



'inay Chopra athology & Microbiol nan & Consultant Patl		Dr. Yugam Cl MD (Pat CEO & Consultant Patl	hology)
	PATIE	NT ID :	1814882
	REG. N	O./LAB NO. :	012504020008
			02/Apr/2025 09:37 AM
			02/Apr/2025 04:23PM
AB		TING DATE :	02/Apr/2025 10:14AM
ON ROAD, AMBALA (JANTI		
Val	ue	Unit	Biological Reference interval
SWASTHVA	WFIINI	ESS PANEL: G	
		COUNT (CBC)	
AND INDICES	E BLOOD (
	2.7	gm/dL	12.0 - 16.0
		-	
3 MPEDENCE	3.89	Millions/cmi	m 3.50 - 5.00
3	39.9	%	37.0 - 50.0
GY ANALYZER	02.6 ^H	fL	80.0 - 100.0
SY ANALYZER			
N (MCH) 3 Sy analyzer	32.7	pg	27.0 - 34.0
CONC. (MCHC)	81.9 ^L	g/dL	32.0 - 36.0
GY ANALYZER DW-CV) 1	5.4	%	11.00 - 16.00
GY ANALYZER	н	đ	25.0 56.0
OW-SD) 5 SY ANALYZER	58.9 ^H	fL	35.0 - 56.0
2	26.38	RATIO	BETA THALASSEMIA TRAIT: <
			13.0 IRON DEFICIENCY ANEMIA:
			>13.0
1	27.65	RATIO	BETA THALASSEMIA TRAIT: <= 65.0
			IRON DEFICIENCY ANEMIA:
			65.0
COPY	9090	/cmm	4000 - 11000
CS) N	NIL		0.00 - 20.00
ZER BCS)% N		%	< 10 %
C ZE	DPY (S) I ER	S) NIL	S) NIL R





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

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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. SARLA DEVI **AGE/ GENDER** : 73 YRS/FEMALE **PATIENT ID** :1814882 **COLLECTED BY** :012504020008 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :02/Apr/2025 09:37 AM **BARCODE NO.** :01528195 **COLLECTION DATE** :02/Apr/2025 04:23PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Apr/2025 10:14AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER **DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 71^H 50 - 70 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 19^L % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 5 MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 2000 - 7500 6454 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1727 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 454^H 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 454 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 0 - 110/cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 233000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.29 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 12^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) /cmm 30000 - 90000 104000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 44.5 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.7 % 15.0 - 17.0



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	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa	ology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mrs. SARLA DEVI		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	alue Unit	Biological Reference interval

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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			TING DATE	. 02/ Api/ 2023 12.03FM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CAN I I		
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD	IAEMOGLOBIN (HbA1c):	7 ^H	%	4.0 - 6.4
ESTIMATED AVER	RMANCE LIQUID CHROMATOGRAPHT) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	154.2 ^H	mg/dL	60.00 - 140.00
MILKI KLIAHON.				
	AS PER AMERICAN DI	ABETES ASSOCIATION (ADA): ATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	GETOGSTE	<5.7	
	t Risk (Prediabetes)	5.7 - 6.4		
	iagnosing Diabetes	>= 6.5		
			Age > 19 Years	
		Goals of Ther		< 7.0
There is	the second second second second second second	Actions Suggested:		
Therapeut	ic goals for glycemic control	Actions Sugges	sted: Age < 19 Years	>8.0

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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BARCODE NO.	: 01528195		COLLECTION DATE	: 02/Apr/2025 04:23PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Apr/2025 11:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTI	Г	
Test Name		Value	Unit	Biological Reference interval
	ERYTHROC	CYTE SED	IMENTATION RATE	(ESR)
by RED CELL AGGRECT INTERPRETATION:	EDIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	41 ^H	mm/1st h	
immune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also It systemic lupus erythe CONDITION WITH LOV A low ESR can be seen (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dext	does not tell the health practitioner cted by other conditions besides inf pe used to monitor disease activity watosus V ESR n with conditions that inhibit the no ificantly high white blood cell coun e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of s not change as rapidly as does CRP by as many other factors as is ESR, r ed, it is typically a result of two type we a higher ESR, and menstruation a	r exactly whe lammation. F and response prmal sedime t (leucocytos ; either at the naking it a be so of proteins nd prognancy	re the inflammation is in the or this reason, the ESR is type to therapy in both of the a ntation of red blood cells, si is) , and some protein abno n. e start of inflammation or as etter marker of inflammatior ; globulins or fibrinogen. y can cause temporary eleva	pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.





