



	Dr. Vinay Chopr. MD (Pathology & Micr Chairman & Consultar	robiology)		Pathology)	
IAME	: Miss. SIMRAN PUNIA				
GE/ GENDER	: 28 YRS/FEMALE		PATIENT ID	: 1684533	
COLLECTED BY	:		REG. NO./LAB NO.	:012411280009	
REFERRED BY	:		REGISTRATION DATE	: 28/Nov/2024 09:20 AM	
BARCODE NO.	: 01521582		COLLECTION DATE	: 28/Nov/2024 09:33AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Nov/2024 10:17AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
Test Name		Value	Unit	Biological Refe	rence interval
	SWAST	THYA WE	ELLNESS PANEL: D		
	COME	PLETE BLO	DOD COUNT (CBC)		
ED BLOOD CELL	<u>S (RBCS) COUNT AND INDICES</u>				
HAEMOGLOBIN (H	B)	12.3	gm/dL	12.0 - 16.0	
by CALORIMETRIC RED BLOOD CELL ((RBC) COUNT	4.82	Millions/	cmm 3.50 - 5.00	
-	FOCUSING, ELECTRICAL IMPEDENCE	20.0	%	27.0 50.0	
PACKED CELL VOL by CALCULATED BY A	UNIE (PCV) AUTOMATED HEMATOLOGY ANALYZER	38.6	70	37.0 - 50.0	
	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	80.1	fL	80.0 - 100.0	
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	25.4 ^L	pg	27.0 - 34.0	
	AUTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	31.7 ^L	g/dL	32.0 - 36.0	
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER				
	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	13.8	%	11.00 - 16.00	
	UTION WIDTH (RDW-SD)	41.5	fL	35.0 - 56.0	
MENTZERS INDEX	AUTOWATED HEMATOLOGY ANALYZER	16.62	RATIO	BETA THALASS	SEMIA TRAIT: <
by CALCULATED				13.0	ICV ANDATA
				IRON DEFICIEN >13.0	NUY ANEMIA:
GREEN & KING INI	DEX	22.83	RATIO	BETA THALASS	SEMIA TRAIT:<
by CALCULATED				65.0 IRON DEFICIEN	ΙCY ΔΝΕΜΙΔ· ֊
				65.0	√1 / IIIIIIA. <i>></i>
VHITE BLOOD CE					
OTAL LEUCOCYTI by FLOW CYTOMETR	E COUNT (TLC) y by sf cube & microscopy	11240 ^H	/cmm	4000 - 11000	
NUCLEATED RED E	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00	
,	RT HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) %	NIL	%	< 10 %	
	AUTOMATED HEMATOLOGY ANALYZER				

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Miss. SIMRAN PUNIA AGE/ GENDER : 28 YRS/FEMALE **PATIENT ID** :1684533 **COLLECTED BY** :012411280009 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 28/Nov/2024 09:20 AM **BARCODE NO.** :01521582 **COLLECTION DATE** : 28/Nov/2024 09:33AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Nov/2024 10:17AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 71^H % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 20^L % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 1 % 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 2000 - 7500 7980^H /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2248 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 112 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 899^H /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0.0 - 999.00 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 394000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.4^H % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 108000^H /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 27.5% 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 16.1% 15.0 - 17.0

Dr. Vinay Chopra

PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence



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



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	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path	G, /	(Pathology)
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Test Name	Valu	ie Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. SIMRAN PUNIA			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	TING DATE	: 28/Nov/2024 10:38AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
systemic lupus eryth CONDITION WITH LO A low ESR can be see polycythaemia), sig	ematosus W ESR en with conditions that inhibit the	normal sedimentation of	red blood cells, si	bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suc
is síckle cells in sick IOTE:				
as síckle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR dog 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dex	e protein (C-RP) are both markers es not change as rapidly as does Cl I by as many other factors as is ESR red, it is typically a result of two ty ave a higher ESR, and menstruation tran, methyldopa, oral contracept nd quinine may decrease it	RP, either at the start of i a making it a better mark pes of proteins, globulins and pregnancy can caus	er of inflammatior or fibrinogen. e temporary eleva	





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CLIENT ADDRESS	: 6349/1, NICHOI	SON ROAD, AMBA	LA CANTT		
Test Name	_		Value	Unit	Biological Reference interval
		CLINICAL (CHEMISTRY/	BIOCHEMIST	'nY
		G	LUCOSE FAST	ING (F)	
GLUCOSE FASTING	G (F): PLASMA Se - peroxidase (god		88.67	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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

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 ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		158.07	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	63.56	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	62.12	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		83.24	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		95.95	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 CHOLESTER(12.71	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	CUM	379.7	mg/dL	350.00 - 700.00
CHOLESTEROL/HE	DL RATIO: SERUM	2.54	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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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.34	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	1.02 ^L	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.

