

: Mr. SURAJ



Dr. Vinay Chopra



AGE/ GENDER	: 39 YRS/MALE		PATIENT ID	: 1577528
COLLECTED BY	:		<b>REG. NO./LAB NO.</b>	: 012408110003
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 11/Aug/2024 08:37 AM
BARCODE NO.	: 01514864		COLLECTION DATE	: 11/Aug/2024 09:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 11/Aug/2024 08:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT'	г	
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA W	/ELLNESS PANEL: D	
	COM	API FTF BI	LOOD COUNT (CBC)	
	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		15.1	gm/dL	12.0 - 17.0
<b>RED BLOOD CELL (RB</b>	C) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.37 <sup>H</sup>	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM	IE (PCV)	45.6	%	40.0 - 54.0
MEAN CORPUSCULA		84.8	fL	80.0 - 100.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	28.2	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	33.2	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.4	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	42.6	fL	35.0 - 56.0
MENTZERS INDEX		15.79	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE by calculated	X	21.22	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			
TOTAL LEUCOCYTE CO		9400	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



NAME







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	65	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	30	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 <sup>L</sup>	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	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	6110	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2820	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 <sup>L</sup>	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	470	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE MARKER	<u>RS.</u>		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	160000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.24	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	15 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	95000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	59.4 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.3	%	15.0 - 17.0





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Test Name	Value	Unit	Biological Reference interval



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD	<b>: Vinay Chopra</b> ) (Pathology & Microbio airman & Consultant Pat		Dr. Yugam MD & Consultant	(Pathology)	
NAME	: Mr. SURAJ					
GE/ GENDER	: 39 YRS/MALE		PATIENT ID	)	: 1577528	
COLLECTED BY	:		REG. NO./L4	AB NO.	:012408110003	
REFERRED BY	:		REGISTRAT	ION DATE	: 11/Aug/2024 08:37	AM
ARCODE NO.	:01514864		COLLECTIO	N DATE	: 11/Aug/2024 09:39	AM
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LIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA	CANTT			
Test Name		Val	ue	Unit	Biological R	eference interval
		ERYTHROCYTE	E SEDIMENTATIO	N RATE (ESI	2)	
ERYTHROCYTE SEDIN by Modified Wester NTERPRETATION:		(ESR) 5		mm/1st h		
(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	n with conditions the ificantly high white e cell anaemia) also e protein (C-RP) are s not change as rap <b>by as many other fa</b> ed, it is typically a re ve a higher ESR, and ran, methyldopa, o	blood cell count (leuce o lower the ESR. both markers of inflam idly as does CRP, either actors as is ESR, making esult of two types of pr d menstruation and pre ral contraceptives, pen	ocytosis) , and some mation. r at the start of inflar <b>it a better marker of</b> roteins, globulins or f gnancy can cause ter	protein abnor mmation or as inflammation ibrinogen. nporary eleva		in red cell shape (such





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	PR	OTHROMBIN TI	ME STUDIES (PT/INR)	
PT TEST (PATIENT) by photo optical c	CLOT DETECTION	11.7	SECS	11.5 - 14.5
PT (CONTROL) by photo optical c	CLOT DETECTION	12	SECS	
ISI by photo optical c	CLOT DETECTION	1.1		
INTERNATIONAL NC	ORMALISED RATIO (INR)	0.97		0.80 - 1.20
PT INDEX by photo optical c	CLOT DETECTION	102.56	%	

## INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

RECOMMENDED THERAPEUTIC RANGE FOR	ORAL ANTI-CO	AGULANT THE	RAPY (INR)
INDICATION		INTERNATIO	NAL NORMALIZED RATIO (INR)
Treatment of venous thrombosis			
Treatment of pulmonary embolism			
Prevention of systemic embolism in tissue heart valves			
Valvular heart disease	Low Intensity		2.0 - 3.0
Acute myocardial infarction			
Atrial fibrillation			
Bileaflet mechanical valve in aortic position			
Recurrent embolism			
Mechanical heart valve	High Intensity		2.5 - 3.5
Antiphospholipid antibodies <sup>+</sup>			
COMMENTS:	-		





