



N DATE       : 07/1         DATE       : 07/1	3081 2412070008 Dec/2024 09:28 AM Dec/2024 09:32AM Dec/2024 09:44AM Biological Reference interval
NO. : 012 N DATE : 07/1 DATE : 07/1 ATE : 07/1 Unit Unit	2 <b>412070008</b> Dec/2024 09:28 AM Dec/2024 09:32AM Dec/2024 09:44AM
N DATE : 07/1 DATE : 07/1 ATE : 07/1 Unit NEL: GT	Dec/2024 09:28 AM Dec/2024 09:32AM Dec/2024 09:44AM
DATE : 07/1 ATE : 07/1 Unit NEL: GT	Dec/2024 09:32AM Dec/2024 09:44AM
ATE : 07/1 Unit NEL: GT	Dec/2024 09:44AM
Unit NEL: GT	
NEL: GT	Biological Reference interval
NEL: GT	Biological Reference interval
gm/dL	12.0 - 17.0
C .	
Millions/cmm	3.50 - 5.00
%	40.0 - 54.0
fL	80.0 - 100.0
pg	27.0 - 34.0
g/dL	32.0 - 36.0
%	11.00 - 16.00
fL	35.0 - 56.0
RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
/cmm	4000 - 11000
/ 111111	4000 - 11000
	0.00 - 20.00
%	< 10 %
	/cmm





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

NAME	: Mr. RAJEEV		
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1693081
COLLECTED BY	:	REG. NO./LAB NO.	: 012412070008
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 07/Dec/2024 09:28 AM
BARCODE NO.	: 01522085	<b>COLLECTION DATE</b>	:07/Dec/2024 09:32AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 07/Dec/2024 09:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	

Test Name	Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	54	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	26	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	14 <sup>H</sup>	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4088	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1968	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by SF cube & microscopy	1060 <sup>H</sup>	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	454	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	266000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.26	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	67000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	25	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Tost Nama	Va	ha Unit	Biological Deference interval





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	<b>Dr. Vinay Che</b> MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. RAJEEV			
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BARCODE NO.	: 01522085		CTION DATE	: 07/Dec/2024 09:32AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 07/Dec/2024 03:52AM
			KIING DATE	. 07/ Dec/ 2024 02.54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD	EMOGLOBIN (HbA1c):	6.5 <sup>H</sup>	%	4.0 - 6.4
ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)		139.85	mg/dL	60.00 - 140.00
INTERPRETATION:				
		DIABETES ASSOCIATION (		
	REFERENCE GROUP	GLYCOSY	ATED HEMOGLOGIB (	HBAIC) in %
	Non diabetic Adults >= 18 years <5.7		<5./	
Non dia	j	- /		
Non dia A	t Risk (Prediabetes)		5.7 - 6.4	
Non dia A	j		5.7 – 6.4 >= 6.5	
Non dia A	t Risk (Prediabetes)	Goals of The	5.7 – 6.4 >= 6.5 Age > 19 Years	< 7.0
Non dia A D	t Risk (Prediabetes)	Goals of The Actions Sugge	5.7 – 6.4 >= 6.5 Age > 19 Years rapy:	< 7.0 >8.0
Non dia A D	t Risk (Prediabetes) iagnosing Diabetes	Goals of The Actions Sugge	5.7 – 6.4 >= 6.5 Age > 19 Years rapy:	

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 appropiate.

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 faisely 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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		& Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
IAME	: Mr. RAJEEV			
AGE/ GENDER	: 52 YRS/MALE	PATIE	NT ID	: 1693081
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BARCODE NO.	: 01522085	COLLE	CTION DATE	: 07/Dec/2024 09:32AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 07/Dec/2024 09:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
<b>NTERPRETATION:</b> 1. ESR is a non-specif	fic test because an elevated res	ult often indicates the pres	ence of inflammat	ion associated with infection, cancer and auto-
. ESR is a non-speci nmune disease, but . An ESR can be affe s C-reactive protein . This test may also <b>ONDITION WITH LO</b> low ESR can be see polycythaemia), sig s sickle cells in sick <b>OTE:</b> . ESR and C - reactiv . Generally, ESR doc . <b>CRP is not affected</b>	does not tell the health practit ected by other conditions beside be used to monitor disease acti ematosus W ESR m with conditions that inhibit th	ioner exactly where the inf is inflammation. For this re- ivity and response to thera ne normal sedimentation o count (leucocytosis), and s ESR. ers of inflammation. i CRP, either at the start of <b>SR, making it a better mark</b>	lammation is in the ason, the ESR is ty py in both of the a f red blood cells, s some protein abno inflammation or a: <b>cer of inflammation</b>	pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.





