



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mrs. TINU JUNEJA				
AGE/ GENDER	: 40 YRS/FEMALE		PATIENT ID	: 1732261	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012501230012	
REFERRED BY	:		REGISTRATION DATE	: 23/Jan/2025 09:5	
BARCODE NO.	: 01524279		COLLECTION DATE	: 23/Jan/2025 10:0	
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB/		REPORTING DATE	: 23/Jan/2025 10:1	9AM
CLIENT ADDRESS	. 0349/1, MCHOLSON KOAD, AMD	ALA CANTI			
Test Name		Value	Unit	Biologica	l Reference interval
	SWACT	HVA WE	LLNESS PANEL: 1.	9	
				~	
DED BLOOD CELLS	COMP 5 (RBCS) COUNT AND INDICES	LEIE DL	OOD COUNT (CBC)		
HAEMOGLOBIN (HI		11.3 ^L	gm/dL	12.0 - 16	0
by CALORIMETRIC					
RED BLOOD CELL (RBC) COUNT	4.6	Millions	/cmm 3.50 - 5.0	00
PACKED CELL VOLU		35.4 ^L	%	37.0 - 50	.0
MEAN CORPUSCUL		77.1 ^L	fL	80.0 - 10	0.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	24.5 ^L	pg	27.0 - 34	.0
	UTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	31.8 ^L	g/dL	32.0 - 36	0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		, i i i i i i i i i i i i i i i i i i i		
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.9	%	11.00 - 1	6.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	45.9	fL	35.0 - 56	.0
MENTZERS INDEX	OTOMATED HEMATOLOGT ANALIZEN	16.76	RATIO	BETA TH	ALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DE	FICIENCY ANEMIA:
				>13.0	FICIENCI ANEMIA.
GREEN & KING IND	DEX	26.58	RATIO		ALASSEMIA TRAIT:<=
by CALCOLATED				65.0 IRON DE	FICIENCY ANEMIA: >
				65.0	
WHITE BLOOD CE		6060		4000 1	1000
	BY SF CUBE & MICROSCOPY	6960	/cmm	4000 - 1	1000
	SLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20	.00
NUCLEATED RED B	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %	
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				

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 Chop MD (Pathology & M Chairman & Consul	licrobiology)		(Pathology)
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BARCODE NO.	:01524279		COLLECTION DATE	: 23/Jan/2025 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Jan/2025 10:19AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS		63	%	50 - 70
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	26	%	20 - 40
	BY SF CUBE & MICROSCOPY			
EOSINOPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES		8	%	2 - 12
by FLOW CYTOMETRY BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	0	,0	0 1
	<u>CYTES (WBC) COUNT</u>			
ABSOLUTE NEUTRO	DPHIL COUNT BY SF CUBE & MICROSCOPY	4385	/cmm	2000 - 7500
ABSOLUTE LYMPHO	DCYTE COUNT	1810	/cmm	800 - 4900
by FLOW CYTOMETRY ABSOLUTE EOSINO	BY SF CUBE & MICROSCOPY	209	/cmm	40 - 440
	BY SF CUBE & MICROSCOPY	209	/ СППП	40 - 440
ABSOLUTE MONOC		557	/cmm	80 - 880
ABSOLUTE BASOPH	BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			0 110
	THER PLATELET PREDICTIVE			
PLATELET COUNT ((PLT) OCUSING, ELECTRICAL IMPEDENCE	271000	/cmm	150000 - 450000
PLATELETCRIT (PC		0.36	%	0.10 - 0.36
MEAN PLATELET VO	OLUME (MPV) OCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
PLATELET LARGE (CELL COUNT (P-LCC) OCUSING, ELECTRICAL IMPEDENCE	136000 ^H	r /cmm	30000 - 90000
PLATELET LARGE (50.2 ^H	%	11.0 - 45.0
PLATELET DISTRIB	UTION WIDTH (PDW) ocusing, electrical impedence CTED ON EDTA WHOLE BLOOD	15.8	%	15.0 - 17.0

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Test Name	Valu	e Unit	Biological Reference interval



