

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam ( MD (P CEO & Consultant Pa	athology)
NAME	: Mrs. SHALLY GULATI			
AGE/ GENDER	: 49 YRS/FEMALE	PA	TIENT ID	: 1780644
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	:012503060044
REFERRED BY	:		GISTRATION DATE	: 06/Mar/2025 12:51 PM
BARCODE NO.	: 01526574		LLECTION DATE	: 06/Mar/2025 01:04PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB/		PORTING DATE	: 06/Mar/2025 01:24PM
Гest Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WFLL	NESS PANEL: 1.2	
			D COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB	3)	11.1 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL (R	RBC) COUNT	4.46	Millions/cr	nm 3.50 - 5.00
ACKED CELL VOLU		35 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCULA		78.4 <sup>L</sup>	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	25 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA by calculated by al	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	31.9 <sup>L</sup>	g/dL	32.0 - 36.0
	TION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	17.5 <sup>H</sup>	%	11.00 - 16.00
	TION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	51.5	fL	35.0 - 56.0
MENTZERS INDEX		17.58	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED		30.9	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL		0000		1000 11000
FOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) by sf cube & microscopy	8690	/cmm	4000 - 11000
NUCLEATED RED BI	LOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00

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)







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

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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Test Name	Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	63	%	50 - 70
LYMPHOCYTES by flow cytometry by SF cube & microscopy	30	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	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	5475	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	2607	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	174	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by sf cube & microscopy	434	/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	250000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.38 <sup>H</sup>	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	15 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	165000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	65.8 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0



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	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology) MI	m <b>Chopra</b> D (Pathology) nt Pathologist





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		opra     Dr. Yugam Chop       Microbiology)     MD (Patholo       sultant Pathologist     CEO & Consultant Pathologist		(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 06/Mar/2025 02:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHR	OCYTE SEDIM	ENTATION RATE (1	ESR)
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO' A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE:	does not tell the health practition cted by other conditions besides be used to monitor disease activi ematosus <b>W ESR</b> n with conditions that inhibit the nificantly high white blood cell co e cell anaemia) also lower the ES e protein (C-RP) are both markers as not change as rapidly as does C	ner exactly where s inflammation. For ty and response to normal sedimenta unt (leucocytosis) SR. s of inflammation.	he inflammation is in the this reason, the ESR is typ therapy in both of the a tion of red blood cells, su , and some protein abno art of inflammation or as	bicallý 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 (suc s it resolves.





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		Chopra y & Microbiology) onsultant Pathologist	Dr. Yugarı MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLIN		RY/BIOCHEMIST	TRY
		GLUCOSE I	FASTING (F)	
GLUCOSE FASTING	G (F): PLASMA E - PEROXIDASE (GOD-POD)	196.97 <sup>H</sup>	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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Test Name		Value	Unit	Biological Reference interval
1 cst Manie		Value	Cint	biological weierence interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		160.72	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	194.38 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM Ion	45.36	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		76.48	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPE		115.36	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTERC		38.88	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	UM	515.82	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	3.54	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 Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.69	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	4.29	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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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	1.06	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.23	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CCT (UNCONJUGATED): SERUM	0.83	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	12.65	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	13.84	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	0.91	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	96.33	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	26.17	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.1 <sup>L</sup>	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.86	gm/dL	3.50 - 5.50
GLOBULIN: SERUN	1	2.24 <sup>L</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.72	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

**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:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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**INTERPRETATION** 





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MD	n Chopra 9 (Pathology) t Pathologist
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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).

