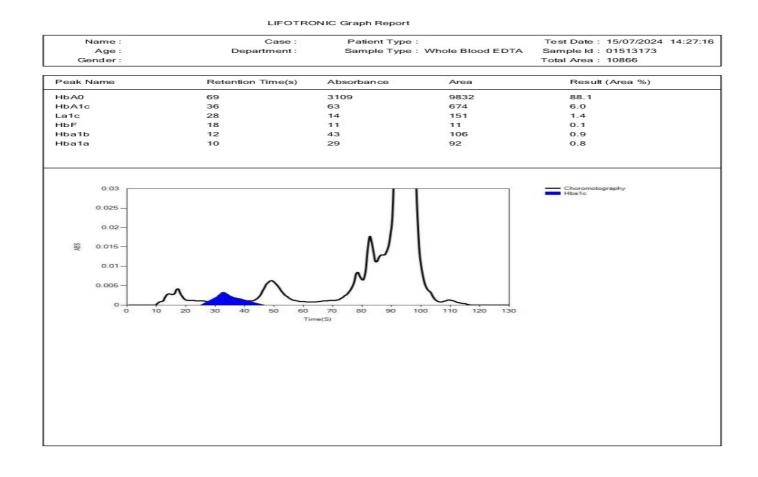


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Test Name		Value	Unit	Biological Reference interval







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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 15/Jul/2024 10:02AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIMENT	ATION RATE (ESF	R)
	MENITATION DATE (ECD)	41 ^H	mm/1st h	r 0-20
ERYTHROCYTE SEDI by MODIFIED WESTE INTERPRETATION:	RGREN AUTOMATED METHOD			

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as devicen, methylicity and contracentives.

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6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 15/Jul/2024 10:35AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMIS	TRY/BIOCHEMISTR	Y
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING (I by GLUCOSE OXIDAS	E): PLASMA E - PEROXIDASE (GOD-POD)	85.45	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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NAME AGE/ GENDER	: Mrs. MAMTA RANI : 49 YRS/FEMALE	P	ATIENT ID	: 1549131
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 15/Jul/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O		134.88	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	78.5	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		48.38	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		70.8	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		86.5	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL		15.7	mg/dL	0.00 - 45.00
by CALCULATED, SPE		348.26 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	2.79	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SEF by CALCULATED, SPE		1.46	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	Bor	Ga	ofra	

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.62 ^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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN DIRECT (C by DIAZO MODIFIED, S BILIRUBIN INDIRECT by CALCULATED, SPE	ERUM PECTROPHOTOMETRY CONJUGATED): SERUM SPECTROPHOTOMETRY (UNCONJUGATED): SERUM	0.62 0.29 0.33	DN TEST (COMPLETE) mg/dL mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40 0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	30.93	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	47.73	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE		0.65	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		172 ^H	U/L	40.0 - 150.0
	TRANSFERASE (GGT): SERUM	62 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO	RUM	7.42	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	REEN	4.02	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		3.4	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.18	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
	KI	ONEY FUNCTION 1	TEST (COMPLETE)	
UREA: SERUM		46.51	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)		, i i i i i i i i i i i i i i i i i i i	
CREATININE: SERUN		0.66	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC	GEN (BUN): SERUM	21.73	ma/dl	7.0 - 25.0
	ECTROPHOTOMETRY	21.75	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	32.92 ^H	RATIO	10.0 - 20.0
RATIO: SERUM				
			DATIO	
UREA/CREATININE I	RATIU: SERUIVI ECTROPHOTOMETRY	70.47	RATIO	
URIC ACID: SERUM		5.3	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE			
CALCIUM: SERUM		9.02	mg/dL	8.50 - 10.60
		3.96	ma/dl	2 30 4 70
PHOSPHOROUS: SEF by PHOSPHOMOLYBL	COIVI DATE, SPECTROPHOTOMETRY	3.70	mg/dL	2.30 - 4.70
ELECTROLYTES				
sodium: serum		137.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)			
POTASSIUM: SERUN		4.33	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN	/E ELECTRODE)	100 10		00.0.110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	/F FLECTRODE)	103.13	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	107.5		
(eGFR): SERUM		107.0		
by CALCULATED				
INTERPRETATION:				

