



	Dr. Vinay Chopra MD (Pathology & Microbic Chairman & Consultant Pa			(Pathology)
NAME	: Mr. RAMANNA REDDY			
AGE/ GENDER	: 34 YRS/MALE		PATIENT ID	: 1665115
COLLECTED BY	:		REG. NO./LAB NO.	: 012411080006
REFERRED BY	:		REGISTRATION DATE	: 08/Nov/2024 08:02 AM
BARCODE NO.	: 01520336		COLLECTION DATE	: 08/Nov/2024 08:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Nov/2024 08:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.2	;
	COMP	PLETE BLO	OOD COUNT (CBC)	
RED BLOOD CELL	S (RBCS) COUNT AND INDICES		, , ,	
HAEMOGLOBIN (H	(B)	14.9	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL ((RBC) COUNT	5.61 ^H	Millions	cmm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOL by CALCULATED BY A	UME (PCV) automated hematology analyzer	46	%	40.0 - 54.0
MEAN CORPUSCUL	AR VOLUME (MCV)	82	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER	26.3 ^L	pg	27.0 - 34.0
	AUTOMATED HEMATOLOGY ANALYZER			32.0 - 36.0
	AR HEMOGLOBIN CONC. (MCHC)	32.1 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	14.2	%	11.00 - 16.00
RED CELL DISTRIB	SUTION WIDTH (RDW-SD)	43.4	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX	AUTOMATED HEMATOLOGY ANALYZER	14.62	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		14.02	IIII0	13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI	DEX	20.55	RATIO	BETA THALASSEMIA TRAIT:<
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			
	E COUNT (TLC) y by sf cube & microscopy	8060	/cmm	4000 - 11000
	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PA	RT HEMATOLOGY ANALYZER		0/	
	BLOOD CELLS (nRBCS) % automated hematology analyzer	NIL	%	< 10 %

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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Test Name	Value	Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	42 ^L	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	38	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	15 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3385	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3063	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1209 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	403	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	E MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	228000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.25	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	75000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	33	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.3	%	15.0 - 17.0



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Test Name	Valu	le Unit	Biological Reference interval

RECHECKED



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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Nov/2024 09:05AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
(polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	W ESR n with conditions that inhibit the n hificantly high white blood cell cou- e cell anaemia) also lower the ESI e protein (C-RP) are both markers es not change as rapidly as does CF by as many other factors as is ESR ed, it is typically a result of two typ we a higher ESR, and menstruation	Int (leucocytosis R. of inflammation P, either at the , making it a bet oes of proteins, and pregnancy	 and some protein abno start of inflammation or a: ter marker of inflammatior globulins or fibrinogen. can cause temporary eleva 	rmalities. Šome changes in red cell shape (such s it resolves. 1.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY	/BIOCHEMIST	'RY
		CLUCOSE EAS	ГING (F)	
		GLUCOSE FAS		

IN ACCORDANCE 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





50 9001 . 2000 CENT				
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CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	:08/Nov/2024 10:19AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		129.97	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	75.21	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM	54.52	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0
LDL CHOLESTERO		68.41	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLES' by calculated, spe		75.45	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
VLDL CHOLESTER		15.04	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SEE by CALCULATED, SPE	RUM	343.15 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		2.38	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		1.25	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.38 ^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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COLLECTED BY	:		REG. NO./LAB NO.	:012411080006
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Test Name		Value	Unit	Biological Refe
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, S	: SERUM PECTROPHOTOMETRY	0.61	mg/dL	INFANT: 0.20 - ADULT: 0.00 - 1
	Г (CONJUGATED): SERUM spectrophotometry	0.17	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.44	mg/dL	0.10 - 1.00

Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TH	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.61	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.17	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.44	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	26.02	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	29.1	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.89	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para nitrophenyl phosphatase by amino methyl propanol	60.62	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	18.07	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.43	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.48	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by Calculated, spectrophotometry	2.95	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.52	RATIO	1.00 - 2.00

INTERPRETATION

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

INCREASED:

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





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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).

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

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Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		27.02	mg/dL	10.00 - 50.00
CILLIN DELIVORI	MATE DEHYDROGENASE (GLDH)	21.02	ing, ul	10.00 00.00
CREATININE: SER		1.19	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	ROGEN (BUN): SERUM	12.63	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	12.05	ing/ uL	1.0 - 23.0
	ROGEN (BUN)/CREATININE	10.61	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININ		22.71	RATIO	
	ECTROPHOTOMETRY	~~	101110	
URIC ACID: SERUM		6.87	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SEPERUXIDASE	9.71	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	0.111	ing, ui	0.00 10.00
PHOSPHOROUS: SH	ERUM DATE, SPECTROPHOTOMETRY	3.12	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECIROPHOTOMETRY			
SODIUM: SERUM		142.1	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.53	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	Л	106.57	mmol/L	90.0 - 110.0
ESTIMATED GLON	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by calculated <u>INTERPRETATION:</u>	IERULAR FILTERATION RATE	82.2		

