



	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME: Mr. DINESAGE/ GENDER: 69 YRS/MACOLLECTED BY: SURJESHREFERRED BY:BARCODE NO.: 01516269CLIENT CODE.: KOS DIAGNCLIENT ADDRESS: 6349/1, NU	LE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE T	: 1601545 : 012409040013 : 04/Sep/2024 09:29 AM : 04/Sep/2024 10:05AM : 04/Sep/2024 10:42AM
Test Name	Value	Unit	Biological Reference interval
	SWASTHYA W	ELLNESS PANEL: GT	
	COMPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT	AND INDICES		
HAEMOGLOBIN (HB)	12.5	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	4.36	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELEC PACKED CELL VOLUME (PCV)		%	40.0 - 54.0
by CALCULATED BY AUTOMATED HE			
MEAN CORPUSCULAR VOLUME (N by CALCULATED BY AUTOMATED HE		fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLC by CALCULATED BY AUTOMATED HE		pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOE	SIN CONC. (MCHC) 31.3 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HE RED CELL DISTRIBUTION WIDTH (I		%	11.00 - 16.00
by CALCULATED BY AUTOMATED HE	MATOLOGY ANALYZER		
RED CELL DISTRIBUTION WIDTH (I by CALCULATED BY AUTOMATED HE		fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	20.94	RATIO	BETA THALASSEMIA TRAIT: < 13.0
GREEN & KING INDEX	33.01	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED WHITE BLOOD CELLS (WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE COUNT (TLC)	5080	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF CUBE &	MICROSCOPY		
NUCLEATED RED BLOOD CELLS (nF by AUTOMATED 6 PART HEMATOLOG	Y ANALYZER		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nF by CALCULATED BY AUTOMATED HER DIFFERENTIAL LEUCOCYTE COUNT	MATOLOGY ANALYZER	%	< 10 %
DIFFERENTIAL LEOCOCYTE COUNT NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE &	 40 ^L	%	50 - 70

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 Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. DINESH JAIN			
AGE/ GENDER	: 69 YRS/MALE	PA	TIENT ID	: 1601545
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012409040013
REFERRED BY	:	RE	GISTRATION DATE	: 04/Sep/2024 09:29 AM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 04/Sep/2024 10:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		47 ^H	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	11	%	2 - 12
BASOPHILS by FLOW CYTOMETR ABSOLUTE LEUKOCY	y by sf cube & microscopy (TES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTRO	PHIL COUNT Y by sf cube & microscopy	2032	/cmm	2000 - 7500
ABSOLUTE LYMPHO		2388	/cmm	800 - 4900
ABSOLUTE EOSINOP		102	/cmm	40 - 440
ABSOLUTE MONOCY	(TE COUNT Y by sf cube & microscopy	559	/cmm	80 - 880
PLATELETS AND OT	HER PLATELET PREDICTIVE MARKE	ERS.		
PLATELET COUNT (P by HYDRO DYNAMIC F	LT) FOCUSING, ELECTRICAL IMPEDENCE	390000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE	0.39 ^H	%	0.10 - 0.36
MEAN PLATELET VO		10	fL	6.50 - 12.0
PLATELET LARGE CEI by HYDRO DYNAMIC	LL COUNT (P-LCC) Focusing, electrical impedence	97000 ^H	/cmm	30000 - 90000
PLATELET LARGE CE	LL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	24.8	%	11.0 - 45.0
PLATELET DISTRIBU	TION WIDTH (PDW)	15.7	%	15.0 - 17.0



NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Sep/2024 03:53PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		·····
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG	MOGLOBIN (HbA1c): rmance liquid chromatography)	7.9 ^H 180.03 ^H	EMOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
by HPLC (HIGH PERFC INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY)			
	AS PER AMERICAN I			
	REFERENCE GROUP abetic Adults >= 18 years	GL	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %	
	t Risk (Prediabetes)	1	5.7 – 6.4	
	iagnosing Diabetes		>= 6.5	
	0 0		Age > 19 Years	
T 1			of Therapy:	< 7.0
Therapeut	ic goals for glycemic control	Actions	s Suggested:	>8.0
		0	Age < 19 Years	<7.5
		GOal (of therapy:	2</td

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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.

