

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mr. RAÆSH KAPOOR			
AGE/ GENDER	: 70 YRS/MALE]	PATIENT ID	: 1767302
COLLECTED BY	:]	REG. NO./LAB NO.	: 012502230010
REFERRED BY	:]	REGISTRATION DATE	: 23/Feb/2025 08:27 AM
BARCODE NO.	: 01526002		COLLECTION DATE	: 23/Feb/2025 08:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/2025 09:26AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WEL	LNESS PANEL: 1.5	
	COME	PLETE BLO	OD COUNT (CBC)	
RED BLOOD CELL	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	12.9	gm/dL	12.0 - 17.0
RED BLOOD CELL	(RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.35	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) automated hematology analyzer	40.7	%	40.0 - 54.0
	AR VOLUME (MCV) automated hematology analyzer	93.5	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	29.7	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	31.8 ^L	g/dL	32.0 - 36.0
by CALCULATED BY A	SUTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	13.4	%	11.00 - 16.00
by CALCULATED BY A	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	46.9	fL	35.0 - 56.0
MENTZERS INDEX by calculated		21.49	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI		28.85	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE TOTAL LEUCOCYTI	E COUNT (TLC)	6110	/cmm	4000 - 11000
NUCLEATED RED I	Y BY SF CUBE & MICROSCOPY BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED H	rt hematology analyzer BLOOD CELLS (nRBCS) % automated hematology analyzer	NIL	%	< 10 %





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

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







Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJESH KAPOOR AGE/ GENDER : 70 YRS/MALE **PATIENT ID** :1767302 **COLLECTED BY** :012502230010 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 23/Feb/2025 08:27 AM **BARCODE NO.** :01526002 **COLLECTION DATE** : 23/Feb/2025 08:36AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 23/Feb/2025 09:26AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 52 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 35 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 7H EOSINOPHILS % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 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 3177 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2138 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 428 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 367 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 172000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.22 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12^H fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 77000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 44.4% 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.5% 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

Dr. Vinay Chopra





NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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

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BARCODE NO.	: 01526002	COLL	ECTION DATE	: 23/Feb/2025 08:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 23/Feb/2025 03:19PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAE WHOLE BLOOD	MOGLOBIN (HbA1c):	8.4 ^H	%	4.0 - 6.4
ESTIMATED AVERAGI		194.38 ^H	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE	BETES ASSOCIATION (ADA):		
RE	FERENCE GROUP		HEMOGLOGIB (HBAIC) in	1 %
Non diab	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	1	5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
			e > 19 Years	
Theses its		Goals of Therapy:	< 7.0	
inerapeutic	goals for glycemic control	Actions Suggested:	>8.0	
			e < 19 Years	
		Goal of therapy:	<7.5	

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.

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.





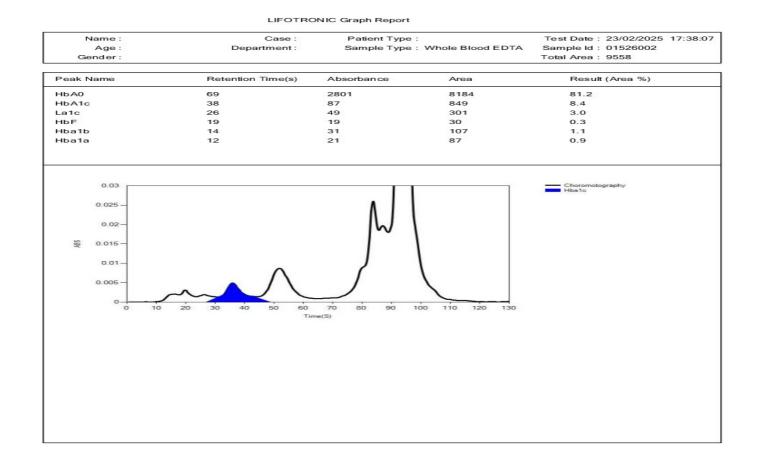
DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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: Mr. RAJESH KAPOOR		
· · · · · · · · · · · · · · · · · · ·	G, /	D (Pathology) It Pathologist
		n Chopra
	MD (Pathology & Mic Chairman & Consulta : Mr. RAJESH KAPOOR : 70 YRS/MALE :	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mr. RAJESH KAPOOR : 70 YRS/MALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	ME	r. Vinay Cho D (Pathology & M airman & Consu			(Pathology)
NAME	: Mr. RAJESH KA	POOR			
AGE/ GENDER	: 70 YRS/MALE			PATIENT ID	: 1767302
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BARCODE NO.	:01526002			COLLECTION DATE	: 23/Feb/2025 08:36AM
CLIENT CODE.	: KOS DIAGNOST	IC LAB		REPORTING DATE	: 23/Feb/2025 10:34AM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AN	MBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
ERYTHROCYTE SE			CYTE SEDIN 70 ^h	IENTATION RATE (mm/1st	
systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sig as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR doc 3. CRP is not affected 4. If the ESR is eleval 5. Women tend to ha	ematosus W ESR en with conditions the nificantly high white le cell anaemia) als re protein (C-RP) are es not change as rap I by as many other fi- red, it is typically a r ave a higher ESR, an- tran, methyldopa, o	hat inhibit the n e blood cell cou o lower the ESR e both markers c oidly as does CR actors as is ESR, esult of two typ d menstruation oral contraceptiv	normal sediment nt (leucocytosis) of inflammation. P, either at the making it a bett es of proteins, a and pregnancy	tation of red blood cells, s), and some protein abno start of inflammation or a ter marker of inflammation globulins or fibrinogen. can cause temporary eleva	n.