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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			DAIL	. 08/100/ 2024 10	J. 19AW	
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Test Name		Value	Unit	Biologic	cal Reference into	erval
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately m superimposed on renal disease.		ructive uropa	thy).		
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 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 thera ESTIMATED GLOMERI CKD STAGE	tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately m superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. Ind starvation. e. creased urea synthesis. (urea rather than creatinine diffu imonemias (urea is virtually abse of inappropiate antidiuretic harmonentias (urea is virtually abse of inappropiate anti	ELEVELS: nore than creatinine) (e.g. obst uses out of extracellular fluid). ent in blood). one) due to tubular secretion of IE: eatine to creatinine). crease in creatinine with certa measurement).	of urea. in methodolo	gies,resulting in norr	mal ratio when der	nydratio
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin their 5. CKD STAGE G1	tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately m superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. Ind starvation. e. creased urea synthesis. (urea rather than creatinine diffu imonemias (urea is virtually abse of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININ apy (accelerates conversion of create releases muscle creatinine). who develop renal failure. bis (acetoacetate causes false indo creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION Normal kidney funct	LEVELS: nore than creatinine) (e.g. obst uses out of extracellular fluid). one) due to tubular secretion of IE: eatine to creatinine). crease in creatinine with certa neasurement).	of urea. in methodolo	ogies,resulting in norr SOCIATED FINDINGS No proteinuria	mal ratio when der	nydratio
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NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 9. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido 5. Nould produce an in 2. Cephalosporin thera 5. STIMATED GLOMERI CKD STAGE G1 G2	tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately m superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. Ind starvation. e. creased urea synthesis. (urea rather than creatinine diffu monemias (urea is virtually abse of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININ apy (accelerates conversion of create releases muscle creatinine). who develop renal failure. bis (acetoacetate causes false induce creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION Normal kidney funct Kidney damage wit normal or high GFI	LEVELS: nore than creatinine) (e.g. obst uses out of extracellular fluid). one) due to tubular secretion of one) due to tubular secretion of IE: eatine to creatinine). crease in creatinine with certa neasurement). GFR (mL/min/1.73m tion >90 th >90 R >90	of urea. in methodolo	ogies,resulting in norr SOCIATED FINDINGS No proteinuria		nydratio
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 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 their ESTIMATED GLOMERI CKD STAGE G1	tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately m superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. Ind starvation. e. creased urea synthesis. (urea rather than creatinine diffu imonemias (urea is virtually abse of inappropiate antidiuretic harmone 10:1) WITH INCREASED CREATININ apy (accelerates conversion of create releases muscle creatinine). who develop renal failure. bis (acetoacetate causes false indo creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION Normal kidney funct Kidney damage wit	LEVELS: nore than creatinine) (e.g. obst uses out of extracellular fluid). one) due to tubular secretion of one) due to tubular secretion of LE: eatine to creatinine). crease in creatinine with certa measurement). <u>GFR (mL/min/1.73n</u> tion >90 th >90 FR 60 -89	of urea. in methodolo	ogies,resulting in norr SOCIATED FINDINGS No proteinuria resence of Protein ,		nydratio
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 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 there ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately m superimposed on renal disease. 10:1) WITH DECREASED BUN : rosis. and starvation. e. ecreased urea synthesis. (urea rather than creatinine diffu- monemias (urea is virtually abse- of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININ apy (accelerates conversion of cre- releases muscle creatinine). who develop renal failure. bis (acetoacetate causes false inco- creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION Normal kidney funct Kidney damage wit normal or high GF Mild decrease in Gf	LEVELS: nore than creatinine) (e.g. obst uses out of extracellular fluid). one) due to tubular secretion of one) due to tubular secretion of LE: eatine to creatinine). crease in creatinine with certa measurement). GFR (mL/min/1.73n tion >90 th >90 R 60 -89 GFR 30-59	of urea. in methodolo	ogies,resulting in norr SOCIATED FINDINGS No proteinuria resence of Protein ,		nydrati





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









	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa		(Pathology)
NAME	: Mr. RAMANNA REDDY		
AGE/ GENDER	: 34 YRS/MALE	PATIENT ID	: 1665115
COLLECTED BY	:	REG. NO./LAB NO.	: 012411080006
REFERRED BY	:	REGISTRATION DATE	: 08/Nov/2024 08:02 AM
BARCODE NO.	: 01520336	COLLECTION DATE	:08/Nov/202408:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:08/Nov/2024 10:19AM
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

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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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	M	m Chopra D (Pathology) nt Pathologist	
NAME	: Mr. RAMANNA REDDY				
AGE/ GENDER	: 34 YRS/MALE		PATIENT ID	: 1665115	
COLLECTED BY	:		REG. NO./LAB NO.	:012411080006	
REFERRED BY	:		REGISTRATION DATE	: 08/Nov/2024 08:02 AM	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Refe	rence interval
		ENDOCI	RINOLOGY		
	TH	YROID FUNC	FION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoas	0.692 say)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immunoas	5.02 SAY)	µgm/di	L 4.87 - 12.60	
	ATING HORMONE (TSH): SERU		µIU/ml	L 0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak levels measured serum TSH concentrations. TSI lure at any level of regulation of the hy roidism) of T4 and/or T3.	stimulates the pro	duction and secretion of the	metabolically active hormones, thyr	oxine (T4)and
CLINICAL CONDITION	T3		T4	TSH]
Primary Hypothyroidis	m: Reduced		Reduced	Increased (Significantly)	

CLINICAL CONDITION	Т3	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:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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 (
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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

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

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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NAME	: Mr. RAMANNA REDDY			
AGE/ GENDER	: 34 YRS/MALE	PATIENT	ID	: 1665115
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 08/Nov/2024 10:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
	URINE RO	UTINE & MICROSCOP	IC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMI				
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		<=5.0		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	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	NEGATIVE (-VE)		NEGATIVE (-VE)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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

NAME	: Mr. RAMANNA REDDY			
AGE/ GENDER	: 34 YRS/MALE	P	ATIENT ID	: 1665115
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012411080006
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		0-2	/HPF	0 - 5

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	0 - 5
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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