

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consult	crobiology)	Dr. Yugam (MD (P CEO & Consultant Pa	athology)
NAME	: Mr. LOVELY WALIA			
GE/ GENDER	: 42 YRS/MALE	РАТ	IENT ID	: 1692124
OLLECTED BY	:	REG	. NO./LAB NO.	: 012412060004
EFERRED BY	:		ISTRATION DATE	: 06/Dec/2024 07:37 AM
BARCODE NO.	: 01522046		LECTION DATE	: 06/Dec/2024 07:39AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM		ORTING DATE	: 06/Dec/2024 08:36AM
Fest Name		Value	Unit	Biological Reference interval
			ESS PANEL: 1.2 COUNT (CBC)	
ED BLOOD CELL	S (RBCS) COUNT AND INDICES			
IAEMOGLOBIN (H	(B)	10.9 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC	(RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.48	Millions/cr	nm 3.50 - 5.00
ACKED CELL VOL		35.8 ^L	%	40.0 - 54.0
IEAN CORPUSCUL	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	79.9 ^L	fL	80.0 - 100.0
AEAN CORPUSCUI	AR HAEMOGLOBIN (MCH)	24.3 ^L	pg	27.0 - 34.0
MEAN CORPUSCUI	AR HEMOGLOBIN CONC. (MCHC)	30.5^L	g/dL	32.0 - 36.0
RED CELL DISTRIE	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	17.4 ^H	%	11.00 - 16.00
	BUTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	52	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.83	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by calculated white blood ce		30.99	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYT		7680	/cmm	4000 - 11000
	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
IUCLEATED RED I by AUTOMATED 6 PA	RI HEIMATOLOGI ANALIZER			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist Mr. LOVELY WALIA

MD (Pathology) CEO & Consultant Pathologist

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Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYT	TE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CU	IBE & MICROSCOPY	66	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CU		28	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CL	JBE & MICROSCOPY	1	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CU	IBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CU	JBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (5000	,	0000 7500
ABSOLUTE NEUTROPHIL C by FLOW CYTOMETRY BY SF CL		5069	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE C		2150	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL CO		77	/cmm	40 - 440
ABSOLUTE MONOCYTE COL by FLOW CYTOMETRY BY SF CL		384	/cmm	80 - 880
ABSOLUTE BASOPHIL COU by FLOW CYTOMETRY BY SF CU	NT	0	/cmm	0 - 110
PLATELETS AND OTHER P	PLATELET PREDICTIVE	E MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing,	ELECTRICAL IMPEDENCE	156000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING	ELECTRICAL IMPEDENCE	0.23	%	0.10 - 0.36
MEAN PLATELET VOLUME by HYDRO DYNAMIC FOCUSING,	(MPV)	15 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL CO		99000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RA by HYDRO DYNAMIC FOCUSING		63.8 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION by HYDRO DYNAMIC FOCUSING, NOTE: TEST CONDUCTED ON	ELECTRICAL IMPEDENCE	16.4	%	15.0 - 17.0



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







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Test Name	Value	Unit	Biological Reference interval





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LIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 06/Dec/2024 08:45AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Fest Name		Value	Unit	Biological Reference interval	
An ESR can be affe s C-reactive protein This test may also ystemic lupus erythe ONDITION WITH LO Iow ESR can be see polycythaemia). siar	be used to monitor disease activit ematosus W ESR en with conditions that inhibit the	Inflammation. For thi ty and response to th normal sedimentatic unt (leucocytosis) , an R.	s reason, the ESR is ty erapy in both of the a n of red blood cells, s	bically used in conjunction with other test such bove diseases as well as some others, such as	





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CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA CAN	ГТ	
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEM	ISTRY/BIOCHEMIST	'RY
		GLUCOS	SE FASTING (F)	
GLUCOSE FASTIN	G (F): PLASMA Se - peroxidase (god	-POD)	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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.

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		LIPID PROFI	LE : BASIC		
CHOLESTEROL TOT	TAL · SFRUM	199.37	mg/dL	OPTIMAL: < 200.0	
by CHOLESTEROL OX		100.01	ing, di	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0	
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	103.72	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0	
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM ON	46.32	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0	
LDL CHOLESTEROI by CALCULATED, SPE		132.31 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0	
NON HDL CHOLEST by calculated, spe		153.05 ^H	mg/dL	VERT HIGH. > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0	
VLDL CHOLESTERO		20.74	mg/dL	0.00 - 45.00	
by CALCULATED, SPE TOTAL LIPIDS: SER by CALCULATED, SPE	UM	502.46	mg/dL	350.00 - 700.00	
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	4.3	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.86	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM ECTROPHOTOMETRY	2.24 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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

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





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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION T	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI		0.51	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.39	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	20.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM		13.2	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	1.57	RATIO	0.00 - 46.00
ALKALINE PHOSPI		108.32	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	12.18	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.58	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.71	gm/dL	3.50 - 5.50

by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

by CALCULATED, SPECTRUP

by BROMOCRESOL GREEN

GLOBULIN: SERUM

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

2.87

1.29





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gm/dL

RATIO

2.30 - 3.50

1.00 - 2.00

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Test Name	Value	Unit	Biological Reference interval

DECREASED:

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

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

PROGNOSTIC SIGNIFICANCE:	

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



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Test Name		Value	Unit	Biological Reference interva	l
	KIDNI	EY FUNCTIO)N TEST (COMPLETE)		
UREA: SERUM		24.74	mg/dL	10.00 - 50.00	
	ATE DEHYDROGENASE (GLDH)		Ũ		
CREATININE: SERU by ENZYMATIC, SPEC		1.19	mg/dL	0.40 - 1.40	
	OGEN (BUN): SERUM	11.56	mg/dL	7.0 - 25.0	
BLOOD UREA NITR	OGEN (BUN)/CREATININE	9.71 ^L	RATIO	10.0 - 20.0	
RATIO: SERUM by CALCULATED, SPE					
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	20.79	RATIO		
URIC ACID: SERUM		5.52	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS CALCIUM: SERUM	EPEROXIDASE	9.63	mg/dI	8.50 - 10.60	
by ARSENAZO III, SPE	CTROPHOTOMETRY	9.03	mg/dL	8.50 - 10.00	
PHOSPHOROUS: SE		2.74	mg/dL	2.30 - 4.70	
ELECTROLYTES	DATE, SPECTROPHOTOMETRY				
SODIUM: SERUM		142.3	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV					
POTASSIUM: SERUE by ISE (ION SELECTIV		4.06	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIV	[106.73	mmol/L	90.0 - 110.0	
	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	78.2			

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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IAME	: Mr. LOVELY	WALIA							
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Test Name			Value	Ur	nit	Biolo	gical Ref	ference in	terval
8. Reduced muscle m 9. Certain drugs (e.g. I NCREASED RATIO (>2	tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c 0:1) WITH DECR psis.	creatinine production acocorticoids) ATED CREATININE LEV roportionately more on renal disease.	ELS:	ne) (e.g. obstructiv	e uropathy)				
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal 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 Pregnancy. PECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL CKD STAGE 	ass (subnormal tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2: creased urea sy urea rather tha monemias (urea f inappropiate a 0:1) WITH INCR oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO	creatinine production accoorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Athesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function	ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinin rement).	ellular fluid). ar secretion of ure e). e with certain me L/min/1.73m2) >90	a. thodologies	,resulting in n ATED FINDING proteinuria	S	io when de	ehydrat
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Perenal azotemia CECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of SIADH (syndrome of Pregnancy. Pregnancy. Pregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STAGE 	ass (subnormal tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2: creased urea sy urea rather tha monemias (urea f inappropiate a f inappropiate a 0:1) WITH INCR oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO	creatinine production accoorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Attessis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with	ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinin rement).	ellular fluid). ar secretion of ure e). e with certain me L/min/1.73m2)	a. thodologies ASSOCI	,resulting in n ATED FINDING proteinuria nce of Protein	iS	io when de	ehydrat
B. 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 of Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u>	ass (subnormal tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2: creased urea sy urea rather tha monemias (urea f inappropiate a f inappropiate a 0:1) WITH INCR oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO	creatinine production accoorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : A thesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR	ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinin rement). GFR (mi	ellular fluid). ar secretion of ure e). e with certain me L/min/1.73m2) >90 >90	a. thodologies ASSOCI	,resulting in n ATED FINDING proteinuria	iS	io when de	ehydrat
B. 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 of Pregnancy. DECREASED RATIO (<1 Nhenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u> <u>G3a</u>	ass (subnormal tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2: creased urea sy urea rather tha monemias (urea f inappropiate a f inappropiate a 0:1) WITH INCR oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO	creatinine production accorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Attess. A creatinine diffuses of a svirtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measu. N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR_ Id decrease in GFR	ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinin rement). GFR (mi	ellular fluid). ar secretion of ure e). e with certain me L/min/1.73m2) >90 >90 60 -89	a. thodologies ASSOCI	,resulting in n ATED FINDING proteinuria nce of Protein	iS	io when de	ehydrat
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 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 Pregnancy. DECREASED RATIO (<1 Nhenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2	ass (subnormal tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. creased urea sy urea rather tha monemias (urea f inappropiate a f inappropiate a 0:1) WITH INCR oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO Non King Non Mod	creatinine production accoorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : A thesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR	ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinin rement). GFR (mi	ellular fluid). ar secretion of ure e). e with certain me L/min/1.73m2) >90 >90	a. thodologies ASSOCI	,resulting in n ATED FINDING proteinuria nce of Protein	iS	io when de	ehydrat





