

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopr</b> MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mr. S.S PRASAD			
GE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1739731
OLLECTED BY	:		REG. NO./LAB NO.	: 012501300023
EFERRED BY	:		<b>REGISTRATION DATE</b>	: 30/Jan/2025 10:47 AM
ARCODE NO.	: 01524654		COLLECTION DATE	: 30/Jan/2025 10:51AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	REPORTING DATE	: 30/Jan/2025 11:02AM
Fest Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: D OOD COUNT (CBC)	т
ED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
IAEMOGLOBIN (H	B)	12.6	gm/dL	12.0 - 17.0
ED BLOOD CELL (	(RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.39	Millions	/cmm 3.50 - 5.00
ACKED CELL VOL	UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	36.6 <sup>L</sup>	%	40.0 - 54.0
AEAN CORPUSCUL	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	83.5	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	28.8	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	34.5	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	14.7	%	11.00 - 16.00
RED CELL DISTRIB	AUTOMATED HEMATOLOGY ANALYZER AUTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	45.8	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		19.02	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by CALCULATED		28.06	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
	LLƏ (WBCS)	5500		4000 11000
WHITE BLOOD CE		5500	/cmm	4000 - 11000
TOTAL LEUCOCYT	E COUNT (TLC) y by sf cube & microscopy	0000		
COTAL LEUCOCYTI by flow cytometr NUCLEATED RED F		NIL		0.00 - 20.00





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

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

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NAME





Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. S.S PRASAD

MD (Pathology)

Dr. Yugam Chopra

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Test Name		Value	Unit	<b>Biological Reference interval</b>	
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)				
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	41 <sup>L</sup>	%	50 - 70	
LYMPHOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	<b>48<sup>H</sup></b>	%	20 - 40	
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6	
MONOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12	
	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1	
ABSOLUTE LEUKO	<u>CYTES (WBC) COUNT</u>				
ABSOLUTE NEUTR	OPHIL COUNT y by sf cube & microscopy	2255	/cmm	2000 - 7500	
ABSOLUTE LYMPH by FLOW CYTOMETR	OCYTE COUNT y by sf cube & microscopy	2640	/cmm	800 - 4900	
ABSOLUTE EOSING	OPHIL COUNT y by sf cube & microscopy	220	/cmm	40 - 440	
ABSOLUTE MONOC	CYTE COUNT	385	/cmm	80 - 880	

ABSOLUTE BASOPHIL COUNT 0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.

by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY

PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	202000
PLATELETCRIT (PCT) by Hydro Dynamic Focusing, electrical impedence	0.28
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	14 <sup>H</sup>
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	111000 <sup>H</sup>
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	55 <sup>H</sup>
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	16.4
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	

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

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



0 - 110

150000 - 450000

0.10 - 0.36

6.50 - 12.0

11.0 - 45.0

15.0 - 17.0

30000 - 90000

/cmm

/cmm

%

fL

%

%

/cmm





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology Chairman & Consultant Pathole		(Pathology)
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Test Name	Value	Unit	Biological Reference interval



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







	Dr. Vinay Che MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 30/Jan/2025 03:17PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A				
Test Name		Value	Unit	Biological Reference interval	
	GLY	COSYLATED HAEMO	GLOBIN (HBA1C)		
GLYCOSYLATED HAE	MOGLOBIN (HbA1c):	5.1	%	4.0 - 6.4	
WHOLE BLOOD		5.1		4.0 - 6.4	
WHOLE BLOOD by hplc (high perform ESTIMATED AVERAG	MANCE LIQUID CHROMATOGRAPHY)	5.1 99.67		4.0 - 6.4 60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	99.67	%		
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION:	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	99.67 Etes association (ada):	%	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	99.67 Etes association (ada):	% mg/dL	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	99.67 Etes association (ada):	% mg/dL IEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years	99.67 Etes association (ada):	% mg/dL IEMOGLOGIB (HBAIC) in <5.7	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Letic Adults >= 18 years Risk (Prediabetes)	99.67 ETES ASSOCIATION (ADA): GLYCOSYLATED F	% mg/dL IEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	99.67 ETES ASSOCIATION (ADA): GLYCOSYLATED H Goals of Therapy:	% mg/dL IEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years < 7.0	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Letic Adults >= 18 years Risk (Prediabetes)	99.67 ETES ASSOCIATION (ADA): GLYCOSYLATED F Goals of Therapy: Actions Suggested:	% mg/dL HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years <7.0 >8.0	60.00 - 140.00	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	99.67 ETES ASSOCIATION (ADA): GLYCOSYLATED F Goals of Therapy: Actions Suggested:	% mg/dL IEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years < 7.0	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.

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 appropiate.

