



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. KAKU KATYAL : 69 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (AMBA : 01517930 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB		COLLECTION DATE REPORTING DATE	: 1628876 : 012409290018 : 29/Sep/2024 09:08 AM : 29/Sep/2024 09:14AM : 29/Sep/2024 09:37AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA W	ELLNESS PANEL: G	
	CON	APLETE BL	OOD COUNT (CBC)	
<u>RED BLOOD CELLS (R</u>	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.7 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB		4.47	Millions/cr	nm 3.50 - 5.00
by HYDRO DYNAMIC F PACKED CELL VOLUN	OCUSING, ELECTRICAL IMPEDENCE 1E (PCV)	34.5 ^L	%	40.0 - 54.0
	UTOMATED HEMATOLOGY ANALYZER	77.1 ^L	fL	80.0 - 100.0
by CALCULATED BY A	R HAEMOGLOBIN (MCH)	24 ^L		27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		pg	
by CALCULATED BY A	R HEMOGLOBIN CONC. (MCHC)	31.2 ^L	g/dL	32.0 - 36.0
	ION WIDTH (RDW-CV) NUTOMATED HEMATOLOGY ANALYZER	16.3 ^H	%	11.00 - 16.00
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47	fL	35.0 - 56.0
MENTZERS INDEX		17.25	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE by CALCULATED	X	28.19	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ′ by sf cube & microscopy	7190	/cmm	4000 - 11000
NUCLEATED RED BLC	OOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED BLC	UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	64	%	50 - 70



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, HaryanaKOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





MD (Patho	ay Chopra ology & Microbiology) & Consultant Pathologis		(Pathology)
NAME : Mr. KAKU KATYAL			
AGE/ GENDER : 69 YRS/MALE		PATIENT ID	: 1628876
COLLECTED BY : SURJESH		REG. NO./LAB NO.	: 012409290018
	UR (AMBALA CANTT)	REGISTRATION DATE	: 29/Sep/2024 09:08 AM
BARCODE NO. : 01517930		COLLECTION DATE	: 29/Sep/2024 09:14AM
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Sep/2024 09:37AM
CLIENT ADDRESS : 6349/1, NICHOLSON I			. 20/ 50p/ 2024 00.0711m
Test Name	Value	Unit	Biological Reference interval
LYMPHOCYTES	26	%	20 - 40
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP EOSINOPHILS	3	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP		70	1-0
MONOCYTES	7	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP		0/	0.1
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOP	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	4602	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP		,	1000 1000
ABSOLUTE LYMPHOCYTE COUNT	1869	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP ABSOLUTE EOSINOPHIL COUNT	216	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP		/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT	503	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOP		/	0, 110
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOP	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIV			
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impe	222000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	0.29	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPE			(50, 40.0
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMP	EDENCE 13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC)	108000 ^H	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMP	EDENCE	0/	11 0 AF 0
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMP	48.5 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW)	16	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPE			
NOTE: TEST CONDUCTED ON EDTA WHOLE	BLOOD		



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 www.koshealthcare.com







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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Sep/2024 02:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		······································
Test Name		Value	Unit	Biological Reference interval
			AEMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HDATC):	6.3	%	4.0 - 6.4
by HPLC (HIGH PERFOR	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	134.11	mg/dL	60.00 - 140.00
	AS PER AMERICAN			
	REFERENCE GROUP	G	LYCOSYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
	ic goals for glycemic control		s of Therapy:	< 7.0
Thorsent			ns Suggested:	>8.0

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 HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

Goal of therapy:

Age < 19 Years

<7.5

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.



