



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. BHARTI			
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1800191
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012503210011
REFERRED BY	:		REGISTRATION DATE	: 21/Mar/2025 08:39 AM
BARCODE NO.	:01527476		COLLECTION DATE	: 21/Mar/2025 08:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Mar/2025 09:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	SWAST	THYA W	ELLNESS PANEL: D	
	COMP	LETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HI	B)	10.7 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (1	DDC) COUNT	3.77	Millions	/cmm 3.50 - 5.00
by HYDRO DYNAMIC F	COUNT OCUSING, ELECTRICAL IMPEDENCE	3.17	Millions/	3.50 - 5.00
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	33.2 ^L	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	88	fL	80.0 - 100.0
	utomated hematology analyzer AR HAEMOGLOBIN (MCH)	28.3	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.1	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	13.9	%	11.00 - 16.00
	utomated hematology analyzer UTION WIDTH (RDW-SD)	45.6	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED		23.34	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
	NEV.	00.07	DATTO	>13.0
GREEN & KING IND by calculated	JEX	32.35	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
				IRON DEFICIENCY ANEMIA: >
иште ві аль сеі				65.0
WHITE BLOOD CEI FOTAL LEUCOCYTE		8240	/cmm	4000 - 11000
	BY SF CUBE & MICROSCOPY	0240	/ cmm	4000 - 11000
		NIL		0.00 - 20.00
by FLOW CYTOMETRY NUCLEATED RED B				
by FLOW CYTOMETRY NUCLEATED RED B by AUTOMATED 6 PAR	LOOD CELLS (NRBCS) RT HEMATOLOGY ANALYZER LOOD CELLS (NRBCS) %	NIL	%	< 10 %





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by sf cube & microscopy	66	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	23	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	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	5438	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1895	/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	494	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	260000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.39 ^H	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	15 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	156000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	60 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.8	%	15.0 - 17.0



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REFERRED BY		REGIS	TRATION DATE	: 21/Mar/2025 08:39 AM
BARCODE NO.	: 01527476		ECTION DATE	: 21/Mar/2025 08:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 21/Mar/2025 01:33PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,		NILIU DAIL	. 217 Mai / 2023 01.331 M
CLIENT ADDRESS	. 0349/ I, NICHOLSON ROAD,	AMDALA CANTI		
Test Name		Value	Unit	Biological Reference inter
WHOLE BLOOD	EMOGLOBIN (HbA1c):	11.5 ^H	%	4.0 - 6.4
ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	283.35 ^H	mg/dL	60.00 - 140.00
<u>INTERPRETATION:</u>				
		I DIABETES ASSOCIATION (
	REFERENCE GROUP		LATED HEMOGLOGIB ((HBAIC) in %
 Non dia	REFERENCE GROUP abetic Adults >= 18 years		LATED HEMOGLOGIB (<5.7	(HBAIC) in %
Non dia	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		ATED HEMOGLOGIB (<5.7 5.7 - 6.4	(HBAIC) in %
Non dia	REFERENCE GROUP abetic Adults >= 18 years		LATED HEMOGLOGIB (<5.7 5.7 - 6.4 >= 6.5	(HBAIC) in %
Non dia A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOSYI	LATED HEMOGLOGIB (<5.7 5.7 – 6.4 >= 6.5 Age > 19 Years	(HBAIC) in %
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		ATED HEMOGLOGIB (<5.7	
Non dia A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCOSYI	ATED HEMOGLOGIB (<5.7	< 7.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.