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



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		Chopra zy & Microbiology) Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant I	(Pathology)
NAME	: Mr. RAJEEV			
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REFERRED BY	:	REGI	STRATION DATE	: 07/Dec/2024 09:28 AM
BARCODE NO.	: 01522085	COLL	ECTION DATE	: 07/Dec/2024 09:32AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:07/Dec/2024 11:18AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLIN	VICAL CHEMISTRY	BIOCHEMIST	RY
		GLUCOSE FAST	FING (F)	
	(F): PLASMA	123.73 <sup>H</sup>	mg/dL	NORMAL: < 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra & Microbiology) onsultant Pathologist		(Pathology)
AME	: Mr. RAJEEV			
GE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1693081
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LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Fest Name		Value	Unit	<b>Biological Reference interval</b>
		I IPIN PRO	OFILE : BASIC	
HOLESTEROL TO	TAL · SERIM	136.24	mg/dL	<b>OPTIMAL:</b> < 200.0
by CHOLESTEROL OX		130.24	ling/ uL	BORDERLINE HIGH: 200.0 -
				HIGH CHOLESTEROL: > OR = 240.0
RIGLYCERIDES: S		215.16 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)	<b>NI0.10</b> 0	BORDERLINE HIGH: 150.0 - 199.0	
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTERO	L (DIRECT): SERUM	36.25	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
by GELECTIVE INTIDAT				60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROI		56.96	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
<i>»</i> , <i>«</i> , <i>»</i>				BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
ION HDL CHOLEST	TEROL: SERUM	99.99	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
LDL CHOLESTER	)I · CEDIIM	43.03	The market	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE		43.03	mg/dL	0.00 - 43.00
OTAL LIPIDS: SER		487.64	mg/dL	350.00 - 700.00
CHOLESTEROL/HD		3.76	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE				AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0





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	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con			(Pathology)
NAME	: Mr. RAJEEV			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1693081
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		1.57	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		5.94 <sup>H</sup>	RATIO	3.00 - 5.00

# INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Dr. Yugam Chopra MD (Pathology) **CEO & Consultant Pathologist** 

-- .

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

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Test Name	Value	Unit	<b>Biological Reference interval</b>
LIVER	FUNCTION TEST	Г (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.69	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.48	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	24.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.2	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.09	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	135.43 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	21.81	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.57	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.96	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.61 <sup>H</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.1	RATIO	1.00 - 2.00

### INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

## **INCREASED:**

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	
Test Name		Value Unit	Biological Reference interval

0	Test Name Value Unit Biological Reference inte
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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 ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNE	Y FUNCTION	FEST (COMPLETE)	
UREA: SERUM		24.44	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	MATE DEHYDROGENASE (GLDH)		0	
CREATININE: SER		1.13	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	11.42	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
	ROGEN (BUN)/CREATININE	10.11	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED. SPE	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM	21.63	RATIO	
	ECTROPHOTOMETRY	0.04	/ 17	0.00 7.70
URIC ACID: SERUM		6.64	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.82	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		0.07	/ 17	0.00 4.70
PHOSPHOROUS: SI	EKUM DATE, SPECTROPHOTOMETRY	3.07	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		141.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERU		4.1	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				0.00 0.00
CHLORIDE: SERUM		105.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV ESTIMATED GLON	VE ELECTRODE) MERULAR FILTERATION RATE			
	IERULAR FILTERATION RATE	78.2		
(eGFR): SERUM	ILIOLAN FILTENATION NATE	10.2		
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.