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Test Name	Valu	ie Unit	Biological Reference interval

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are : 1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
		ICAL CHEMISTRY	ring (F)	
GLUCOSE FASTING by glucose oxida				Y NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0





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Test Name	Value	Unit	Biological Reference interval
	LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL: SERUM	178.08	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	170.00	mg/uc	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)	72.86	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION	72.67	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	90.84	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: SERUM by Calculated, spectrophotometry	105.41	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: SERUM by CALCULATED, SPECTROPHOTOMETRY	14.57	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	429.02	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.45	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, SPECTROPHOTOMETRY	1.25	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	Λ		

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1 <sup>L</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 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 MD (Pathology) **CEO & Consultant Pathologist** 

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Test Name	Value	Unit	Biological Reference interval
LIV	/ER FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.57	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.38	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	13.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	14.7	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.93	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methy propanol	122.44 L	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	57.41 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.67	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.02	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.65	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.52	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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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:

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)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com









	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SURAJ			
AGE/ GENDER	: 39 YRS/MALE	PATIE	ENT ID	: 1577528
<b>COLLECTED BY</b>	:	REG. N	NO./LAB NO.	: 012408110003
<b>REFERRED BY</b>	:	REGIS	TRATION DATE	: 11/Aug/2024 08:37 AM
BARCODE NO.	: 01514864	COLLI	ECTION DATE	: 11/Aug/2024 09:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 11/Aug/2024 10:25AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIE	ONEY FUNCTION TES	ST (COMPLETE)	
UREA: SERUM		24.72	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)		J. J	
CREATININE: SERUN by ENZYMATIC, SPEC		0.85	mg/dL	0.40 - 1.40
	DGEN (BUN): SERUM	11.55	mg/dL	7.0 - 25.0
BLOOD UREA NITRO RATIO: SERUM	OGEN (BUN)/CREATININE	13.59	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE I		29.08	RATIO	
URIC ACID: SERUM	ECTROPHOTOMETRY	3.21 <sup>L</sup>	mg/dL	3.60 - 7.70
by URICASE - OXIDA	SE PEROXIDASE		, i i i i i i i i i i i i i i i i i i i	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	10.19	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		4.11	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY		J. A	
ELECTROLYTES				
SODIUM: SERUM		140.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.31	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUM		105.15	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	113.4		

by CALCULATED

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.



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

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

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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	M		ChopraDr. Yugam Chopraogy & Microbiology)MD (Pathology)Consultant PathologistCEO & Consultant Pathologist		
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CLIENT ADDRESS	: 6349/1, NICH0	OLSON ROAD, AN	IBALA CANTT		
ourns, surgery, cache 7. Urine reabsorptior	ction plus ke or production c xia, high fever). (e.g. ureter colost	omy)		Unit	
3. GI haemorrhage. 4. High protein intake 5. Impaired renal fur 6. Excess protein inta 5. Durns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2	ction plus ke or production of xia, high fever). (e.g. ureter colost ass (subnormal cr tetracycline, gluco 0:1) WITH ELEVAT a (BUN rises dispro superimposed on 10:1) WITH DECREA osis. nd starvation.	omy) eatinine producti ocorticoids) ED CREATININE LE portionately mor renal disease.	wn (e.g. infectio ion) E <b>VELS</b> :		Biological Reference interval

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

## **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine 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	



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

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



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 www.koshealthcare.com





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microb Chairman & Consultant F	iology) ME	m Chopra D (Pathology) ht Pathologist
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Test Name	V	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





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,	AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
		ENDOCI	RINOLOGY			
	INT	ACT PARATHYR	OID HORMONE (PTH)			
	D HORMONE (PTH): SERUM	147.3 <sup>H</sup>	pg/mL	9.5 - 75.0		

# Intrepretation:-

Parathyroid hormone (PTH) is produced and secreted by the parathyroid glands, which are located along the posterior aspect of the thyroid gland. The serum calcium level regulates PTH secretion via negative feedback through the parathyroid calcium sensing receptor (CASR). Decreased calcium levels stimulate PTH release. Secreted PTH interacts with its specific type II G-protein receptor, causing rapid increases in renal tubular reabsorption of calcium and decreased phosphorus reabsorption. It also participates in long-term calciostatic functions by enhancing mobilization of calcium from bone and increasing renal synthesis of 1,25-dihydroxy vitamin D, which, in turn, increases intestinal calcium absorption.

