



SWASTH	REGIS COLLI REPO LA CANTT Value IYA WELLNE LETE BLOOD (NO./LAB NO. : 0 TRATION DATE : 0 ECTION DATE : 0 RTING DATE : 0 Unit Unit	780472 012503060017 06/Mar/2025 09:52 AM 06/Mar/2025 10:09AM 06/Mar/2025 10:39AM Biological Reference interval
H 47 AGNOSTIC LAB , NICHOLSON ROAD, AMBA SWASTH COMPI	REG. N REGIS COLLI REPO LA CANTT Value IYA WELLNE LETE BLOOD (NO./LAB NO. : 0 TRATION DATE : 0 ECTION DATE : 0 RTING DATE : 0 Unit Unit	012503060017 06/Mar/2025 09:52 AM 06/Mar/2025 10:09AM 06/Mar/2025 10:39AM
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COMPI	LETE BLOOD (
COMPI	LETE BLOOD (
	11 EL		
	11.5 ^L	gm/dL	12.0 - 16.0
NT	4.27	Millions/cmm	n 3.50 - 5.00
LECTRICAL IMPEDENCE			
) HEMATOLOGY ANALYZER	37	%	37.0 - 50.0
IE (MCV)	86.5	fL	80.0 - 100.0
<i>hematology analyzer</i> OGLOBIN (MCH)	26.7 ^L	pg	27.0 - 34.0
HEMATOLOGY ANALYZER GLOBIN CONC. (MCHC)			32.0 - 36.0
HEMATOLOGY ANALYZER	30.8 ^L	g/dL	
DTH (RDW-CV) HEMATOLOGY ANALYZER	16	%	11.00 - 16.00
DTH (RDW-SD)	52.1	fL	35.0 - 56.0
HEMATOLOGY ANALYZER	20.26	RATIO	BETA THALASSEMIA TRAIT: <
			13.0
			IRON DEFICIENCY ANEMIA: >13.0
	32.13	RATIO	BETA THALASSEMIA TRAIT:<
			65.0 IRON DEFICIENCY ANEMIA: >
			65.0
<u>S)</u>			
ΓLC) e & microscopy	6210	/cmm	4000 - 11000
LLS (nRBCS)	NIL		0.00 - 20.00
LLS (nRBCS) %	NIL	%	< 10 %
	LC) E&MICROSCOPY LS (nRBCS) DGY ANALYZER	D LC) 6210 & MICROSCOPY LS (nRBCS) NIL OGY ANALYZER LS (nRBCS) % NIL	5) LC) 6210 /cmm & MICROSCOPY LS (nRBCS) NIL OGY ANALYZER LS (nRBCS) % NIL %





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

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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)		(Pathology)
NAME	: Mrs. RUBY KOCHAR			
AGE/ GENDER	: 63 YRS/FEMALE		PATIENT ID	: 1780472
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503060017
REFERRED BY	:		REGISTRATION DATE	: 06/Mar/2025 09:52 AM
BARCODE NO.	: 01526547		COLLECTION DATE	:06/Mar/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:06/Mar/2025 10:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	49 ^L	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	41 ^H	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES		8	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
IMMATURE GRANU		0	%	0 - 5.0
	CYTES (WBC) COUNT			
ABSOLUTE NEUTR	OPHIL COUNT y by sf cube & microscopy	3043	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETRY	OCYTE COUNT y by sf cube & microscopy	2546	/cmm	800 - 4900
ABSOLUTE EOSING	OPHIL COUNT y by sf cube & microscopy	124	/cmm	40 - 440
ABSOLUTE MONOC	CYTE COUNT y by sf cube & microscopy	497	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
ABSOLUTE IMMAT	URE GRANULOCYTE COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
<u>PLATELETS AND (</u>	OTHER PLATELET PREDICTIVE	<u>MARKERS.</u>		
PLATELET COUNT by hydro dynamic f	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	124000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PC by HYDRO DYNAMIC F	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 - 0.36
MEAN PLATELET V by hydro dynamic f	OLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	17 ^H	fL	6.50 - 12.0
	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	92000 ^H	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	74.1 ^H	%	11.0 - 45.0

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Test Name		Value		Unit	Biological Reference interval
	BUTION WIDTH (PDW)	15.6		%	15.0 - 17.0
ADVICE	COOSING, LECTRICAL INIT EDENCE	KINDLY	Y CORRELAT	E CLINICALI	.Y

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	GLICUS	SYLATED HAEMU	UGLOBIN (HBA1)	C)
WHOLE BLOOD by HPLC (HIGH PERFOR	GLICOS EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) .GE PLASMA GLUCOSE	5.6 114.02	OGLOBIN (HBA1) % mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c):	5.6	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D	5.6 114.02	% mg/dL N (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP	5.6 114.02	% mg/dL N (ADA): YLATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	5.6 114.02	% mg/dL N (ADA): SYLATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.6 114.02	% mg/dL N (ADA): SYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	5.6 114.02	% mg/dL V (ADA): VIATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.6 114.02 IABETES ASSOCIATION GLYCOS	% mg/dL V (ADA): VIATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	5.6 114.02 ABETES ASSOCIATION GLYCOS	% mg/dL v(ADA): v(ADA): syLATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years herapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in % < 7.0
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.6 114.02 IABETES ASSOCIATION GLYCOS	% mg/dL v(ADA): v(ADA): syLATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years herapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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 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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Cest Name CRYTHROCYTE SEDIMENTATION <i>by RED CELL AGGREGATION BY CAPIL</i> VTERPRETATION: . ESR is a non-specific test because nmune disease, but does not tell th . An ESR can be affected by other co s C-reactive protein . This test may also be used to mon ystemic lupus erythematosus ONDITION WITH LOW ESR . Iow ESR can be seen with condition polycythaemia), significantly high w	MALE NOSTIC LAB ICHOLSON ROAD, AM ERYTHRO N RATE (ESR) ILLARY PHOTOMETRY e an elevated result o he health practitione	REG REG COL REP IBALA CANTT IBALA CANTT Value CYTE SEDIMEN 56H ften indicates the p r exactly where the	TENT ID S. NO./LAB NO. HISTRATION DATE LECTION DATE ORTING DATE Unit ITATION RATE (mm/1st oresence of inflammat	
OLLECTED BY : SURJESH EFERRED BY : ARCODE NO. : 01526547 LIENT CODE. : KOS DIAGNO LIENT ADDRESS : 6349/1, NIC SER NAME CRYTHROCYTE SEDIMENTATION by RED CELL AGGREGATION BY CAPIL NTERPRETATION: . ESR is a non-specific test because nmune disease, but does not tell th . An ESR can be affected by other co s C-reactive protein . This test may also be used to mon ystemic lupus erythematosus ONDITION WITH LOW ESR . Iow ESR can be seen with condition polycythaemia), significantly high w	NOSTIC LAB ICHOLSON ROAD, AM ERYTHRO N RATE (ESR) ILLARY PHOTOMETRY e an elevated result o he health practitione	REG REG COL REP IBALA CANTT IBALA CANTT Value CYTE SEDIMEN 56H ften indicates the p r exactly where the	A. NO./LAB NO. HISTRATION DATE LECTION DATE ORTING DATE Unit ITATION RATE (1 mm/1st oresence of inflammat	: 012503060017 : 06/Mar/2025 09:52 AM : 06/Mar/2025 10:09AM : 06/Mar/2025 11:07AM Biological Reference interval ESR)
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by RED CELL AGGREGATION BY CAPIL NTERPRETATION: . ESR is a non-specific test because mmune disease, but does not tell th . An ESR can be affected by other co s C-reactive protein . This test may also be used to mon ystemic lupus erythematosus ONDITION WITH LOW ESR . Iow ESR can be seen with condition polycythaemia), significantly high w	N RATE (ESR) ILLARY PHOTOMETRY e an elevated result o he health practitione	56^H ften indicates the p r exactly where the	mm/1st	
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OTE: ESR and C - reactive protein (C-RP) Generally, ESR does not change as CRP is not affected by as many oth If the ESR is elevated, it is typically Women tend to have a higher ESR	ons that inhibit the newhite blood cell cour a) also lower the ESR as rapidly as does CRF her factors as is ESR , I ly a result of two typer R, and menstruation a pa, oral contraceptiv	and response to the ormal sedimentatio it (leucocytosis), ar f inflammation. P, either at the start making it a better m and pregnancy can ca	erapy in both of the a n of red blood cells, s nd some protein abno c of inflammation or a: narker of inflammatior ulins or fibrinogen. ause temporary eleva	ormalities. Šome changes in red cell shape (suc s it resolves. n.





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		hopra & Microbiology) onsultant Pathologist		(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI		FRY/BIOCHEMIST FASTING (F)	'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	E (F): PLASMA E - PEROXIDASE (GOD-POD)	92.41	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Fest Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TOT	CAL: SERUM	190.16	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		100.10	ing, all	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				1100000000000000000000000000000000000
TRIGLYCERIDES: SERUM		114.81	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (EN	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM	55.1	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
			(17	HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL		112.1	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLEST		135.06 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0
/LDL CHOLESTERC	I · SFRUM	22.96	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			
TOTAL LIPIDS: SER by CALCULATED, SPE		495.13	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	3.45	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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		h opra & Microbiology) onsultant Patholog		(Pathology)
NAME	: Mrs. RUBY KOCHAR			
AGE/ GENDER	: 63 YRS/FEMALE		PATIENT ID	: 1780472
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503060017
REFERRED BY	:		REGISTRATION DATE	: 06/Mar/2025 09:52 AM
BARCODE NO.	:01526547		COLLECTION DATE	:06/Mar/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:06/Mar/2025 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAL), AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.03	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	2.08 ^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
Test Name		value	UIII	biological kelerence intervar
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI		0.94	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.2	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.74	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	35.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM		29.5	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.21	RATIO	0.00 - 46.00
ALKALINE PHOSPI		81.75	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	16.69	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.33	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.31	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		3.02	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.43	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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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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			a second construction of the	
	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTION 1	FEST (COMPLETE))
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	25.13	mg/dL	10.00 - 50.00
CREATININE: SERU	JM	0.98	mg/dL	0.40 - 1.20
-	OGEN (BUN): SERUM	11.74	mg/dL	7.0 - 25.0
-	ROGEN (BUN)/CREATININE	11.98	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	25.64	RATIO	
URIC ACID: SERUM	[2.68	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	10.24	mg/dL	8.50 - 10.60
	ERUM DATE, SPECTROPHOTOMETRY	3.73	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	139.4	mmol/L	135.0 - 150.0
POTASSIUM: SERU	Μ	4.12	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	1	104.55	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	64.9		

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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IAME	: Mrs. RUBY	KOCHAR						
AGE/ GENDER	: 63 YRS/FEM	ALE		PATIENT ID		: 1780472		
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REFERRED BY				REGISTRATION D	DATE	:06/Mar/20250	09·52 AM	
BARCODE NO.	: 01526547			COLLECTION DAT		:06/Mar/2025		
CLIENT CODE.	: KOS DIAGN(STIC LAB		REPORTING DAT		:06/Mar/2025		
CLIENT ADDRESS		HOLSON ROAD, AM		KEI OKIING DAI	L	. 00/ Wai / 2023	12.201 W	
Test Name			Value	Ur	nit	Biolog	jical Reference	interval
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1	kia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glo D:1) WITH ELEV (BUN rises disp superimposed o D:1) WITH DECF	ostomy) creatinine producti ucocorticoids) ATED CREATININE LE proportionately more on renal disease.	on) VELS:	on, GI bleeding, thy ne) (e.g. obstructiv			lrome, high prote	ein diet,
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal 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 INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU G1 G2 G3a	kia, high fever). (e.g. ureter colu- ass (subnormal tetracycline, glu- D:1) WITH ELEV. (BUN rises disp superimposed of 0:1) WITH DECF osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate 0:1) WITH INCR oy (accelerates eleases muscle who develop reasily sis (acetoacetates eleases muscle who develop reasily creased BUN/cr apy (interferes LAR FILTERATIC No K M	ostomy) creatinine production ucocorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : The sis. In creatinine diffuse: a is virtually absent antidiuretic harmone EASED CREATININE: conversion of creation creatinine). nal failure. the causes false incre eatinine ratio). with creatinine mea	on) VELS: e than creatinin e than creatinin sout of extrace n blood). e) due to tubul ne to creatinin ase in creatinin surement). GFR (m	ne) (e.g. obstructiv ellular fluid). ar secretion of urea ie).	a.	y).	ormal ratio when	
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal 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 INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL <u>G1</u> <u>G2</u>	kia, high fever). (e.g. ureter colu- ass (subnormal tetracycline, glu- D:1) WITH ELEV. (BUN rises disp superimposed of 0:1) WITH DECF osis. d starvation. creased urea sy urea rather tha monemias (urea f inappropiate 0:1) WITH INCR oy (accelerates eleases muscle who develop reasons sis (acetoacetates eleases muscle who develop reasons 10:1) WITH INCR oy (accelerates eleases muscle who develop reasons 10:1) WITH INCR oy (accelerates eleases muscle who develop reasons 10:1) WITH INCR oy (accelerates 10:1) WITH INCR 10:1) WIT	ostomy) creatinine producti- ucocorticoids) ATED CREATININE LE proportionately more on renal disease. EASED BUN : Thesis. In creatinine diffuse: a is virtually absent antidiuretic harmone EASED CREATININE: conversion of creati creatinine). nal failure. The causes false incre eatinine ratio). with creatinine mea IN RATE: DESCRIPTION mal kidney functior idney damage with ormal or high GFR_ ild decrease in GFR	on) VELS: e than creatinin cout of extrace n blood). e) due to tubul ne to creatinin ase in creatinin surement). GFR (m R	ne) (e.g. obstructiv ellular fluid). ar secretion of urea ne). he with certain me <u>L/min/1.73m2) >90 >90 60 -89</u>	a.	y). es,resulting in no <u>CIATED FINDINGS</u> o proteinuria ence of Protein ,	ormal ratio when	





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NAME	: Mrs. RUBY KOCHAR		
AGE/ GENDER	: 63 YRS/FEMALE	PATIENT ID	: 1780472
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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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Test Name			Value	Unit	Biological Reference interva
			IRON	PROFILE	
IRON: SERUM			37	μg/dL	37.0 - 145.0
UNSATURATED IR SERUM			251.9	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BIND SERUM			288.9	µg/dL	230 - 430
by SPECTROPHOTOM %TRANSFERRIN S. by CALCULATED, SPE	ATURATION: SI		12.81 ^L	%	15.0 - 50.0
TRANSFERRIN: SE			205.12	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB		ANEMIA OF CHROI		IRON DEFICIENCY ANEMIA	
SERUM I	RON:	Normal to Re	duced	Reduced	Normal

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

IRON:

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

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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Test Name		Value	Unit	Biological Reference	interval
	THYRO		RINOLOGY TION TEST: TOTAI		
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoassay)	0.847	ng/mL	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle immunoassay)	9.62	µgm/d	L 4.87 - 12.60	
	ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	3.163	µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak levels betwee measured serum TSH concentrations. TSH stim lure at any level of regulation of the hypotha groidism) of T4 and/or T3.	nulates the pro	oduction and secretion of the	metabolically active hormones, thyroxine (
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Low Norma	ai	Normal or Low Normal	High	

IIM	TAT	ION	S:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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)	THYROX	(INE (T4)	THYROID STIMU	LATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Increased

Normal or High Normal





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



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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. RUBY KOCHAR		
AGE/ GENDER	: 63 YRS/FEMALE	PATIENT ID	: 1780472
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503060017
REFERRED BY	:	REGISTRATION DATE	: 06/Mar/2025 09:52 AM
BARCODE NO.	: 01526547	COLLECTION DATE	:06/Mar/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 06/Mar/2025 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	

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	/IMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		hology & Microbiology) n & Consultant Pathologis		(Pathology) Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON	I ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VII	AMINS	
			YDROXY VITAMIN D	3
	DROXY VITAMIN D3): ESCENCE IMMUNOASSAY)		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT.	< 20		a/ml
DEFI	CIENT: FICIENT:	< 20 21 - 29		j/mL
INSUF PREFFERI INTOX	FICIENT: ED RANGE: ICATION:	21 - 29 30 - 100 > 100		g/mL g/mL g/mL g/mL lecalciferol (from animals, Vitamin D3), or by

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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		h opra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTI					
Test Name		Value	Unit	Biological Reference interval			
	BALAMIN: SERUM	621 621	pg/mL	190.0 - 890.0			
INTERPRETATION:-	SED VITAMIN B12		DECREASED VITAMI	N B12			
1.Ingestion of Vitan		1.Pregnancy					
2.Ingestion of Estro	gen	2.DRUGS:As	2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitan			3.Ethanol Igestion				
4.Hepatocellular in 5.Myeloproliferativ			4. Contraceptive Harmones				
6.Uremia	e disol del		5.Haemodialysis 6. Multiple Myeloma				
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, smal 5.Vitamin B12 deficie proprioception, poor the neurologic defec 6.Serum methylmalo 7.Follow-up testing f	ency may be due to lack of IF se l intestinal diseases). ency frequently causes macroc coordination, and affective be ts without macrocytic anemia. nic acid and homocysteine leve or antibodies to intrinsic factor	ns and requires intrins ically, reabsorbing vita cretion by gastric muc ytic anemia, glossitis, p havioral changes. Thes els are also elevated in t (IF) is recommended t	ic factor (IF) for absorp min B12 from the ileur osa (eg, gastrectomy, g peripheral neuropathy, se manifestations may vitamin B12 deficiency to identify this potentia	n and returning it to the liver; very little is jastric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have			
deficiency at the cell considered, even if s	ular level is the assay for MMA erum vitamin B12 concentratio	. IT CIINICAI SYMPTOMS SI ns are normal.	uggest deficiency, mea:	surement of MMA and homocysteine should be			





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	Dr. Vinay Chopra MD (Pathology & Microbiol Chairman & Consultant Pat	ogy)	Dr. Yugam Cho MD (Patho & Consultant Patho	ology)	
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BARCODE NO. : 01526	547	COLLECTION	DATE : 00	6/Mar/2025 10:09AM	
	IAGNOSTIC LAB	REPORTING	DATE : 0	6/Mar/2025 11:16AM	
CLIENT ADDRESS : 6349/	1, NICHOLSON ROAD, AMBALA (CANTT			
Test Name	Val	ue	Unit	Biological Reference interval	
	CLINI	CAL PATHOLO	OGY		
	URINE ROUTINE	& MICROSCOPIC	EXAMINATIO	N	
PHYSICAL EXAMINATION					
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPE			ml		
COLOUR by DIP STICK/REFLECTANCE SPE	AM	BER YELLOW		PALE YELLOW	
TRANSPARANCY	НА	ZY		CLEAR	
by DIP STICK/REFLECTANCE SPE SPECIFIC GRAVITY	ECTROPHOTOMETRY 1.0	1		1.002 - 1.030	
by DIP STICK/REFLECTANCE SPE CHEMICAL EXAMINATION					
REACTION	AL	KALINE			
by DIP STICK/REFLECTANCE SPE PROTEIN		nativo		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPE	ECTROPHOTOMETRY	Negative			
SUGAR by DIP STICK/REFLECTANCE SPE		gative		NEGATIVE (-ve)	
pH	7.5			5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		gative		NEGATIVE (-ve)	
NITRITE	Ne	gative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPE UROBILINOGEN	No	rmal	EU/dL	0.2 - 1.0	
by DIP STICK/REFLECTANCE SPE KETONE BODIES	Ne	gative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID		gative		NEGATIVE (-ve)	
		GATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPE MICROSCOPIC EXAMINATI					
RED BLOOD CELLS (RBCs)		GATIVE (-ve)	/HPF	0 - 3	



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

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Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		2-3	/HPF	0 - 5

	ICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2 0	/ 111 1	0 0
	HELIAL CELLS IICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	5-6	/HPF	ABSENT
	TALS IICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CAST by M	S IICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
	TERIA IICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHI by M	ERS IICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
	HOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

** End Of Report ***





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