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	٨		& Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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BARCODE NO.	:01526002		CO	LLECTION DATE	: 23/Feb/2025 08:36AM
CLIENT CODE.	: KOS DIAGNOS	STIC LAB	RE	PORTING DATE	: 23/Feb/2025 11:29AM
CLIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		CLINI	CAL CHEMISTR	RY/BIOCHEMIST	'RY
			GLUCOSE F A	STING (F)	
GLUCOSE FASTING		OD-POD)	206.26 ^H	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, NICHO	DLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM	215.73 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	213.73-	ing/ uL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM	97.9	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (ENZ	ZYMATIC)	C	BORDERLINE HIGH: 150.0 -
			199.0 HIGH: 200.0 - 499.0
			VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL (DIRECT): SERI	UM 70	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION			BORDERLINE HIGH HDL: 30.0
			60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM	126.15	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMETRY		Ũ	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	, 145.73 ^H	mg/dL	OPTIMAL: < 130.0
by CALCOLATED, SI ECTION HOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
VLDL CHOLESTEROL: SERUM	19.58	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPECTROPHOTOMETRY	,		
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	529.36	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUN		RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
			MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
			11011 MJA. > 11.0
ากพระเลงกา		0	
		Shokra	
		1	



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







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		1.8	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 ECTROPHOTOMETRY	1.4 ^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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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, S	: SERUM PECTROPHOTOMETRY	1.03	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.84	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	22.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[/RIDOXAL PHOSPHATE	14	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPI	ERUM ECTROPHOTOMETRY	1.59	RATIO	0.00 - 46.00
ALKALINE PHOSP by Para Nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	120.45	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	48.52	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.25	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.95	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		2.3	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.72	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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



INTERPRETATION





	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugan MD 0 & Consultant	(Pathology)
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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



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/2025 02:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	KIDNI	EY FUNCTIO	N TEST (COMPLETE))
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	26.21	mg/dL	10.00 - 50.00
CREATININE: SERU	JM	0.86	mg/dL	0.40 - 1.40
-	OGEN (BUN): SERUM	12.25	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by Calculated, spe	COGEN (BUN)/CREATININE	14.24	RATIO	10.0 - 20.0
UREA/CREATININ	E RATIO: SERUM	30.48	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		3.62	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		8.79	mg/dL	8.50 - 10.60
	ERUM DATE, SPECTROPHOTOMETRY	3.41	mg/dL	2.30 - 4.70
ELECTROLYTES		141.0	1/7	105.0 150.0
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	141.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUE by ISE (ION SELECTIV	M	4.41	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		106.35	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	93.1		

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.



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

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







	MD (Pathology & Microbiology) M		Yugam Chopra MD (Pathology) onsultant Pathologist	MD (Pathology)		
NAME	: Mr. RAJESH KAPOOR					
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1767302			
COLLECTED BY		REG. NO./LAB NO	D. : 012502230	010		
REFERRED BY		REGISTRATION 1				
BARCODE NO.	: 01526002	COLLECTION DA				
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	FE : 23/Feb/2025	5 02:04PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT				
Test Name		Value U	nit Biol	ogical Reference interval		
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	superimposed on renal disease	E LEVELS: nore than creatinine) (e.g. obstructiv	ve uropathy).			
9. 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 (<' 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU G1 G2 G3a	ass (subnormal creatinine prod tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately is superimposed on renal disease 0:1) WITH DECREASED BUN : osis. ad starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr 0:1) WITH INCREASED CREATINI py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in ILAR FILTERATION RATE: DESCRIPTION Normal kidney func Kidney damage w normal or high G Mild decrease in 0	E LEVELS: more than creatinine) (e.g. obstructive uses out of extracellular fluid). ent in blood). none) due to tubular secretion of ure NE: eatine to creatinine). ncrease in creatinine with certain measurement). GFR (mL/min/1.73m2) ith >90 FR 60 -89	ea.	GS		
9. 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 (<' 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2	ass (subnormal creatinine prod tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately is superimposed on renal disease 0:1) WITH DECREASED BUN : osis. ad starvation. 2. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr 0:1) WITH INCREASED CREATINI py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in DESCRIPTION Normal kidney fund Kidney damage w normal or high G	E LEVELS: more than creatinine) (e.g. obstructive uses out of extracellular fluid). ent in blood). none) due to tubular secretion of ure NE: eatine to creatinine). ncrease in creatinine). ncrease in creatinine with certain measurement). GFR (mL/min/1.73m2) ition >90 ith >90 FR 60 -89 n GFR 30-59	ea. ethodologies,resulting in ASSOCIATED FINDIN No proteinuria Presence of Proteir	GS		