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



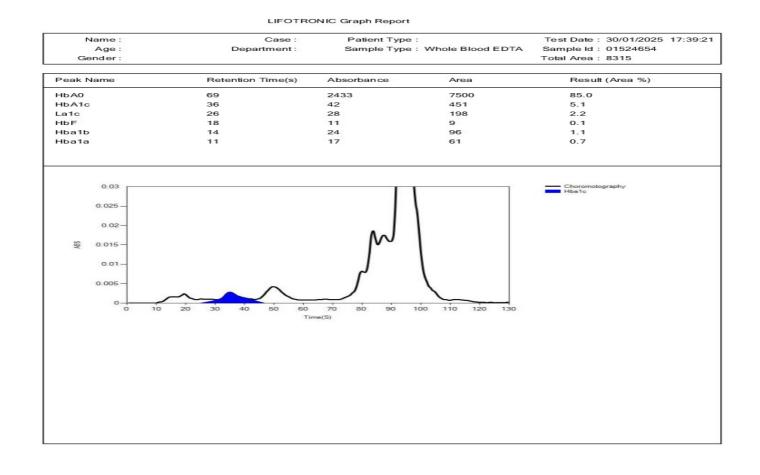
TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

4.High





	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology) MI	m <b>Chopra</b> D (Pathology) ht Pathologist
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Test Name		Value Unit	Biological Reference interval







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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Patho	y Chopra ology & Microbiology) & Consultant Pathologis		(Pathology)
IAME	: Mr. S.S PRASAD			
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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 30/Jan/2025 11:54AM
LIENT ADDRESS	: 6349/1, NICHOLSON R	20AD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
CONDITION WITH LO	VV ESK	bit the normal sedimer		





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

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







	MD (Patho	y Chopra logy & Microbiology) & Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. S.S PRASAD			
AGE/ GENDER	: 65 YRS/MALE	PAT	IENT ID	: 1739731
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CLIENT ADDRESS	: 6349/1, NICHOLSON R	COAD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CL	INICAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAS	TING (F)	
	G (F): PLASMA	89.27	mg/dL	NORMAL: < 100.0

**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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Chopra / & Microbiology) onsultant Pathologist		(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO		130.35	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		130.33	nig/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	ERUM PHATE OXIDASE (ENZYMATIC)	65.06	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 Ion	47.06	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		70.28	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 by CALCULATED, SPE		83.29	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
LDL CHOLESTER(		13.01	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER		325.76 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	DL RATIO: SERUM	2.77	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 Ch MD (Pathology 8	Microbiology)		(Pathology)
NAME	Chairman & Con	sultant Pathologist	CEO & Consultant	Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.49	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	1.38 <sup>L</sup>	RATIO	3.00 - 5.00

## **INTERPRETATION:**

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

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

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





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







HEALTHCARE & DIAGNOSTIC Dr. Yugam Chopra MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** 

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Test Name	Value	Unit	<b>Biological Reference interval</b>
LIVER	FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.47	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.32	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	16.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18.96	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.87	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	41.85	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	39.97	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.63	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.18	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.45	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.71	RATIO	1.00 - 2.00

### INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

# **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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









	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	robiology) MI	m <b>Chopra</b> D (Pathology) nt Pathologist
NAME	: Mr. S.S PRASAD		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1739731
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012501300023
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Jan/2025 10:47 AM
BARCODE NO.	: 01524654	COLLECTION DATE	: 30/Jan/2025 10:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 30/Jan/2025 01:10PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	Biological Reference interva

Test Name	Value	Unit	<b>Biological Reference interval</b>

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



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MBBS, MD (PATHOLOGY)







	<b>Dr. Vinay Cho</b> MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
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Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNE	EY FUNCTION	N TEST (COMPLETE)	
UREA: SERUM		34.23	mg/dL	10.00 - 50.00
-	MATE DEHYDROGENASE (GLDH)	1.61 <sup>H</sup>		
	CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		mg/dL	0.40 - 1.40
BLOOD UREA NITH	BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	9.94 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY	010 1		
UREA/CREATININ		21.26	RATIO	
	ECTROPHOTOMETRY	0.07	( ) 1	0.00 7.70
URIC ACID: SERUN by URICASE - OXIDAS		3.97	mg/dL	3.60 - 7.70
CALCIUM: SERUM		8.6	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SI	ECTROPHOTOMETRY EDUM	3.5	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	3.5	liig/ uL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		143.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM		5.15 <sup>H</sup>	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE)		<b>3.13</b> 107.4		
	CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		mmol/L	90.0 - 110.0
	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	IERULAR FILTERATION RATE	47.2		
by CALCULATED <b>NOTE 2</b>		RESULT R	ECHECKED TWICE	
		RESULT R	LUILUNED I WICE	

ADVICE

# **INTERPRETATION:**

# KINDLY CORRELATE CLINICALLY

To differentiate between pre- and post renal azotemia.

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

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



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name		_	Value	Unit	Biologica	l Reference interval
lomerular filtration			· mut	Unit	Diologica	
<ol> <li>P. Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet an</li> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>Should produce an in</li> <li>Cephalosporin thei</li> </ol>	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR rosis. nd starvation. e. ecreased urea syr (urea rather thar imonemias (urea of inappropiate a 10:1) WITH INCRE apy (accelerates of releases muscle of who develop rer D: sis (acetoacetate creased BUN/cre rapy (interferes w ULAR FILTERATIO	TED CREATININE LEVE roportionately more the n renal disease. EASED BUN : In thesis. In creatinine diffuses of is virtually absent in for it virtually absent in for it virtually absent in for the creatinine hearmone) of CASED CREATININE: conversion of creatine creatinine). That failure. The causes false increase eatinine ratio). with creatinine measur N RATE:	LS: han creatinine) (e. ut of extracellular blood). due to tubular sec to creatinine). e in creatinine with rement).	fluid). retion of urea. n certain methodo	logies,resulting in norma	al ratio when dehydratio
CKD STAGE		DESCRIPTION	GFR (mL/min		SSOCIATED FINDINGS	4
G1		mal kidney function dney damage with	>90		No proteinuria Presence of Protein ,	-
C.)		ormal or high GFR	>90		bumin or cast in urine	
G2						
G2 G3a		Id decrease in GFR	60 -8	9		
G3a G3b	Mi Mode	ld decrease in GFR erate decrease in GFR	30-5	9		
G3a	Mi Mode	ld decrease in GFR		9 9		





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Test Name	Value	e Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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Test Name		Value	Unit	Biological Reference interval
	Т		RINOLOGY TION TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM	0.857 DASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE IMMUNO	10.44 DASSAY)	μgm/d	L 4.87 - 12.60
	TING HORMONE (TSH): SE		µIU/m]	L 0.35 - 5.50
3rd GENERATION, ULT	RASENSITIVE			
INTERPRETATION:				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the pr	oduction and secretion of the	pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	Т3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lo	ow Normal	Normal or Low Normal	High

#### LIMITATIONS:-

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	TRIIODOTHYRONINE (T3) THYROXINE (T4)		(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





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Test Name	Value	e Unit	Biological Reference interval

Test Name			value Unit		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	
	RECOM	MENDATIONS OF TSH LE	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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Test Name		Value	Unit	<b>Biological Reference interval</b>
		VITA	MINS	
	V	TTAMIN D/25 HY	DROXY VITAMIN D	3
VITAMIN D (25-HYDROXY VITAMIN D3) by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)		RUM 46.9	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	n	g/mL
INSUFFICIENT:		21 - 29		j/mL
	D RANGE: CATION:	<u> </u>		g/mLg/mL
conversion of 7- dihy 2.25-OHVitamin D r	drocholecalciferol to Vitam epresents the main body re and by a transport protein v rimary role in the maintena	in D3 in the skin upon l sevoir and transport for while in circulation. ance of calcium homeos	Jltraviolet exposure. rm of Vitamin D and trans statis. It promotes calciun	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH).

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Test Name		Value	Unit	Biological Reference interval
		TUMOU	R MARKER	
	PI	ROSTATE SPECIFIC	ANTIGEN (PSA) - TO	DTAL
PROSTATE SPECIFI	C ANTIGEN (PSA) - TO	0.55 OTAL:	ng/mL	0.0 - 4.0
SERUM			1.8, 1.12	
	SCENCE IMMUNOASSAY)			
<u>interpretation:</u> Note:				
<ol> <li>This is a recommen</li> <li>False negative / poi</li> <li>PSA levels may app</li> <li>Immediate PSA testineedle biopsy of prost</li> <li>PSA values regardle correlated with clinic.</li> <li>Sites of Non-prosta</li> <li>Physiological decresion sexual activity</li> <li>The concentration of</li> </ol>	sitive results are observer ear consistently elevated ting following digital rec tate is not recommended so of levels should not be al findings and results of tic PSA production are be ase in PSA level by 18% of PSA in a given specime bibration, and reagent sp <b>NG INTERVALS</b> eline) atively	ed in patients receiving r d / depressed due to the tal examination, ejaculat d as they falsely elevate l be interpreted as absolute f other investigations preast epithelium, salivar has been observed in hos en, determined with assa	nouse monoclonal antiboc interference by heterophil tion, prostatic massage, in evels e evidence of the presence ry glands, peri-urethral & a spitalized / sedentary patie	ion (DRE) in males above 50 years of age. dies for diagnosis or therapy ic antibodies & nonspecific protein binding dwelling catheterization, ultrasonography and e or absence of disease. All values should be anal glands, cells of male urethra & breast milk ents either due to supine position or suspended urers, may not be comparable due to differences
4. Monthly Follow Up	if levels are high and sh	owing a rising trend		
	POST SURGERY 1st Year		FREQUENCY OF TESTIN Every 3 Months	<u>6</u>
<u> </u>	2 <sup>nd</sup> Year		Every 4 Months	
21	<sup>rd</sup> Year Onwards		Every 6 Months	
CLINICAL USE:				
1. An aid in the early of	detection of Prostate can or more affected first de		nction with Digital rectal ex	amination in males more than 50 years of age

2. Followup and management of Prostate cancer patients.

3. Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

KOS Diagnostic Lab (A Unit of KOS Healthcare)

INCREASED LEVEL:

1. Prostate cancer

2. Benign Prostatic Hyperplasia

3. Prostatitis

4. Genitourinary infections



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



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