



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. RAJBINDER KAUR			
AGE/ GENDER	: 60 YRS/FEMALE		PATIENT ID	: 1579039
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408130025
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 13/Aug/2024 09:39 AM
BARCODE NO.	:01514994		COLLECTION DATE	: 13/Aug/2024 09:46AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Aug/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA W	ELLNESS PANEL: G	
	CON	APLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		13	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE	BC) COUNT	7.22 <sup>H</sup>	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLUN		42.4	%	37.0 - 50.0
MEAN CORPUSCULA		58.6 <sup>L</sup>	fL	80.0 - 100.0
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER IR HAEMOGLOBIN (MCH)	18 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	30.7 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	automated hematology analyzer FION WIDTH (RDW-CV)	16.8 <sup>H</sup>	%	11.00 - 16.00
RED CELL DISTRIBUT	automated hematology analyzer TON WIDTH (RDW-SD)	36.9	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX by CALCULATED	AUTOMATED HEMATOLOGY ANALYZER	8.12	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	13.63	RATIO	BETA THALASSEMIA TRAIT: < = 65.0
WHITE BLOOD CELL	S (WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE C	COUNT (TLC)	7170	/cmm	4000 - 11000
NUCLEATED RED BLO	y by sf cube & microscopy DOD CELLS (nRBCS) automated hematology analyzer &	NIL		0.00 - 20.00
NUCLEATED RED BLO by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) % automated hematology analyzer & DCYTE COUNT (DLC)	NIL	%	< 10 %



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Test Name		Value	Unit	Biological Reference interval	
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	61	%	50 - 70	
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	24	%	20 - 40	
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	7 <sup>H</sup>	%	1 - 6	
MONOCYTES	Y BY SF CUBE & MICROSCOPY	8	%	2 - 12	
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1	
ABSOLUTE LEUKOCY	TES (WBC) COUNT				
ABSOLUTE NEUTROF		4374	/cmm	2000 - 7500	
ABSOLUTE LYMPHO		1721	/cmm	800 - 4900	
ABSOLUTE EOSINOP	Y BY SF CUBE & MICROSCOPY PHIL COUNT Y BY SF CUBE & MICROSCOPY	502 <sup>H</sup>	/cmm	40 - 440	
ABSOLUTE MONOCY		574	/cmm	80 - 880	
PLATELETS AND OTH	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>			
PLATELET COUNT (PLATELET COUNT (PLATELET COUNT)	LT) FOCUSING, ELECTRICAL IMPEDENCE	159000	/cmm	150000 - 450000	
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.18	%	0.10 - 0.36	
MEAN PLATELET VO	LUME (MPV)	12	fL	6.50 - 12.0	
PLATELET LARGE CEL	OCUSING, ELECTRICAL IMPEDENCE LL COUNT (P-LCC) OCUSING, ELECTRICAL IMPEDENCE	65000	/cmm	30000 - 90000	
PLATELET LARGE CEI		40.6	%	11.0 - 45.0	
PLATELET DISTRIBUT		15.5	%	15.0 - 17.0	



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		0
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEN	IOGLOBIN (HBA1C)	
GLYCOSYLATED HAEMO	DGLOBIN (HbA1c):	6	%	4.0 - 6.4
WHOLE BLOOD	IANCE LIQUID CHROMATOGRAPHY)			
ESTIMATED AVERAGE F		125.5	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM INTERPRETATION:	IANCE LIQUID CHROMATOGRAPHY)			
INTERFRETATION.				
		BETES ASSOCIATION (ADA		
	FERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC)		n %
	etic Adults >= 18 years	<5.7		
	Risk (Prediabetes) gnosing Diabetes		5.7 - 6.4 >= 6.5	
Dia	קווט אווע שמשנים איינטאוין איינטאוין איינטאוין		Age > 19 Years	
		Goals of Therapy	<u> </u>	0
Therapeutic	goals for glycemic control	Actions Suggestee		
			Age < 19 Years	

### 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

<7.5

Goal of therapy:

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

4.High 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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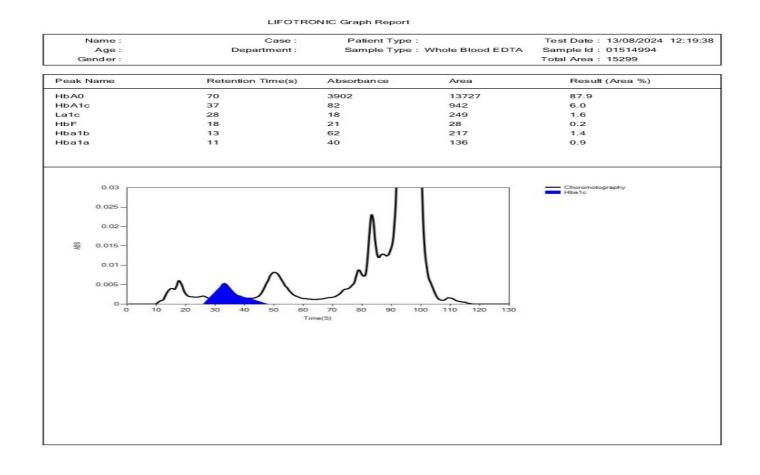
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			/
Test Name		Value Unit	<b>Biological Reference interval</b>







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Test Name		Value	Unit	Biological Reference interval
	ED)/			2
			MENTATION RATE (ESP	
	IENTATION RATE (ESR)	/	mm/1st h	r 0-20
(polycythaemia), sign as sickle cells in sickl <b>NOTE:</b> 1. ESR and C - reactive 2. Generally, ESR doe 3. <b>CRP is not affected</b> 4. If the ESR is elevate 5. Women tend to ha	V ESR h with conditions that inhibit t ificantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both mark is not change as rapidly as doe by as many other factors as is ed, it is typically a result of two we a higher ESR, and menstrua ran, methyldopa, oral contrac	count (leucocytosi ESR. ers of inflammatior s CRP, either at the <b>ESR, making it a bet</b> o types of proteins, tion and pregnancy	s), and some protein abnor start of inflammation or as tter marker of inflammation globulins or fibrinogen. can cause temporary eleva	
5. Drugs such as dext aspirin, cortisone, an	d quinine may decrease it		në procainamide, theophyl	line, and vitamin A can increase ESR, while





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS				
CLIENT ADDRESS		Value	BIOCHEMISTR	

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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		nopraDr. Yugam Chopra& Microbiology)MD (Pathology)nsultant PathologistCEO & Consultant Pathologist		
AGE/ GENDER : 60 COLLECTED BY : SUI REFERRED BY : BARCODE NO. : 015 CLIENT CODE. : KO	<b>'s. RAJBINDER KAUR</b> YRS/FEMALE RJESH 514994 S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD	REG. N REGIS COLLI REPO	ENT ID NO./LAB NO. TRATION DATE ECTION DATE RTING DATE	: 1579039 <b>: 012408130025</b> : 13/Aug/2024 09:39 AM : 13/Aug/2024 09:46AM : 13/Aug/2024 10:58AM
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAL: SER by CHOLESTEROL OXIDASE		136.3	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.4
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE	OXIDASE (ENZYMATIC)	264.99 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIREC by SELECTIVE INHIBITION	T): SERUM	36.48	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUN by CALCULATED, SPECTROF		46.82	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 CHOLESTEROL: S by CALCULATED, SPECTROF		99.82	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 CHOLESTEROL: SERU by CALCULATED, SPECTRON		53 <sup>H</sup>	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM		537.59	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROF CHOLESTEROL/HDL RATIO by CALCULATED, SPECTROF	: SERUM	3.74	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROF	PHOTOMETRY	1.28	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		7.26 <sup>H</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 were with at least are parent with black total abelesterol is

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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CLIENT ADDRESS	. 0545/ 1, Menolson Road, Ar	VIDALA CANT I		
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION	I TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.44	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (0	CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.29	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	19.1	U/L	7.00 - 45.00
SGPT/ALT: SERUM		55.6 <sup>H</sup>	U/L	0.00 - 49.00
by IFCC, WITHOUT PY AST/ALT RATIO: SER	(RIDOXAL PHOSPHATE	0.34	RATIO	0.00 - 46.00
by CALCULATED, SPE		0.34	KATIO	0.00 - 40.00
ALKALINE PHOSPHA		86.64	U/L	40.0 - 130.0
	. TRANSFERASE (GGT): SERUM PHTOMETRY	39.93	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO	ERUM	6.77	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.13	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY	2.64	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPE	I	1.56	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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#### 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