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.





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	REG. REGIS COLL REPO ALA CANTT Value CYTE SEDIMENT 5 n indicates the pro- xactly where the in mation. For this d response to the nal sedimentation leucocytosis) , and	nflammation is in the reason, the ESR is typ rapy in both of the ab of red blood cells, su	c) 0 - 20 on associated with infect body or what is causing ically used in conjunction bove diseases as well as over diseases as well as over the blood of the	AM AM Reference interval ction, cancer and auto- g it. on with other test such some others, such as
ESH 6269 DIAGNOSTIC LAB /1, NICHOLSON ROAD, AMBA ERYTHROC ION RATE (ESR) <i>TOMATED METHOD</i> ecause an elevated result ofter t tell the health practitioner ex other conditions besides inflam to monitor disease activity and so onditions that inhibit the norm high white blood cell count (heaemia) also lower the ESR.	REG. REGIS COLL REPO ALA CANTT Value CYTE SEDIMENT 5 n indicates the pro- xactly where the in mation. For this d response to the nal sedimentation leucocytosis) , and	NO./LAB NO. STRATION DATE ECTION DATE ORTING DATE Unit CATION RATE (ESR mm/1st hr reason, the ESR is typ rapy in both of the ab	: 012409040013 : 04/Sep/2024 09:29 : 04/Sep/2024 10:05 : 04/Sep/2024 11:00 Biological R R) C 0 - 20 on associated with inference body or what is causing ically used in conjunction pove diseases as well as a high red blood of	AM AM Reference interval ction, cancer and auto- g it. on with other test such some others, such as
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ERYTHROC ION RATE (ESR) <i>TOMATED METHOD</i> ecause an elevated result ofter t tell the health practitioner ex other conditions besides inflam to monitor disease activity and s onditions that inhibit the norm high white blood cell count (h aemia) also lower the ESR.	Value SYTE SEDIMENT 5 n indicates the privical xactly where the in mation. For this d response to the nal sedimentation leucocytosis), and	ATION RATE (ESR mm/1st hr esence of inflammation fflammation is in the reason, the ESR is typ rapy in both of the ab of red blood cells, su	c) 0 - 20 on associated with infect body or what is causing ically used in conjunction bove diseases as well as over diseases as well as over the blood of the	ction, cancer and auto- g it. on with other test such some others, such as
ERYTHROC ION RATE (ESR) <i>TOMATED METHOD</i> ecause an elevated result ofter t tell the health practitioner ex other conditions besides inflan to monitor disease activity and s onditions that inhibit the norm high white blood cell count (he aemia) also lower the ESR.	5 n indicates the proximation. For this d response to the nal sedimentation leucocytosis), and	ATION RATE (ESR mm/1st hr esence of inflammation fflammation is in the reason, the ESR is typ rapy in both of the ab of red blood cells, su	c) 0 - 20 on associated with infect body or what is causing ically used in conjunction bove diseases as well as over diseases as well as over the blood of the	ction, cancer and auto- g it. on with other test such some others, such as
ION RATE (ESR) TOMATED METHOD ecause an elevated result ofter t tell the health practitioner ex other conditions besides inflam to monitor disease activity and s onditions that inhibit the norm high white blood cell count (h aemia) also lower the ESR.	5 n indicates the proxactly where the in mation. For this d response to the nal sedimentation leucocytosis) , and	mm/1st hr esence of inflammatic offlammation is in the reason, the ESR is typ rapy in both of the ab	0 - 20 on associated with infect body or what is causing ically used in conjunction pove diseases as well as	g it. on with other test such some others, such as cell count
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Ange as rapidly as does CRP, ei any other factors as is ESR, mal ypically a result of two types c er ESR, and menstruation and hyldopa, oral contraceptives, e may decrease it	ither at the start of king it a better may of proteins, globul pregnancy can ca	of inflammation or as rker of inflammation. use temporary elevat	it resolves.	