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
	KIDNE	EY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	19.63	mg/dL	10.00 - 50.00
CREATININE: SERI	UM	0.88	mg/dL	0.40 - 1.20
-	ROGEN (BUN): SERUM	9.17	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	10.42	RATIO	10.0 - 20.0
by CALCULATED, SPE				
UREA/CREATININ by CALCULATED, SPE		22.31	RATIO	
URIC ACID: SERUM		5.16	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.41	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH		3.76	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	143.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.44	mmol/L	3.50 - 5.00
CHLORIDE: SERUN by ISE (ION SELECTIV	1	107.63	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	80.5		
INTERPRETATION: To differentiate betw	een pre- and post 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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Fest Name			Value	Un	it	Biologi	cal Referen	ce interva
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g. NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (</li> <li>Acute tubular necr</li> </ol>	tetracycline, glucoc <b>0:1) WITH ELEVATE</b> (BUN rises disprop superimposed on r <b>0:1) WITH DECREAS</b> osis.	atinine production) corticoids) <b>D CREATININE LEVEL</b> ortionately more th enal disease.		) (e.g. obstructive	e uropathy).			
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis ( Repeated dialysis ( NIADH (syndrome of Pregnancy. DECREASED RATIO (< Nescular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin there ESTIMATED GLOMERL CKD STAGE G1	(e.g. ureter colosto ass (subnormal cre tetracycline, glucoo <b>0:1) WITH ELEVATE</b> I (BUN rises disprop superimposed on r <b>0:1) WITH DECREAS</b> osis. Ind starvation. e. creased urea synth- urea rather than cr monemias (urea is of inappropiate anti <b>0:1) WITH INCREAS</b> py (accelerates con eleases muscle creas who develop renal : sis (acetoacetate ca creased BUN/creati apy (interferes with <b>ULAR FILTERATION R</b> Norma	atinine production) corticoids) D CREATININE LEVEL: ortionately more the enal disease. ED BUN : easis. eatinine diffuses ou virtually absent in b diuretic harmone) d ED CREATININE: version of creatine the atinine). failure. failure. failure. creatinine measure ATE: ESCRIPTION	an creatinine t of extracelli lood). ue to tubular to creatinine) in creatinine ement). GFR (mL/	ular fluid). secretion of urea with certain met min/1.73m2 ) >90	a. hodologies,re ASSOCIATI	<b>D FINDINGS</b> oteinuria	mal ratio who	en dehydra
B. Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver diseas     Other causes of de     Repeated dialysis (         NIAPH (syndrome of         SIADH (syndrome of	(e.g. ureter colosto ass (subnormal cre tetracycline, glucoo <b>0:1) WITH ELEVATE</b> (BUN rises disprop superimposed on r <b>0:1) WITH DECREAS</b> osis. ad starvation. bit starvation. creased urea synth- urea rather than cr monemias (urea is of inappropiate anti <b>0:1) WITH INCREAS</b> py (accelerates con eleases muscle creas who develop renal creased BUN/creati apy (interferes with ULAR FILTERATION R Norma	atinine production) corticoids) D CREATININE LEVEL: ortionately more the enal disease. ED BUN : easis. eatinine diffuses ou virtually absent in b diuretic harmone) d ED CREATININE: version of creatine the atinine). failure. failure. failure. creatinine measure ATE: ESCRIPTION I kidney function ey damage with	an creatinine t of extracelli lood). ue to tubular to creatinine) in creatinine ement). GFR (mL/	ular fluid). secretion of urea with certain met min/1.73m2 )	a. hodologies,re ASSOCIATI	<b>D FINDINGS</b> oteinuria of Protein ,		en dehydra
B. Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver diseas     Other causes of de     Repeated dialysis     Inherited hyperam     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Rhabdomyolysis (r         Rouscular patients         NAPPROPIATE RATIO         Cephalosporin ther         STIMATED GLOMERI         CKD STAGE         G1         G2	(e.g. ureter colosto ass (subnormal cre tetracycline, glucoo <b>0:1) WITH ELEVATE</b> I (BUN rises disprop superimposed on r <b>0:1) WITH DECREAS</b> osis. Ind starvation. <i>e.</i> creased urea synth- urea rather than cr monemias (urea is of inappropiate anti <b>0:1) WITH INCREAS</b> py (accelerates con eleases muscle creas who develop renal : sis (acetoacetate ca creased BUN/creati apy (interferes with <u>ILAR FILTERATION R</u> Norma	atinine production) corticoids) D CREATININE LEVEL: ortionately more the enal disease. ED BUN : easis. eatinine diffuses ou virtually absent in b diuretic harmone) d ED CREATININE: version of creatine the atinine). failure. suses false increase nine ratio). o creatinine measure ATE: ESCRIPTION I kidney function by damage with nal or high GFR	an creatinine t of extracelli lood). ue to tubular to creatinine) in creatinine ement). GFR (mL/	ular fluid). secretion of urea with certain met min/1.73m2 ) >90	a. hodologies,re ASSOCIATI	<b>D FINDINGS</b> oteinuria		en dehydra
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B. Reduced muscle m     Certain drugs (e.g.     INCREASED RATIO (>2     I. Postrenal azotemia     DECREASED RATIO (<         I. Acute tubular necr     Low protein diet an     Severe liver diseas     Other causes of de     Severe liver diseas     Nother causes of de     Severe liver diseas     Other causes of de     Severe liver diseas     Nother causes of de     Severe liver diseas     S	(e.g. ureter colosto ass (subnormal cre tetracycline, glucoo <b>0:1) WITH ELEVATE</b> (BUN rises disprop superimposed on r <b>0:1) WITH DECREAS</b> osis. ad starvation. be creased urea synth- urea rather than cr monemias (urea is of inappropiate anti <b>0:1) WITH INCREAS</b> py (accelerates con eleases muscle creas who develop renal creased BUN/creati apy (interferes with <u>UAR FILTERATION R</u> Norma Kidne norm Mild of Moderai	atinine production) corticoids) D CREATININE LEVEL: ortionately more the enal disease. ED BUN : ED BUN : ED BUN : ED CREATININE: version of creatine the atinine). failure. ED CREATININE: version of creatine the atinine). failure. ESCRIPTION I creatinine measure ATE: ESCRIPTION I kidney function by damage with at or high GFR decrease in GFR	an creatinine t of extracelli lood). ue to tubular to creatinine) in creatinine ement). GFR (mL/ 6 3 1	ular fluid). secretion of urea with certain met <u>min/1.73m2 ) &gt;90 &gt;90 0 -89</u>	a. hodologies,re ASSOCIATI	<b>D FINDINGS</b> oteinuria of Protein ,		en dehydra