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

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BARCODE NO.	: 01514994	C	COLLECTION DATE	: 13/Aug/2024 09:46AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	REPORTING DATE	: 13/Aug/2024 10:58AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	КІ		N TEST (COMPLETE)		
UREA: SERUM		25.96	mg/dL	10.00 - 50.00	
	NATE DEHYDROGENASE (GLDH)	1.01			
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		1.01	mg/dL	0.40 - 1.20	
		12.13	mg/dL	7.0 - 25.0	
by CALCULATED, SPECTROPHOTOMETRY		12.01	RATIO	10.0 - 20.0	
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM		12.01	KATIO	10.0 - 20.0	
by CALCULATED, SPE	ECTROPHOTOMETRY				
UREA/CREATININE F		25.7	RATIO		
by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM		5.7	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS	SE PEROXIDASE	0.44			
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY		9.44	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SERUM		3.5	mg/dL	2.30 - 4.70	
-	DATE, SPECTROPHOTOMETRY				
ELECTROLYTES		127.2	mmal //	125.0 150.0	
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		137.2	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM		4.3	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM		102.9	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV	/E ELECTRODE)	102.7	TITIO/L	70.0 - 110.0	
ESTIMATED GLOME	RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	63.7			
(eGFR): SERUM					

# 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.



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9001.2008 CENT				EXCELENCE IN HEALTHCAN	a bindhostics	
	М	<b>Pr. Vinay Chopra</b> D (Pathology & Microl hairman & Consultant		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
IAME	: Mrs. RAJBIND	ER KAUR				
GE/ GENDER	: 60 YRS/FEMAI	Æ	PATIE	INT ID	: 1579039	
OLLECTED BY	: SURJESH		REG. N	IO./LAB NO.	:012408130025	
EFERRED BY				TRATION DATE	: 13/Aug/2024 09:3	9 AM
ARCODE NO.	: 01514994			ECTION DATE	: 13/Aug/2024 09:4	
LIENT CODE.	: KOS DIAGNOS'			RTING DATE	: 13/Aug/2024 10:5	
				KIING DAIE	. 13/ Aug/ 2024 10.5	OAM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBAI	LA CANTI			
Test Name		1	/alue	Unit	Biological	Reference interval
5. Inherited hyperam 7. SIADH (syndrome o 3. Pregnancy. <b>DECREASED RATIO (</b> <	10:1) WITH DECREA rosis. end starvation. ecreased urea synt (urea rather than o imonemias (urea is of inappropiate an 10:1) WITH INCREA	ASED BUN : hesis. creatinine diffuses ou s virtually absent in bi tidiuretic harmone) du SED CREATININE:	lood). ue to tubular secr	·		
<ol> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>hould produce an in</li> </ol>	eleases muscle cro who develop rena sis (acetoacetate o creased BUN/crea rapy (interferes wi	Il failure. causes false increase itinine ratio). th creatinine measure	in creatinine with	n certain methodol	ogies,resulting in norma	ıl ratio when dehydratio
CKD STAGE		DESCRIPTION	GFR ( mL/min	/1.73m2) As	SSOCIATED FINDINGS	]
G1	Norm	al kidney function	>90		No proteinuria	]
G2		ney damage with	>90		Presence of Protein,	
G3a		mal or high GFR decrease in GFR	60 -8		oumin or cast in urine	4
630			00-8			4

	normal or high GFR		Albumin or
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. RAJBINDER KAUR		
AGE/ GENDER	: 60 YRS/FEMALE	PATIENT ID	: 1579039
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012408130025
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 13/Aug/2024 09:39 AM
BARCODE NO.	: 01514994	<b>COLLECTION DATE</b>	: 13/Aug/2024 09:46AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 13/Aug/2024 10:58AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	
Test Name	Value	Unit	<b>Biological Reference interval</b>

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

End Of Report \*\*\*





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