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









	Dr. Vinay Chopra MD (Pathology & Microbic Chairman & Consultant Pa	ology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mr. RAJESH KAPOOR		
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1767302
COLLECTED BY	:	REG. NO./LAB NO.	: 012502230010
REFERRED BY	:	REGISTRATION DATE	: 23/Feb/2025 08:27 AM
BARCODE NO.	: 01526002	COLLECTION DATE	: 23/Feb/2025 08:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Feb/2025 02:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	lue 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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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	1	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult:	crobiology)		(Pathology)	
NAME	: Mr. RAJESH					
AGE/ GENDER	: 70 YRS/MAL	E		PATIENT ID	: 1767302	
COLLECTED BY	:			REG. NO./LAB NO.	: 012502230010	
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BARCODE NO.	:01526002			COLLECTION DATE	: 23/Feb/2025 08:36AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 23/Feb/2025 02:04PM	
CLIENT ADDRESS	: 6349/1. NICI	HOLSON ROAD, AM	BALA CANTT	•		
	· · · · , · ·	, ,				
Test Name			Value	Unit	Biological Reference inte	rval
			IDON	PROFILE		
			IKUN			
IRON: SERUM by FERROZINE, SPECT		/	54.43 ^L	μg/dL	59.0 - 158.0	
UNSATURATED IRC			205.84	μg/dL	150.0 - 336.0	
:SERUM		· · ·	A00101	µ8/ «2		
by FERROZINE, SPECT						
TOTAL IRON BINDI :SERUM	NG CAPACITY	(TIBC)	260.27	µg/dL	230 - 430	
by SPECTROPHOTOM	ETERY					
%TRANSFERRIN SA	TURATION: S		20.91	%	15.0 - 50.0	
by CALCULATED, SPEC		ERY (FERENE)	4			
TRANSFERRIN: SEF			184.79 ^L	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIABI		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA		
SERUM IR		Normal to Re	duced	Reduced	Normal	
TOTAL IRON BINDI	NG CAPACITY:	Decrease	ed	Increased	Normal	

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

Decreased < 12-15 %

Decreased

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):
 It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

Decreased

Normal to Increased

% TRANSFERRIN SATURATION:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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Normal

Normal or Increased





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NAME	: Mr. RAJESH KAPOOR				
AGE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1767302	
COLLECTED BY	:		REG. NO./LAB NO.	:012502230010	
REFERRED BY	:		REGISTRATION DATE	: 23/Feb/2025 08:27 AM	
BARCODE NO.	: 01526002		COLLECTION DATE	: 23/Feb/2025 08:36AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/2025 11:46AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	ſ		
Test Name		Value	Unit	Biological Refere	ence interval
		ENDO	RINOLOGY		
	ТН	YROID FUN	CTION TEST: TOTAL	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOAS	0.79 SSAY)	ng/mI	0.35 - 1.93	
THYROXINE (T4): S	SERUM VESCENT MICROPARTICLE IMMUNOAS	7.07 SSAY)	μgm/c	IL 4.87 - 12.60	
	ATING HORMONE (TSH): SERU		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the trilodothyronine (T3).Fai	measured serum TSH concentrations. TS	GH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50% e metabolically active hormones, thyrox ther underproduction (hypothyroidism)	ine (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis	m: Reduced		Reduced	Increased (Significantly)	

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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		Dr. Vinay Ch MD (Pathology & Chairman & Con			g am Chopra MD (Pathology) tant Pathologist	
NAME	: Mr. RAJES	SH KAPOOR				
AGE/ GENDER	: 70 YRS/M	ALE		PATIENT ID	: 1767302	
COLLECTED BY	:			REG. NO./LAB NO.	: 01250223	60010
REFERRED BY	:			REGISTRATION DAT	E : 23/Feb/202	25 08:27 AM
BARCODE NO.	:01526002			COLLECTION DATE	:23/Feb/202	25 08:36AM
CLIENT CODE.	: KOS DIAG	NOSTIC LAB		REPORTING DATE	: 23/Feb/202	25 11:46AM
CLIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Unit	Bio	logical Reference interval
1 10 Voars	0 0 2 2 28	1 10 Voars	6 00 13 80	1 - 10 Years	0.60 5.50	