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

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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		Chopra y & Microbiology) ionsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		98.58	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 24
TRIGLYCERIDES: SERI by GLYCEROL PHOSPH	JM HATE OXIDASE (ENZYMATIC)	89.25	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		40.43	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		40.3	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 CHOLESTEF by CALCULATED, SPEC		58.15	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 184 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPEC		17.85	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	Л	286.41 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	2.44	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: SERI by Calculated, spec		1	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		2.21 ^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 & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. DINESH JAIN AGE/ GENDER : 69 YRS/MALE **PATIENT ID** :1601545 **COLLECTED BY** : SURJESH :012409040013 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :04/Sep/2024 09:29 AM : **BARCODE NO.** :01516269 **COLLECTION DATE** :04/Sep/2024 10:05AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :04/Sep/2024 11:10AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.31 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.12 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.19 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 21.5U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 31.2 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 0.69 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM U/L 40.0 - 130.0 43.73 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL U/L GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 31.87 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY **TOTAL PROTEINS: SERUM** gm/dL 6.20 - 8.00 6.13^L by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.04 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** gm/dL 2.30 - 3.50 2.09^L by CALCULATED, SPECTROPHOTOMETRY

A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION NOTE:- To be corre

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Reference 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)

1.93





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

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

RATIO

1.00 - 2.00









AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	Mr. DINESH JAIN 69 YRS/MALE SURJESH 01516269 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AMB/	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE ALA CANTT	: 1601545 : 012409040013 : 04/Sep/2024 09:29 AM : 04/Sep/2024 10:05AM : 04/Sep/2024 11:10AM
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AGE/ GENDER :	69 YRS/MALE		
		PATIENT ID	: 1601545
NAME :	MF. DINESH JAIN		
	M. DINECH MIN		
	MD (Pathology & Micr Chairman & Consultan	robiology) M	1D (Pathology)
	Dr. Vinay Chopra	a 📔 Dr. Yuga	am Chopra

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	Dr. Vinay Ch MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mr. DINESH JAIN			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interv
	KIE	ONEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		32.58	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)			
CREATININE: SERUM		1.18	mg/dL	0.40 - 1.40
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		15.22	mg/dL	7.0 - 25.0
		15.22	Thg/ dL	7.0 - 23.0
BLOOD UREA NITRO	GEN (BUN)/CREATININE	12.9	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE		27/1	RATIO	
UREA/CREATININE F by CALCULATED, SPE		27.61	RATIO	
URIC ACID: SERUM		3.21 ^L	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE		-	
CALCIUM: SERUM by arsenazo III, spe		9.21	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER		2.68	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	2.00	ing, al	2.00
ELECTROLYTES				
sodium: serum		137.1	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN by ISE (ION SELECTIV		4.8	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	L LLLOINODL)	102.82	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	'E ELECTRODE)	132.02	Think L	20.0 110.0
ESTIMATED GLOME	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	66.8		
(eGFR): SERUM				
by CALCULATED				