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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SARLA DEVI : 73 YRS/FEMALE : : : 01528195 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON R	RI RI CO RI	ATIENT ID 2G. NO./LAB NO. 2GISTRATION DATE 2DLECTION DATE 2PORTING DATE	: 1814882 : 012504020008 : 02/Apr/2025 09:37 AM : 02/Apr/2025 04:23PM : 02/Apr/2025 12:15PM
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMIST		STRY
GLUCOSE FASTIN by glucose oxidase	G (F): PLASMA = - peroxidase (god-pod)	GLUCOSE F 138 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma gl 2. A fasting plasma gl test (after consumption 3. A fasting plasma gl	on of 75 ams of alucose) is	dl is considered normal. 125 mg/dl is considered a recommended for all such ng/dl is highly suggestive o	n patients. of diabetic state. A repe	prediabetic. A fasting and post-prandial blood eat post-prandial is strongly recommended for al natory for diabetic state.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LUCOSE POST PH	RANDIAL (PP)	
	RANDIAL (PP): PLASMA E - PEROXIDASE (GOD-POD)	218.94 ^H	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0

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IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A post-prandial glucose level between 140 - 200 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.
 A post-prandial plasma glucose level of above 200 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





NAME : Mrs. SARLA DEVI AGE/ GENDER : 73 YRS/FEMALE COLLECTED BY : REFERRED BY : BARCODE NO. : 01528195 CLIENT CODE. : KOS DIAGNOSTIC LAB CLIENT ADDRESS : 6349/1, NICHOLSON R Test Name CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	Consultant Pathologi		n Chopra (Pathology) t Pathologist
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CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	OAD, AMBALA CANT	г	
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	Value	Unit	Biological Reference interval
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	LIPID PR	OFILE : BASIC	
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	207.92 ^H	mg/dL	OPTIMAL: < 200.0
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			BORDERLINE HIGH: 200.0 -
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			239.0 HIGH CHOLESTEROL: > OR =
by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			240.0
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	174.68 ^H	mg/dL	OPTIMAL: < 150.0
by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	174.00		BORDERLINE HIGH: 150.0 -
by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			199.0
by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	52.68	mg/dL	LOW HDL: < 30.0
by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	02.00	ing di	BORDERLINE HIGH HDL: 30.0
by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			60.0
by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY			HIGH HDL: $> OR = 60.0$
NON HDL CHOLESTEROL: SERUM by Calculated, spectrophotometry VLDL CHOLESTEROL: SERUM	120.3	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM			159.0
by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM			HIGH: 160.0 - 189.0
by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM			VERY HIGH: $> OR = 190.0$
VLDL CHOLESTEROL: SERUM	155.24 ^H	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
by CALCULATED, SPECTKUPHUTUMETKY	34.94	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM	590.52	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOMETRY	570.52		
CHOLESTEROL/HDL RATIO: SERUM	3.95	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0

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yhoira

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 02/Apr/2025 11:18AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE	-	2.28	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	3.32	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.

 Cow HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. SARLA DEVI			
AGE/ GENDER	: 73 YRS/FEMALE		PATIENT ID	: 1814882
COLLECTED BY			REG. NO./LAB NO.	: 012504020008
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Test Name		Value	Unit	Biological Reference interval
			N TEST (COMDLETE	
			N TEST (COMPLETE	
BILIRUBIN TOTAL		0.75	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SF	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.18	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.57	mg/dL	0.10 - 1.00
SGOT/AST: SERUN	Л /RIDOXAL PHOSPHATE	19.62	U/L	7.00 - 45.00
SGPT/ALT: SERUM	1	11.37	U/L	0.00 - 49.00
•	RIDOXAL PHOSPHATE	1.73	RATIO	0.00 - 46.00
AST/ALT RATIO: S by CALCULATED, SPE		1.73	KATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	146.36 ^H	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUN PHTOMETRY	M 27.61	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO	: SERUM	7.32	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.26	gm/dL	3.50 - 5.50
by BROMOCRESOL G			0	-
GLOBULIN: SERUN		3.06	gm/dL	2.30 - 3.50
by CALCULATED, SPE				
A : G RATIO: SERU		1.39	RATIO	1.00 - 2.00
by CALCULATED, SPE	CIROPHUIUMEIRY			

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





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	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology) M	am Chopra ID (Pathology) ant Pathologist
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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly I	ncreased)

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).

