



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mrs. SANTOSH				
AGE/ GENDER	: 34 YRS/FEMALE		PATIENT ID	: 1800233	
COLLECTED BY	:		REG. NO./LAB NO.	:012503210023	
REFERRED BY	:		REGISTRATION DATE	: 21/Mar/2025 10:09 AM	
BARCODE NO.	: 01527488		COLLECTION DATE	:21/Mar/2025 10:11AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Mar/2025 10:39AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI			
Test Name		Value	Unit	Biological Refer	ence interval
			LLNESS PANEL: 1.5 OOD COUNT (CBC)	5	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H	B)	12.1	gm/dL	12.0 - 16.0	
RED BLOOD CELL (RBC) COUNT	3.93	Millions/	′cmm 3.50 - 5.00	
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	36.1 ^L	%	37.0 - 50.0	
MEAN CORPUSCUL	AR VOLUME (MCV) utomated hematology analyzer	91.9	fL	80.0 - 100.0	
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	30.8	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	33.6	g/dL	32.0 - 36.0	
	UTION WIDTH (RDW-CV) utomated hematology analyzer	12.7	%	11.00 - 16.00	
	UTION WIDTH (RDW-SD) utomated hematology analyzer	43.8	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		23.38	RATIO	BETA THALASS 13.0 IRON DEFICIEN >13.0	
GREEN & KING INE by CALCULATED	DEX	29.71	RATIO	BETA THALASS 65.0 IRON DEFICIEN 65.0	EMIA TRAIT:<=
WHITE BLOOD CE					
	Y BY SF CUBE & MICROSCOPY	6480	/cmm	4000 - 11000	
by AUTOMATED 6 PAF	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
	SLOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %	



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

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AGE/ GENDER	: 34 YRS/FEMALE	PATIENT ID	: 1800233
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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by sf cube & microscopy	48 ^L	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	47 ^H	%	20 - 40
EOSINOPHILS by flow cytometry by SF cube & microscopy	1	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	3110	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by SF cube & microscopy	3046	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	65	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	259	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	264000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.25	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	59000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	22.4	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.2	%	15.0 - 17.0



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NAME	: Mrs. SANTOSH				
AGE/ GENDER	: 34 YRS/FEMALE	PATIE	ENT ID	: 1800233	
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BARCODE NO.	:01527488		ECTION DATE	: 21/Mar/2025 10:11AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 21/Mar/2025 01:49PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,		KING DAIL	. 21/ Mai/ 2023 01.401 M	
CLIENT ADDRESS	. 0349/ 1, MCHOLSON ROAD,	AWDALA CAN'I I			
Test Name		Value	Unit	Biological Refer	ence interval
WHOLE BLOOD	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	4.1	%	4.0 - 6.4	
ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:		70.97	mg/dL	60.00 - 140.00	
	AS PER AMERICAN	N DIABETES ASSOCIATION (
	REFERENCE GROUP		GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		
Non dia	abetic Adults >= 18 years	1	<5.7		
A	At Risk (Prediabetes) 5.7 – 6.4		5.7 – 6.4		
D	iagnosing Diabetes		>= 6.5		
		Coole of The	Age > 19 Years	.70	
There is	ic goals for alveemic control	Goals of The Actions Sugge		< 7.0 >8.0	
Therapeutic goals for glycemic control		ACTIONS SUGGE		>0.0	
Inerapeut			Age < 19 Years		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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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	٨	Dr. Vinay Cho 1D (Pathology & Chairman & Cons		Dr. Yugan MD CEO & Consultant	(Pathology)
IAME	: Mrs. SANTOS	5H			
GE/ GENDER	: 34 YRS/FEMA	LE	I	PATIENT ID	: 1800233
OLLECTED BY	:		I	REG. NO./LAB NO.	: 012503210023
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ARCODE NO.	:01527488		(COLLECTION DATE	: 21/Mar/2025 10:11AM
LIENT CODE.	: KOS DIAGNOS	STIC LAB	I	REPORTING DATE	: 21/Mar/2025 11:02AM
LIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, A	AMBALA CANTT		
Fest Name			Value	Unit	Biological Reference interval
mmune disease, but 2. An ESR can be affe as C-reactive protein	GATION BY CAPILL ic test because at does not tell the cted by other cor	RATE (ESR) ary photometre n elevated result health practition nditions besides	3 r often indicates th her exactly where inflammation. For	the inflammation is in the this reason, the ESR is ty	hr 0 - 20 ion associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such
by RED CELL AGGREG NTERPRETATION: . ESR is a non-specif mmune disease, but 2. An ESR can be affe is C-reactive protein 3. This test may also ystemic lupus erythe CONDITION WITH LOW A low ESR can be see	EATION BY CAPILL ic test because al does not tell the cted by other cor be used to monit ematosus N ESR n with conditions ificantly high wh	RATE (ESR) ary photometre n elevated result health practition iditions besides or disease activi that inhibit the ite blood cell co	3 often indicates there exactly where inflammation. For ty and response to normal sediment. unt (leucocytosis)	mm/1st the presence of inflammat the inflammation is in the this reason, the ESR is ty therapy in both of the a ation of red blood cells, s	hr 0 - 20





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 21/Mar/2025 11:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY		RY
		GLUCOSE FAST	TING (F)	

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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. 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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		Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD (CEO & Consultant F	Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SANTOSH : 34 YRS/FEMALE : : : 01527488 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAI	REG. REG. COLI REP.	IENT ID NO./LAB NO. ISTRATION DATE LECTION DATE DRTING DATE	: 1800233 : 012503210023 : 21/Mar/2025 10:09 AM : 21/Mar/2025 10:11AM : 21/Mar/2025 12:15PM
Test Name		Value	Unit	Biological Reference interval
CHOLESTEROL TO		LIPID PROFIL 170.1	E : BASIC mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O>	(IDASE PAP			BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	108.34	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
by SELECTIVE INHIBIT		50.28	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		98.15	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES by CALCULATED, SPE		119.82	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(21.67	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	RUM	448.54	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	3.38	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
LDL/HDL RATIO: S by calculated, spe		1.95	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	
TRIGLYCERIDES/H by CALCULATED, SPE		2.15 ^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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REPORTING DATE

Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

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: 21/Mar/2025 10:09 AM

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: KOS DIAGNOSTIC LAB

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Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.36	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.22	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	28.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	31.2	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.91	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	64.02	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	45.4	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.33	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.78	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.55	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.48	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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)
-





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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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NAME : N	Ars. SANTOSH			
AGE/ GENDER : 3	4 YRS/FEMALE	PA	TIENT ID	: 1800233
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Test Name		Value	Unit	Biological Reference interva
	KIDNE	Y FUNCTION	TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE	DEHYDROGENASE (GLDH)	15	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROF	PHOTOMETERY	0.6	mg/dL	0.40 - 1.20
BLOOD UREA NITROGE		7.01	mg/dL	7.0 - 25.0
•	EN (BUN)/CREATININE	11.68	RATIO	10.0 - 20.0
UREA/CREATININE RA	ATIO: SERUM	25	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PE		2.5	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPECTRO		9.8	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUN by PHOSPHOMOLYBDATE,	M	3.29	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE ELI	ECTRODE)	138.4	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELI		3.86	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELL		103.8	mmol/L	90.0 - 110.0
ESTIMATED GLOMER	ULAR FILTERATION RATE			
ESTIMATED GLOMERU (eGFR): SERUM by CALCULATED INTERPRETATION:	LAR FILTERATION RATE	120.7		

Dr. Vinay Chopra

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE: 1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased

glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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	MD (Patho	y Chopra Ilogy & Microbiology) & Consultant Pathologis			Microbiology) MD (Pathology)		
IAME	: Mrs. SANTOSH						
GE/ GENDER	: 34 YRS/FEMALE		PATIENT ID	: 1800233	3		
OLLECTED BY	:		REG. NO./LAB NO.	: 012503	3210023		
REFERRED BY	:		REGISTRATION D	ATE : 21/Mar/	/2025 10:09 AM		
BARCODE NO.	:01527488		COLLECTION DAT		/2025 10:11AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATI		/2025 12:53PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTI					
Test Name		Value	Un	it 1	Biological Reference	interval	
2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr	a (BUN rises disproportional superimposed on renal dis 10:1) WITH DECREASED BUN osis.	sease.	ine) (e.g. obstructive	e uropathy).			
 Prerenal azotemia PCREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. PCREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther CENTIMATED GLOMERL CKD STAGE 	a (BUN rises disproportional superimposed on renal dis superimposed on renal dis (0:1) WITH DECREASED BUN osis. and starvation. e. creased urea synthesis. furea rather than creatinin monemias (urea is virtuall of inappropiate antidiuretic (0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine) who develop renal failure. : sis (acetoacetate causes fa creased BUN/creatinine ra rapy (interferes with creatii JLAR FILTERATION RATE: DESCRIP	ately more than creatin sease. N : v absent in blood). c harmone) due to tubu ATININE: n of creatine to creatini b. alse increase in creatini b. filon GFR (in y function GFR (in	cellular fluid). Jar secretion of urea ne). ine with certain met <u>mL/min/1.73m2)</u> >90	hodologies,resultin	NDINGS uria	dehydrati	
Prerenal azotemia DECREASED RATIO (< Acute tubular necr Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	a (BUN rises disproportional superimposed on renal dis superimposed on renal dis (0:1) WITH DECREASED BUN osis. and starvation. e. creased urea synthesis. furea rather than creatinin monemias (urea is virtuall of inappropiate antidiuretic (0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine) who develop renal failure. : sis (acetoacetate causes fa creased BUN/creatinine ra rapy (interferes with creatii JLAR FILTERATION RATE: DESCRIPT Normal kidney	ately more than creatin sease. N : v absent in blood). c harmone) due to tubu ATININE: n of creatine to creatini b. alse increase in creatini b. filon GFR (1 y function GFR (1)	cellular fluid). Jar secretion of urea ne). ine with certain met	hodologies,resultin ASSOCIATED FIN No proteinu Presence of Pro	NDINGS uria otein ,	dehydrati	
Prerenal azotemia DECREASED RATIO (< Acute tubular necr Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1	a (BUN rises disproportional superimposed on renal dis superimposed on renal dis (0:1) WITH DECREASED BUN osis. and starvation. e. creased urea synthesis. furea rather than creatinin monemias (urea is virtuall of inappropiate antidiuretic (0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine) who develop renal failure. : sis (acetoacetate causes fa creased BUN/creatinine ra rapy (interferes with creatii JLAR FILTERATION RATE: DESCRIP	ately more than creatin sease. N : v absent in blood). c harmone) due to tubu ATININE: n of creatine to creatini b. alse increase in creatini itio). nine measurement). TION GFR (1 age with igh GFR	cellular fluid). Jar secretion of urea ne). ine with certain met <u>mL/min/1.73m2)</u> >90	hodologies,resultin	NDINGS uria otein ,	dehydrati	
Prerenal azotemia DECREASED RATIO (< Acute tubular necr Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of SIADH (syndrome of SPregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r SMuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU G1 G2 G3a G3b G3b </u>	a (BUN rises disproportional superimposed on renal dis superimposed on renal dis superimposed on renal dis osis. and starvation. e. creased urea synthesis. furea rather than creatinin monemias (urea is virtuall of inappropiate antidiuretic softi wITH INCREASED CREA py (accelerates conversion eleases muscle creatinine) who develop renal failure. : sis (acetoacetate causes fa creased BUN/creatinine ra apy (interferes with creatin <u>JLAR FILTERATION RATE:</u> <u>DESCRIPT</u> <u>Normal kidney</u> <u>Kidney dama</u> normal or h <u>Mild decreas</u> <u>Moderate decrea</u>	ately more than creating sease. N : ate diffuses out of extra y absent in blood). x harmone) due to tubu ATININE: n of creatine to creatini alse increase in creatini h. alse increase in GFR igh GFR ise in GFR ease in GFR	cellular fluid). Jar secretion of urea ne). ine with certain met <u>mL/min/1.73m2)</u> >90 >90 <u>60 -89</u> 30-59	hodologies,resultin ASSOCIATED FIN No proteinu Presence of Pro	NDINGS uria otein ,	dehydrati	
 Prerenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERU G1 G2 	a (BUN rises disproportional superimposed on renal dis superimposed on renal dis superimposed on renal dis osis. and starvation. e. creased urea synthesis. furea rather than creatinin monemias (urea is virtuall of inappropiate antidiuretic softi wiTH INCREASED CREA py (accelerates conversion eleases muscle creatinine) who develop renal failure. : sis (acetoacetate causes fa creased BUN/creatinine ra apy (interferes with creatii <u>JLAR FILTERATION RATE:</u> <u>DESCRIPI</u> <u>Normal kidney</u> <u>Kidney dama</u> <u>normal or h</u> <u>Mild decreas</u>	ately more than creating sease. N : ate diffuses out of extra y absent in blood). c harmone) due to tubu ATININE: n of creatine to creatini n. alse increase in creatini n. alse increase in creatini n. alse increase in creatini nine measurement). TION GFR (note: the second	cellular fluid). Jar secretion of ureanne). ine with certain met <u>mL/min/1.73m2)</u> >90 >90	hodologies,resultin ASSOCIATED FIN No proteinu Presence of Pro	NDINGS uria otein ,	dehydrati	





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	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)
NAME	: Mrs. SANTOSH		
AGE/ GENDER	: 34 YRS/FEMALE	PATIENT ID	: 1800233
COLLECTED BY	:	REG. NO./LAB NO.	: 012503210023
REFERRED BY	:	REGISTRATION DATE	: 21/Mar/2025 10:09 AM
BARCODE NO.	: 01527488	COLLECTION DATE	: 21/Mar/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Mar/2025 12:53PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	JTT	
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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MD (Pathology)

:1800233

:012503210023

: 21/Mar/2025 10:09 AM

: 21/Mar/2025 10:11AM

: 21/Mar/2025 12:14PM

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant Pathologist : Mrs. SANTOSH AGE/ GENDER : 34 YRS/FEMALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE BARCODE NO.** :01527488 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Value Unit **Biological Reference interval** Test Name **IRON PROFILE IRON: SERUM** 105.9 37.0 - 145.0 µg/dL by FERROZINE, SPECTROPHOTOMETRY µg/dL UNSATURATED IRON BINDING CAPACITY (UIBC) 176.5150.0 - 336.0 :SERUM by FERROZINE, SPECTROPHOTOMETERY TOTAL IRON BINDING CAPACITY (TIBC) 282.4 230 - 430 µg/dL :SERUM by SPECTROPHOTOMETERY %TRANSFERRIN SATURATION: SERUM 37.5 % 15.0 - 50.0 by CALCULATED, SPECTROPHOTOMETERY (FERENE) TRANSFERRIN: SERUM 200.5 mg/dL 200.0 - 350.0 by SPECTROPHOTOMETERY (FERENE) **INTERPRETATION:-**

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

2. 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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NAME





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NAME	: Mrs. SANTOSH				
AGE/ GENDER	: 34 YRS/FEMALE	PA	FIENT ID	: 1800233	
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012503210023	
REFERRED BY	:	RE	GISTRATION DATE	: 21/Mar/2025 10:09 AM	
BARCODE NO.	: 01527488	CO	LLECTION DATE	: 21/Mar/2025 10:11AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 21/Mar/2025 01:29PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT			
Test Name		Value	Unit	Biological Refere	ence interval
TRIIODOTHYRONI		HYROID FUNCTIO	DN TEST: TOTAL ng/mL	0.35 - 1.93	
	IESCENT MICROPARTICLE IMMUNOA		iig/ iiiL	0.55 - 1.55	
THYROXINE (T4): S	SERUM iescent microparticle immunoa	4.85^L	µgm/dL	4.87 - 12.60	
THYROID STIMULA	ATING HORMONE (TSH): SER	UM 1.868	µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				
TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak leve measured serum TSH concentrations. T lure at any level of regulation of the h rroidism) of T4 and/or T3.	SH stimulates the product	tion and secretion of the m	etabolically active hormones, thyro:	xine (T4)and
	T3		T4	TSH	
CLINICAL CONDITION					
Primary Hypothyroidis	m: Reduced			ncreased (Significantly)	
	m: Reduced dism: Normal or Lov	v Normal Norm	nal or Low Normal	ncreased (Significantly) High Reduced (at times undetectable)	

LIMITATIONS:-

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

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	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	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. SANTOSH		
AGE/ GENDER	: 34 YRS/FEMALE	PATIENT ID	: 1800233
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	MMENDATIONS OF TSH L	VELS 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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	MD (F	/inay Chopra Pathology & Microbiology) man & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SANTOSH			
AGE/ GENDER	: 34 YRS/FEMALE	PA	TIENT ID	: 1800233
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 012503210023
REFERRED BY	:	RI	EGISTRATION DATE	: 21/Mar/2025 10:09 AM
BARCODE NO.	:01527488	CO	DLLECTION DATE	: 21/Mar/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC	LAB RI	EPORTING DATE	: 21/Mar/2025 11:58AM
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITA	MINS	
		VITAMIN D/25 HYD	ROXY VITAMIN D	3
	DROXY VITAMIN D3		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT	< 20	n	TOXICITY: > 100.0
DEFI	CIENT: FICIENT:	< 20 21 - 29		TOXICITY: > 100.0
INSUF PREFFER INTOX	FICIENT: ED RANGE: ICATION:	21 - 29 30 - 100 > 100		TOXICITY: > 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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.





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IAME	: Mrs. SANTOSH				
GE/ GENDER	: 34 YRS/FEMALE		PATIENT ID	: 1800233	
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ARCODE NO.	: 01527488		COLLECTION DATE	: 21/Mar/2025 10:11AM	
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Mar/2025 12:13PM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI			
Fest Name		Value	Unit	Biological Reference interval	
		VITAMIN B	12/COBALAMIN		
/ITAMIN B12/COE	BALAMIN: SERUM	1014 ^H	pg/mL	190.0 - 890.0	
	IESCENT MICROPARTICLE IMMUNOA	SSAY)			
<u>NTERPRETATION:-</u>	SED VITAMIN B12		DECREASED VITAMIN	I B12	
1.Ingestion of Vitan		1.Prear	1.Pregnancy		
2.Ingestion of Estro			2.DRUGS:Aspirin, Anti-convulsants, Colchicine		
3.Ingestion of Vitan			nol Igestion		
4.Hepatocellular in			raceptive Harmones		
5.Myeloproliferativ	e disorder		nodialysis		
6.Uremia	amin) is necessary for hematopo		iple Myeloma		
	tained only from animal proteins	s and requires in	trinsic factor (IF) for absorp	tion. and returning it to the liver; very little is	





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT		
	UDINE DO	UTINE & MICROS		
DIVCICAL EVANDA		UTINE & MICKUS	CUPIC EXAMINA	ATION
PHYSICAL EXAMIN		10	ml	
QUANTITY RECIEVE	LD TANCE SPECTROPHOTOMETRY	10	ml	
	TANCE SPECTROPHOTOMETRY	AMBER YELLO	W	PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
-	TANCE SPECTROPHOTOMETRY	. 1.005		1.002 - 1.030
SPECIFIC GRAVITY by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	<=1.005		1.002 - 1.030
CHEMICAL EXAMIN	NATION			
REACTION	TANCE SPECTROPHOTOMETRY	ALKALINE		
PROTEIN	TANGE SPECIFICITONETRY	Trace		NEGATIVE (-ve)
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	Nogotivo		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	7.5		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT NITRITE	TANCE SPECTROPHOTOMETRY	Positivo		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Positive		
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	TRACE		NEGATIVE (-ve)
by DIP STICK/REFLECT ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve		NEGATIVE (-ve)
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	MEGATIVE (-Ve		NEGATIVE (-VE)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	4-5	/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. SANTOSH				
AGE/ GENDER	: 34 YRS/FEMALE		PATIENT ID	: 1800233	
COLLECTED BY	:		REG. NO./LAB NO.	: 012503210023 : 21/Mar/2025 10:09 AM	
REFERRED BY	:		REGISTRATION DATE		
BARCODE NO.	: 01527488		COLLECTION DATE	: 21/Mar/2025 10:11AM : 21/Mar/2025 11:06AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		6-8	/HPF	0 - 5	

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	6-8	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/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	AMORPHOUS (+)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***



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