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		hopra & Microbiology) msultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
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ARCODE NO.	: 01524279	CO	LLECTION DATE	: 23/Jan/2025 10:08AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 23/Jan/2025 11:13AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Cest Name		Value	Unit	Biological Reference interval
by RED CELL AGGREG NTERPRETATION: . ESR is a non-specif mmune disease, but . An ESR can be affe s C-reactive protein	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resi does not tell the health practit cted by other conditions beside be used to monitor disease acti	46 ^H ult often indicates the ioner exactly where th es inflammation. For th	NTATION RATE () mm/1st presence of inflammati e inflammation is in the is reason, the ESR is typ	ESR) hr 0 - 20 ion associated with infection, cancer and auto



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

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Jan/2025 12:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	CLINI		STRY/BIOCHEMIST	'nY
			E FASTING (F)	
GLUCOSE FASTING	r (F): PLASMA e - peroxidase (god-pod)	99.29	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

INTERPRETATION 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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LIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
HOLESTEROL TO	TAL: SERUM	140.06	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		110.00	ing, all	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
RIGLYCERIDES: S		101.34	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
	L (DIRECT): SERUM	40.36	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ION			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROI		79.43	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CIROPHOIOMEIRY			ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
ION HDL CHOLEST	FROI · SERIM	99.7	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPE		55.7	ilig/ uL	ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
LDL CHOLESTER		20.27	mg/dL	0.00 - 45.00
by CALCULATED, SPE		381.46	mg/dL	350.00 - 700.00
by CALCULATED, SPE			Ũ	
HOLESTEROL/HD		3.47	RATIO	LOW RISK: 3.30 - 4.40
Sy UNLOULATED, SPE	GINOLINI			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0



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NAME	: Mrs. TINU JUNEJA			
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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		1.97	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	2.51 ^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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	Chairman & Consult			
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Test Name		Value	Unit	Biological Reference interval
			N TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.79	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
,	Γ (CONJUGATED): SERUM	0.31	mg/dL	0.00 - 0.40
by DIAZO MODIFIED, S	SPECTROPHOTOMETRY	0.01	°	
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.48	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	22.52	U/L	7.00 - 45.00
SGPT/ALT: SERUM		21.79	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM	1.03	RATIO	0.00 - 46.00
ALKALINE PHOSPI		81	U/L	40.0 - 150.0
	L TRANSFERASE (GGT): SERUM	36	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.42	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.71	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.71	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.74	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name	Val	ue 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).

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	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		22.09	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)	0.07	Ũ	0.40 4.00
CREATININE: SERU by ENZYMATIC, SPEC		0.67	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM		10.32	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY ROGEN (BUN)/CREATININE	15.4	RATIO	10.0 - 20.0
RATIO: SERUM		10.1	in 110	10.0 20.0
by CALCULATED, SPE UREA/CREATININ		32.97	RATIO	
by CALCULATED, SPE		32.97	KATIO	
URIC ACID: SERUM		2.63	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.85	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	4.13	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		142.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.32	mmol /I	2 50 5 00
POTASSIUM: SERU by ISE (ION SELECTIV		4.32	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		106.65	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV ESTIMATED GLON	/E ELECTRODE) IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by calculated	ERULAR FILTERATION RATE	113.2		
<u>INTERPRETATION:</u> To difforontiato botw	een nre- and nost renal azotemia			

