



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. RENU			
AGE/ GENDER	: 54 YRS/FEMALE		PATIENT ID	: 1512449
COLLECTED BY	:		REG. NO./LAB NO.	:042412040004
REFERRED BY	:		REGISTRATION DATE	:04/Dec/2024 10:12 AM
BARCODE NO.	: A1260044		COLLECTION DATE	:04/Dec/2024 11:12AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 04/Dec/2024 11:23AM
LIENI ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	SWASTE	IYA WEL	LNESS PANEL: 15.	0
			OOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES		(02 00 0111 (02 0)	
AEMOGLOBIN (H		14.4	gm/dL	12.0 - 16.0
by CALORIMETRIC	DDC) COUNT	7 40H	Millions/	′cmm 3.50 - 5.00
	COUSING, ELECTRICAL IMPEDENCE	5.13 ^H		Chini 3.50 - 5.00
PACKED CELL VOLU	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	46.6	%	37.0 - 50.0
IEAN CORPUSCUL	AR VOLUME (MCV)	90.9	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	28.1	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.9 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.9	%	11.00 - 16.00
	UTION WIDTH (RDW-SD)	50.9	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	17.72	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		17.72	IATIO	13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND	DEX	26.43	RATIO	BETA THALASSEMIA TRAIT:<>
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			
		8550	/cmm	4000 - 11000
				0.00 - 20.00
by FLOW CYTOMETRY NUCLEATED RED B	BLOOD CELLS (nRBCS)	NIL		
NUCLEATED RED B		NIL NI	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra

EXCELLENCE IN MEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. RENU AGE/ GENDER : 54 YRS/FEMALE **PATIENT ID** :1512449 **COLLECTED BY** :042412040004 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :04/Dec/2024 10:12 AM :A1260044 **BARCODE NO. COLLECTION DATE** :04/Dec/2024 11:12AM CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** :04/Dec/2024 11:23AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 53 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 37 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4532 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3164 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 171 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 684 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 203000 150000 - 450000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.3 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 15^H 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 121000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 59.5^H 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.7% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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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CLIENT CODE.	: KOS DIAGNOSTIC SHA	HBAD	REPORTING DATE	:04/Dec/2024 12:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON I	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	Cl	INICAL CHEMIS	TRY/BIOCHEMIST	'RY
		GLUCOSE	FASTING (F)	

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.

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
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	287.91 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		207.51	0	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
FRIGLYCERIDES: S		258.84 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	PHATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTERO	L (DIRECT): SERUM	39.71	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
by GLEEOTIVE INTIBIT				60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI by CALCULATED, SPE		196.43 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
by CALCOLATED, OF L				BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES	TEROL: SERUM	248.2 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE			0	ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
VLDL CHOLESTER(by CALCULATED, SPE		51.77 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	RUM	834.66 ^H	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HD		7.05H	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE		7.25 ^H	KATIO	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		4.95 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL RATIO: SERUM	6.52 ^H	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		0.42	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.09	mg/dL	0.00 - 0.40
	CCT (UNCONJUGATED): SERUM	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	21.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[/RIDOXAL PHOSPHATE	19.2	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.14	RATIO	0.00 - 46.00
ALKALINE PHOSPI		106.8	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	23.2	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.52	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.8	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		3.72 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.02	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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Test Name	Value	Unit	Biological 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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Test Name		Value	Unit	Biological Reference interv
	KIDNE	Y FUNCTION	N TEST (COMPLETE)	
UREA: SERUM		21.45	mg/dL	10.00 - 50.00
CREATININE: SERUN	TE DEHYDROGENASE (GLDH) M	0.97	mg/dL	0.40 - 1.20
by ENZYMATIC, SPECTROPHOTOMETERY				
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		10.02	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	10.33	RATIO	10.0 - 20.0
RATIO: SERUM	TROPHOTOMETRY			
by CALCULATED, SPEC UREA/CREATININE		22.11	RATIO	
by CALCULATED, SPEC				
URIC ACID: SERUM by URICASE - OXIDASE	PEROXIDASE	6.1	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.75	mg/dL	8.50 - 10.60
by ARSENAZO III, SPEC PHOSPHOROUS: SER		3.49	mg/dL	2.30 - 4.70
	TE, SPECTROPHOTOMETRY	3.49	ilig/ uL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM		138	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE POTASSIUM: SERUM		4.1	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE				
CHLORIDE: SERUM by ISE (ION SELECTIVE	ELECTRODE)	103.5	mmol/L	90.0 - 110.0
, ,	ERULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	69.4		
(eGFR): SERUM				
by CALCULATED INTERPRETATION:				

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





0 5001.2000 CLATITIES END							
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Test Name			Value	Unit	Biologica	l Reference interval	
6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r	Acreased urea s (urea rather th monemias (ur of inappropiate 10:1) WITH INC (py (accelerate eleases muscl	an creatinine diffuses o ea is virtually absent in e antidiuretic harmone) REASED CREATININE: is conversion of creatine e creatinine).	blood). due to tubular	secretion of urea.			
should produce an in	: sis (acetoacet creased BUN/	ate causes false increase creatinine ratio).		with certain metho	odologies,resulting in norm	al ratio when dehydratic	
2. Cephalosporin ther ESTIMATED GLOMERU	rapy (interfere JI AR FII TFRAT	s with creatinine measur	rement).				
CKD STAGE		DESCRIPTION	GFR (mL/	min/1.73m2)	ASSOCIATED FINDINGS	7	
G1	N	ormal kidney function		>90	No proteinuria]	
G2		Kidney damage with		>90	Presence of Protein ,		
		normal or high GFR		0.00	Albumin or cast in urine	4	
G3a		Vild decrease in GFR		0 -89		4	
G3b		oderate decrease in GFR		0-59		4	
G4	S	evere decrease in GFR		5-29		-	



G5



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

Kidney failure

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

<15









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Test Name	1	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 FR category reported as per KDIGO guideline 2012

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

End Of Report ***





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