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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GE/ GENDER: 58 YFDLLECTED BY: SURJEFERRED BY:ARCODE NO.: 0152LIENT CODE.: KOS J	7476 DIAGNOSTIC LAB /1, NICHOLSON ROAD ERYTHI ATION RATE (ESR) Y CAPILLARY PHOTOMET ecause an elevated resu	R R R C R C R C R C R C R C R C R C R C	ATIENT ID EEG. NO./LAB NO. EEGISTRATION DATE OLLECTION DATE EEPORTING DATE Unit ENTATION RATE (1 mm/1st	
DLLECTED BY : SURJI EFERRED BY : ARCODE NO. : 0152 LIENT CODE. : KOS I LIENT ADDRESS : 6349 est Name	ESH 7476 DIAGNOSTIC LAB /1, NICHOLSON ROAD ERYTH ATION RATE (ESR) y CAPILLARY PHOTOMET ecause an elevated resu	R R R C R C R C R C R C R C R C R C R C	EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE EPORTING DATE Unit ENTATION RATE (1 mm/1st	: 012503210011 : 21/Mar/2025 08:39 AM : 21/Mar/2025 08:54AM : 21/Mar/2025 09:39AM Biological Reference interval ESR)
EFERRED BY : ARCODE NO. : 0152 LIENT CODE. : KOS I LIENT ADDRESS : 6349 est Name RYTHROCYTE SEDIMENT by RED CELL AGGREGATION B ITERPRETATION: ESR is a non-specific test be imune disease, but does no An ESR can be affected by o G-reactive protein	7476 DIAGNOSTIC LAB /1, NICHOLSON ROAD ERYTHI ATION RATE (ESR) Y CAPILLARY PHOTOMET ecause an elevated resu	R C R AMBALA CANTT Value ROCYTE SEDIM 41 ^H RY	EGISTRATION DATE OLLECTION DATE EPORTING DATE Unit ENTATION RATE (1 mm/1st	: 21/Mar/2025 08:39 AM : 21/Mar/2025 08:54AM : 21/Mar/2025 09:39AM Biological Reference interval ESR)
ARCODE NO. : 0152 LIENT CODE. : KOS I LIENT ADDRESS : 6349 est Name RYTHROCYTE SEDIMENT by RED CELL AGGREGATION B ITERPRETATION: ESR is a non-specific test be imune disease, but does no mune disease, but does no an ESR can be affected by of C-reactive protein	DIAGNOSTIC LAB /1, NICHOLSON ROAD ERYTHI ATION RATE (ESR) Y CAPILLARY PHOTOMET ecause an elevated resu	C R AMBALA CANTT Value ROCYTE SEDIM 41 ^H 'RY	OLLECTION DATE EEPORTING DATE Unit ENTATION RATE (1 mm/1st	: 21/Mar/2025 08:54AM : 21/Mar/2025 09:39AM Biological Reference interval ESR)
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LIENT ADDRESS : 6349 est Name RYTHROCYTE SEDIMENT by RED CELL AGGREGATION B ITERPRETATION: ESR is a non-specific test be imune disease, but does no An ESR can be affected by o c-reactive protein	/1, NICHOLSON ROAD ERYTHI ATION RATE (ESR) y CAPILLARY PHOTOMET ecause an elevated resu t tell the health practiti	AMBALA CANTT Value ROCYTE SEDIM 41 ^H RY	Unit ENTATION RATE (1 mm/1st	Biological Reference interval ESR)
est Name RYTHROCYTE SEDIMENT by RED CELL AGGREGATION B ITERPRETATION: ESR is a non-specific test be mune disease, but does no An ESR can be affected by o c-reactive protein	ERYTH ATION RATE (ESR) Y CAPILLARY PHOTOMET ecause an elevated resu	Value ROCYTE SEDIM 41 ^H RY	ENTATION RATE (1 mm/1st	ESR)
RYTHROCYTE SEDIMENT by RED CELL AGGREGATION B ITERPRETATION: ESR is a non-specific test be mune disease, but does no An ESR can be affected by o c-reactive protein	ATION RATE (ESR) y <i>CAPILLARY PHOTOMET</i> ecause an elevated resu t tell the health practiti	ROCYTE SEDIM 41 ^H RY ult often indicates th	ENTATION RATE (1 mm/1st	ESR)
by RED CELL AGGREGATION B ITERPRETATION: ESR is a non-specific test be imune disease, but does no An ESR can be affected by o c-reactive protein	ATION RATE (ESR) y <i>CAPILLARY PHOTOMET</i> ecause an elevated resu t tell the health practiti	41^H RY ult often indicates th	mm/1st	
sickle cells in sickle cell an OTE: ESR and C - reactive protein Generally, ESR does not ch CRP is not affected by as ma If the ESR is elevated, it is t Women tend to have a high	aemia) also lower the (C-RP) are both marke ange as rapidly as does any other factors as is E ypically a result of two ler ESR, and menstruati hyldopa, oral contrace	ESR. crs of inflammation. CRP, either at the st SR, making it a bette types of proteins, gl ion and pregnancy ca	art of inflammation or as r marker of inflammatior obulins or fibrinogen. In cause temporary eleva	n.





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Page 4 of 13





		& Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. BHARTI			
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BARCODE NO.	: 01527476	COLL	ECTION DATE	: 21/Mar/2025 08:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 21/Mar/2025 11:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAS	ГING (F)	

IN ACCORDANCE 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Chopra v & Microbiology) onsultant Pathologist		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. BHARTI : 58 YRS/FEMALE : SURJESH : : 01527476 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAN		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1800191 : 012503210011 : 21/Mar/2025 08:39 AM : 21/Mar/2025 08:54AM : 21/Mar/2025 12:27PM
Test Name		Value	Unit	Biological Reference interval
			OFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		141.69	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	184.55 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM	49.8	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		54.98	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPE		91.89	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTERC by CALCULATED, SPE		36.91	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		467.93	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	2.85	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.1	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		3.71	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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Dr. Yugam Chopra

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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.36	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.2	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	26.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	29.4	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.9	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	58.45	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	48.86	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.5	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.24	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.26	gm/dL	2.30 - 3.50

Dr. Vinay Chopra

by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

A : G RATIO: SERUM

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)

1.3





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

RATIO

1.00 - 2.00

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. BHARTI		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1800191
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503210011
REFERRED BY	:	REGISTRATION DATE	: 21/Mar/2025 08:39 AM
BARCODE NO.	: 01527476	COLLECTION DATE	: 21/Mar/2025 08:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Mar/2025 12:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	