INTERPRETATION: To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





0 0001 . 2000 0211						
	Μ	Dr. Vinay Chopra D (Pathology & Micro hairman & Consultant			am Chopra 1D (Pathology) ant Pathologist	
NAME	: Mrs. MAMTA	RANI				
AGE/ GENDER	: 49 YRS/FEMA		PAT	TENT ID	: 1549131	
	: SURJESH			. NO./LAB NO.	:012407150027	
COLLECTED BY	SURJESH					
REFERRED BY	:			SISTRATION DATE		
BARCODE NO.	:01513173		COI	LECTION DATE	: 15/Jul/2024 09:25	AM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB	REF	ORTING DATE	: 15/Jul/2024 11:13	AM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBAI	LA CANTT			
Test Name			Value	Unit	Biological	Reference interval
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 G1 G2	osis. Ind starvation. e. creased urea synt (urea rather than monemias (urea i of inappropiate an 10:1) WITH INCREA upy (accelerates co eleases muscle cr who develop rena isis (acetoacetate creased BUN/crea rapy (interferes wi <u>JLAR FILTERATION</u> Norm Kid nor	thesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine t eatinine). al failure. causes false increase atinine ratio). ith creatinine measure RATE: DESCRIPTION nal kidney function_ ney damage with mal or high GFR_	lood). ue to tubular se to creatinine). in creatinine w ement). 	ecretion of urea. hith certain method hin/1.73m2)	ologies,resulting in norma <u>ASSOCIATED FINDINGS</u> <u>No proteinuria</u> Presence of Protein , Albumin or cast in urine	al ratio when dehydration
G3a		decrease in GFR		-89		4
G3b G4		ate decrease in GFR		-59 -29		4
04	JEVE		10	L1		4

Kidney failure

G5

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NAME	: Mrs. MAMTA RANI		
AGE/ GENDER	: 49 YRS/FEMALE	PATIENT ID	: 1549131
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407150027
REFERRED BY	:	REGISTRATION DATE	: 15/Jul/2024 09:13 AM
BARCODE NO.	:01513173	COLLECTION DATE	: 15/Jul/2024 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 15/Jul/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA 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





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NAME	: Mrs. MAMTA	RANI			
AGE/ GENDER	: 49 YRS/FEMA	LE		PATIENT ID	: 1549131
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 012407150027
REFERRED BY	:			REGISTRATION DATE	: 15/Jul/2024 09:13 AM
BARCODE NO.	:01513173			COLLECTION DATE	: 15/Jul/2024 09:25AM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB		REPORTING DATE	: 15/Jul/2024 11:14AM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, A	MBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY		53.4	μg/dL	50.0 - 170.0
UNSATURATED IRON SERUM			228.7	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM by SPECTROPHOTOM	G CAPACITY (TIB		282.1	μg/dL	230 - 430
%TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERUN		18.93	%	15.0 - 50.0
TRANSFERRIN: SERU	IM	. ,	200.29	mg/dL	200.0 - 350.0
INTERPRETATION:- VARIAB		ANEMIA OF CHI		IRON DEFICIENCY ANEMIA	
		AIVEIVIA OF CHI		RON DEFICIENCY ANEIVIA	A THALASSEMIA α/β TRAIT

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):

 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





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mrs. MAMTA RANI			
AGE/ GENDER	: 49 YRS/FEMALE		PATIENT ID	: 1549131
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407150027
REFERRED BY	:		REGISTRATION DATE	: 15/Jul/2024 09:13 AM
BARCODE NO.	: 01513173		COLLECTION DATE	: 15/Jul/2024 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 15/Jul/2024 10:47AM
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AM	Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	ТНУ	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINE	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	1.052 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	RUM iescent microparticle immunoassa	8.65 Y)	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels bet	ween 2-4 a.m. mulates the p	roduction and secretion of the m	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