1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	1
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
2nd Trimester				0.20 - 3.00		
3rd Trimester				0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pat	nay Chopra hology & Microbiology) n & Consultant Pathologist	Dr. Yugam (MD (F CEO & Consultant P	athology)
IAME	: Mr. RAJESH KAPOO	R		
AGE/ GENDER	: 70 YRS/MALE	PATI	ENT ID	: 1767302
COLLECTED BY	:	REG.	NO./LAB NO.	: 012502230010
REFERRED BY	:	REGI	STRATION DATE	: 23/Feb/2025 08:27 AM
BARCODE NO.	:01526002	COLI	ECTION DATE	: 23/Feb/2025 08:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LA	B REP (DRTING DATE	: 23/Feb/2025 11:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON	I ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITAMI	NS	
		VITAMIN D/25 HYDR(DXY VITAMIN D3	
by CLIA (CHEMILUMINI	DROXY VITAMIN D3): ESCENCE IMMUNOASSAY)	SERUM 38.9	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:	CIENT:	< 20	ng/i	m
	FICIENT:	21 - 29	ng/i	
PREFFERE	ED RANGE: CATION:	30 - 100 > 100	ng/i	mL
conversion of 7- dihy 2.25-OHVitamin D re tissue and tightly bou	drocholecalciferol to Vit epresents the main body und by a transport prote primary role in the maint ion, skeletal calcium dep	amin D3 in the skin upon Ultrav resevoir and transport form of in while in circulation. enance of calcium homeostatis position, calcium mobilization, r	violet exposure. Vitamin D and transpo . It promotes calcium a mainly regulated by pa	calciferol (from animals, Vitamin D3), or by ort form of Vitamin D, being stored in adipose absorption, renal calcium absorption and rathyroid harmone (PTH). kets in children and osteomalacia in adults.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)	M	m Chopra D (Pathology) nt Pathologist
AME	: Mr. RAJESH KAPOOR			
GE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1767302
OLLECTED BY	:		REG. NO./LAB NO.	: 012502230010
EFERRED BY	:		REGISTRATION DATE	: 23/Feb/2025 08:27 AM
ARCODE NO.	: 01526002		COLLECTION DATE	: 23/Feb/2025 08:36AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/2025 12:41PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT		
est Name		Value	Unit	Biological Reference interval
	SED VITAMIN B12	1 Prog	DECREASED VITAN	IIN B12
1.Ingestion of Vitan		1.Pregi		
2.Ingestion of Estro			GS:Aspirin, Anti-convulsan	ts, Colchicine
3.Ingestion of Vitan			nol Igestion	
4.Hepatocellular in 5.Myeloproliferativ			traceptive Harmones modialysis	
6.Uremia			tiple Myeloma	
.In humans, it is ob .The body uses its v xcreted.	ency may be due to lack of IF secr intestinal diseases).	and requires ir ally, reabsorbin etion by gastric c anemia, gloss	ntrinsic factor (IF) for abso g vitamin B12 from the ile c mucosa (eg, gastrectomy,	um and returning it to the liver; very little is gastric atrophy) or intestinal malabsorption (eg y, weakness, hyperreflexia, ataxia, loss of





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



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	Dr. Vinay Ch MD (Pathology & Chairman & Con:		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJESH KAPOOR			
AGE/ GENDER	: 70 YRS/MALE	PA	FIENT ID	: 1767302
COLLECTED BY	:		G. NO./LAB NO.	: 012502230010
REFERRED BY	:		GISTRATION DATE	: 23/Feb/2025 08:27 AM
BARCODE NO. CLIENT CODE.	: 01526002 : KOS DIAGNOSTIC LAB		LLECTION DATE	: 23/Feb/2025 08:36AM : 23/Feb/2025 09:21AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A		OKIING DAIL	. 23/ FCD/ 2023 03.2 TAM
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOCY	
	UDINE DO		SCOPIC EXAMINA	TION
PHYSICAL EXAMIN		UTINE & MICKU	SCOPIC EXAMINA	ATION
QUANTITY RECIEV		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLO	W	PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		>=1.030		1.002 - 1.030
by DIP STICK/REFLEC CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		5.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-•	ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY		,	
MICROSCOPIC EXA		NECATIVE (-		0.3
RED BLOOD CELLS	(RDUS)	NEGATIVE (-	ve) /HPF	0 - 3



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mr. RAJESH KAPOOR			
AGE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1767302
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANT	ΓT	
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	~- 1	/ 111 1	0 - 3
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***



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