



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	M	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. MEGHA AGGARWAL			
AGE/ GENDER	: 39 YRS/FEMALE		PATIENT ID	: 1576453
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408100024
REFERRED BY	:		REGISTRATION DATE	: 10/Aug/2024 10:21 AM
BARCODE NO.	:01514821		COLLECTION DATE	: 10/Aug/2024 10:26AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Aug/2024 10:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	SALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.	5
	CON	/IPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (I	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		11.5 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE		4.35	Millions	s/cmm 3.50 - 5.00
	FOCUSING, ELECTRICAL IMPEDENCE	4.55	IVIIIIOUS	Schim 5.50 - 5.00
PACKED CELL VOLUN	ME (PCV) automated hematology analyzer	36.3 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	83.6	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER	or el	na	27.0 - 34.0
	AUTOMATED HEMATOLOGY ANALYZER	26.5 ^L	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31.7 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV)	14.8	%	11.00 - 16.00
	automated hematology analyzer TION WIDTH (RDW-SD)	46.3	fL	35.0 - 56.0
	AUTOMATED HEMATOLOGY ANALYZER	40.5	12	33.0 - 30.0
MENTZERS INDEX by CALCULATED		19.22	RATIO	BETA THALASSEMIA TRAIT: < 13.0
GREEN & KING INDE	X	28.51	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED		20.01	1	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL		0.470		1000 11000
TOTAL LEUCOCYTE C	COUNT (TLC) y by sf cube & microscopy	9470	/cmm	4000 - 11000
NUCLEATED RED BL		NIL		0.00 - 20.00
NUCLEATED RED BLO by CALCULATED BY A MICROSCOPY	OOD CELLS (nRBCS) % automated hematology analyzer &	NIL	%	< 10 %
DIFFERENTIAL LEUC	<u>OCYTE COUNT (DLC)</u>			



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

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. MEGHA AGGARWAL AGE/ GENDER : 39 YRS/FEMALE **PATIENT ID** :1576453 : SURJESH **COLLECTED BY** :012408100024 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 10/Aug/2024 10:21 AM : **BARCODE NO.** :01514821 **COLLECTION DATE** : 10/Aug/2024 10:26AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :10/Aug/2024 10:46AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** NEUTROPHILS 52 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 33 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 11^H EOSINOPHILS % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % MONOCYTES 4 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** 2000 - 7500 ABSOLUTE NEUTROPHIL COUNT 4924 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 800 - 4900 3125 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 40 - 440 /cmm 1042^H by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 379 /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. 255000 PLATELET COUNT (PLT) /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.32 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 13^H **MEAN PLATELET VOLUME (MPV)** fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 114000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 44.7 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 16.4 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LYCOSYLATED HAEMO	OGLOBIN (HBA1C)	
GLYCOSYLATED HAEM	OGLOBIN (HbA1c):	5.7	%	4.0 - 6.4
WHOLE BLOOD				
ESTIMATED AVERAGE F	MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	116.89	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA)	:	
RE	FERENCE GROUP	GLYCOSYLATED) HEMOGLOGIB (HBAIC) i	in %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
			Age > 19 Years	
Thoracoutie	goolo for glycomic control	Goals of Therapy:	< 7.0	
inerapeutic	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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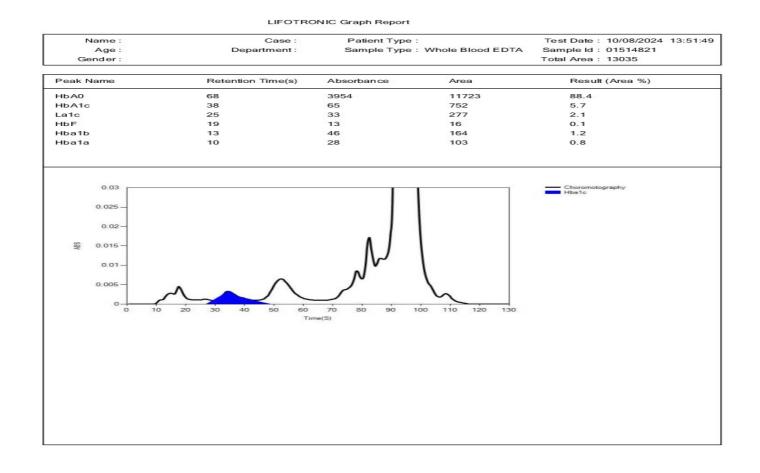