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

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	: 23/Jan/2025 11:3	30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value U	nit Biologic	al Reference interval
1. Acute tubular necro				
 Acute tubular necro Low protein diet and Severe liver disease Other causes of dec Repeated dialysis (u Inherited hyperamr SIADH (syndrome of Pregnancy. DECREASED RATIO (<10 Phenacimide therapy Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos Should produce an inco Cephalosporin therapy 	osis. d starvation. creased urea synthesis. urea rather than creatinine diffusi- nonemias (urea is virtually absen f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE by (accelerates conversion of crea- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incr- treased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	t in blood). ne) due to tubular secretion of ure tine to creatinine). rease in creatinine with certain me reasurement). GFR (mL/min/1.73m2) on >90 >90		nal ratio when dehydrati
Acute tubular necro Low protein diet and Severe liver disease Other causes of dec Repeated dialysis (u Inherited hyperamr SIADH (syndrome of Pregnancy. DECREASED RATIO (<10 Phenacimide therap Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos should produce an inc Cephalosporin thera STIMATED GLOMERUI CKD STAGE G1 G2	osis. d starvation. creased urea synthesis. urea rather than creatinine diffusi- nonemias (urea is virtually absen f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE by (accelerates conversion of crea- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incr- treased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	t in blood). ne) due to tubular secretion of ure tine to creatinine). rease in creatinine with certain me easurement). GFR (mL/min/1.73m2) on >90 >90	ethodologies,resulting in norm ASSOCIATED FINDINGS No proteinuria	nal ratio when dehydrati
Acute tubular necro Low protein diet and Severe liver disease Other causes of dec Repeated dialysis (u Inherited hyperamr SIADH (syndrome of Pregnancy. DECREASED RATIO (<10 Phenacimide therap Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos should produce an inc Cephalosporin thera ESTIMATED GLOMERUI CKD STAGE G1 G2 G3a	osis. d starvation. creased urea synthesis. urea rather than creatinine diffusi- nonemias (urea is virtually absen f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE by (accelerates conversion of crea- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incr- treased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFF	t in blood). ne) due to tubular secretion of ure tine to creatinine). rease in creatinine with certain me easurement). GFR (mL/min/1.73m2) on >90 >90 GR 60 -89	ethodologies,resulting in norm ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	nal ratio when dehydrati
Acute tubular necro Low protein diet and Severe liver disease Other causes of dec Repeated dialysis (u Inherited hyperamr SIADH (syndrome of Pregnancy. DECREASED RATIO (<10 Phenacimide therap Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos should produce an inc Cephalosporin thera ESTIMATED GLOMERUI CKD STAGE G1 G2	osis. d starvation. creased urea synthesis. urea rather than creatinine diffusi- nonemias (urea is virtually absen f inappropiate antidiuretic harmon 0:1) WITH INCREASED CREATININE by (accelerates conversion of crea- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false incr- treased BUN/creatinine ratio). apy (interferes with creatinine me LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	t in blood). ne) due to tubular secretion of ure tine to creatinine). rease in creatinine with certain me asurement). GFR (mL/min/1.73m2) on >90 SFR 60 -89 GFR 30-59	ethodologies,resulting in norm ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	nal ratio when dehydrati





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







	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path	G, /	(Pathology)
NAME	: Mrs. TINU JUNEJA		
AGE/ GENDER	: 40 YRS/FEMALE	PATIENT ID	: 1732261
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501230012
REFERRED BY	:	REGISTRATION DATE	: 23/Jan/2025 09:52 AM
BARCODE NO.	:01524279	COLLECTION DATE	: 23/Jan/2025 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Jan/2025 11:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Valu	le 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



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

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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	MI	m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. TINU JUNEJA				
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BARCODE NO.	:01524279		COLLECTION DATE	: 23/Jan/2025 10:08AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Jan/2025 12:08PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT			
Test Name		Value	Unit	Biological Reference	interval
TRIIODOTHYRONI	NE (T3): SERUM	0.968	TION TEST: TOTAL ng/mL	0.35 - 1.93	
by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOASS		μgm/d		
THYROXINE (T4): 3		1.00			
	IESCENT MICROPARTICLE IMMUNOASS	AY)			
by CMIA (CHEMILUMIN THYROID STIMULA	IESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM	AY) 1 6.031^H	μIU/m		
by CMIA (CHEMILUMIN THYROID STIMULA	IESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS	AY) 1 6.031^H			
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	IESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE circadian variation, reaching peak levels b measured serum TSH concentrations. TSH	AY) 6.031^H AY) etween 2-4 a.m ar stimulates the pro-	$\mu IU/m$ and at a minimum between 6-10 oduction and secretion of the		
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the triiodothyronine (T3).Fai overproduction(hyperthy CLINICAL CONDITION	IESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE circadian variation, reaching peak levels bi measured serum TSH concentrations. TSH lure at any level of regulation of the hypo yroidism) of T4 and/or T3.	AY) 6.031^H AY) etween 2-4 a.m ar stimulates the pro-	$\mu IU/m$ and at a minimum between 6-10 oduction and secretion of the	L 0.35 - 5.50 pm. The variation is of the order of 50%.Henor metabolically active hormones, thyroxine (T her underproduction (hypothyroidism) or TSH	
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai overproduction(hyperthy CLINICAL CONDITION Primary Hypothyroidis	IESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE circadian variation, reaching peak levels bi measured serum TSH concentrations. TSH lure at any level of regulation of the hypo yroidism) of T4 and/or T3. T3 m: Reduced	AY) 1 6.031^H AY) etween 2-4 a.m ar stimulates the pro- pothalamic-pituitar	µIU/m and at a minimum between 6-10 oduction and secretion of the ry-thyroid axis will result in eit T4 Reduced	L 0.35 - 5.50 pm. The variation is of the order of 50%.Hend metabolically active hormones, thyroxine (T her underproduction (hypothyroidism) or TSH Increased (Significantly)	
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fai overproduction(hyperthy CLINICAL CONDITION	IESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASS RASENSITIVE circadian variation, reaching peak levels be measured serum TSH concentrations. TSH lure at any level of regulation of the hypo yroidism) of T4 and/or T3. T3 m: Reduced dism: Normal or Low Net	AY) 1 6.031^H AY) etween 2-4 a.m ar stimulates the pro- pothalamic-pituitar	µIU/m and at a minimum between 6-10 oduction and secretion of the ry-thyroid axis will result in eit T4	L 0.35 - 5.50 pm. The variation is of the order of 50%.Henor metabolically active hormones, thyroxine (T her underproduction (hypothyroidism) or TSH	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