3. GI haemorrhage.



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	I	Dr. Vinay Chopra 1D (Pathology & Microl Chairman & Consultant			<b>m Chopra</b> D (Pathology) nt Pathologist		
NAME	: Mr. RAJEEV						
AGE/ GENDER	: 52 YRS/MALI		РАТ	IENT ID	: 1693081		
OLLECTED BY			RFG	. NO./LAB NO.	:0124120700	008	
EFERRED BY				ISTRATION DATE	: 07/Dec/2024		
BARCODE NO.	:01522085			LECTION DATE	:07/Dec/2024		
LIENT CODE.	: KOS DIAGNO			ORTING DATE	:07/Dec/2024	11:12AM	
CLIENT ADDRESS	: 6349/1, NICI	IOLSON ROAD, AMBAI	A CANTT.				
Test Name			/alue	Unit	Biolo	gical Reference inte	erval
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia	ass (subnormal ( tetracycline, glu <b>0:1) WITH ELEVA</b> (BUN rises displ superimposed o	stomy) reatinine production) cocorticoids) <b>FED CREATININE LEVEL</b> oportionately more that n renal disease.	5:		icosis, Cushing's syn pathy).		
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> <1 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 c 8. Pregnancy. <b>DECREASED RATIO (</b> <1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERL</b> <b>CKD STAGE</b> G1	(e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed of 0:1) WITH DECRI osis. Id starvation. 2: creased urea syr- urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop ref sis (acetoacetate creased BUN/crea apy (interferes v LAR FILTERATION	stomy) reatinine production) cocorticoids) <b>FED CREATININE LEVELS</b> oportionately more that is renal disease. <b>ASED BUN :</b> thesis. creatinine diffuses ou is virtually absent in bl ntidiuretic harmone) du <b>ASED CREATININE:</b> onversion of creatine t reatinine). al failure. causes false increase atinine ratio). ith creatinine measure <b>IRATE:</b> <b>DESCRIPTION</b> nal kidney function	S: an creatinine) ( t of extracellula lood). ue to tubular se o creatinine). in creatinine w ment). GFR ( mL/m	e.g. obstructive urop ar fluid). cretion of urea. th certain methodo <u>n/1.73m2 )                                   </u>	bathy). logies,resulting in n ISSOCIATED FINDING	ormal ratio when deh	ydratio
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 4. Postrenal azotemia 5. Prerenal azotemia 6. Acute tubular necr 7. Low protein diet ar 7. Severe liver disease 6. Other causes of de 6. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome c 6. Pregnancy. 7. Phenacimide thera 7. Rhabdomyolysis (r 7. Muscular patients 7. NAPPROPIATE RATIO 7. Diabetic ketoacido 7. Nabel (syndrome c 7. CED STAGE 7. STATED GLOMERL 7. CKD STAGE 7. CKD STAGE 7. CENTATED CLOMERL 7. CKD STAGE	(e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed of 0:1) WITH DECRI osis. Id starvation. 2: creased urea syr urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop ref sis (acetoacetate creased BUN/crea apy (interferes v LAR FILTERATION Nor Kid	stomy) reatinine production) cocorticoids) <b>FED CREATININE LEVELS</b> oportionately more that is renal disease. <b>ASED BUN :</b> thesis. creatinine diffuses ou is virtually absent in bl ntidiuretic harmone) du <b>ASED CREATININE:</b> onversion of creatine t reatinine). al failure. causes false increase atinine ratio). ith creatinine measure <b>IRATE:</b> <b>DESCRIPTION</b> ney damage with	S: an creatinine) ( t of extracellula lood). ue to tubular se o creatinine). in creatinine w ment). GFR ( mL/m	e.g. obstructive urop ar fluid). cretion of urea. th certain methodo <u>n/1.73m2 )                                   </u>	oathy). logies,resulting in n ISSOCIATED FINDING No proteinuria Presence of Protein	ormal ratio when deh	ydratio
. Urine reabsorption . Reduced muscle m . Certain drugs (e.g. <b>VCREASED RATIO (&gt;2</b> . Postrenal azotemia <b>DECREASED RATIO (</b> <1 . Acute tubular necr . Low protein diet ar . Severe liver disease . Other causes of de . Repeated dialysis ( . Inherited hyperam . SIADH (syndrome c . Pregnancy. <b>DECREASED RATIO (</b> <1 . Phenacimide thera . Rhabdomyolysis (r . Muscular patients <b>VAPPROPIATE RATIO</b> . Diabetic ketoacido hould produce an in . Cephalosporin ther <u>STIMATED GLOMERU</u> <u>G1</u> <u>G2</u>	(e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed of 0:1) WITH DECRI osis. Id starvation. 2: creased urea syr- urea rather than monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop ren- sis (acetoacetate creased BUN/crea apy (interferes v LAR FILTERATION Nor	stomy) reatinine production) cocorticoids) <b>FED CREATININE LEVELS</b> oportionately more that is renal disease. <b>ASED BUN :</b> thesis. creatinine diffuses ou is virtually absent in bl ntidiuretic harmone) du <b>ASED CREATININE:</b> onversion of creatine t reatinine). al failure. causes false increase atinine ratio). ith creatinine measure <b>IRATE:</b> <b>DESCRIPTION</b> ney damage with rmal or high GFR	S: an creatinine) ( t of extracellula lood). ue to tubular se o creatinine). in creatinine w ment). GFR ( mL/m >9	e.g. obstructive urop ar fluid). cretion of urea. th certain methodo <u>n/1.73m2 )                                   </u>	bathy). logies,resulting in n ISSOCIATED FINDING	ormal ratio when deh	ydratio
Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<1     Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     Inherited hyperam     SIADH (syndrome c     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     CERD STAGE     G1     G2	(e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed of 0:1) WITH DECRI osis. Id starvation. 2: creased urea syr- urea rather than monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop ren- sis (acetoacetate creased BUN/crea apy (interferes v LAR FILTERATION Nor King Nor	stomy) reatinine production) cocorticoids) <b>FED CREATININE LEVELS</b> oportionately more that is renal disease. <b>ASED BUN :</b> thesis. creatinine diffuses ou is virtually absent in bl ntidiuretic harmone) du <b>ASED CREATININE:</b> onversion of creatine t reatinine). al failure. causes false increase atinine ratio). ith creatinine measure <b>IRATE:</b> <b>DESCRIPTION</b> nal kidney function ney damage with rmal or high GFR d decrease in GFR	S: an creatinine) ( t of extracellula lood). ue to tubular se o creatinine). in creatinine w ment). GFR (mL/m >9 60	e.g. obstructive urop ar fluid). cretion of urea. th certain methodo <u>n/1.73m2 )                                   </u>	oathy). logies,resulting in n ISSOCIATED FINDING No proteinuria Presence of Protein	ormal ratio when deh	ydratio
Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<1     Acute tubular necr     Low protein diet ar     Severe liver disease     Other causes of de     Repeated dialysis (     Inherited hyperam     SIADH (syndrome c     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     CEMBARED GLOMERL     CKD STAGE     G1     G2	(e.g. ureter colo ass (subnormal of tetracycline, glu 0:1) WITH ELEVA (BUN rises dispi- superimposed of 0:1) WITH DECRI osis. Id starvation. creased urea syr- urea rather than monemias (urea f inappropiate a 0:1) WITH INCRE oy (accelerates of eleases muscle of who develop rer sis (acetoacetate creased BUN/creased BUN/creased LAR FILTERATION Nor Kid Nor Kid Mode	stomy) reatinine production) cocorticoids) <b>FED CREATININE LEVELS</b> oportionately more that is renal disease. <b>ASED BUN :</b> thesis. creatinine diffuses ou is virtually absent in bl ntidiuretic harmone) du <b>ASED CREATININE:</b> onversion of creatine t reatinine). al failure. causes false increase atinine ratio). ith creatinine measure <b>IRATE:</b> <b>DESCRIPTION</b> ney damage with rmal or high GFR	S: an creatinine) ( t of extracellula lood). ue to tubular se o creatinine). in creatinine w ment). GFR ( mL/m >9	e.g. obstructive urop ar fluid). cretion of urea. th certain methodo n/1.73m2)	oathy). logies,resulting in n ISSOCIATED FINDING No proteinuria Presence of Protein	ormal ratio when deh	ydratio