The assay is useful for:

- Differential diagnosis of hypercalcemia
- Diagnosis of primary, secondary, and tertiary hyperparathyroidism
- Diagnosis of hypoparathyroidism
- Monitoring end-stage renal failure patients for possible renal osteodystrophy

#### Interpretation of results:

- An (appropriately) low PTH level and high phosphorus level in a hypercalcemic patient suggests that the hypercalcemia is not caused by PTH or PTH-like substances.
- An (appropriately) low PTH level with a low phosphorus level in a hypercalcemic patient suggests the diagnosis of paraneoplastic hypercalcemia.
- A low or normal PTH in a patient with hypocalcemia suggests hypoparathyroidism.

Low serum calcium and high PTH levels in a patient with normal renal function suggest resistance to PTH action (pseudohypoparathyroidism type 1a, 1b, 1c, or 2) or, very rarely, bio-ineffective PTH.

Elevated PTH value with a normal serum calcium in many cases in India is due to secondary hyperparathyroidism, primary cause being Vitamin D deficiency.



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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Cho</b> MD (Pathology & Chairman & Cons		Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. SURAJ</b> : 39 YRS/MALE : : : 01514864 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	RI RI CO RI	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE DLLECTION DATE EPORTING DATE	: 1577528 <b>: 012408110003</b> : 11/Aug/2024 08:37 AM : 11/Aug/2024 09:39AM : 12/Aug/2024 09:18AM
Test Name		Value	Unit	Biological Reference interval
	IMI	MUNOPATHOL	OGY/SEROLOGY	
	ANTI TISSUE	TRANSGLUTAN	IINASE (tTG) ANTIBO	DDY IgA
2.Antibodies to tissue bowel disease, and va 3.In coeliac disease, epithelial cells by kill 4.Deposits of anti-tTC 5.Celiac disease (glut wheat, rye, or barley mucosa of the small i CLINICAL MANIFESTAT 1.Abdominal pain 2.Malabsorption 3.Diarrhea and Const CLINICAL MANIFESTAT 1.Failure to grow (del: 2.Iron deficiency ane 3.Recurrent fetal loss 4.Osteoporosis and cl 5.Recurrent aphthous 6.Dental enamel hypo 7.Patients with celiad	SLUTAMINASE KED IMMUNOASSAY) Asse antibodies (ATA) are autoanti e transglutaminas are found in p arious forms ofarthritis. ATA are involved in the destru- er cells. 5 in the intestinal epithelium pre- cen-sensitive enteropathy, celia 7 proteins that occurs in geneti- intestine, which leads to villous a TONS RELATED TO GASTROINTEST ayed puberty and short stature) mia pronic fatigue e stomatitis (canker sores) pplasia, and dermatitis herpetifor	8.61 ibodies against the vatients with severa ction of the villous dict coeliac disease. c sprue) results fro cally susceptible in trophy. <b>TINAL TRACT:</b> <b>TRICTED TO GIT:</b> rmis. neuropsychiatric n	IU/mL transglutaminase protein l conditions, including co s extracellular matrix an om an immune-mediated dividuals. The inflamma	NEGATIVE: < 20.0 POSITIVE: > 20.0
<ul> <li>8.The disease is also deficiency.</li> <li>NOTE:</li> <li>1.The finding of tisso individuals with mode the diagnosis.</li> <li>2.If patients strictly at therapy.</li> <li>CAUTION:</li> </ul>	o associated with other clinic ue transglutaminase (tTG)-IgA erately to strongly positive resul dhere to a gluten-free diet, the u	al disorders includ antibodies is speci ts, a diagnosis of ce nit value of IgA-ant	ific for celiac disease an eliac disease is likely and i-tTG should begin to dee	diabetes mellitus, Down syndrome, and IgA nd possibly for dermatitis herpetiformis. For I the patient should undergo biopsy to confirm crease within 6 to 12 months of onset of dietary uld be used to identify patients who have an
	an	Gen	ofra	

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

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Set. KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		& Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. SURAJ			
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BARCODE NO.	:01514864	COLLE	TION DATE	: 11/Aug/2024 09:39AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

increased probability of having celiac disease and in whom a small intestinal biopsy is recommended.