LIMITATIONS:-

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

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

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

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

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





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

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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
NAME	: Mrs. TINU JUNEJA		
AGE/ GENDER	: 40 YRS/FEMALE	PATIENT ID	: 1732261
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501230012
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	
Tost Namo	Value	Unit	Biological Reference interval

Test Name		Value Unit		t	Biological Reference interv	
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	
	RECON	IMENDATIONS OF TSH LI	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





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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		(Pathology)
NAME : Mrs. TINU AGE/ GENDER : 40 YRS/FE COLLECTED BY : SURJESH REFERRED BY : BARCODE NO. : 01524279 CLIENT CODE. : KOS DIAGN CLIENT ADDRESS : 6349/1, NU	MALE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1732261 : 012501230012 : 23/Jan/2025 09:52 AM : 23/Jan/2025 10:08AM : 23/Jan/2025 10:27AM
Test Name	Value	Unit	Biological Reference interval
	CLINICAL I URINE ROUTINE & MIC	PATHOLOGY ROSCOPIC EXAMINA	ATION
PHYSICAL EXAMINATION QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTR COLOUR by DIP STICK/REFLECTANCE SPECTR TRANSPARANCY by DIP STICK/REFLECTANCE SPECTR SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTR CHEMICAL EXAMINATION REACTION by DIP STICK/REFLECTANCE SPECTR PROTEIN by DIP STICK/REFLECTANCE SPECTR SUGAR by DIP STICK/REFLECTANCE SPECTR BILIRUBIN by DIP STICK/REFLECTANCE SPECTR NITRITE by DIP STICK/REFLECTANCE SPECTR NITRITE by DIP STICK/REFLECTANCE SPECTR KETONE BODIES by DIP STICK/REFLECTANCE SPECTR KETONE BODIES by DIP STICK/REFLECTANCE SPECTR BLOOD by DIP STICK/REFLECTANCE SPECTR BLOOD by DIP STICK/REFLECTANCE SPECTR ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTR MICROSCOPIC EXAMINATION	PALE YEL CLEAR CLEAR CLEAR CLEAR 1.02 CLEAR ACIDIC Negative Negative ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY ROPHOTOMETRY	EU/dL	PALE YELLOW CLEAR 1.002 - 1.030 NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) 0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

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

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist NAME : Mrs. TINU JUNEJA **PATIENT ID** AGE/ GENDER : 40 YRS/FEMALE :1732261 **COLLECTED BY** : SURJESH :012501230012 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 23/Jan/2025 09:52 AM : **BARCODE NO.** :01524279 **COLLECTION DATE** : 23/Jan/2025 10:08AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** : 23/Jan/2025 10:27AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT DUCCEUS 2 1 0 5

ł	PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
I	EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	ABSENT
(CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
(CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
ł	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 ***





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