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. Vinay Cho j MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD (CEO & Consultant F	Pathology)	
NAME	: Mr. KAKU KATYAL				
AGE/ GENDER	: 69 YRS/MALE	PATIE	NT ID	: 1628876	
COLLECTED BY	: SURJESH	REG. N	O./LAB NO.	: 012409290018	
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BARCODE NO.	:01517930	COLLE	CTION DATE	: 29/Sep/2024 09:14AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 29/Sep/2024 09:54AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Reference in	nterval
	ERYTHR	OCYTE SEDIMENT	ATION RATE (ESR)	
by RED CELL AGGREG	MENTATION RATE (ESR) SATION BY CAPILLARY PHOTOMETRY	11	mm/1st hr	0 - 20	
immune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also t systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (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 dexti	does not tell the health practitione ted by other conditions besides in the used to monitor disease activity watosus V ESR n with conditions that inhibit the n ificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CRI by as many other factors as is ESR, ed, it is typically a result of two typ re a higher ESR, and menstruation	er exactly where the inf flammation. For this re- and response to thera formal sedimentation of the (leucocytosis), and the inflammation. P, either at the start of making it a better mar les of proteins, globulir and pregnancy can cau	Tammation is in the eason, the ESR is typi upy in both of the ab of red blood cells, suc some protein abnorn inflammation or as ker of inflammation. is or fibrinogen. se temporary elevat	cally used in conjunction with othe ove diseases as well as some other ch as a high red blood cell count malities. Some changes in red cell s it resolves.	er test such rs, such as shape (such





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







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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Sep/2024 12:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIN		Unit STRY/BIOCHEMISTR	
Test Name	CLIN			

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.
 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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		& Microbiology) nsultant Pathologis	t CEO & Consultant	(Pathology) : Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		109.79	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	UM HATE OXIDASE (ENZYMATIC)	112.24	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		64.12	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		23.22	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		45.67	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		22.45	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	331.82 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	1.71	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: SEF by CALCULATED, SPE		0.36 ^L	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.75 ^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.

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. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. KAKU KATYAL **AGE/ GENDER** : 69 YRS/MALE **PATIENT ID** :1628876 **COLLECTED BY** : SURJESH :012409290018 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 29/Sep/2024 09:08 AM **BARCODE NO.** :01517930 **COLLECTION DATE** : 29/Sep/2024 09:14AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 29/Sep/2024 11:51AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.44 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 0.28 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 13.35 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 27.24 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE 0.49 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY 77.93 U/L 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL

AST/ALT RATIO: SERUM ALKALINE PHOSPHATASE: SERUM PROPANOL U/L GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 22.94 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY **TOTAL PROTEINS: SERUM** gm/dL 6.20 - 8.00 5.82^L by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 3.61 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.21^L gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY RATIO 1.00 - 2.00 A : G RATIO: SERUM 1.63 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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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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference inte	erval
	к		ON TEST (COMPLETE)		
UREA: SERUM		18.05	mg/dL	10.00 - 50.00	
	MATE DEHYDROGENASE (GLDH)				
CREATININE: SERUN		0.92	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC	DGEN (BUN): SERUM	8.43	mg/dL	7.0 - 25.0	
	ECTROPHOTOMETRY	0.10	nig/ de	1.0 20.0	
	DGEN (BUN)/CREATININE	9.16 ^L	RATIO	10.0 - 20.0	
RATIO: SERUM	PECTROPHOTOMETRY				
UREA/CREATININE		19.62	RATIO		
	ECTROPHOTOMETRY				
URIC ACID: SERUM		4.11	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS	SE PEROXIDASE	0.44	mg/dL	8.50 - 10.60	
	PECTROPHOTOMETRY	8.46 ^L	ing/ dL	0.50 - 10.00	
PHOSPHOROUS: SEF		3.02	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBI <u>ELECTROLYTES</u>	DATE, SPECTROPHOTOMETRY				
		10/7		125.0.150.0	
SODIUM: SERUM by ISE (ION SELECTIN	VE ELECTRODE)	136.7	mmol/L	135.0 - 150.0	
POTASSIUM: SERUN		4.66	mmol/L	3.50 - 5.00	
by ISE (ION SELECTI)					
CHLORIDE: SERUM by ISE (ION SELECTIN		102.53	mmol/L	90.0 - 110.0	
	ERULAR FILTERATION RATE				
	RULAR FILTERATION RATE	90			
(eGFR): SERUM		70			
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.