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Test Name		Value	Unit	Biological Reference interval







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BARCODE NO.	:01514821			COLLECTION DATE	: 10/Aug/2024 10:26AM
CLIENT CODE.	: KOS DIAGN			REPORTING DATE	: 10/Aug/2024 10:58AM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		FDVTI		MENTATION RATE (ES	P)
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOV A low ESR can be see polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 8. CRP is not affected 4. If the ESR is elevate 5. Women tend to ha	RGREN AUTOMAT ic test because does not tell th cted by other c be used to more ematosus N ESR n with condition ificantly high v e cell anaemia e protein (C-RP s not change at by as many oth ed, it is typicall ve a higher ESR ran, methyldog	TED METHOD an elevated resu- be health practitic onditions besides hitor disease activ ns that inhibit the vhite blood cell co) are both marker is rapidly as does of the factors as is ES y a result of two ba, oral contrace	oner exactly wher s inflammation. For vity and response e normal sedimer ount (leucocytosi SR. cRP, either at the SR, making it a be types of proteins, on and pregnancy	te the inflammation is in the or this reason, the ESR is typ to therapy in both of the a ntation of red blood cells, si s), and some protein abno n. e start of inflammation or as tter marker of inflammatior globulins or fibrinogen. can cause temporary eleva	ion associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.





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BARCODE NO.	:01514821	CO	LLECTION DATE	: 10/Aug/2024 10:26AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 10/Aug/2024 11:45AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		UCAL CHEMISTR	Y/BIOCHEMISTR	Y
	CLIN		IT DIOONEIMIOTIK	-
	CLIN	GLUCOSE FA		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 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.



		Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. MEGHA AGGARWAL			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 10/Aug/2024 12:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTA	L: SERUM	164.39	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX			3.4	BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	189.92 ^H	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		46.85	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: S		79.56	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY			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		117.54	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
		37.98	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUI by CALCULATED, SPE	N	518.7	mg/dL	350.00 - 700.00
by CALCOLATED, SPE CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	3.51	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: SER by calculated, spe		1.7	RATIO	LOW RISK: 2 11.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	4.05	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 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			. 10, 148, 2021 12.1111
	, , , , , , , , , , , , , , , , , , , ,			
Test Name		Value	Unit	Biological Reference interval
			TEST (COMPLETE)	
BILIRUBIN TOTAL: SI	ERUM PECTROPHOTOMETRY	0.61	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.17	mg/dL	0.00 - 0.40
	SPECTROPHOTOMETRY	0.17	Thig/ UL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.44	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		23.1	U/L	7.00 - 45.00
by IFCC, WITHOUT PY SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	26.3	U/L	0.00 - 49.00
	RIDOXAL PHOSPHATE	20.3	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.88	RATIO	0.00 - 46.00
by CALCULATED, SPE			1.1.4	10.0 100.0
ALKALINE PHOSPHA	I ASE: SERUIVI YL PHOSPHATASE BY AMINO METHYL	105.51	U/L	40.0 - 130.0
PROPANOL				
	TRANSFERASE (GGT): SERUM	15.35	U/L	0.00 - 55.0
by SZASZ, SPECTROF TOTAL PROTEINS: SE		6.94	gm/dL	6.20 - 8.00
by BIURET, SPECTRO		0.74	gin/ uL	0.20 - 0.00
ALBUMIN: SERUM		3.76	gm/dL	3.50 - 5.50
by BROMOCRESOL G	REEN	0.10		0.00 0.50
GLOBULIN: SERUM by CALCULATED, SPE		3.18	gm/dL	2.30 - 3.50
by CALCULATED, SPE		1 10	DATIO	1.00.0.00

Dr Vinay Ch

by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

A : G RATIO: SERUM

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5

1.18





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RATIO

1.00 - 2.00

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Test Name		Value	Unit	Biological Refer	ence interval
HEPATOCELLULAR C.	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	
DECREASED:			· · · · · · · · · · · · · · · · · · ·	<u>.</u>	