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



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference inter
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		56.18 ^H	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)			Ũ	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		1.87 ^H	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM		26.25 ^H	mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY				10.0.00.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM		14.04	RATIO	10.0 - 20.0
by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININ by CALCULATED, SPE		30.04	RATIO	
URIC ACID: SERUM		9.41 ^H	mg/dL	2.50 - 6.80
by URICASE - OXIDAS			-	
CALCIUM: SERUM	CTROPHOTOMETRY	10.22	mg/dL	8.50 - 10.60
by ARSENAZO III, SPECTROPHOTOMETRY PHOSPHOROUS: SERUM		4.17	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY		U	
ELECTROLYTES		140.4	1./T	105.0 150.0
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	143.4	mmol/L	135.0 - 150.0
POTASSIUM: SERUI		4.97	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		107 55	mmol/L	00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV		107.55	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	30.8		
(eGFR): SERUM by CALCULATED				
NOTE 2		RESULT F	RECHECKED TWICE	
			CORRELATE CLINICALLY	V

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

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



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				EXCELLENCE IN HEALTH	ICARE & DIAGNOSTICS	
	٢	Dr. Vinay Chopra 1D (Pathology & Micro Chairman & Consultant			a m Chopra MD (Pathology) tant Pathologist	
NAME	: Mrs. BHARTI	[
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	. SOIWESH					A
REFERRED BY				ISTRATION DAT		
BARCODE NO.	:01527476			LECTION DATE	: 21/Mar/2025 08:54A	
CLIENT CODE.	: KOS DIAGNOS			ORTING DATE	: 21/Mar/2025 01:20P	PM
CLIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, AMBAI	LA CANTT			
Test Name			Value	Unit	Biological R	Reference interval
 Prerenal azotemia s DECREASED RATIO (<1 Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (i Inherited hyperamin SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide therag Rhabdomyolysis (re Muscular patients v INAPPROPIATE RATIO Diabetic ketoacidos should produce an inc 	(e.g. ureter colos ass (subnormal c tetracycline, gluc D:1) WITH ELEVA (BUN rises dispro- superimposed or 0:1) WITH DECRE osis. d starvation. creased urea sym- urea rather than monemias (urea f inappropiate ar 0:1) WITH INCRE / oy (accelerates co eleases muscle cr who develop ren- sis (acetoacetate creased BUN/cre- apy (interferes w	reatinine production) cocorticoids) FED CREATININE LEVEL oportionately more th n renal disease. ASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine to reatinine). al failure. causes false increase atinine ratio). ith creatinine measure	an creatinine) (e it of extracellula lood). ue to tubular se to creatinine). in creatinine wi	ar fluid). cretion of urea. ith certain method	opathy). dologies,resulting in normal r	ratio when dehydration

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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





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KOS Diagnostic Lab (A Unit of KOS Healthcare)

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BARCODE NO.			COLLECTION D				
CLIENT CODE.	: KOS DIAGNOSTIC L	AB	REPORTING	DATE	:21/Mar/202512	:12PM	
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA (CANTT				
Test Name		Val	ue	Unit	Biologic	al Reference interval	
			VITAMINS				
		VITAMIN D/	25 HYDROXY V	TAMIN D3			
	DROXY VITAMIN D3)		7	ng/mL		INCY: < 20.0	
by CLIA (CHEMILUMIN	ESCENCE IMMUNUASSAY)					CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0	
						Y: > 100.0	
INTERPRETATION:							
	CIENT: FICIENT:	< 20 21 - 2		ng/r			
	ED RANGE:	30 - 100		ng/mL ng/mL			
INTOX	ICATION:	> 100)	ng/r	nL	mals, Vitamin D3), or by	
issue and tightly bo 3. Vitamin D plays a p shosphate reabsoroi 4. Severe deficiency r DECREASED: 1. Lack of sunshine ex 2. Inadequate intake 3. Depressed Hepatic 4. Secondary to advar 5. Osteoporosis and 5 5. Enzyme Inducing d NCREASED: 1. Hypervitaminosis	und by a transport prot primary role in the main tion, skeletal calcium de may lead to failure to m coosure. Malabsorption (celiac Vitamin D 25- hydroxyl need Liver disease Secondary Hyperparathe rugs: anti-epileptic drug D is Rare, and is seen or a and hyperphophatemi ent therapy in deficient <i>individuals as compare t</i>	ein while in circulat tenance of calcium position, calcium n ineralize newly forr disease) ase activity roidism (Mild to Mc as like phenytoin, ph nlv after prolonged a. individuals must be	tion. homeostatis. It pror hobilization, mainly r ned osteoid in bone, derate deficiency) henobarbital and car exposure to extreme monitored by period	notes calcium a equiated by par resulting in rick pamazepine, th ly high doses of lic assessment o	absorption, renal ca athyroid harmone sets in children and at increases Vitami Vitamin D. When i of Vitamin D levels	(PTH). I osteomalacia in adults. n D metabolism. t occurs, it can result in in order to prevent	
CAUTION: Replacement Appervitaminosis D							

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