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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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHY	(RONINE (T3)	THYROX	INE (T4)	THYROID STIMUL	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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		Dr. Vinay Ch MD (Pathology & Chairman & Cons			gam Chopra MD (Pathology) ıltant Pathologist	
NAME	: Mrs. MAMT	A RANI				
AGE/ GENDER	: 49 YRS/FEN	IALE	P	PATIENT ID	: 1549131	
COLLECTED BY	: SURJESH		F	REG. NO./LAB NO.	:012407150	027
REFERRED BY	:		R	REGISTRATION DAT	FE : 15/Jul/2024	09:13 AM
BARCODE NO.	:01513173		C	COLLECTION DATE	: 15/Jul/2024	09:25AM
CLIENT CODE.	: KOS DIAGN	OSTIC LAB	F	REPORTING DATE	: 15/Jul/2024	10:47AM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, A	AMBALA CANTT			
r						
Test Name			Value	Unit	Biolo	ogical Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	7

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 PREGN	ANCY (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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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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		& Microbiology) nsultant Pathologist	CEO & Consultant	(Pathology) Pathologist
NAME	: Mrs. MAMTA RANI			
AGE/ GENDER	: 49 YRS/FEMALE	PAT	ENT ID	: 1549131
COLLECTED BY	: SURJESH	REG	NO./LAB NO.	: 012407150027
REFERRED BY	:	REG	STRATION DATE	: 15/Jul/2024 01:18 PM
BARCODE NO.	: 01513173	COL	LECTION DATE	: 15/Jul/2024 01:43PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 15/Jul/2024 02:10PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	ΛΙ	Value /IMUNOPATHOLO		Biological Reference interval
Test Name	IN		GY/SEROLOGY	Biological Reference interval
	IN N (CRP) QUANTITATIVE:	/MUNOPATHOLO	GY/SEROLOGY	Biological Reference interval
		/MUNOPATHOLO C-REACTIVE PRO	GY/SEROLOGY ITEIN (CRP)	

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tivity of inflammatory disease, to detect infections after surgery, to detect transplant rejection, and to monitor these inflammatory processes.

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history. 2. Oral contraceptives may increase CRP levels.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. MAMTA RANI : 49 YRS/FEMALE : SURJESH : : 01513173 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1549131 : 012407150027 : 15/Jul/2024 09:13 AM : 15/Jul/2024 09:25AM : 15/Jul/2024 11:43AM
Test Name		Value	Unit	Biological Reference interval
	RHEUMAT	OID FACTOR (RA): QUANTITATIVE - S	SERUM
SERUM by NEPHLOMETRY INTERPRETATION:- RHEUMATOID FACTOO 1. Rheumatoid factor 2. Over 75% of patier useful although it ma 3. Inflammatory Marl 4. The titer of RF corr	s (RF) are antibodies that are din nts with rheumatoid arthritis (R/ y not be etiologically related to kers such as ESR & C-Reactive pr elates poorly with disease activi or diagnosis and prognosis of rh	A) have an IgM an RA. otein (CRP) are no ty, but those patie	ntibody to IgG immunoglob ormal in about 60 % of pati ents with high titers tend to	ulin. This autoantibody (RF) is diagnostically
1. Rheumatoid Arthir membrane lining (sy 2. The disease spreda 3. The diagnosis of R measurement of RA fa CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid an RA patients have a no 3. Patients with variou lupus erythematosus, 4. Anti-CCP have been specific (98%) than RA 5. Upto 30 % of patien	itis is a systemic autoimmune d novium) joints which ledas to pr as from small to large joints, wit A is primarily based on clinical, actor. TIVE):- cific for Rheumatoid arthiritis, as ad rheumatoid arthritis (RA) popu nreactive titer and 8% of nonrheu us nonrheumatoid diseases,chara polymyositis, tuberculosis, syphil discovered in joints of patients w	ogressive joint de h greatest damag radiological & imi it is often present lations are not clea umatoid patients h cterized by chronic is, viral hepatitis, i vith RA, but not in d arthiritis also sho	estruction and in most case ie in early phase. munological features.The r in healthy individuals with c arly separate with regard to have a positive titer). c inflammation may have po infectious mononucleosis, ar other form of joint disease.A ow Anti-CCP antibodies.	is characterized by chronic inflammation of the es to disability and reduction of quality life. most frequent serological test is the other autoimmune diseases and chronic infections. the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include systemic ind influenza. Anti-CCP2 is HIGHLY SENSITIVE (71%) & more neumatoid factor.