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









	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)
NAME	: Mr. LOVELY WALIA		
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1692124
COLLECTED BY	:	REG. NO./LAB NO.	: 012412060004
REFERRED BY	:	REGISTRATION DATE	: 06/Dec/2024 07:37 AM
BARCODE NO.	: 01522046	COLLECTION DATE	:06/Dec/202407:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 06/Dec/2024 10:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ITT	
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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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

ADVICE:

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



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NAME	: Mr. LOVELY WALIA			
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COLLECTED BY	:		REG. NO./LAB NO.	: 012412060004
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BARCODE NO.	:01522046		COLLECTION DATE	:06/Dec/2024 07:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:06/Dec/2024 10:53AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
		ENDOCI	RINOLOGY	
	T	HYROID FUNC	FION TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM	0.685 ASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	SERUM SECENT MICROPARTICLE IMMUNO	9.42 ASSAY)	µgm/d	L 4.87 - 12.60
	TING HORMONE (TSH): SER		µIU/m]	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:		,		
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. 1	SH stimulates the pro	duction and secretion of the	<i>pm. The variation is of the order of 50%.Hence time of</i> metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lov	v Normal	Normal or Low Normal	High

111	ЛІТД	TIC)NS:	-

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	YRONINE (T3)	THYROX	INE (T4)	THYROID STIMU	ATING 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. LOVELY WALIA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ITT	
Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit	I	Biological Reference interval
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 PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester





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







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NAME : Mr. LOVELY W	ALIA		
AGE/ GENDER : 42 YRS/MALE		PATIENT ID	: 1692124
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REFERRED BY :		REGISTRATION DATE	: 06/Dec/2024 07:37 AM
BARCODE NO. : 01522046		COLLECTION DATE	:06/Dec/2024 07:39AM
CLIENT CODE.: KOS DIAGNOSTCLIENT ADDRESS: 6349/1, NICHO		REPORTING DATE	: 06/Dec/2024 11:02AM
CLIENT ADDRESS : 0349/1, NICHC	DLSON ROAD, AMBALA CANT	1	
Test Name	Value	Unit	Biological Reference interval
	CLINICA	L PATHOLOGY	
	URINE ROUTINE & MI	ICROSCOPIC EXAMIN	ATION
PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPH	10	ml	
COLOUR		YELLOW	PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPH TRANSPARANCY	o <i>tometry</i> HAZY		CLEAR
by DIP STICK/REFLECTANCE SPECTROPH SPECIFIC GRAVITY			1.002 - 1.030
by DIP STICK/REFLECTANCE SPECTROPH			1.002 - 1.050
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHO	ALKALI OTOMETRY	NE	
PROTEIN by DIP STICK/REFLECTANCE SPECTROPH	Trace		NEGATIVE (-ve)
SUGAR	Negativ	e	NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHO pH	OTOMETRY 7.5		5.0 - 7.5
by DIP STICK/REFLECTANCE SPECTROPHO BILIRUBIN	o <i>tometry</i> Negativ	e	NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPH	OTOMETRY		
NITRITE by DIP STICK/REFLECTANCE SPECTROPH	Negativ OTOMETRY.	e	NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPH	Normal OTOMETRY	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPH	Negativ	e	NEGATIVE (-ve)
BLOOD	Negativ	e	NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPH ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPH MICROSCOPIC EXAMINATION	NEGATI	VE (-ve)	NEGATIVE (-ve)
RED BLOOD CELLS (RBCs)	NEGATI	VE (-ve) /HPF	0 - 3





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



LOVELV WALLA

NANGE



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

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

Test Name		Value	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	ORTING DATE	:06/Dec/2024 11:02AM
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AGE/ GENDER	: 42 YRS/MALE	PAT	TENT ID	: 1692124
NAME				

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	8-10	/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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