DDOONIOCTIC	CICNIIFICANICE.
PRUGNUNTI.	SIGNIFICANCE:
110001000110	SIGINITION HOL.

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



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Test Name		Value	Unit	Biological Reference interv
	KIDNE	Y FUNCTIO	ON TEST (COMPLET)	E)
UREA: SERUM		22.84	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)			
CREATININE: SER		0.92	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC		10.67	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		10.07	ing/dE	1.0 25.0
	ROGEN (BUN)/CREATININE	11.6	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININ		24.83	RATIO	
	ECTROPHOTOMETRY	21.05	in in in iteration	
URIC ACID: SERUN		5.14	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM		9.54	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		9.54	ing/uL	8.50 - 10.00
PHOSPHOROUS: S		3.69	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM		144	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM		4.46	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUN		108	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE) MERULAR FILTERATION RAT	Ŧ		
ESTIMATED GLON (eGFR): SERUM	MERULAR FILTERATION RATE	65.7		
by CALCULATED				
INTERPRETATION:				
To differentiate betw	een nre- and nost renal azotemia			

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





GE/ GENDER 73 YRS/FEMALE PATIENT ID : 1814882 OLLECTED BY : REG. NO./LAB NO. : 012504020008 HEFERRED BY : REGISTRATION DATE : 02/Apr/2025 09:37 AM SARCODE NO. : 01528195 COLLECTION DATE : 02/Apr/2025 04:23PM LIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 02/Apr/2025 12:15PM LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval Catabolic states with increased tissue breakdown. GI haemorrhage. . . Biological Reference interval . Catabolic states with increased tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, turns, surgery, cachexia, high fever). . . Urine reabsorption (e.g. ureter colostomy) Reduced muscle mass (ubnormal creatinine production) Petrenal azotemia (BUN rises disproprotionately more than creatinine) (e.g. obstructive uropathy). . . Prerenal azotemia superimposed on renal disease. . . VALUE PROFESS Ow protein diet and starvation. . <		MD (Patholo	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		gam Chopra MD (Pathology) Itant Pathologist	
CULECTED BY I: REG. NO. / LAB NO. I: 012594020008 REFERED BY I: REGISTRATION DATE I: 02/Apr/2025 09:37 AM CARCODE NO. I: 1528195 COLLECTION DATE I: 02/Apr/2025 04:23PM LIENT CODE I: KOS DIAGNOSTIC LAB REPORTING DATE I: 02/Apr/2025 12:15PM LIENT ADDRESS I: 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval I: Catabolic states with increased tissue breakdown. I: 61 haemorrhage. I: high protein intake Biological Reference interval I: Catabolic states with increased tissue breakdown. I: 6. Inaemorrhage. I: high protein intake I: Research intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, surgery, cachexia, high fever). I. Urine reabsorption (e.g. ureter colostomy) I: Reduced muscle mass (subnormal creatinine production) I: Grand drugs (e.g. tetracycline, glucocorticoids) NCREASED RATIO (2-201) WITH LEVATED CREATININE LEVELSI: I: Porenal azotemia (BUN rise disproportionately more than creatinine) (e.g. obstructive uropathy). I: Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). I: Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). I: Prerenal azotemia (BUN rises disproportionately more than creatinine or extracellul	NAME	: Mrs. SARLA DEVI				
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ELERT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Feet Name Value Unit Biological Reference interval 1. Catabolic states with increased tissue breakdown. . <t< td=""><td></td><td></td><th></th><th></th><th>•</th><th></th></t<>					•	
Test Name Value Unit Biological Reference interval Catabolic states with increased tissue breakdown. .	CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:02/Apr/2025 12:15PM	
 Catabolic states with increased tissue breakdown. Catabolic states with increased tissue breakdown. GI haemorrhage. High protein intake. Impaired renal function plus Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, jurns, surgery, cachexia, high fever). Urine reabsorption (e.g. ureter colostomy) Reduced muscle mass (subnormal creatinine production) Certain drugs (e.g. tetracycline, glucocorticoids) NCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). Prerenal azotemia superimposed on renal disease. DECREASED RATIO (>10:1) WITH DECREASED BUN : Acute tubular necrosis. Low protein diet and starvation. Severe liver disease. Other causes of decreased urea synthesis. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). Inherited hyperammonemias (urea is virtually absent in blood). SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea. Pregnancy. VERCEASED RATIO (<10:1) WITH INCREASED CREATININE: Phenacimide therapy (accelerates conversion of creatine to creatinine). Rabdomyolysis (releases muscle creatinine). Rabdomyolysis (releases muscle creatinine). Rabdomyolysis (acetoracet accounces of decrease false increase in creatinine). Muscular patients who develop renal faliure. Napprophate RATIO Diabetic ketoacidosis (acet	CLIENT ADDRESS	: 6349/1, NICHOLSON RC	OAD, AMBALA CANTT			
 Catabolic states with increased tissue breakdown. Catabolic states with increased tissue breakdown. GI haemorrhage. High protein intake. Impaired renal function plus Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, jurns, surgery, cachexia, high fever). Urine reabsorption (e.g. ureter colostomy) Reduced muscle mass (subnormal creatinine production) Certain drugs (e.g. tetracycline, glucocorticoids) NCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). Prerenal azotemia superimposed on renal disease. DECREASED RATIO (>10:1) WITH DECREASED BUN : Acute tubular necrosis. Low protein diet and starvation. Severe liver disease. Other causes of decreased urea synthesis. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). Inherited hyperammonemias (urea is virtually absent in blood). SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea. Pregnancy. VERCEASED RATIO (<10:1) WITH INCREASED CREATININE: Phenacimide therapy (accelerates conversion of creatine to creatinine). Rabdomyolysis (releases muscle creatinine). Rabdomyolysis (releases muscle creatinine). Rabdomyolysis (acetoracet accounces of decrease false increase in creatinine). Muscular patients who develop renal faliure. Napprophate RATIO Diabetic ketoacidosis (acet	Test Name		Value	Unit	Biological Refere	ence interval
8. Muscular patients who develop renal failure. NAPPROPIATE RATIO: . Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydrat hould produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement).	 Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<' 	nd starvation. e. creased urea synthesis. (urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 10:1) WITH INCREASED CREA (py (accelerates conversion)	absent in blood). harmone) due to tubul TININE:	ar secretion of urea.		
. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydrat hould produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement).	3. Muscular patients	who develop renal failure.				
2. Cephalosporin therapy (interferes with creatinine measurement).	1. Diabetic ketoacido	sis (acetoacetate causes fal		e with certain metho	dologies,resulting in normal ratio v	when dehydratio
c. Cephalosporth therapy (Interferes with creatinine measurement).						
	2. Cephalosporin thei ESTIMATED GLOMERI	rapy (interferes with creatin	ine measurement).			