 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.
 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 Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Miss. SIMRAN PUNIA AGE/ GENDER : 28 YRS/FEMALE **PATIENT ID** :1684533 **COLLECTED BY** REG. NO./LAB NO. :012411280009 **REFERRED BY REGISTRATION DATE** : 28/Nov/2024 09:20 AM **BARCODE NO.** :01521582 **COLLECTION DATE** : 28/Nov/2024 09:33AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Nov/2024 12:16PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Test Name **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) BILIRUBIN TOTAL: SERUM 0.61 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.16 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.45 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY 28.97.00 - 45.00 SGOT/AST: SERUM U/L by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 34.7 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 0.83 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 103.79 U/L 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 37.12 U/L 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 7.24 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.44gm/dL 3.50 - 5.50

by BROMOCRESOL GREEN 2.8 **GLOBULIN: SERUM** gm/dL by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.59 RATIO 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:

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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2.30 - 3.50

1.00 - 2.00





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	Dr. Vinay Cho	pra I Dr Yuga	m Chopra

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



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Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTIO)N TEST (COMPLETE)	
UREA: SERUM		21.52	mg/dL	10.00 - 50.00
CREATININE: SER	MATE DEHYDROGENASE (GLDH) UM	0.83	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC	CTROPHOTOMETERY			
	ROGEN (BUN): SERUM	10.06	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	12.12	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININ		25.93	RATIO	
-	ECTROPHOTOMETRY	0.70	. / 11	0.50, 0.00
URIC ACID: SERUN by URICASE - OXIDAS		3.76	mg/dL	2.50 - 6.80
CALCIUM: SERUM		10.15	mg/dL	8.50 - 10.60
PHOSPHOROUS: SI	ECTROPHOTOMETRY ERIIM	3.52	mg/dL	2.30 - 4.70
by PHOSPHOMOLYB	DATE, SPECTROPHOTOMETRY	0.02	ing, ui	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	144.3	mmol/L	135.0 - 150.0
POTASSIUM: SERU	Μ	4.05	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN CHLORIDE: SERUM		108.23	mmol/L	90.0 - 110.0
by ISE (ION SELECTIN		100.23	IIIII01/ L	30.0 - 110.0
ESTIMATED GLON	MERULAR FILTERATION RATE			
	IERULAR FILTERATION RATE	98.4		
(eGFR): SERUM by CALCULATED				
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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IAME	: Miss. SIMRA	N PUNIA						
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CLIENT ADDRESS	: 6349/1, NICF	IOLSON ROAD, AMB	ALA CANTT					
Test Name			Value	Un	it	Biologica	al Reference i	nterval
1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<	a (BUN rises dispr superimposed of 10:1) WITH DECRE			e) (e.g. obstructive	e uropathy).			
 Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido 	a (BUN rises dispr superimposed of 10:1) WITH DECRE osis. Ind starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates c eleases muscle c who develop rer sis (acetoacetate creased BUN/cre rapy (interferes w JLAR FILTERATION Norn Kic	TED CREATININE LEVE coportionately more to n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creatine reatinine). tal failure. e causes false increas tatinine ratio). vith creatinine measu I RATE: DESCRIPTION nal kidney function Iney damage with	han creatinine but of extracel blood). due to tubular e to creatinine e in creatinine rement).	lular fluid). r secretion of urea).	hodologies,res ASSOCIATE No pro Presence	D FINDINGS Iteinuria of Protein ,	nal ratio when c	lehydrat
Postrenal azotemia Prerenal azotemia CeckeASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Rabdomyolysis (r Rhabdomyolysis (r Rhabdomyolysis (r Raperoplate RATIO Diabetic ketoacido should produce an in Cephalosporin there STIMATED GLOMERI CKD STAGE G1 G2	a (BUN rises dispr superimposed of 10:1) WITH DECRE osis. Ind starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE upy (accelerates c eleases muscle c who develop rer sis (acetoacetate creased BUN/cre rapy (interferes w JLAR FILTERATION Norn Norn Kic no	TED CREATININE LEVE coportionately more to n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creatine reatinine). tal failure. e causes false increas tatinine ratio). vith creatinine measu I RATE: DESCRIPTION mal kidney function Iney damage with tormal or high GFR	han creatinine but of extracel blood). due to tubular e to creatinine rement).	lular fluid). r secretion of urea). e with certain met <u>/min/1.73m2)</u> >90 >90	hodologies,res ASSOCIATE No pro Presence	D FINDINGS Iteinuria	nal ratio when c	lehydrat
 Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia Prezenal azotemia Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. PCEREASED RATIO (Rhabdomyolysis (r Muscular patients MAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin there ESTIMATED GLOMERI G1 	a (BUN rises dispr superimposed of 10:1) WITH DECRE osis. Ind starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates c eleases muscle c who develop rer sis (acetoacetate creased BUN/cre rapy (interferes w JLAR FILTERATION Norn Kic Norn Kic Norn	TED CREATININE LEVE coportionately more to n renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creatine reatinine). tal failure. e causes false increas tatinine ratio). vith creatinine measu I RATE: DESCRIPTION nal kidney function Iney damage with	han creatinine but of extracel blood). due to tubular e to creatinine rement).	lular fluid). r secretion of urea). e with certain met /min/1.73m2) >90	hodologies,res ASSOCIATE No pro Presence	D FINDINGS Iteinuria of Protein ,	nal ratio when c	lehydrat
Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Severe liver diseas Acute tubular necr SIADH (syndrome of SIADH (syndrome of Severe liver diseas Rhabdomyolysis (r Severe liver diseas Rouscular patients Iniabetic ketoacido should produce an in Cephalosporin the <u>CKD STAGE G1 G2 G1 G2 G3a </u>	a (BUN rises dispr superimposed of 10:1) WITH DECRE osis. Ind starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE inappropiate a 10:1) WITH INCRE oreased suscie c who develop rer sis (acetoacetate creased BUN/cre rapy (interferes w JLAR FILTERATION Norr Norr Kic no Mode	TED CREATININE LEVE coportionately more to n renal disease. EASED BUN : Creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creatine reatinine). tal failure. causes false increas tatinine ratio). <i>i</i> th creatinine measu <u>I RATE:</u> DESCRIPTION mal kidney function iney damage with trmal or high GFR d decrease in GFR	han creatinine but of extracel blood). due to tubular e in creatinine rement).	lular fluid). r secretion of urea). e with certain met /min/1.73m2) >90 >90	hodologies,res ASSOCIATE No pro Presence	D FINDINGS Iteinuria of Protein ,	nal ratio when c	lehydrat



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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Miss. SIMRAN PUNIA		
AGE/ GENDER	: 28 YRS/FEMALE	PATIENT ID	: 1684533
COLLECTED BY	:	REG. NO./LAB NO.	: 012411280009
REFERRED BY	:	REGISTRATION DATE	: 28/Nov/2024 09:20 AM
BARCODE NO.	: 01521582	COLLECTION DATE	: 28/Nov/2024 09:33AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 28/Nov/2024 12:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	
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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologis		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Miss. SIMRAN PUN : 28 YRS/FEMALE : : : 01521582 : KOS DIAGNOSTIC L : 6349/1, NICHOLSO		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1684533 : 012411280009 : 28/Nov/2024 09:20 AM : 28/Nov/2024 09:33AM : 28/Nov/2024 01:55PM
Test Name		Value	Unit	Biological Reference interval
			'AMINS YDROXY VITAMIN D	3
	ROXY VITAMIN D3) scence immunoassay)	SERUM 7.307^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFICI	FNT·	< 20	n	g/mL
DEFICIENT: INSUFFICIENT:		21 - 29		
PREFFERED RANGE:		30 - 100		
issue and tightly bour S. Vitamin D plays a pr shosphate reabsorptic I. Severe deficiency ma DECREASED: Lack of sunshine exp Inadequate intake, r B. Depressed Hepatic V I. Secondarv to advance o. Osteoporosis and Se o. Enzyme Inducing dru NCREASED: Hypervitaminosis D evere hypercalcemia AUTION : Replacemen hypervitaminosis D	nd by a transport prot imary role in the main on, skeletal calcium de ay lead to failure to m osure. nalabsorption (celiac of 'itamin D 25- hydroxyl ed Liver disease condary Hyperparathr igs: anti-epileptic drug is Rare, and is seen on and hyperphophatemi it therapy in deficient adividuals as compare t	ein while in circulation. tenance of calcium homeo position, calcium mobiliza neralize newly formed ost disease) ase activity oidism (Mild to Moderate s like phenytoin, phenoba lv after prolonged exposu a. ndividuals must be monito	ostatis. It promotes calciur ition, mainly regulated by regoid in bone, resulting in r deficiency) rbital and carbamazepine, re to extremely high doses pred by periodic assessmer	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent ciency due to excess of melanin pigment which
	.4	*** End Of Re	eport ***	

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сHР