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

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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







	Dr. Vinay Ch MD (Pathology & Chairman & Con	opra Microbiology) sultant Pathologist		(Pathology)
NAME	: Mrs. MEGHA AGGARWAL			
AGE/ GENDER	: 39 YRS/FEMALE		PATIENT ID	: 1576453
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408100024
REFERRED BY	:		REGISTRATION DATE	: 10/Aug/2024 10:21 AM
BARCODE NO.	:01514821		COLLECTION DATE	: 10/Aug/2024 10:26AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Aug/2024 12:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
	КІ	ONEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		17.13	mg/dL	10.00 - 50.00
	IATE DEHYDROGENASE (GLDH)		ů	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		0.84	mg/dL	0.40 - 1.20
		8	mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY		5	ing, de	1.0 20.0
	GEN (BUN)/CREATININE	9.52 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININE F		20.39	RATIO	
by CALCULATED, SPE				
URIC ACID: SERUM		5.02	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	DE FERUXIDASE	9.47	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	CTROPHOTOMETRY	,,	ing/aL	0.00 10.00
PHOSPHOROUS: SER		4.32	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
		120.0	mms al /l	125.0.150.0
SODIUM: SERUM by ise (ion selectiv	(E ELECTRODE)	139.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		3.89	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUM by ISE (ION SELECTIV		104.85	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	90.6		
by CALCULATED				

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Patholo	licrobiology) MD (Path			Pathology)		
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	. 50101511							
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BARCODE NO.	:01514821		COLLECTION DAT		10/Aug/2024 1			
CLIENT CODE.	: KOS DIAGNOSTIC L	AB	REPORTING DATE	E :	10/Aug/2024 1	12:17PM		
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CAN	ſΤ					
Test Name		Value	Uni	it	Biologi	ical Refere	ence interva	I
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	superimposed on rena 0:1) WITH DECREASED	ine production) coids) EATININE LEVELS: onately more than creat disease.			Cushing's synd	frome, high		ŧt,
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an im 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE	(e.g. ureter colostomy) ass (subnormal creatin tetracycline, glucocort D:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena 0:1) WITH DECREASED osis. d starvation. creased urea synthesis urea rather than creatin monemias (urea is virtu f inappropiate antidiur 0:1) WITH INCREASED (by (accelerates conversible eleases muscle creatin who develop renal failut sis (acetoacetate cause creased BUN/creatinin- apy (interferes with creatinin- apy (interferes with creatinin- apy (interferes with creatinin- cut conversion) conversion LAR FILTERATION RATE	ine production) coids) EATININE LEVELS: onately more than creat disease. BUN : BUN : atic harmone) due to tu EREATININE: ion of creatine to creatine). are. s false increase in creat e ratio). atinine measurement). RIPTION GFR	inine) (e.g. obstructive racellular fluid). bular secretion of urea nine). inine with certain meth	e uropathy). I. hodologies ASSOCI	resulting in no	ormal ratio		
A. Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Severe liver disease Other causes of de Severe liver disease Acute tubular necr SIADH (syndrome c SIADH (syndrome	(e.g. ureter colostomy) ass (subnormal creatin tetracycline, glucocort D:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena 0:1) WITH DECREASED osis. d starvation. creased urea synthesis urea rather than creatin monemias (urea is virtu f inappropiate antidiur 0:1) WITH INCREASED (oy (accelerates conversible eleases muscle creatin who develop renal failut sis (acetoacetate cause creased BUN/creatinin- apy (interferes with creatinin- apy (interferes with creatinin- app (interferes with c	ine production) coids) EATININE LEVELS: onately more than creat disease. BUN : BUN : atic harmone) due to tu EREATININE: ion of creatine to creatine). are. s false increase in creat e ratio). atinine measurement). RIPTION GFR ney function	inine) (e.g. obstructive racellular fluid). bular secretion of urea nine). inine with certain meth (mL/min/1.73m2)	e uropathy). I. hodologies ASSOCI No	,resulting in no ATED FINDINGS proteinuria	ormal ratio		
 Virine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal azotemia Certain drugs (Prerenal azotemia Certain drugs (Postrenal azotemia Certain drugs (Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. PECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (rible) Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Cephalosporin ther STIMATED GLOMERL CKD STAGE 	(e.g. ureter colostomy) ass (subnormal creatin tetracycline, glucocort D:1) WITH ELEVATED CF (BUN rises disproporti superimposed on rena 0:1) WITH DECREASED osis. d starvation. creased urea synthesis urea rather than creati monemias (urea is virtu f inappropiate antidiur 0:1) WITH INCREASED (oy (accelerates converse eleases muscle creatin who develop renal failu sis (acetoacetate cause creased BUN/creatinin apy (interferes with creatinin LAR FILTERATION RATE Normal kic Kidney da	ine production) coids) EATININE LEVELS: onately more than creat disease. BUN : BUN : atic harmone) due to tu REATININE: ion of creatine to creatine). atin ine measurement). atinine measurement). RIPTION GFR ney function mage with	inine) (e.g. obstructive racellular fluid). bular secretion of urea nine). inine with certain meth	e uropathy). I. hodologies ASSOCI No Preser	,resulting in no ATED FINDINGS proteinuria_ nce of Protein ,	ormal ratio		
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NAME	: Mrs. MEGHA AGGARWAL		
AGE/ GENDER	: 39 YRS/FEMALE	PATIENT ID	: 1576453
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Test Name	Value	e Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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Test Name		Valu	ie	Unit	Biological Reference interval
			IRON PROF	ILE	
IRON: SERUM		65.9	9	μg/dL	37.0 - 145.0
by FERROZINE, SPEC					
UNSATURATED IRON SERUM	N BINDING CAPA	CITY (UIBC) 233	8.08	μg/dL	150.0 - 336.0
by FERROZINE, SPEC	TROPHOTOMETER	RY			
TOTAL IRON BINDIN	G CAPACITY (TIE	BC) 298	.98	μg/dL	230 - 430
:SERUM					
by SPECTROPHOTON %TRANSFERRIN SAT		M 22.0	04	%	15.0 - 50.0
by CALCULATED, SPE				10	
TRANSFERRIN: SERU		212	.28	mg/dL	200.0 - 350.0
by SPECTROPHOTOM INTERPRETATION:-	IETERY (FERENE)				
VARIAE	BLES	ANEMIA OF CHRONIC DIS	EASE IRON	I DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
CEDUNAL	DON	Name al ta Daduca al		Dealessed	Nerveral