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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NAME	: Mrs. SARLA DEVI		
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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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CLIENT ADDRESS	: 6349/1, NICHO	DLSON ROAD, AMBALA CANTT				
Test Name		Value		Unit	Biological Reference int	erva
URINE VOLUME: 2 by SPECTROPHOTOM PROTEINS: 24 HOU by BIURET, SPECTRO INTERPRETATION:	ETRY JRS URINE PHOTOMETRY	CLINICAL PROTEINS: 2 1100 58.19	4 HOURS U	RINE mL mg/ 24 HOURS	25 - 160	
TYPES OF PR	ROTEINURIA	TOTAL PROTEINS IN mg/2	24 HOURS	CONDI	TIONS	
MINIMAL PR	oteinuria:	150 - 500 mg/24 hc	ours	Chronic pyelone Interstial Nephrit disease,	s, Renal Tubular	
MODERATE P	ROTEINURIA:	500 - 1000 mg/24 h	ours N	Nephrosclerosis, N Toxic Nephropath		
HEAVY PRC	DTEINURIA:	1000 - 3000 mg/24 h	m	Nephrotic Syndror Progressive Glomeruloneph	ne, Acute Rapidly & Chronic Iritis, Diabetes thematosus, Druga Heavy metals like	

NOTE:

1. Excreation of total protein in individuals is highly variable with or without kidney disease.

2. Conditions affecting protein excreation other than kidney didease are urinary tract infection, diet, mensturation & physical activity.

COMMENT:

1. Diagnosis of kidney disease and response to therapy is usually obtained by quatitattively analyzing the amount of protein excreated in urine over a 24 hour period.

*** End Of Report ***





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