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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologi	M	m Chopra D (Pathology) nt Pathologist	
NAME	: Mr. KAKU KATYAL				
AGE/ GENDER	: 69 YRS/MALE		PATIENT ID	: 1628876	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409290018	
REFERRED BY		CLUB (AMBALA CANTT)	REGISTRATION DATE	: 29/Sep/2024 09:08	R AM
BARCODE NO.	: 01517930	CLOD (AWDALA CANTT)	COLLECTION DATE	: 29/Sep/2024 09:14	
		A D		-	
CLIENT CODE.	: KOS DIAGNOSTIC LA		REPORTING DATE	: 29/Sep/2024 01:45	DPM
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANT'	ľ		
Test Name		Value	Unit	Biological	Reference interval
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (Acute tubular necr 	superimposed on renal 10:1) WITH DECREASED E osis.	ine production) coids) EATININE LEVELS: onately more than creatii disease.	nine) (e.g. obstructive uroț	oathy).	
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<20 Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhebadomyolysis (r Muscular patients INAPPROPIATE RATIO 	ass (subnormal creatini tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti superimposed on renal fo:1) WITH DECREASED E osis. and starvation. e. creased urea synthesis. (urea rather than creati monemias (urea is virtu of inappropiate antidiure fo:1) WITH INCREASED C py (accelerates convers eleases muscle creatini who develop renal failu sis (acetoacetate cause	ine production) coids) EATININE LEVELS: ponately more than creating disease. BUN : BUN : etic harmone) due to tub EREATININE: ion of creatine to creating ne). ire.	icellular fluid). ular secretion of urea.		ıl ratio when dehydrat
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<2 Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther 	ass (subnormal creatini tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti superimposed on renal fo:1) WITH DECREASED E osis. Ind starvation. e. creased urea synthesis. (urea rather than creati monemias (urea is virtu of inappropiate antidium finappropiate antidium for the the tetra seconvers eleases muscle creatini who develop renal failu tetra sis (acetoacetate cause creased BUN/creatinine tetra subnormal seconvers apy (interferes with creatinine tetra subnormal seconvers tetra subnormal seconvers tetra subnormal seconvers tetra subnormal seconvers tetra subnormal seconvers tetra seconve	ine production) coids) EATININE LEVELS: conately more than creating disease. BUN : BUN : Construction of extra vally absent in blood). etic harmone) due to tub CREATININE: ion of creatine to creating ne). ire. s false increase in creating e ratio). atinine measurement).	ncellular fluid). ular secretion of urea. ine).		ıl ratio when dehydrati
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<2 Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther 	ass (subnormal creatini tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti superimposed on renal to:1) WITH DECREASED E osis. Ind starvation. e. creased urea synthesis. (urea rather than creati monemias (urea is virtue) finappropiate antidium to finappropiate antidium to finappropiate antidium to develop renal failues sis (acetoacetate cause creased BUN/creatinine tapy (interferes with cre JLAR FILTERATION RATE:	ine production) coids) EATININE LEVELS: ponately more than creating disease. BUN : BUN : Content of extra ually absent in blood). etic harmone) due to tub REATININE: ion of creatine to creating ne). Ire. s false increase in creating e ratio). atinine measurement).	ncellular fluid). ular secretion of urea. ine). hine with certain methodo		I ratio when dehydrati
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (Inhenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <u>EXTIMATED GLOMERL</u> <u>CKD STAGE</u> G1 	ass (subnormal creatini tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti superimposed on renal to:1) WITH DECREASED E osis. Ind starvation. e. creased urea synthesis. (urea rather than creati monemias (urea is virtu of inappropiate antidium to finappropiate antidium finappropiate antidium to develop renal failu sis (acetoacetate cause creased BUN/creatinine apy (interferes with cre <u>JLAR FILTERATION RATE:</u> <u>DESCE</u> Normal kid	ine production) coids) EATININE LEVELS: ponately more than creating disease. BUN : BUN : atin blood). etic harmone) due to tub EREATININE: ion of creatine to creating ne). atin ine measurement). EXIPTION GFR (ney function (ncellular fluid). ular secretion of urea. ine). hine with certain methodo mL/min/1.73m2) P >90	ologies,resulting in norma SSOCIATED FINDINGS No proteinuria	Il ratio when dehydrati
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (Inhenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <u>ESTIMATED GLOMERL</u> CKD STAGE 	ass (subnormal creatini tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti tetracycline, glucocorti superimposed on renal to:1) WITH DECREASED E osis. and starvation. e. creased urea synthesis. (urea rather than creati monemias (urea is virtu of inappropiate antidiure to finappropiate antidiur	ine production) coids) EATININE LEVELS: conately more than creating disease. BUN : BUN : Construction of extra vally absent in blood). etic harmone) due to tub CREATININE: ion of creatine to creating ne). ire. s false increase in creating e ratio). atinine measurement). RIPTION GFR (ncellular fluid). ular secretion of urea. ine). hine with certain methodo mL/min/1.73m2) >90 >90	ologies,resulting in norma	I ratio when dehydrati