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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	MD (Patholog	Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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	. 0040/ 1, MCHOLSON ROA	AD, ANIDALA CANT I		
Test Name		Value	Unit	Biological Reference interval
7. Urine reabsorptior 3. Reduced muscle m 9. Certain drugs (e.g.	exia, high fever). n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN)		osis, Cushing's syndrome, high protein diet,
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (> 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular neci 2. Low protein diet a	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation.) NINE LEVELS: ely more than creatinine) (e.ç ase.	g. obstructive uropa	
 Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Postrenal azotemia Cecreased RATIO (Acute tubular neci Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of 	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation.) NINE LEVELS: ely more than creatinine) (e.ç ase. diffuses out of extracellular absent in blood).	fluid).	
Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia CEREASED RATIO (< Acute tubular neci Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 10:1) WITH INCREASED CREAT) NINE LEVELS: ely more than creatinine) (e.g ase. diffuses out of extracellular absent in blood). armone) due to tubular secr TININE:	fluid).	
Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia CEREASED RATIO (< Acute tubular neci Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 10:1) WITH INCREASED CREAT apy (accelerates conversion o) NINE LEVELS: ely more than creatinine) (e.g ase. diffuses out of extracellular absent in blood). armone) due to tubular secr TININE:	fluid).	
. Urine reabsorption Reduced muscle m Certain drugs (e.g. VCREASED RATIO (>2 Postrenal azotemia Pererenal azotemia DECREASED RATIO (< Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients	 (e.g. ureter colostomy) nass (subnormal creatinine pritetracycline, glucocorticoids 20:1) WITH ELEVATED CREATINA a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine of inappropiate antidiuretic has of inappropiate antidiuretic has provide the superimonate superimonate antidiuretic has provide the superimonate superimonation. e. e.) NINE LEVELS: ely more than creatinine) (e.g ase. diffuses out of extracellular absent in blood). armone) due to tubular secr TININE:	fluid).	
Virine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Poerenal azotemia Certain drugs (e.g. Norecased RATIO (>2 Acute tubular neci Acute tubular neci Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation. e. coreased urea synthesis. (urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 10:1) WITH INCREASED CREAT apy (accelerates conversion o releases muscle creatinine). who develop renal failure.) NINE LEVELS: ely more than creatinine) (e.g ase. diffuses out of extracellular absent in blood). armone) due to tubular secr TININE: f creatine to creatinine).	fluid). etion of urea.	athy).
Curine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (< Acute tubular neci Acute tubular neci Composed to the causes of de Severe liver disease Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. Pregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate superimposed on renal disea 10:1) WITH DECREASED BUN : rosis. nd starvation. e. coreased urea synthesis. (urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 10:1) WITH INCREASED CREAT apy (accelerates conversion o releases muscle creatinine). who develop renal failure.) NINE LEVELS: ely more than creatinine) (e.g ase. diffuses out of extracellular absent in blood). armone) due to tubular secr TININE: f creatine to creatinine).	fluid). etion of urea.	

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS	
G1	G1 Normal kidney function		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		



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NAME	: Mr. DINESH JAIN		
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Test Name		Value Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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Mr. DINESH JAIN 99 YRS/MALE URJESH	PATIENT		
	PATIENT		
URJESH		ID	: 1601545
	REG. NO./	LAB NO.	: 012409040013
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1516269	COLLECT	ON DATE	:04/Sep/2024 10:05AM
XOS DIAGNOSTIC LAB	REPORTI	NG DATE	:04/Sep/2024 11:10AM
Va	alue	Unit	Biological Reference interval
E Contraction of the second	INDOCRINOLO	GY	
THYRO	D FUNCTION TES	ST: TOTAL	
,	.981	ng/mL	0.35 - 1.93
	.96	µgm/dL	4.87 - 12.60
ENT MICROPARTICLE IMMUNOASSAY)	321	μIU/mL	0.35 - 5.50
	COS DIAGNOSTIC LAB COS DIAGNOSTIC LAB COS DIAGNOSTIC LAB COS DIAGNOSTIC LAB COS DIAGNOSTIC LAB COS DIAGNOSTIC LAB COS DIAGNOSTICE I COS DIA	ACOS DIAGNOSTIC LAB ACOS DIAGNOSTIC LAB ACOS DIAGNOSTIC LAB ACOS DIAGNOSTIC LAB ACOS DIAGNOSTIC LAB ACOS DIAGNOSTIC LAB ACOS DIAGNOSTIC LE ACOS ACOS ACOS ACOS ACOS ACOS ACOS ACOS	ASS DIAGNOSTIC LAB REPORTING DATE 3349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL): SERUM 0.981 ng/mL ENT MICROPARTICLE IMMUNOASSAY) I 6.96 µgm/dL ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM 2.321 µIU/mL

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. DINESH JAIN				
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Test Name		Value	Unit	t	Biological Reference interva	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PREC	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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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

*** End Of Report **





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