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Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path		k Microbiology)	Dr. Yugam Chopra MD (Pathology) ist CEO & Consultant Pathologist		
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. MAMTA RANI : 49 YRS/FEMALE : SURJESH : : 01513173 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1549131 : 0124071500 : 15/Jul/2024 09 : 15/Jul/2024 09 : 15/Jul/2024 10	9:13 AM 9:25AM
Test Name		Value	Unit	Biologi	cal Reference interval
	ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	30.6	ng/mL	INSUFF SUFFIC	ENCY: < 20.0 TICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0 TY: > 100.0
DEFI	CIENT:	< 20		ng/mL	
	FICIENT: ED RANGE:	<u>21 - 29</u> 30 - 100		ng/mL ng/mL	
	CATION:	> 100		ng/mL	
conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bou 3. Vitamin D plays a p bhosphate reabsorpt 4. Severe deficiency n DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advar 5. Osteoporosis and S 6. Enzyme Inducing di INCREASED: 1. Hypervitaminosis I severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	malabsorption (celiac disease) Vitamin D 25- hydroxylase activi becondary Hyperparathroidism (f rugs: anti-epileptic drugs like pho D is Rare, and is seen only after p a and hyperphophatemia. ent therapy in deficient individua <i>individuals as compare to whites</i> ,	B in the skin upon ir and transport fo in circulation. of calcium homeo , calcium mobilizat newly formed oste ity Mild to Moderate enytoin, phenobar prolonged exposur Is must be monito	Ultraviolet exposure. Irm of Vitamin D and tran Istatis. It promotes calciu tion, mainly regulated by eoid in bone, resulting in deficiency) bital and carbamazepine e to extremely high doses red by periodic assessme	sport form of Vitami m absorption, renal parathyroid harmor rickets in children an , that increases Vitar s of Vitamin D. Wher nt of Vitamin D level	n D, being stored in adipose calcium absorption and le (PTH). nd osteomalacia in adults. nin D metabolism. n it occurs, it can result in s in order to prevent





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	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)		
NAME	: Mrs. MAMTA RANI					
AGE/ GENDER	: 49 YRS/FEMALE	PATI	ENT ID	: 1549131		
COLLECTED BY	: SURJESH	REG. NO./LAB NO.		: 012407150027		
REFERRED BY		REGISTRATION DATE		: 15/Jul/2024 09:13 AM		
BARCODE NO.	:01513173	COLLECTION DATE		: 15/Jul/2024 09:25AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE				
			VRIING DATE	: 15/Jul/2024 10:47AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
, ,	LAMIN: SERUM	223 SSAY)	pg/mL	190.0 - 890.0		
NTERPRETATION:-	SED VITAMIN B12		DECREASED VITAMIN	1812		
1.Ingestion of Vitamin C			1.Pregnancy			
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine		, Colchicine		
3.Ingestion of Vitam		3.Ethanol Igestion				
4.Hepatocellular injury			4. Contraceptive Harmones			
5.Myeloproliferativ 6.Uremia		5.Haemodialys 6. Multiple My	sis veloma			





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER	: Mrs. MAMTA RANI : 49 YRS/FEMALE	PATIEN	T ID	: 1549131
COLLECTED BY	: SURJESH	REG. NO)./LAB NO.	: 012407150027
REFERRED BY	:	REGIST	RATION DATE	: 15/Jul/2024 09:13 AM
BARCODE NO.	:01513173	COLLEC	TION DATE	: 15/Jul/2024 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 15/Jul/2024 11:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
	URINE RO	OUTINE & MICROSCO	PIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR		10		
		PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY		CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		>=1.030		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	Noibio		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
pH		5.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Norma	LO/GL	
KETONE BODIES		Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	3		
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION

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

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

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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

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						CLIENT CODE.	LIENT CODE. : KOS DIAGNOSTIC LAB		ING DATE	: 15/Jul/2024 11:49AM	
						CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval							
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3							
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-2	/HPF	0 - 5							
EPITHELIAL CELLS by MICROSCOPY ON C	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

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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

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

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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT