

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



MD	Vinay Chopra (Pathology & Microbiolog rman & Consultant Patho	y)	P r. Yugam (MD (Pa Consultant Pa	athology)
NAME : Mr. SHERU				
AGE/ GENDER : 42 YRS/MALE		PATIENT ID		: 1740873
COLLECTED BY : SURJESH		REG. NO./LAB	NO.	: 012501310030
REFERRED BY :		REGISTRATIO	N DATE	: 31/Jan/2025 10:18 AM
BARCODE NO. : 01524704		COLLECTION D	DATE	: 31/Jan/2025 10:24AM
CLIENT CODE. : KOS DIAGNOSTIO	C LAB	REPORTING D	ATE	: 31/Jan/2025 11:17AM
CLIENT ADDRESS : 6349/1, NICHOL	SON ROAD, AMBALA CA	NTT		
Test Name	Value		Unit	Biological Reference interval
	COMPLETE	WELLNESS PA BLOOD COUNT		
RED BLOOD CELLS (RBCS) COUNT A			1.12	
HAEMOGLOBIN (HB) by CALORIMETRIC	13.1		gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL	4.35 L IMPEDENCE		Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUME (PCV) by calculated by automated hematol	OGY ANALYZER 38.5 ^I		%	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOL			fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN by CALCULATED BY AUTOMATED HEMATOL			pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN by CALCULATED BY AUTOMATED HEMATOL	OGY ANALYZER		g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RE by CALCULATED BY AUTOMATED HEMATOL	OGY ANALYZER		%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RE by CALCULATED BY AUTOMATED HEMATOL			fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	20.3		RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated WHITE BLOOD CELLS (WBCS)	27.89)	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICRO	6870 DSCOPY		/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRB by AUTOMATED 6 PART HEMATOLOGY ANAL	SCS) NIL			0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRB by CALCULATED BY AUTOMATED HEMATOL	SCS) % NIL		%	< 10 %





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 Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	64	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	25	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	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	4397	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1718	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	412	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	344	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	262000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.33	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	12 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	117000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	44.7	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.3	%	15.0 - 17.0



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









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	,, ., .,			
Test Name		Value	Unit	Biological Reference interval
			- III	
	GLY	COSYLATED HAEMO		
GLYCOSYLATED HAE		COSYLATED HAEMO		4.0 - 6.4
GLYCOSYLATED HAE WHOLE BLOOD	MOGLOBIN (HbA1c):		GLOBIN (HBA1C)	
GLYCOSYLATED HAE WHOLE BLOOD	MOGLOBIN (HbA1c):		GLOBIN (HBA1C) %	
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c):	5.6	GLOBIN (HBA1C)	4.0 - 6.4
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	5.6	GLOBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION:	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA	5.6 114.02 BETES ASSOCIATION (ADA):	GLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP	5.6 114.02 BETES ASSOCIATION (ADA):	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) in	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP Metic Adults >= 18 years	5.6 114.02 BETES ASSOCIATION (ADA):	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) in <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	5.6 114.02 BETES ASSOCIATION (ADA):	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 – 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP Metic Adults >= 18 years	5.6 114.02 BETES ASSOCIATION (ADA): GLYCOSYLATED F	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	5.6 114.02 BETES ASSOCIATION (ADA): GLYCOSYLATED F	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAE WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	5.6 114.02 BETES ASSOCIATION (ADA): GLYCOSYLATED F	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00

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.

Goal of therapy:

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.





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



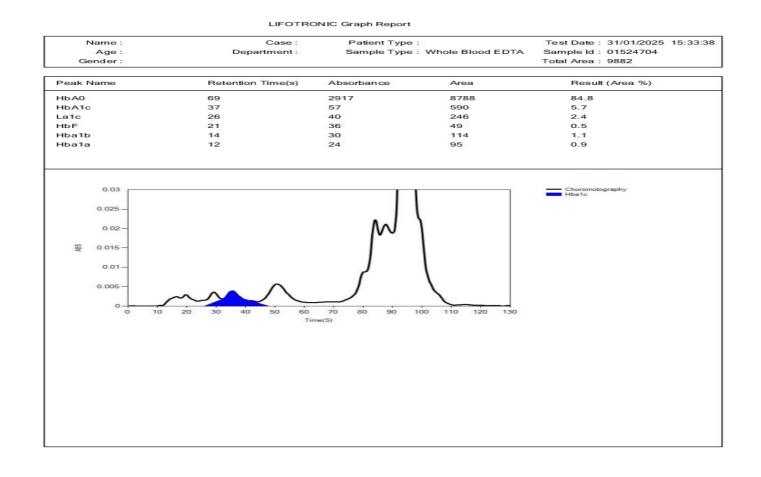
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Test Name		Value Unit	Biological Reference interval





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Test Name		Value	Unit	Biological Reference interval
2. An ESR can be affe as C-reactive protein		flammation. For t	his reason, the ESR is ty	pically used in conjunction with other test such

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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DR.YUGAM CHOPRA

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CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMIS	STRY/BIOCHEMIST	TRY
		GLUCOS	E FASTING (F)	
			mg/dL	

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT.		
Test Name		Value	Unit	Biological Reference interval
			OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		182.31	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S. by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	100.67	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTERO	L (DIRECT): SERUM	73.92	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
DL CHOLESTEROI		88.26	mg/dL	HIGH HDL: > OR = 60.0 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 CHOLEST by CALCULATED, SPE		108.39	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
VLDL CHOLESTER	DL: SERUM	20.13	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE	сткорнотометку 2UM	465.29	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HD by CALCULATED, SPE	DL RATIO: SERUM	2.47	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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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.19	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	1.36 ^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
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.78	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.22	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.56	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.02	RATIO	0.00 - 46.00
ALKALINE PHOSPH	HATASE: SERUM yl phosphatase by amino methyl	79.2	U/L	40.0 - 130.0

Dr. Vinay Chopra

ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	79.2	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	36.3	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.26	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.66	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.6	gm/dL	2.30 - 3.50
A : G RATIO: SERUM	1.79	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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)





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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. SHERU		
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1740873
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501310030
REFERRED BY	:	REGISTRATION DATE	: 31/Jan/2025 10:18 AM
BARCODE NO.	:01524704	COLLECTION DATE	: 31/Jan/2025 10:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 31/Jan/2025 02:54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Valu	ie Unit	Biological Reference interva

Test NameValueUnitBiological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interva	
	KIDNI	TY FUNCTION T	TEST (COMPLETE)		
UREA: SERUM		27.35	mg/dL	10.00 - 50.00	
	TE DEHYDROGENASE (GLDH)	21.00	°,	10.00 00.00	
CREATININE: SERUN by ENZYMATIC, SPECTF	-	1.06	mg/dL	0.40 - 1.40	
BLOOD UREA NITRO	GEN (BUN): SERUM	12.78	mg/dL	7.0 - 25.0	
by CALCULATED, SPEC	<i>TROPHOTOMETRY</i> JGEN (BUN)/CREATININE	12.06	RATIO	10.0 - 20.0	
RATIO: SERUM	GEN (DUN)/ CREATININE	12.00	KATIO	10.0 - 20.0	
by CALCULATED, SPEC		050	D. I. T. I.		
UREA/CREATININE		25.8	RATIO		
URIC ACID: SERUM		4.61	mg/dL	3.60 - 7.70	
by URICASE - OXIDASE CALCIUM: SERUM	PEROXIDASE	9.13	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPECT	TROPHOTOMETRY		0	0.00 10.00	
PHOSPHOROUS: SER	UM TE, SPECTROPHOTOMETRY	3.23	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM		142.5	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIVE		4.25	mmal/I	2 50 5 00	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.35	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM		106.88	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIVE ESTIMATED GLOME	ELECTRODE) RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	89.9			
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.

3. GI haemorrhage.



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

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

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NAME	: Mr. SHERU								
AGE/ GENDER	: 42 YRS/MAI	E		PATIENT ID	: 174	10873			
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CLIENT CODE.	: KOS DIAGN			REPORTING DATE	: 31/	/Jan/2025 02:	54PM		
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AME	ALA CANT'I						
Test Name			Value	Uni	it	Biologic	cal Refere	nce interv	val
9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia	tetracycline, gl 0:1) WITH ELEV (BUN rises disp	ATED CREATININE LEV proportionately more	ELS:	ne) (e.g. obstructive	uropathy).				
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (<20 Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido 	tetracycline, gli 0:1) WITH ELEV. (BUN rises disp superimposed of 0:1) WITH DECF osis. Ind starvation. ad starvation. creased urea sy urea rather tha monemias (urea of inappropiate 0:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoacetar creased BUN/cr apy (interferes ULAR FILTERATIC	acocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : attribute the termination of terminatio of terminati	ELS: than creatinin but of extrace blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea. ie).	nodologies,re ASSOCIAT	sulting in norr E D FINDINGS Dteinuria	mal ratio w	hen dehyd	ratic
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Perenal azotemia CECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. PECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STAGE 	tetracycline, gli 0:1) WITH ELEV. (BUN rises disp superimposed of 0:1) WITH DECF osis. Ind starvation. creased urea sy urea rather tha monemias (urea of inappropiate 0:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoacetai creased BUN/cr apy (interferes DLAR FILTERATIC No	Ared CREATININE LEV proportionately more proportionately more proportionately more prenal disease. EASED BUN : anthesis. n creatinine diffuses a is virtually absent ir antidiuretic harmone) EASED CREATININE: conversion of creatin creatinine). nal failure. re causes false increating eatinine ratio). with creatinine measure DESCRIPTION	ELS: than creatinin but of extrace blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea. ne). ne with certain meth	nodologies,re <u>ASSOCIAT</u> No pro	ED FINDINGS	mal ratio w	hen dehyd	ratic
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia 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 hould produce an in Cephalosporin ther STADE G1 G2	tetracycline, gli 0:1) WITH ELEV. (BUN rises disp superimposed of 0:1) WITH DECF osis. Ind starvation. 2. creased urea sy urea rather tha monemias (urea of inappropiate 0:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoacetai creased BUN/cr apy (interferes ULAR FILTERATIO No K	acocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : ATESE BUN : ATESE BUN : A creatinine diffuses a is virtually absent ir antidiuretic harmone) EASED CREATININE: conversion of creatin creatinine). nal failure. A conversion of creatin creatinine). nal failure. A conversion of creatin creatinine ratio). with creatinine measure M RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR	ELS: than creatinin but of extrace blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea. ne). he with certain meth <u>kL/min/1.73m2) >90 >90</u>	nodologies,re ASSOCIAT No pro Presence	ED FINDINGS		hen dehyd	ratic
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia 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 hould produce an in Cephalosporin ther STIMATED GLOMERL G1 G2	tetracycline, gli 0:1) WITH ELEV. (BUN rises disp superimposed 0:1) WITH DECF osis. Id starvation. creased urea sy urea rather tha monemias (urea f inappropiate 0:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoacetar creased BUN/cr apy (interferes ULAR FILTERATIC No K M	acocorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : ATESE BUN : ATESE BUN : A creatinine diffuses a is virtually absent ir antidiuretic harmone) EASED CREATININE: conversion of creatin creatinine). nal failure. A causes false increating creatinine ratio). with creatinine measure N RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR ild decrease in GFR	ELS: than creatinin but of extrace blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea. ne). he with certain meth <u>kL/min/1.73m2) >90 >90 60 -89</u>	nodologies,re ASSOCIAT No pro Presence	ED FINDINGS oteinuria of Protein ,		hen dehyd	ratic
P. Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL G1 G2 G3a G3b	tetracycline, gli 0:1) WITH ELEV. (BUN rises disp superimposed of 0:1) WITH DECF osis. Ind starvation. 2. creased urea sy urea rather tha monemias (urea f inappropiate 0:1) WITH INCR py (accelerates eleases muscle who develop refines interferes ILAR FILTERATION NO K MO MO MO MO	accorticoids) ATED CREATININE LEV proportionately more on renal disease. EASED BUN : ATESE CREATININE: CONVERSION OF CREATININE: CONVERSION OF CREATININE: CONVERSION OF CREATININE: CONVERSION OF CREATININE: CONVERSION OF CREATININE: CONVERSION OF CREATININE: ATESE BUSE BUSE INCREASE ATESE BUSE AND	ELS: than creatinin but of extrace blood). due to tubul e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea. ne). he with certain meth kl/min/1.73m2) >90 >90 60 -89 30-59	nodologies,re ASSOCIAT No pro Presence	ED FINDINGS oteinuria of Protein ,		hen dehyd	ratic
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NAME	: Mr. SHERU		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT	
Test Name	Va	alue 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





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







	MD (Path	ay Chopra hology & Microbiology) h & Consultant Patholo	M	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
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Test Name		Value	Unit	Biological Refe	rence interval
			CRINOLOGY		
		THYROID FUN	NCTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IN	0.917 IMUNOASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle in	4.43^L	µgm/d	L 4.87 - 12.60	
	TING HORMONE (TSH		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentra	ations. TSH stimulates the	production and secretion of the) pm. The variation is of the order of 50 metabolically active hormones, thyri ther underproduction (hypothyroidis	oxine (T4)and
CLINICAL CONDITION	1	3	T4	TSH]
Primary Hypothyroidis		educed	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Norm	al or Low Normal	Normal or Low Normal	High	

н кліта	TIONS:-
LIIVIIIA	110142:-

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.

TRIIODOTHYRONINE (T3)		THYROX	(INE (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

Increased

Normal or High Normal





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

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Test Name		Value Ur		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	
	RECO	MMENDATIONS OF TSH L	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

*** End Of Report ***





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