Severe decrease in GFR	
Severe decrease in GFR	
Kidney failure	



G3a

G3b

G4 G5

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

Mild decrease in GFR

Moderate decrease in GFR

Kidney failure

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

60 - 89

30-59

15-29

<15



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





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. KAKU KATYAL		
AGE/ GENDER	: 69 YRS/MALE	PATIENT ID	: 1628876
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409290018
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 29/Sep/2024 09:08 AM
BARCODE NO.	: 01517930	COLLECTION DATE	: 29/Sep/2024 09:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 29/Sep/2024 01:45PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
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



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







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NAME	: Mr. KAKU KATYAL				
AGE/ GENDER	: 69 YRS/MALE		PATIENT ID	: 162887	76
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:01240	9290018
REFERRED BY	: CENTRAL PHOENIX CI	LUB (AMBALA CANTT)	REGISTRATION DA	ATE : 29/Sep	/2024 09:08 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON H	ROAD, AMBALA CANTT			
Test Name		Value	Uni	t	Biological Reference interval
TUMOUR MARKER PROSTATE SPECIFIC ANTIGEN (PSA) - TOTAL					
SERUM	NTIGEN (PSA) - TOTAL:	0.97	ng/	mL	0.0 - 4.0
<i>by</i> CLIA (CHEMILUMINESCENCE IMMUNOASSAY) INTERPRETATION: NOTE: 1. This is a recommended test for detection of prostate cancer along with Digital Rectal Examination (DRE) in males above 50 years of age. 2. False negative / positive results are observed in patients receiving mouse monoclonal antibodies for diagnosis or therapy 3. PSA levels may appear consistently elevated / depressed due to the interference by heterophilic antibodies & nonspecific protein binding 4. Immediate PSA testing following digital rectal examination, ejaculation, prostatic massage, indwelling catheterization, ultrasonography and needle biopsy of prostate is not recommended as they falsely elevate levels 5. PSA values regardless of levels should not be interpreted as absolute evidence of the presence or absence of disease. All values should be correlated with clinical findings and results of other investigations 6. Sites of Non-prostatic PSA production are breast epithelium, salivary glands, peri-urethral & anal glands, cells of male urethra & breast milk 7. Physiological decrease in PSA level by 18% has been observed in hospitalized / sedentary patients either due to supine position or suspended sexual activity 8. The concentration of PSA in a given specimen, determined with assays from different manufacturers, may not be comparable due to differences in assay methods, calibration, and reagent specificity. RECOMMENDED TESTING INTERVALS 1. Preoperatively (Baseline) 2. 2-4 Days Post operatively 3. Prior to discharge from hospital 4. Monthly Follow Up if levels are high and showing a rising trend					
	POST SURGERY		FREQUENCY OF T	ESTING	
	1st Year		Every 3 Mon		
	2 nd Year		Every 4 Mon		
	rd Year Onwards		Every 6 Mon	uns	
and in those with two	detection of Prostate can or more affected first deg	ree relatives.	nction with Digital rea	ctal examination i	n males more than 50 years of age

Followup and management of Prostate cancer patients.

Pollowup and management of prostate cancer patients.
 Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

INCREASED LEVEL:

1. Prostate cancer

2. Benign Prostatic Hyperplasia

3. Prostatitis



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.





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NAME	: Mr. KAKU KATYAL		
AGE/ GENDER	: 69 YRS/MALE	PATIENT ID	: 1628876
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Test Name	Value	Unit	Biological Reference interval

4. Genitourinary infections

*** End Of Report ***



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

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