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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. RAJEEV		
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1693081
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012412070008
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 07/Dec/2024 09:28 AM
BARCODE NO.	: 01522085	<b>COLLECTION DATE</b>	: 07/Dec/2024 09:32AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 07/Dec/2024 11:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Test Name	Valu	e 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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	MD (Patholog	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		g <b>am Chopra</b> MD (Pathology) tant Pathologist	
NAME	: Mr. RAJEEV				
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1693081	
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REFERRED BY	:		<b>REGISTRATION DAT</b>	E : 07/Dec/2024 09:28 AM	
BARCODE NO.	: 01522085		COLLECTION DATE	:07/Dec/2024 09:32AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	:07/Dec/2024 11:29AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Refere	ence interval
			CRINOLOGY CTION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUN	0.748	ng/m	L 0.35 - 1.93	
THYROXINE (T4): S		10.72	μgm/	dL 4.87 - 12.60	
	ATING HORMONE (TSH): SE		µIU/r	mL 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
INTERPRETATION:	circadian variation, reaching peak la	valchatwoon 2.1 am	and at a minimum batwoon 4	10 pm. The variation is of the order of 500	V Honco timo of th
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	. TSH stimulates the p	production and secretion of th	10 pm. The variation is of the order of 50% ne metabolically active hormones, thyrox either underproduction (hypothyroidism	kine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or I	ow Normal	Normal or Low Normal	High	

LIM	ITAT	ION	IS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		LATING 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

Increased

Normal or High Normal





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NAME	: Mr. RAJEEV			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTT		

Test Name			Value Unit		Value Unit		<b>Biological Reference interval</b>
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 LE	VELS 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

\*\*\* End Of Report \*





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