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

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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. SHALLY GULATI		
AGE/ GENDER	: 49 YRS/FEMALE	PATIENT ID	: 1780644
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012503060044
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	:06/Mar/2025 12:51 PM
BARCODE NO.	: 01526574	<b>COLLECTION DATE</b>	: 06/Mar/2025 01:04PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 06/Mar/2025 02:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Test Name	Value	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 (Path	ay Chopra hology & Microbiology) h & Consultant Patholog		gam Chopra MD (Pathology) tant Pathologist	
NAME	: Mrs. SHALLY GULAT	I			
AGE/ GENDER	: 49 YRS/FEMALE		PATIENT ID	: 1780644	
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BARCODE NO.	:01526574		COLLECTION DATE	:06/Mar/202501:04PM	
CLIENT CODE.	: KOS DIAGNOSTIC LA	3	<b>REPORTING DATE</b>	:06/Mar/202502:34PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANT	T		
Test Name		Value	Unit	Biological Refe	rence interval
		ENDO	CRINOLOGY		
		THYROID FUN	ICTION TEST: TOTA	<b>NL</b>	
TRIIODOTHYRONII	NE (T3): SERUM IESCENT MICROPARTICLE IN	1.325	ng/m	L 0.35 - 1.93	
THYROXINE (T4): S		8.86	μgm/	dL 4.87 - 12.60	
	TING HORMONE (TSH		μIU/1	mL 0.35 - 5.50	
3rd GENERATION, ULT	IESCENT MICROPARTICLE IN RASENSITIVE	IIVIUIVUASSAY)			
INTERPRETATION:					
day has influence on the i triiodothyronine (T3).Fai	measured serum TSH concentr	ations. TSH stimulates the	production and secretion of th	10 pm. The variation is of the order of 50 ne metabolically active hormones, thyro either underproduction (hypothyroidis	oxine (T4)and
CLINICAL CONDITION		3	T4	TSH	
Primary Hypothyroidis	m: R	educed	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Norm	al or Low Normal	Normal or Low Normal	High	

LIMI	TAT	IONS	÷

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)	THYROXINE (T4)		THYROID STIMULATING HORMONE (T	
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





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





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. SHALLY GULATI		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	ГТ	

Test Name			Value	Uni	t	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	
	RECO	MMENDATIONS OF TSH	LEVELS 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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	<b>Dr. Vinay Cho</b> MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SHALLY GULATI			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 06/Mar/2025 03:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	ATHOLOGY	
	URINE ROU	TINE & MICR	<b>OSCOPIC EXAMIN</b>	ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEVE	ED TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YEL	LOW	PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMI	NATION			
REACTION by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	1+		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	2+		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (	-ve)	NEGATIVE (-ve)
MICROSCOPIC EXA	MINATION			
RED BLOOD CELLS by MICROSCOPY ON C	(RBCs) ENTRIFUGED URINARY SEDIMENT	NEGATIVE (	-ve) /HPF	0 - 3



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Test Name		Value	Unit	<b>Biological Reference interval</b>
PUS CELLS by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	0 - 5
EPITHELIAL CELL	S CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)

CASTS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
BACTERIA	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
OTHERS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT	ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

RECHECKED

\*\*\* End Of Report \*\*\*



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