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRINO	LOGY		
			TEAT TOTAL		
		FHYROID FUNCTION	IESI: IOTAL		
	E (T3): SERUM	0.892	ng/mL	0.35 - 1.93	
by CMIA (CHEMILUMIN THYROXINE (T4): SE	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOA	0.892 ssay) 6.86		0.35 - 1.93 4.87 - 12.60	
THYROXINE (T4): SE by CMIA (CHEMILUMIN THYROID STIMULAT by CMIA (CHEMILUMIN	E (T3): SERUM <i>iescent microparticle immunoa</i> . RUM	0.892 ssay) 6.86	ng/mL		
by CMIA (CHEMILUMIN THYROXINE (T4): SE by CMIA (CHEMILUMIN THYROID STIMULAT	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOA RUM IESCENT MICROPARTICLE IMMUNOA TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE	0.892 SSAY) 6.86 SSAY)	ng/mL µgm/dL	4.87 - 12.60	

overproduction(hyperthyroidism) of T4 and/or T3.

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





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Test Name			Value	Unit	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months 0.70) - 7.00

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
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	EVELS DURING PREGN	VANCY (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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IAME	: Mrs. MEGHA AGGARWAL			
GE/ GENDER	: 39 YRS/FEMALE		PATIENT ID	: 1576453
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408100024
EFERRED BY	:		REGISTRATION DATE	: 10/Aug/2024 10:21 AM
BARCODE NO.	: 01514821		COLLECTION DATE	: 10/Aug/2024 10:26AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Aug/2024 12:17PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANT	г	
Test Name		Value	Unit	Biological Reference interval
	v		TAMINS IYDROXY VITAMIN D3	
by CLIA (CHEMILUMII	ROXY VITAMIN D3): SERUM vescence immunoassay)	14.4 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u>				
DEFI	CIENT:	< 20	r	ig/mL
INSUF	CIENT: FICIENT:	< 20 21 - 29	r	g/mL g/mL
INSUF PREFFER INTOXI Vitamin D compour onversion of 7- dihy	FICIENT: ED RANGE: ICATION: Inds are derived from dietary er Idrocholecalciferol to Vitamin I	21 - 29 30 - 100 > 100 rgocalciferol (from 23 in the skin upo	r r plants, Vitamin D2), or cho n Ultraviolet exposure.	0





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Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist		
EGHA AGGARWAL				
FEMALE	PAT	FIENT ID	: 1576453	
I	REG	G. NO./LAB NO.	: 012408100024	
	REG	GISTRATION DATE	: 10/Aug/2024 10:21 AM	
21		LECTION DATE	: 10/Aug/2024 10:26AM	
AGNOSTIC LAB		PORTING DATE	: 10/Aug/2024 12:17PM	
, NICHOLSON ROAD, A		OKING DAIL	. 10/ Aug/ 2024 12.171 M	
Menolson Road,				
	Value	Unit	Biological Reference interval	
N B12			N P12	
N B I Z	1.Pregnancy	DECREASED VITAIVIII	NB12	
		pirin, Anti-convulsants	, Colchicine	
	3.Ethanol Ige		/	
		tive Harmones		
	5.Haemodia			
cessary for hematopo	6. Multiple N	· · · · · · · · · · · · · · · · · · ·		
e due to lack of IF secr diseases). ntly causes macrocyti on, and affective beha nacrocytic anemia.	retion by gastric muco ic anemia, glossitis, p avioral changes. Thes	osa (eg, gastrectomy, g eripheral neuropathy, e manifestations may o	weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	
	liseases). htly causes macrocyti n, and affective beha acrocytic anemia. homocysteine levels s to intrinsic factor (l tion of vitamin B12 d	liseases). htly causes macrocytic anemia, glossitis, po n, and affective behavioral changes. These acrocytic anemia. homocysteine levels are also elevated in v s to intrinsic factor (IF) is recommended to tion of vitamin B12 does not rule out tissue	ntly causes macrocytic anemia, glossitis, peripheral neuropathy, n, and affective behavioral changes. These manifestations may	

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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	Dr. Vinay Cho MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. MEGHA AGGARWAL : 39 YRS/FEMALE : SURJESH : : 01514821 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REGIST COLLE REPOR	NT ID O./LAB NO. FRATION DATE CTION DATE RTING DATE	: 1576453 : 012408100024 : 10/Aug/2024 10:21 AM : 10/Aug/2024 10:26AM : 10/Aug/2024 10:58AM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINA		CLINICAL PATH		ΓΙΟΝ
QUANTITY RECIEVED by DIP STICK/REFLEC COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY) TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 AMBER YELLOW CLEAR <=1.005	ml	PALE YELLOW CLEAR 1.002 - 1.030
PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC pH	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC Negative Negative <=5.0 Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE by DIP STICK/REFLEC UROBILINOGEN	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY	Negative Normal Negative	EU/dL	NEGATIVE (-ve) 0.2 - 1.0 NEGATIVE (-ve)
by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Negative NEGATIVE (-ve)		NEGATIVE (-ve) NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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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

NAME	: Mrs. MEGHA AGGARWAL				
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REFERRED BY	FERRED BY		ATION DATE		
BARCODE NO.	:01514821	COLLECTION DATE REPORTING DATE			
CLIENT CODE.	: KOS DIAGNOSTIC LAB				
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	Value NEGATIVE (-ve)	Unit /HPF	Biological Reference interval 0 - 3	
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS				Ū.	
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELLS by MICROSCOPY ON (CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve) 1-3	/HPF /HPF	0 - 3 0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
EPITHELIAL CELLS	2-4	/HPF
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CRYSTALS	NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CASTS	NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
BACTERIA	NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
OTHERS	NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT	

TR by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report





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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT