



<b>Dr. Vinay Chop</b> MD (Pathology & M Chairman & Consul <sup>1</sup>	icrobiology)		(Pathology)
NAME: Mr. S.K JAINAGE/ GENDER: 73 YRS/MALECOLLECTED BY:REFERRED BY:BARCODE NO.: 01519212CLIENT CODE.: KOS DIAGNOSTIC LABCLIENT ADDRESS: 6349/1, NICHOLSON ROAD, AM		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1474870 : 012410200001 : 20/Oct/2024 07:02 AM : 20/Oct/2024 07:03AM : 20/Oct/2024 08:54AM
Test Name	Value	Unit	Biological Reference interval
		LLNESS PANEL: 1.0 DOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	14.7	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	4.57	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.57	IVIIIIOIIS/C	11111 3.50 - 5.00
PACKED CELL VOLUME (PCV)	45.2	%	40.0 - 54.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)	99.1	fL	80.0 - 100.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	32.1	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)	32.4	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER RED CELL DISTRIBUTION WIDTH (RDW-CV)	14.5	%	11.00 - 16.00
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	14.5	70	11.00 - 10.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	53.7	fL	35.0 - 56.0
MENTZERS INDEX	21.68	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED			IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	31.38	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC)	8420	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	NII		0.00 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	68	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			



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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	: Mr. S.K JAIN				
AGE/ GENDER	: 73 YRS/MALE	PAT	FIENT ID	: 1474870	
COLLECTED BY	:	REC	G. NO./LAB NO.	: 012410200001	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
LYMPHOCYTES		26	%	20 - 40	
by FLOW CYTOMETRY E EOSINOPHILS	BY SF CUBE & MICROSCOPY	1	%	1 - 6	
	Y SF CUBE & MICROSCOPY	r	70	1-0	
MONOCYTES		5	%	2 - 12	
by FLOW CYTOMETRY E BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1	
	BY SF CUBE & MICROSCOPY	Ū	70	U I	
ABSOLUTE LEUKOCYTE	ES (WBC) COUNT				
ABSOLUTE NEUTROPH		5726	/cmm	2000 - 7500	
ABSOLUTE LYMPHOCY	BY SF CUBE & MICROSCOPY TF COUNT	2189	/cmm	800 - 4900	
	BY SF CUBE & MICROSCOPY		7 0.1.11		
ABSOLUTE EOSINOPHI	L COUNT BY SF CUBE & MICROSCOPY	84	/cmm	40 - 440	
ABSOLUTE MONOCYTE		421	/cmm	80 - 880	
	BY SF CUBE & MICROSCOPY				
	COUNT BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110	
	R PLATELET PREDICTIVE MARKE	<u>RS.</u>			
PLATELET COUNT (PLT)		150000	/cmm	150000 - 450000	
PLATELETCRIT (PCT)	CUSING, ELECTRICAL IMPEDENCE	0.18	%	0.10 - 0.36	
by HYDRO DYNAMIC FOO	CUSING, ELECTRICAL IMPEDENCE				
MEAN PLATELET VOLU	IME (MPV) CUSING. ELECTRICAL IMPEDENCE	12	fL	6.50 - 12.0	
PLATELET LARGE CELL	COUNT (P-LCC)	57000	/cmm	30000 - 90000	
by HYDRO DYNAMIC FOO PLATELET LARGE CELL	CUSING, ELECTRICAL IMPEDENCE	37.7	%	11.0 - 45.0	
	CUSING, ELECTRICAL IMPEDENCE	51.1	70	11.0 - 43.0	
PLATELET DISTRIBUTIO	· · · ·	16.3	%	15.0 - 17.0	
	CUSING, ELECTRICAL IMPEDENCE				



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	MD (	Vinay Chopra (Pathology & Microbiolo rman & Consultant Path		Dr. Yugam MD ( O & Consultant	(Pathology)	
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CLIENT ADDRESS	: 6349/1, NICHOLS	SON ROAD, AMBALA CA	ANTT			
Test Name		Value	e	Unit	Biological Reference interva	al
		ERYTHROCYTE	SEDIMENTATI	ON RATE (ESF	<b>(</b> )	
INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythy <b>CONDITION WITH LO</b> A low ESR can be see (polycythaemia), sigras 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	GATION BY CAPILLARY ic test because an ele does not tell the hea cted by other conditi be used to monitor d ematosus <b>W ESR</b> n with conditions than ificantly high white f e cell anaemia) also e protein (C-RP) are t es not change as rapic by as many other fac ed, it is typically a res ve a higher ESR, and ran, methyldopa, ora	PHOTOMETRY evated result often indi- lith practitioner exactly ons besides inflammati lisease activity and resp at inhibit the normal sec blood cell count (leucod lower the ESR. both markers of inflamm dly as does CRP, either a stors as is ESR, making it sult of two types of pro menstruation and preg al contraceptives, penic	where the inflan on. For this rease ponse to therapy dimentation of re cytosis), and son nation. at the start of inf t <b>a better marker</b> teins, globulins c nancy can cause	nmation is in the on, the ESR is typ in both of the ab ed blood cells, su he protein abnor lammation or as of inflammation. r fibrinogen. emporary elevat	on associated with infection, cancer and body or what is causing it. ically used in conjunction with other test bove diseases as well as some others, suc ich as a high red blood cell count malities. Some changes in red cell shape it resolves.	t such h as (such





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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		Value	Unit	Biological Reference interval
Test Name		Talao		Ū.
Test Name	CLIN		//BIOCHEMISTR	
Test Name	CLIN			

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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. S.K JAIN **AGE/ GENDER** : 73 YRS/MALE **PATIENT ID** :1474870 **COLLECTED BY** :012410200001 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 20/Oct/2024 07:02 AM **BARCODE NO.** :01519212 **COLLECTION DATE** : 20/Oct/2024 07:03AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 20/Oct/2024 09:34AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM 132.63 mg/dL OPTIMAL: < 200.0 by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 TRIGLYCERIDES: SERUM 115.96 mg/dL OPTIMAL: < 150.0 by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 HDL CHOLESTEROL (DIRECT): SERUM 53.1 mg/dL LOW HDL: < 30.0 by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -60.0 HIGH HDL: > OR = 60.0 LDL CHOLESTEROL: SERUM 56.34 mg/dL OPTIMAL: < 100.0 by CALCULATED, SPECTROPHOTOMETRY 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 79.53 mg/dL OPTIMAL: < 130.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 VLDL CHOLESTEROL: SERUM 23.19 mg/dL 0.00 - 45.00 by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM 381.22 mg/dL 350.00 - 700.00 by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM 2.5 RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LDL/HDL RATIO: SERUM 1.06 RATIO LOW RISK: 0.50 - 3.0 by CALCULATED, SPECTROPHOTOMETRY MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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Page 5 of 13





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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.18 <sup>L</sup>	RATIO	3.00 - 5.00

## **INTERPRETATION:**

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

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

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

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





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BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	1.03	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.3	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.73	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	20.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	21.7	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.95	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	103.8	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	31.33	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.12	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.32	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by Calculated, spectrophotometry	2.8	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.54	RATIO	1.00 - 2.00

**INTERPRETATION** 

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

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

## **INCREASED:**

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





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.	3 (Slightly Increa	sed)

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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## 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



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FEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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







	MD (Pat	n <b>ay Chopra</b> thology & Microbiology) an & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. S.K JAIN				
AGE/ GENDER	: 73 YRS/MALE	PA	TIENT ID	: 1474870	
<b>COLLECTED BY</b>	:	RE	G. NO./LAB NO.	: 012410200001	
<b>REFERRED BY</b>	:	RE	GISTRATION DATE	: 20/Oct/2024 07:02 AM	
BARCODE NO.	:01519212	CO	LLECTION DATE	: 20/Oct/2024 07:03AM	
CLIENT CODE.	: KOS DIAGNOSTIC LA	AB <b>RE</b>	PORTING DATE	: 20/Oct/2024 09:14AM	
CLIENT ADDRESS		N ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PA	THOLOGY		
	U	IRINE ROUTINE & MICRO	SCOPIC EXAMINAT	ION	
PHYSICAL EXAMINA					
QUANTITY RECIEVED		10	ml		
	D CTANCE SPECTROPHOTOM		110		
COLOUR		AMBER YELLC	W	PALE YELLOW	
-	CTANCE SPECTROPHOTOM				
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPH		CLEAR		CLEAR	
SPECIFIC GRAVITY	TANCE SPECIFICITION	1.01		1.002 - 1.030	
	CTANCE SPECTROPHOTOM			1.002 1.000	
CHEMICAL EXAMIN	ATION				
REACTION		ACIDIC			
	CTANCE SPECTROPHOTOM				
PROTEIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR		Negative		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOM				
рН		6		5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
NITRITE		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		ETRY.			
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0	
KETONE BODIES	CTANCE SPECTROPHOTOM	Negative		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOM				
BLOOD		Negative		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOM				
ASCORBIC ACID	TANCE SPECTROPHOTOM	NEGATIVE (-ve	=)	NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY					

MICROSCOPIC EXAMINATION

57 

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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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AGE/ GENDER	: 73 YRS/MALE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE		: 1474870 <b>: 012410200001</b> : 20/Oct/2024 07:02 AM			
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BARCODE NO.	:01519212			: 20/Oct/2024 07:03AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 20/Oct/2024 09:14AM			
CLIENT ADDRESS	DRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT						
Test Name		Value	Unit	<b>Biological Reference interval</b>			
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)	/HPF	0 - 3			
	CENTRIFUGED URINARY SEDIMENT						
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5			
PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS		1-3 0-2	/HPF /HPF				
PUS CELLS by MICROSCOPY ON CEPITHELIAL CELLS by MICROSCOPY ON CRYSTALS	CENTRIFUGED URINARY SEDIMENT			0 - 5			

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT	

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





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