2.Affected individuals who have been on a gluten-free diet prior to testing may have a negative result.

3.For individuals who test negative, IgA deficiency should be considered. If total IgA is normal and tissue transglutaminase (tTG)-IgA is negative, there is a low probability of the patient having celiac disease and a biopsy may not be necessary.

4.If serology is negative or there is substantial clinical doubt remaining, then further investigation should be performed with endoscopy and bowel biopsy. This is especially important in patients with frank malabsorptive symptoms since many syndromes can mimic celiac disease. For the patient with frank malabsorptive symptoms, bowel biopsy should be performed regardless of serologic test results.

5. The antibody pattern in dermatitis herpetiformis may be more variable than in celiac disease; therefore, both endomysial and tTG antibody determinations are recommended to maximize the sensitivity of the serologic tests.



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

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 care@koshealthcare.com
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	MD (Pa	inay Chopra thology & Microbiology an & Consultant Pathol		Dr. Yugam MD O & Consultant	(Pathology)	
IAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. SURAJ</b> : 39 YRS/MALE : : : 01514864 : KOS DIAGNOSTIC L : 6349/1, NICHOLSO	AB N ROAD, AMBALA CAN	COLLECTI REPORTIN	LAB NO. TION DATE ON DATE	: 1577528 <b>: 012408110</b> : 11/Aug/2024 : 11/Aug/2024 : 11/Aug/2024	4 08:37 AM 4 09:39AM
Test Name		Value		Unit	Biolo	ogical Reference interval
		l l	/ITAMINS			
		VITAMIN D/2	5 HYDROXY V	ITAMIN D3		
by CLIA (CHEMILUMIN	ROXY VITAMIN D3): SE Iescence immunoassa			ng/mL	INSU SUFF	CIENCY: < 20.0 IFFICIENCY: 20.0 - 30.0 TICIENCY: 30.0 - 100.0 CITY: > 100.0
<u>VTERPRETATION:</u> DEFIC	CIENT:	< 20		n	g/mL	
INSUFF	ICIENT:	21 - 29		ng/mL		
	D RANGE: CATION:	30 - 100 > 100			g/mL g/mL	
2.25-OHVitamin D re- issue and tightly bou Vitamin D plays a p- ohosphate reabsorpti Severe deficiency m <b>DECREASED:</b> Lack of sunshine exit Lack of sunshine exit Lack of sunshine exit Lack of sunshine exit Lack of sunshine exit Secondary to advan Osteoporosis and Se Enzyme Inducing dr NCREASED: Hypervitaminosis D evere hypercalcemia AUTION: Replaceme hypervitaminosis D	Ind by a transport prot rimary role in the main ion, skeletal calcium de hay lead to failure to m posure. malabsorption (celiac of Vitamin D 25- hydroxyl ced Liver disease econdary Hyperparathr ugs: anti-epileptic drug b is Rare, and is seen on and hyperphophatemi nt therapy in deficient individuals as compare t	ly resevoir and transpo ein while in circulatior itenance of calcium ho eposition, calcium mob ineralize newly formed disease) ase activity roidism (Mild to Moder is like phenytoin, phen ally after prolonged exp a. individuals must be mo	ort form of Vitar meostatis. It pr ilization, mainly d osteoid in bon rate deficiency) obarbital and c. osure to extren pnitored by peri	nin D and trans omotes calciun / regulated by p e, resulting in r arbamazepine, nely high doses odic assessmen	n absorption, ren parathyroid harm ickets in children that increases Vit of Vitamin D. Wh t of Vitamin D lev	and osteomalacia in adults.
		*** End Of	f Report ***	t -		

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

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

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